FINAL

2023 Annual Compliance Report for Chiquita Canyon Landfill

Prepared for:

Los Angeles County Department of Regional Planning



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Acronyms and Abbreviations

CAC	Community Advisory Committee
Caltrans	California Department of Transportation
CCL	Chiquita Canyon Landfill
CUP	Conditional Use Permit
EMP	Excavation Management Plan
IMP	Implementation and Monitoring Program
GCCS	LFG collection and control systems
LACPW	Los Angeles County Public Works
LADRP	Los Angeles County Department of Regional Planning
LARWQCB	Los Angeles Regional Water Quality Control Board
LEA	Local Enforcement Agency
LFG	landfill gas
LFGTE	LFG to energy
MMRP	Mitigation Monitoring and Reporting Program
MSW	municipal solid waste
NOV	Notice of Violation
OIMP	Odor Impact Minimization Plan
ppmv	parts per million volume
SCAQMD	South Coast Air Quality Management District
TAC	Technical Advisory Committee
TOC	Total Organic Carbon

Introduction

This Final *2023 Annual Compliance Report for Chiquita Canyon Landfill* has been prepared consistent with Chiquita Canyon Landfill (CCL) Conditional Use Permit (CUP) No. 2004-00042, Condition No. 18, and Implementation and Monitoring Program (IMP) Part XII.

Condition No. 18 requires CCL to "submit annual mitigation monitoring reports to the Department of Regional Planning for approval" as a means of ensuring the effectiveness of the mitigation measures and IMP measures. Condition No. 18 specifies that the report is due on July 1 of each year, with a draft due no later than March 30. IMP Part XII requires CCL to "prepare and submit annual monitoring reports to the Commission and Technical Advisory Committee (TAC) and to the Community Advisory Committee (CAC)," with a draft due at least 90 days prior to that date.

Because of the inconsistencies presented by the requirements of Condition No. 18 and IMP Part XII, on October 25, 2017, the Los Angeles County Department of Regional Planning (LADRP) directed CCL to prepare a single combined annual compliance report that would address the compliance status of the CUP, IMP, and Mitigation Monitoring and Reporting Program (MMRP). The draft report is due on March 30 of each year, with a final report due July 1.

Report Content

This report includes the information required by IMP Part XII, subpart B, Sections 1 through 14. This 2023 Annual Compliance Report addresses the period from January 1, 2023, through December 31, 2023.

The following appendixes provide information required in IMP Part XII:

- Appendix A – Fill Sequence Plan
- Appendix B – Waste Disposal Plan
- Appendix C – Complaint Log
- Appendix D – Archaeological and Paleontological Reports
- Appendix E – SOFA Monthly Reports
- Appendix F – Compliance Status Summary Tables
- Appendix G – Load Inspection Summary Report
- Appendix H – Condition No. 61 Annual Monitoring Report
- Appendix I – Documentation of CARB Compliance
- Appendix J – Condition No. 72 Compliance Evaluation for Alternative Fuel Vehicles and Equipment
- Appendix K – Litter Inspections Log
- Appendix L – Condition No. 108 Annual Waste Origin Report
- Appendix M – Comments and Responses on the Draft 2023 Annual Compliance Report

Review and Comment

IMP Part XII, subpart A requires the draft report to be submitted to the following entities for review and comment:

- Department of Public Health
- Director of the Department of Regional Planning
- Director of the Department of Public Works
- Los Angeles County Forester and Fire Warden
- Regional Water Quality Control Board – Los Angeles Region

- South Coast Air Quality Management District
- County Museum of Natural History
- Community Advisory Committee

CCL requested that each of the above-identified entities provide consolidated comments within 30 days of receipt of the Draft 2023 Annual Compliance Report.

Comments were received from LADRP, Los Angeles County Public Works (LACPW), Los Angeles County Department of Public Health (Local Enforcement Agency, LEA), and LACPW's independent consultant, UltraSystems. Comment letters from these entities, with a table showing how each comment has been responded to in this Final 2023 Annual Compliance Report, are included in Appendix M.

SECTION 1

Solid Waste and Beneficial Use Materials

Required content from IMP Part XII	A cumulative total of all Solid Waste disposed of, and Beneficial Use Materials received at the Landfill, the percent of total available capacity used, the remaining disposal capacity in volume and in tons, and a detailed site map/plan showing the sequence of Landfill operations.

Table 1 provides a summary of material received at CCL during the 2023 Reporting Period.

Table 1. Summary of Material Received During the 2023 Reporting Period
2023 Annual Compliance Report for Chiquita Canyon Landfill

Time Period	Tons		
	Municipal Solid Waste	**Beneficial Use Material[a,b]**	**Total Material Received**
January 2023	180,816.61	30,023.20	210,839.81
February 2023	159,612.40	22,561.63	182,174.03
March 2023	194,674.48	15,253.29	209,927.77
April 2023	186,827.73	31,657.45	218,485.18
May 2023	189,561.39	28,860.39	218,421.78
June 2023	190,851.43	22,500.53	213,351.96
July 2023	171,971.22	18,587.78	190,559.00
August 2023	190,677.96	33,926.37	224,604.33
September 2023	197,443.78	27,827.71	225,271.49
October 2023	189,215.71	37,747.35	226,963.06
November 2023	177,687.79	15,747.39	193,435.18
December 2023	164,372.57	37,434.23	201,806.80
2023 Reporting Period Total	**2,193,713.07[c]**	**322,127.32**	**2,515,840.39**

[a] Includes concrete, asphalt, processed construction and demolition material, contaminated soil, and clean soil diverted to beneficial use on the landfill. Also includes material used for daily cover.

[b] California Department of Resources Recycling and Recovery (CalRecycle)[1] regulations preclude clean and contaminated soil from qualifying as beneficial reuse material. Clean soil is included in this category only because CCL's CUP includes clean dirt in its definition of Beneficial Use Materials.

[c] During the 2023 Reporting Period, while CCL did not exceed the maximum annual tonnage capacity of all materials received by the facility for processing, CCL did exceed the Facility Annual Maximum Capacity for solid waste (excluding beneficial use material) laid out in Condition No. 23 by approximately 129,413 tons.

Table 2 provides a cumulative total of material placed within the waste footprint during the 2023 Reporting Period, including the percent of total available disposal capacity used, remaining available disposal capacity in tons, and remaining available disposal capacity in volume.

[1] CalRecycle, under the California Environmental Protection Agency (EPA), is the California State agency responsible for administration and oversight of state-managed non-hazardous waste handling and recycling programs.

Table 2. Cumulative Totals of Waste Disposed

2023 Annual Compliance Report for Chiquita Canyon Landfill

60,000,000 Tons Permitted to be Placed Under CUP 2004-00042 (Available Disposal Capacity)

Period	Total Material Received	Percent of Total Available Disposal Capacity Consumed
Previous Reporting Periods	13,094,028.00 tons	21.82[a]
Current Reporting Period	2,515,840.39 tons	4.19[b]
Total	15,609,868.39 tons	26.01[c]
Remaining Available Disposal Capacity	44,390,131.61 tons	Not Applicable
Remaining Available Disposal Volume[d,e]	49,322,368.46 cubic yards	Not Applicable

[a] Calculated by dividing tons of Material Received for the Previous Reporting Periods by the total available disposal capacity under CUP 2004-00042 (60,000,000 tons).

[b] Calculated by dividing tons of Material Received for the Current Reporting Period by the total available disposal capacity under CUP 2004-00042 (60,000,000 tons).

[c] Calculated by dividing cumulative tons of Material Received (Previous Reporting Periods plus Current Reporting Period) by the total available disposal capacity under CUP 2004-00042 (60,000,000 tons).

[d] Remaining available disposal volume is calculated by dividing remaining available disposal tonnage by 0.90, which represents the average weight to volume ratio (density) of waste placed within the landfill for the last 5 years.

[e] CUP 2004-00042 does not include a limit on the volume of material (number of cubic yards) that can be placed within the permitted airspace.

Appendix A provides the *Fill Sequencing Plan for the CCL Master Development Plan*, which was originally developed in December 2017, then revised in September 2019, June 2020, July 2021, and January 2022. No revisions were made to the Fill Sequencing Plan in 2023. The Fill Sequencing Plan includes a detailed site map showing the sequence of landfill operations to complete the final grading plan as represented in Exhibit A of CUP 2004-00042.

SECTION 2

Waste Disposal Plan

Required content from IMP Part XII	A copy (which may be reduced and simplified to fit the report format) of the most recent approved Landfill survey (as required in Part I of this IMP) showing the limits of the Fill, current elevations, and the height and extent of the current fill.

A copy of the 2023 Waste Disposal Plan, based on the aerial landfill survey conducted on January 17, 2024, is provided in Appendix B and shows the limits of fill, current elevations, and the height and extent of current fill.

SECTION 3

Weight to Volume Ratio

Required content from IMP Part XII	The achieved ratio of weight to volume of Solid Waste disposed of at the Landfill and a comparison of that ratio with the ratio achieved at comparable landfills in the County, with an explanation of any significant deviation.

A determination of the achieved ratio of weight to volume of Solid Waste disposed of at CCL is accomplished by comparing the airspace consumed between two set dates and the quantity of waste placed in the footprint during the same period. In previous years, CCL conducted aerial surveys of the landfill annually, typically in mid-March or early April, when visibility is reliably good.

IMP Part I requires CCL to conduct a survey of the landfill's elevations not less than 60 or more than 90 days before the deadline for the annual monitoring report. With a July 1 deadline, this survey would be required to occur between approximately April 1 and May 1. However, to accommodate a request by Los Angeles County Department of Public Works (LACPW) that the information resulting from the aerial survey be available for the draft version of the Annual Compliance Report, CCL conducted the aerial survey on January 17, 2024. As a result, information regarding material placed in the landfill for the 2023 compliance period is obtained from two different aerial surveys: one conducted on January 18, 2023, and the second conducted on January 17, 2024.

The airspace consumed between these aerial surveys (a known quantity), plus material placed in the landfill footprint during the same period (also a known quantity), is then used to calculate the ratio of weight to volume. Table 3 provides a summary of the achieved ratio of weight to volume of Material Placed within the Waste Footprint for the period between January 18, 2023, and January 16, 2024. The ratio of weight to volume is calculated for all material placed in the waste footprint, regardless of material type – solid waste or beneficial use material.

Table 3. Ratio of Weight to Volume for Material Placed Within the Waste Footprint
2023 Annual Compliance Report for Chiquita Canyon Landfill

	Airspace Consumed[a]	**Tonnage[b]**	**Capacity Utilization[c]**
Aerial Survey Period	**Cubic Yards**	**Tons**	**Tons per Cubic Yard**
January 18, 2023 – January 16, 2024	2,910,452	2,514,171	0.86
January 24, 2022 – January 17, 2023	2,683,639	2,542,640	0.95
January 12, 2021 – January 23, 2022	3,057,832	2,653,050	0.87
January 13, 2020 – January 11, 2021	2,915,203	2,406,516	0.82
January 21, 2019 – January 13, 2020	2,360,381	2,376,127	1.00
Average 2019 — 2024			0.90[d]

[a] Airspace Consumed is calculated from the previous aerial survey date to the current aerial survey date.

[b] Tonnage is the number of tons of material placed within the waste footprint for the period between aerial survey dates.

[c] Capacity Utilization is calculated by dividing tons of material by cubic yards of airspace consumed.

[d] Average capacity utilization for the last five years is 0.90 tons per cubic yard.

For comparison to the landfill density of 0.90 tons per cubic yard at CCL, Table 4 summarizes the density of solid waste disposed at comparable landfills in Los Angeles County, based on the 2022 Annual Report

of the Countywide Integrated Waste Management Plan, which is the most recent publicly available report.

Table 4. Landfill Density Comparison
2023 Annual Compliance Report for Chiquita Canyon Landfill

	Average Disposal Rate	Landfill Density
Landfill	**Tons per Day**	**Tons per Cubic Yard**
Antelope Valley	2,584	0.75
Lancaster	414	0.75
Scholl Canyon	1,383	0.593
Sunshine Canyon	8,382	0.82

Source: Countywide Disposal Rate and Assessment of Disposal Capacity – 2022 Report

The density achieved at CCL has been historically higher than the density achieved at comparable landfills in the County. This is likely due to the quantity of beneficial use materials used at CCL. Densities achieved at CCL are likely to decrease in the future due to CUP limitations on the quantity of beneficial use materials that can be received at CCL.

SECTION 4

Beneficial Use Material Rates

Required content from IMP Part XII	A summary table of the rates (quantity per month and per calendar year) of materials received, disposed of, used for Beneficial Use Materials at the Facility, and/or otherwise diverted and/or sent off-site for further handling/processing, for the period established by the Director of Public Works, or from the last monitoring report, in sufficient detail to explain significant changes and variations of the rates over time.

Table 5 shows the quantity per month for the 2023 Reporting Period of materials received at CCL that are defined by the LACPW as Beneficial Use Materials.

Table 5. Beneficial Use Materials Received at CCL During the Reporting Period
2023 Annual Compliance Report for Chiquita Canyon Landfill

Month	Fines (Pipe Protection and Protective Cover)	Rubble, Concrete, Asphalt, Road (Road Base and Erosion Control)	Contaminated Soil (Various Uses)	Clean Soil[a] (Various Uses)
	Tons			
January 2023	10,199.15	0.00	19,443.62	380.43
February 2023	9,242.10	0.00	12,950.35	369.18
March 2023	8,828.26	0.00	5,259.48	1,165.55
April 2023	9,096.04	0.00	21,803.15	758.26
May 2023	9,676.37	0.00	18,221.61	962.41
June 2023	9,616.45	0.00	11,799.59	1,084.49
July 2023	9,306.92	0.00	8,903.75	377.11
August 2023	9,670.04	0.00	23,869.82	386.51
September 2023	8,870.95	0.00	18,724.04	232.72
October 2023	10,482.72	0.00	27,101.88	162.75
November 2023	8,982.48	0.00	6,589.62	175.29
December 2023	8,355.43	0.00	28,702.41	376.39
2023 Reporting Period	**112,326.91**	**0.00**	**203,369.32**	**6,431.09**

a. CalRecycle's regulations preclude clean and contaminated soil from qualifying as beneficial reuse material. Clean soil is included in this category only because CCL's CUP includes clean dirt in its definition of Beneficial Use Materials.

Additionally, as described further in the *CCL Program to Assist the County's Diversion Efforts*, prepared consistent with CUP Condition No. 46, CCL recycles white goods, e-waste, mattresses, and metals as feasible from the waste stream at CCL. CCL stores these materials in movable containers for 3rd party recyclers to pick up.

During the 2023 Reporting Period, CCL removed the following recyclable materials for offsite processing:

- Approximately 520 mattresses
- Approximately 59.65 tons of mixed metals

SECTION 5

Diversion Efforts

Required content from IMP Part XII	A summary of the measures taken by the Permittee to divert and recycle materials at the Facility, how the measures compare with waste management plans adopted by the County and various cities, and the overall effectiveness of such measures in achieving the intent of the Grant and the County's waste management plans.

CCL prepared a Program to Assist the County's Diversion Efforts for LACPW review and approval, consistent with CUP Condition No. 46, which was approved by LACPW on February 20, 2018. Elements of the program include the following:

- Utilize alternative daily cover (ADC) at CCL, to the extent permitted by appropriate regulatory agencies, including according to the terms of CUP 2004-00042
- Sort and separate commingled recyclables for pickup by a third-party recycler
- Recover and recycle construction and demolition debris for use onsite
- Stockpile and grind concrete/asphalt for use onsite
- Utilize shredded green and wood waste for erosion control
- Divert contaminated soil for daily cover
- Implement a Recycling Public Awareness and Education Program
- Provide a public drop-off area within the relocated entrance for recyclable materials

The above measures are consistent with waste management plans adopted by Los Angeles County, including the county's 2014 *Roadmap to a Sustainable Waste Management Future*, and subsequent Annual Reports, prepared by LACPW. In particular, CCL's *Program to Assist the County's Diversion Efforts* includes measures to reduce the disposal of organics and construction and demolition debris in the landfill, which represented 35.8% and 24.4%, respectively, of the 2014 Los Angeles County waste stream, as reported in the Roadmap (LACPW 2014).

SECTION 6

Complaint Summary

Required content from IMP Part XII	A summary of the number and character of litter, noise, fugitive dust, and odor complaints received in the reporting period, the disposition of such complaints, and any new or additional measures taken to address or avoid future complaints.

Appendix C provides CCL's complaint resolution log for the 2023 Reporting Period. This includes records of all complaints reported directly to CCL during the 2023 Reporting Period and information on the disposition of each complaint. Table 6 provides a summary of the number and timing of complaints received by CCL and recorded in the complaint resolution log provided in Appendix C.

Table 6. Summary of Reports Regarding Litter, Noise, Dust, and Odor Complaints
2023 Annual Compliance Report for Chiquita Canyon Landfill

Month	Litter Complaints	Noise Complaints	Fugitive Dust Complaints	Odor Complaints Made Directly to CCL [a]	Odor Complaints Reported to CCL by SCAQMD[1]	Other
January 2023	1	0	0	1	0	0
February 2023	0	0	0	1	0	0
March 2023	0	0	0	3	1	0
April 2023	0	0	0	12	3/12	0
May 2023	0	0	0	15/40	9/39	0
June 2023	0	0	0	9/12	11/67	0
July 2023	0	0	0	11/12	21/199	0
August 2023	0	0	0	2	26/455	0
September 2023	0	0	0	0	17/292	0
October 2023	0	0	0	7/17	19/342	0
November 2023	0	0	0	10/16	12/324	2
December 2023	0	0	0	8/14	9/149	0
2023 Reporting Period	**1**	**0**	**0**	**79/130**	**128/1,880**	**2**

[a] Where multiple values are shown, the first value represents the number of days in that month when complaints were received, and the second value represents the number of complaints.

As shown in Table 6, one complaint was reported to CCL for litter and 130 complaints were reported to CCL for odor on 79 different days during the 2023 Reporting Period. No complaints were reported to CCL for noise or dust. Two additional complaints were made regarding residents experiencing difficulties obtaining air purifiers that are part of the Local Resident Air Filter Program. Both complaints were resolved once CCL contacted the residents and assisted them in obtaining their air purifiers.

The odor complaints reported to CCL prior to April 2023 were due to transient and fleeting odors, which had dissipated by the time CCL staff could visit the location of the complaint or shortly after arrival to the location of the complaint, even when CCL staff were able to conduct an odor survey within 15 to 30 minutes of the complaint.

The odor complaints reported to CCL during and after April 2023 resulted from an abnormal landfill reaction that is occurring deep within an older, inactive portion of the landfill waste mass. The landfill reaction has created an increase in production of landfill gas (LFG) and liquids at the landfill. Under the direction of numerous regulatory agencies, CCL has implemented significant odor mitigation measures to slow and stop the reaction and minimize impacts to the community. These mitigation measures and resident-assisting programs are detailed in Section 13.

Table 7 provides a summary of the disposition of complaints reported directly to CCL during the 2023 Reporting Period.

Table 7. Complaints, Investigation, and Disposition
2023 Annual Compliance Report for Chiquita Canyon Landfill

Date(s) of Complaint	Type of Complaint	Nature of Complaint	CCL Action/Follow-Up
Jan 6	Odor	A text was received from a Val Verde resident who reported that it smelled "really, really bad" outside and within a residence located in Val Verde.	Odor surveillance was conducted at 10:25am in Val Verde. Light odor was detected in Central Ave/Lincoln Ave and very light odor was detected on San Martinez Rd/Morningside Dr. All odor control was operating properly.
Jan 31	Litter	A complaint was made through the CCL hotline stating that trash was seen all over the hills in Val Verde, near Chiquito Canyon Road.	A third-party company was hired to pick up the litter. All litter was cleaned up by 2/1/2023.
Feb 18; Mar 29, 30, 31	Odor	Complaints were made by Val Verde residents through text or through the website regarding strong smells were coming from the landfill.	These complaints were either made after office hours or at a time when winds were about 4 to 15 mph. All odor control was operating properly.
Apr 1, 2, 5, 10, 11, 13, 17, 18, 26, 28, 29, 30	Odor	Complaints were made through text or by phone by several Val Verde residents regarding odors that continued over the course of several days and was especially strong during the early morning hours.	Some complaints were made during high wind events or when the landfill was closed. When possible, CCL conducted odor surveys and would detect light to very-light odors. All odor control was operating properly.
May 2, 3, 7, 8, 9, 11, 13, 14, 16, 17, 18, 20, 21, 22, 25	Odor	Complaints were made through text or on the website by several Val Verde residents regarding strong odors, which residents said were even stronger during the early morning hours.	Some complaints were made during non-operating hours. When possible, CCL conducted odor surveys and would detect light to very-light to no odors. All odor control was operating properly.
Jun 4, 10, 16, 17, 18, 20, 22, 28, 30	Odor	Complaints were made by phone or on the website by several Val Verde residents and a Castaic resident regarding strong odors during the early morning and late night hours.	CCL staff found that all odor control was operating properly.
Jul 10, 12, 14, 15, 19, 20, 23, 24, 25, 27, 30	Odor	Complaints were made by phone, through text, or on the website by Val Verde residents and a Castaic resident regarding strong smells.	CCL staff found that all odor control was operating properly.
Aug 5, 16	Odor	Strong smells were reported near Villa Ave and Live Oak neighborhood, and appeared to smell stronger towards the end of the day.	CCL staff found that all odor control was operating properly.
Oct 16, 17, 20, 23, 25, 26, 28	Odor	Complaints were made through the hotline by Val Verde and Castaic residents regarding very strong odors and poor air quality throughout the day when the complaints were made.	CCL staff found that all odor control was operating properly.
Nov 2, 16	Other: Air Purifier	Two residents contacted the hotline to inquire about receiving air purifiers provided by CCL.	The requested air purifiers were picked up shortly after the inquiries were made.
Nov 4, 5, 6, 7, 10, 14, 17, 18, 23, 29	Odor	Complaints were made through the hotline by Val Verde and Castaic residents regarding strong odors.	CCL staff found that all odor control was operating properly.
Dec 2, 3, 4, 11, 18, 21, 27	Odor	Complaints were made through the hotline by Val Verde, Castaic, and Live Oak Community residents regarding very strong odors.	Some complaints were made during non-operating hours. During operating hours, CCL staff found that all odor control was operating properly.

CCL's complaint log for the reporting period is included in Appendix C. Complaint logs are also posted quarterly on CCL's website: https://chiquitacanyon.com/reports/complaint-resolution/.

In addition to the odor complaints reported directly to CCL and included in Appendix C, odor complaints were made only to the SCAQMD and reported after the fact by the SCAQMD to CCL. The odor complaints reported to CCL by SCAQMD include both odor complaints that were verified by SCAQMD and unverified odor complaints. As indicated in Section 7, verified odor complaints reported directly to the SCAQMD resulted in the SCAQMD issuing 106 Notices of Violation to CCL related to odor in 2023. Corrective actions for the odor NOVs issued by SCAQMD are described in Section 13.

SECTION 7

Citation and Notices of Violation Summary

Required content from IMP Part XII	A detailed accounting of any and all citations, notices of violation, or equivalent the Facility received from any regulatory agency for violations in operating the Facility (including violations related to litter, odor, fugitive dust, noise, Landfill gas, or other Environmental Protection and Control Systems), the disposition of the citations, and the penalties assessed and fees paid.

During the 2023 Reporting Period, CCL received 112 Notices of Violation (NOVs) from the South Coast Air Quality Management District (SCAQMD), one NOV from the Los Angeles County Department of Regional Planning (LACDRP), six violations from the Local Enforcement Agency (LEA), one NOV from the Los Angeles Regional Water Quality Control Board (LARWQCB), and one Summary of Violation (SOV) from the Department of Toxic Substances Control (DTSC). Of these 121 NOVs issued during the 2023 Reporting Period, 107 were related to landfill odors, as discussed below. Other NOVs were related to procedural and reporting requirements and daily operating requirements. CCL also received one Notice to Comply from SCAQMD related to documentation requests.

7.1 SCAQMD NOVs – Explanation and Corrective Actions

The SCAQMD issued 112 NOVs to CCL during the 2023 Reporting Period. These NOVs were cited as occurring for alleged violations under the following rules and regulations:

- Health & Safety Code § 42400(a), which states that violating a law designed to protect air quality is a misdemeanor;
- Health & Safety Code § 42401, which states that intentionally or negligently violating any order of abatement is liable for civil penalties;
- SCAQMD Rule 1150.1(d)(3), which requires that any amendments made to the existing design plan be submitted for approval to the Executive Officer;
- SCAQMD Rule 402 and Health & Safety Code § 41700, which prohibit the discharge of air contaminants or other material which causes injury, detriment, nuisance, or annoyance;
- SCAQMD 1150(b)(2), which prohibits excavation of landfill without an approved Excavation Management Plan (EMP);
- SCAQMD 221(a), which requires that an Executive Officer must approve of an EMP before any EMP-related work begins;
- SCAQMD 3002(C)(1), which requires a facility and its equipment to be in compliance with all Title V permit terms, requirements, and conditions at all times; and
- SCAQMD 430(b)(1), which requires a breakdown notification to be submitted within one hour of discovery of an operation breakdown.

The NOVs issued by SCAQMD in 2023 are summarized below.

- **CH&SC § 42400(a):** One NOV was issued for February 27, 2023, under California Health and Safety Code Section 42400(a) for failure to provide lab analysis and Draeger tube readings for landfill gas from the past twelve months in a Microsoft Excel spreadsheet format. This NOV was not related to landfill odors. Instead, it was procedural in nature. Corrective actions included providing the lab analysis and Draeger tube readings as requested.

- **Rule 1150.1(d)(3):** One NOV was issued for April 6, 2023, under SCAQMD Rule 1150.1(d)(3), requiring the gas collection and control systems to operate so that no leaks exceeding 500 parts per million volume (ppmv) total organic carbon measured as methane would occur at any component under positive pressure. The NOV also stated that any component leak exceeding 500 ppmv must be tagged and repaired within ten calendar days. The NOV required the following sites to be addressed: Cell 6 H-1952C, H-1754N, H-1964C, L-32 F-180, H-1962S, 2166W, crack near H-1773B, H-1965NR, CV-2201, H-1963A, H-1966S, CV-2006, and H-1962S. Corrective action included CCL uploading the CCL Rule 1150.1 Quarterly Monitoring Reports for each quarter onto CCL's website with hyperlinks to each report.
- **Rule 402 and CH&SC § 41700:** One NOV was issued for each of the below listed dates for a total of 106 NOVs. All 106 NOVs were issued under SCAQMD Rule 402 and California Health and Safety Code Section 41700 and cited the alleged violation as being for "discharging such quantities of air contaminants to cause injury, detriment, nuisance, or annoyance to a considerable number of persons." These 106 NOVs do not cite specific odor complaints resulting from the landfill. The SCAQMD has previously stated that their policy is to issue an NOV after receiving six or more verified odor complaints in a day. Verification of an odor complaint occurs when an SCAQMD inspector visits the location where the odor was reported to confirm the presence of an odor and that the odor originated from the alleged source. The NOVs were issued for the following dates in 2023:
    - May 17 & 18
    - June 25, 27, 28, 29, & 30
    - July 2, 3, 7, 10, 11, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, & 31
    - August 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28, 29, 30, & 31
    - September 1, 5, 6, 7, 8, 12, 13, 14, 15, 19, 20, 21, 22, 25, 26, 27, & 28
    - October 2, 3, 5, 9, 10, 13, 16, 17, 18, 19, 20, 23, 25, 26, & 27
    - November 2, 6, 10, 13, 14, 15, 16, 28, 29, & 30
    - December 6, 7, 12, 18, 22, 27, & 29

    As described in the CUP Condition No. 69 reports submitted to LACPW, the source of the odors remained consistent for each odor-related NOV. In those reports, CCL described the source as "an increase in the production of landfill gas and liquids caused by an abnormal reaction taking place within an older portion of the Landfill waste mass."

    CUP Condition No. 69 requires that, upon receiving four NOVs related to air quality in any given year, CCL must submit a report to the LACPW within 30 days after the fourth NOV, explaining the NOV and the steps taken to address it. CCL must also provide such a report within 30 days of receiving any additional air quality-related NOV within the same calendar year. CCL submitted six such reports to LACPW in 2023, on July 27, August 23, September 22, October 24, November 22, and December 28, 2023.

    In response to CCL's July 27, 2023, report under Condition No. 69, LACPW responded in an August 3, 2023, letter requesting additional information, which CCL provided. LACPW provided an additional letter requesting information on September 20, 2023, which CCL also provided in a series of responses. These reports and all correspondence with LACPW are posted on CCL's Odor Mitigation webpage: https://chiquitacanyon.com/reports/odor-mitigation. Corrective actions for the odor NOVs issued by SCAQMD are described in Section 13, *Odor Control and Mitigation.*

- **Rule 1150(b)(2), Rule 221(a), and Rule 3002(c)(1):** One NOV was issued for October 5, 2023, citing SCAQMD Rules 1150(b)(2), 221(a), and 3002(c)(1). The NOV noted that Landfill excavation had occurred without submittal or approval of an EMP, a violation of Rule 1150(b)(2) and Rule 221(a).

  The NOV also cites Rule 3002(c)(1) in reference to G43917 Conditions No. 12, No. 14, No. 15, and No. 17, Section J Condition No. 4, and Section K Condition No. 8. The NOV cited the Rule 3002(c)(1) violations for: "Failure to maintain construction spoils and all working areas in moist conditions during active use for truck equipment trafficking;" "Failure to ensure that no construction spoils are left on the landfill surface;" "Failure to ensure that no material extend above the sides or rear of vehicles used to haul material;" "Failure to completely cover exposed landfill trash after excavation activities when work was not actively in progress;" "Failure to submit an Excavation Management Plan prior to initiating excavation;" and "Failure to comply with regulatory requirements and permit terms."

  The activities forming the basis for this NOV were taken as a portion of the corrective action CCL took to mitigate the impacts of the reaction and address the leachate violations noted in the September 19, 2023, LEA Site Inspection Report. Specifically, pressure from excess gas and liquids caused a portion of the western slope of the reaction area to move off of the landfill liner. This also caused leachate seeps to reach the concrete stormwater channels. CCL conducted construction and repair work to remove any waste that was off of the landfill liner, reconstruct the slope, and redirect leachate seepage so that it remains fully on the lined area of the Landfill and flows into a new sump area for prompt collection and offsite disposal. The lower portion of the western slope is now covered with a temporary scrim. CCL cleaned the stormwater channels, and no leachate reached the facility's stormwater pond. CCL does not believe that an EMP was required prior to conducting these activities.

- **Rule 3002(c)(1) and Rule 430(b)(1):** One NOV was issued for October 6, 2023, citing SCAQMD Rule 3002(c)(1), referring to G66132 Conditions No. 2, No. 6, No. 7, and No. 8. The NOV cited these alleged violations for failure to "maintain leachate collection system in good operating condition at all times," "prevent landfill gas condensate vapors from entering the atmosphere," "report breakdown or malfunction of gas condensate / leachate storage system within one hour," and "comply with regulatory requirements and permit conditions." The NOV also cited SCAQMD Rule 430(b)(1) for failure "to submit breakdown notification within one hour." The factual bases underlying this NOV are unclear to CCL. There has been no breakdown or malfunction of the landfill gas condensate and leachate collection/storage system. CCL is discussing this NOV with SCAQMD to better understand the alleged violations. Corrective actions included complying with mitigation measures imposed by the South Coast AQMD in the Stipulated Order for Abatement which are designed to address any issues with the leachate and landfill gas collection and control systems, including conditions requiring CCL to monitor, expand, and maintain its landfill gas well system, flaring capacity, and leachate collection system.

- **Rule 3002(c)(1):** One NOV was issued for December 2, 2023 citing SCAQMD Rule 3002(c)(1) in reference to A/N 624296 Condition No. 2 for failure to "properly maintain and keep [Flare No. 3] in good operating order at all times." The NOV also cited Rule 3002(c)(1) in reference to Section K Condition No. 8, stating that the "operator failed to comply with all regulatory requirements, and all permit terms and conditions." The factual bases underlying this NOV are unclear to CCL. CCL is discussing this NOV with SCAQMD to better understand the alleged violations. Corrective actions included complying with mitigation measures imposed by the South Coast AQMD in the Stipulated Order for Abatement which are designed to address any issues with the landfill gas collection and control systems, including conditions requiring CCL to increase and maintain its flaring capacity.

- **CH&SC § 42401:** One NOV, dated December 6, 2023 but issued in March 2024, cited California Health and Safety Code Section 42401, referring to Condition Nos. 38, 39, and 42(a) of the

Stipulated Order for Abatement. The NOV alleged that CCL failed to have monthly leachate samples analyzed using EPA Method 624.1 for the presence of volatile organic compounds and toxic air contaminants and failed to post the sample results and submit a detailed description and depiction of the sampling locations within one week of receipt from the contract laboratory as required by Condition 38 of the Stipulated Order. The NOV also alleged that CCL failed to update its Odor Mitigation webpage with information for November 2023 through January 2024 in Spanish as required by Condition 39 of the Stipulated Order and failed to notify South Coast AQMD at least two days prior to beginning excavation as required by Condition 42(a) of the Stipulated Order. CCL is discussing these alleged violations with South Coast AQMD. Documentation required by Condition 38 is posted on CCL's webpage. Pursuant to Condition 39, CCL submits all reports and information posted on CCL's website to a translation service once the reports and information are finalized. CCL then posts the translated reports and information on its Odor Mitigation website once the documents are translated. There is no deadline for these translations in Condition 39, and CCL is working diligently to ensure that all information is translated as required by the Stipulated Order. To comply with Condition 42(a), CCL is submitting weekly notifications of potential excavation projects to South Coast AQMD.

No other NOVs were issued by the SCAQMD during the 2023 Reporting Period.

7.2 LACDRP NOV – Explanation and Corrective Actions

On August 18, 2023, LACDRP issued CCL an NOV for violations of CUP Condition Nos. 12 and 63 as a result of the NOVs issued by the SCAQMD between May 17 and August 16, 2023. Corrective actions for the odor NOVs issued by SCAQMD are described in Section 13, *Odor Control and Mitigation.*

7.3 LEA NOVs – Explanation and Corrective Actions

The violations issued by the LEA in 2023 are summarized below. Corrective actions related to all violations follow.

- On July 31, 2023, CCL received a Site Inspection Report dated June 29, 2023, from the LEA that noted violations for gas concentrations exceeding 5% by volume in air at the site's perimeter boundary.
- On October 2, 2023, CCL received a Site Inspection Report dated September 1, 2023, from the LEA that noted violations for gas concentrations exceeding 5% by volume in air at the site's perimeter boundary.
- On October 24, 2023, CCL received a Site Inspection Report dated September 19, 2023, from the LEA that noted violations for methane gas concentrations exceeding 5% by volume at two monitoring wells and observed leachate seeps in the upper northwest and west areas of the landfill.
- On November 14, 2023, CCL received a Site Inspection Report dated October 25, 2023, from the LEA that noted violations related to subsurface methane exceedance and leachate seepage.
- On January 8, 2024, CCL received a site inspection report related to a November 28, 2023, inspection that noted violations for methane gas concentrations above 5% at one monitoring well, observed leachate seeps on top of the scrim, and a failure to keep all aspects of the site in a state of reasonable repair.
- On January 25, 2024, CCL received a site inspection report related to a December 19, 2023, inspection that noted violations for methane gas concentrations above 5% at two monitoring wells and required Chiquita to keep the site in a state of reasonable repair.

With respect to the alleged violations concerning the methane exceedances, CCL submitted revised 60-day remediation plans for the wells in exceedance and continued providing weekly monitoring reports for these two wells. The methane exceedances were due to the increased production of landfill gas caused by the landfill reaction. When CCL was unable to collect all of the gas produced, it either moved up as surface emissions, or it moved laterally as subsurface migration. To address the methane exceedances, CCL is installing new wells in the area, tuning the new and existing wells, and improving vacuum reliability for the soil vapor extraction wells by installing a new vacuum line connected to one of the portable thermal oxidizers.

Corrective actions to address the leachate seeps are described in detail in Section 7.4 below. Upon observation of the seepage, CCL placed check dams in the concrete-lined stormwater channels to contain any liquids. Vacuum trucks pumped out liquids that accumulated on the surface or in the channel, transported them to onsite leachate tanks, and transported them offsite for disposal. CCL also continued repairs to the western slope of the landfill, including the installation of a vertical bank and trench to help capture and intercept liquid coming out of the western slope. The purpose of this work was to route any leachate to the landfill's leachate collection system. CCL also continued installing additional vertical gas extraction wells and dewatering pumps. In addition, to address potential seepage during heavy rainfall, CCL placed a berm at the base of the western slope to assist with directing rainwater off the scrim. CCL also installed additional scrim on top of the berm.

7.4 LARWQCB NOV – Explanation and Corrective Actions

On November 22, 2023, CCL received an NOV from the LARWQCB for alleged violations of section F.6 of CCL's Waste Discharge Requirements (WDRs), Order No. R4-2018-0172, and section B.3.a of CCL's Monitoring and Reporting Program (MRP).

As required by section F.6 of the WDRs, CCL has protected and continuously maintained its leachate and landfill gas condensate containment systems. There was no breakdown or failure of the existing leachate containment structures, and the cover and liner were designed in accordance with applicable state and local regulations. Further, there was no commingling of leachate and condensate with surface water. The landfill has been experiencing an unusually large increase in leachate production for its geographical location, which the landfill was not designed to handle, nor required to be designed to handle.

To address the seepage that reached the western and northern concrete-lined stormwater channels, CCL placed check dams in the channels to contain any leachate that reached the channels. If leachate reached the channels, vacuum trucks pumped the liquids out of the channels and transported the liquids to onsite tanks. No leachate reached the landfill's onsite stormwater retention pond.

For any leachate on the surface of the landfill, CCL promptly scraped as much stained dirt as possible and recovered the surface with clean dirt. For any leachate that reached the perimeter road, CCL removed any dirt that showed staining and disposed of the dirt at the landfill's working face.

To address the seep on the western slope of the reaction area, CCL conducted construction and repair work to reconstruct the slope and redirect leachate seepage so that it remained fully on the lined area of the landfill and flowed into a new sump area for prompt collection and offsite disposal. After completing this work, CCL covered the lower portion of the western slope with scrim. This scrim will remain in place until the geosynthetic cover required by the Stipulated Order for Abatement with the SCAQMD in Case No. 6177-4 is installed.

To assist in preventing leachate and stormwater from mixing, CCL raised the perimeter road by three feet in the new sump area. CCL also installed a stormwater control berm along the top of the scrim to direct stormwater around the scrim instead of allowing it to sheet flow over the scrim.

To address the seep on the northern slope of the reaction area, CCL installed two sumps and additional horizontal drainage. Leachate was pumped from the sumps to tanks located on the northern slope. The northern slope also had a stormwater diversion berm that diverted any stormwater away from the area with leachate seeps to prevent commingling.

Pursuant to the South Coast AQMD Stipulated Order for Abatement, CCL also began inspecting for leachate seeps on a twice daily basis.

7.5 DTSC SOV – Explanation and Corrective Actions

On February 15, 2024, CCL received an SOV from DTSC related to a December 12, 2023, inspection and December 27, 2023, shipment of leachate that alleges violations of the California hazardous waste control laws and their implementing regulations. CCL is in the process of implementing the compliance requirements listed in the SOV, which are described in more detail in its March 15, 2024, response. This response letter is posted on CCL's Odor Mitigation webpage: https://chiquitacanyon.com/reports/odor-mitigation/.

SECTION 8

Landfill Revegetation

Required content from IMP Part XII	A report on all interim and final fill revegetation, including an assessment of the success of such revegetation and any additional measures necessary or proposed to effect successful revegetation.

During the 2023 Reporting Period, there were no areas of the landfill that required interim or final fill revegetation. See Appendix F for the compliance status of the mitigation measures contained in the MMRP, including those that address revegetation.

SECTION 9

Archaeological and Paleontological Reports

Required content from IMP Part XII	The archaeological and paleontological reports required in Part IX.

During the 2023 Reporting Period, archaeological and paleontological monitoring was required for construction associated with the Cell 8 Construction Project at CCL; this project is described in detail in the archaeological and paleontological reports provided in Appendix D.

SECTION 10

Alternative Technologies

Required content from IMP Part XII	A summary of the measures taken by the Permittee to promote and implement alternative technologies most appropriate for Southern California from an environmental and economic perspective, as required by Condition No. 119 and 126 of the Grant.

CCL's parent company, Waste Connections, Inc., has partnered with Hitachi Zosen Inova AG, based in Zurich, Switzerland, to develop a 33,000-ton-per-year dry anaerobic digestion plant at a Waste Connections, Inc. facility in San Luis Obispo, California. The technology being used is known as Kompogas. The Kompogas facility is anticipated to produce 2,907,000 cubic meters of biogas each year, which will power a gas engine and generate electricity for up to 600 homes. The technology, conducted in a fully-enclosed facility, also produces a compost residue.

Waste Connections, Inc. is hosting the Kompogas facility and has committed green waste and food waste to the operation. The Waste Connections, Inc. facility in San Luis Obispo is the first U.S. facility using this particular technology. If proven successful, this technology could be replicated in other areas, including Southern California. The Kompogas Plant opened on November 15, 2018.

Waste Connections, Inc. also has a development agreement with Fulcrum BioEnergy to provide secured access to municipal solid waste (MSW) in 15 geographic areas across North America. Most recently, Waste Connections, Inc. entered into a 20-year MSW feedstock agreement to be the primary supplier of feedstock for Fulcrum BioEnergy's Sierra Biorefinery east of Reno, Nevada. Once completed, the Sierra Biorefinery is expected to process approximately 175,000 tons of MSW annually, creating 10.5 million gallons per year of renewable synthetic crude oil that will be further processed into transportation fuel. The Biorefinery began operation in 2020.

On July 27, 2018, CCL submitted a Proposal for Conversion Technology Facility at Chiquita Canyon Landfill for review and approval by LACPW in consultation with the Director of Regional Planning. LACPW provided comments on the proposal on October 4, 2018; after discussions between CCL and LACPW, CCL resubmitted a revised proposal on February 8, 2019. On November 7, 2019, LACPW provided comments on the February 8, 2019 proposal, where they clearly stated that they do not consider anaerobic digestion to be an allowable conversion technology at Chiquita Canyon Landfill. CCL is currently evaluating available options for implementing alternative technologies at the Facility.

Condition No. 119 directs CCL to contribute $200,000 annually, for the first 15 years under CUP 2004-00042, to an alternative technology development fund. This fund is to be used to research, promote, and develop the alternative technologies that are most appropriate for Southern California from an environmental and economic perspective. Payment to this alternative technology development fund was made by CCL, per the terms of Condition No. 119. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled Chiquita Canyon, LLC v. Los Angeles County, et al., Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.

Condition No. 126 does not directly or indirectly address the promotion or implementation of alternative technologies to waste disposal. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled Chiquita Canyon, LLC v. Los Angeles County, et al., Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.

Additionally, one half of the payments that CCL is directed to make under Condition No. 117 are deposited into an Alternative-to-Landfilling Technology Account, created and maintained by the Department of Public Works to fund research and activities that promote the development of Conversion Technology facilities that benefit the County. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled Chiquita Canyon, LLC v. Los Angeles County, et al., Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.

SECTION 11

Transportation Improvements

Required content from IMP Part XII	A summary of the measures taken by the Permittee to maintain roads and to develop transportation improvements in the surrounding areas of the Facility, as required by Condition No. 79 and 121 of the Grant.

Measures taken by CCL during the 2023 Reporting Period to develop transportation improvements surrounding the Facility include the following:

Table 8. Transportation Improvements
2023 Annual Compliance Report for Chiquita Canyon Landfill

Date	Action
CCL Submitted the Following	
January 16, 2023	Plan Check #1 - Private U/G Sewer & Water Mains to Building & Safety
January 17, 2023	Plan Check #1 – Fire Hydrant Exhibit to Fire Dept.
January 17, 2023	Plan Check #3 – Retaining Walls (Soil Nail) to Building & Safety
February 20, 2023	Plan Check #4 – Soil Nail Wall to Building & Safety
February 21, 2023	Plan Check #1 – Off-site Water Main & Public Fire Hydrant Bond to Fire
March 06, 2023	Plan Check #8 – Grading Plans
March 9, 2023	Plan Check #6 – Signing & Striping Plans
March 10, 2023	Plan Check#1 – Private U/G Fire Protection Plans and Hydraulic Report to Fire Dept.
March 18, 2023	Plan Check #1 – Caltrans Approved Traffic Signal Plans to PW
April 20, 2023	Plan Check#1 – Industrial Waste Discharge Plans and Application to EPD
April 23, 2023	Plan Check #1 – Caltrans Approved Traffic Signal Plans to PW
May 2, 2023	Plan Check #1 – Submit Expired Signing & Striping Plans to PW
May 2, 2023	Plan Check#2 – Caltrans Approved Traffic Signal Plans to PW
May 15, 2023	Plan Check #1 – Encroachment Permit for LID, Drainage, Grading to Caltrans
May 24, 2023	Plan Check #2 – Encroachment Permit for LID, Drainage, Grading to Caltrans
May 26, 2023	Plan Check #3 – Encroachment Permit for LID, Drainage, Grading to Caltrans
July 7, 2023	Plan Check #4 – Encroachment Permit for LID, Drainage, Grading to Caltrans
July 16, 2023	Plan Check #3 – Caltrans Approved Traffic Signal to PW
July 31, 2023	Plan Check #5 – Encroachment Permit for LID, Drainage, Grading to Caltrans
August 14, 2023	Plan Check #2 – Private U/G Sewer & Water Mains to Building & Safety
October 3, 2023	Plan Check #2 – Submit Expired Signing & Striping Plans to PW
CCL Received the Following	
January 9, 2023	Plan Check #1 –DPH comments on Septic System Study Comments
January 30, 2023	* Street Light Annexation Completed
February 2, 2023	Plan Check #1 – Landscape Efficiency Review
February 10. 2023	Plan Check #1 – Private Sewer & Water Comments
February 15, 2023	* Received Encroachment Permit from Caltrans for Traffic Signal
February 16, 2023	* Received Approval of Fuel Mod Plan by Fire Dept.
March 1, 2023	Plan Check #1 – Retaining Walls GMED comments
March 7, 2023	Plan Check #3 – Signing & Striping Plan Comments
March 13, 2023	* Received Approval of Private U/G Fire Protection System Fire
March 13, 2023	* Received Approval of U/G Sewer and Water mains
March 30, 2023	* Recorded Road Easement for Wolcott Way
April 10, 2023	Plan Check #7 – Grading Plan comments
April 26, 2023	Plan Check #4 – Signing & Striping Plan Comments
April 27, 2023	* Received Landscape Efficiency Approval
May 3, 2023	Plan Check #4 – Street Light Plan Comments

May 31, 2023	* Received Flood Control Permit
June 6, 2023	Plan Check #1 – Caltrans Comments on Encroachment Permit Plans for LID, etc.
July 27, 2023	Plan Check #2 – Caltrans Comments on Encroachment Permit Plans for LID, etc.
August 10, 2023	Plan Check #5 – Signing & Striping Comments
August 29, 2023	* Received Caltrans Encroachment Permit for LID, Grading, etc.
September 18, 2023	Plan Check #8 – Grading Plan Comments

SECTION 12

Traffic Minimization

Required content from IMP Part XII	A summary of the measures taken by the Permittee to minimize truck traffic at the Facility as required by Condition Nos. 47, 75-81 of the Grant.

CCL submitted an Unnecessary Truck Trip and Queuing Minimization Plan to LACPW for review and approval on October 12, 2017, and again on December 14, 2017, in response to comments.

On March 5, 2018, LACPW provided additional comments, to which CCL requested clarification on March 23, 2018. CCL coordinated with LACPW in 2019 on revisions to the *Unnecessary Truck Trip and Queuing Minimization Plan*, which was resubmitted to LACPW on July 10, 2019, and again on September 17, 2019. LACPW approved the *Unnecessary Truck Trip and Queuing Minimization Plan* on April 13, 2021, and it is currently being implemented at CCL.

The plan was prepared consistent with CUP Condition Nos. 47 and 75 through 81 and addresses CCL's queuing minimization approach at both the current and future landfill entrance. The plan also addresses additional strategies for minimizing truck trips, including scheduling regular facility users, reserving landfill capacity for small users, and discouraging customers from delivering loads of less than one ton.

SECTION 13

Odor Control and Mitigation

Required content from IMP Part XII	A summary of the measures taken by the Permittee to control and mitigate odor nuisance generated by the Facility, including measures taken to mitigate odor generated from incoming waste hauling trucks/customers, working face areas, and landfill gas.

Odor Reduction Measure 1 included in the MMRP requires CCL to prepare an Odor Impact Minimization Plan (OIMP) for landfill operation. The OIMP is required to be prepared for approval by LACPW, LADRP, SCAQMD, and the Local Enforcement Agency (LEA), which is the Los Angeles County Department of Public Health (LADPH). In addition, CUP Condition No. 74 also requires the preparation of an OIMP according to the MMRP; the same OIMP is sufficient to fulfill the requirements of both Odor Reduction Measure 1 and Condition No. 74.

The OIMP discusses potential sources of odors, odor control measures for solid waste operations, and an odor complaint response. Potential sources of odors associated with landfill operation include aerobic (in air) decomposition of organic waste materials before being covered with soil (the exposed waste at the working face), anaerobic (without air) bacterial digestion of buried waste resulting in landfill gas (LFG), leachate, and LFG condensate. Odor control measures for solid waste operations include load screening, odorous waste load procedures (including rejecting odorous loads), non-odorous waste load procedures, LFG collection, and leachate and LFG condensate collection and disposal.

The OIMP was submitted for review and approval to LACPW and LADRP on October 25, 2017, to the LEA and SCAQMD on November 21, 2017, and to SCAQMD again on November 28, 2017. Comments on the OIMP were received from LADRP on October 26, 2017, and from LACPW on October 3, 2018. No comments were received from the LEA or SCAQMD. The LEA did not comment as the OIMP for landfill operation is not a requirement of the LEA for disposal sites. CCL submitted a revised OIMP to LADRP and LACPW on February 1, 2019. The OIMP was approved by LACPW on March 6, 2019.

The odor complaint response protocol for CCL includes gathering information regarding odor complaints via the CCL hotline, calls made directly to CCL, and feedback from SCAQMD's inspector. Where available, CCL collects the following information regarding the complaint: location; date and time; weather conditions, including wind speed and direction; odor duration; odor characteristics; and odor intensity.

When an odor complaint is received, CCL staff investigate the complaint as soon as possible during operating hours, but at maximum within three business hours. If the odor is attributable to landfill operation, measures to address the odor are implemented. Odor complaints outside the landfill have potential to originate from numerous sources; therefore, in an effort to best mitigate and avoid odors originating from the landfill, each time CCL is notified of an alleged odor complaint, CCL staff quickly evaluate the landfill operations that have potential to result in odor, including exposed waste at the working face, LFG from the collection and control system, leachate, and LFG condensate. CCL makes operational and programmatic adjustments to address potential odors.

As discussed in Section 7.1, the SCAQMD issued 106 NOVs related to odor during the 2023 Reporting Period.

SCAQMD Stipulated Order for Abatement

During the 2023 Reporting Period, NOVs issued by the SCAQMD culminated in a Stipulated Order for Abatement (SOFA), which was jointly proposed by the SCAQMD and CCL and adopted by the SCAQMD Hearing Board on September 6, 2023. CCL initiated the required reporting on September 7, 2023, and this Annual Compliance Report for the 2023 Reporting Period includes SOFA-required reporting through

December 31, 2023. The SOFA was in effect for the 2023 Reporting Period between September 7 and December 31, 2023.

Logs and reports required by the SOFA were submitted by CCL to the SCAQMD on a monthly basis by the third Monday of each month for the preceding month and were posted on CCL's Odor Mitigation website at https://chiquitacanyon.com/reports/odor-mitigation/. The monthly reports to the SCAQMD are provided in their entirety in Appendix E of this 2023 Annual Compliance Report, and include the following information for the time period when the SOFA was in effect:

- Landfill gas sulfur compound measurements and laboratory analyses;
- Flow of landfill gas combusted and not flared;
- Integrated landfill surface sample analysis and landfill surface monitoring readings;
- Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System;
- Description of any problems or delays in the replenishment or replacement of spent granular activate carbon media in the Landfill Gas Treatment System;
- Specifications of the equipment and materials used for weekly colorimetric tests;
- Wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas;
- Map of each landfill gas well with temperature exceedances;
- Vertical liquid impacted landfill gas wells;
- Updates on the investigation into the availability, viability, and utilization of an alternative sulfur compound treatment system to control, treat, or remove dimethyl sulfide and other sulfur compounds;
- Summary of SCS Engineers' implemented improvements to the landfill gas collection system;
- Landfill cover inspection log;
- Subsequent additions to the landfill gas collection system;
- Subsequent additions to the landfill gas condensate or leachate collection system, or other dewatering work performed pursuant to the dewatering plans; and
- Updates on the procurement and installation of a geosynthetic cover.

Implementation of the September 2023 SOFA continued throughout the remainder of the 2023 Reporting Period. Below are updates on SOFA implementation that were completed during the 2023 Reporting Period:

- Installed and began operating a new permanent flare (Flare 3)
- Installed and began operating a second portable thermal oxidizer
- Installed new vertical landfill gas wells and pumps in vertical wells
- Submitted the design and installation schedule of the wellfield expansion plan
- Submitted the protocol for an additional flux chamber study to South Coast AQMD
- Submitted a report on the cause(s) of the landfill reaction and solutions to slow and stop the reaction to South Coast AQMD
- Submitted dewatering guidelines to South Coast AQMD

- Submitted a report on air dispersion modeling and a study to determine odor and emission transport of odors from the Landfill to South Coast AQMD
- Submitted a report on the feasibility and availability of a continuous community emission monitoring system for DMS to South Coast AQMD
- Submitted a report on landfill best management practices and alternative methods to minimize the release of fugitive surface gas and related odors to South Coast AQMD
- Submitted the findings of the initial flux chamber study to South Coast AQMD
- Although not required by the Stipulated Order, Chiquita has acquired a second portable thermal oxidizer, which is installed and operational
- Installed an onsite meteorological station in the Reaction Area
- Submitted an application for a fourth permanent flare
- Formed the Reaction Committee and submitted CVs/resumes to South Coast AQMD
- Submitted a permit application to continue expanding the landfill gas collection and control system and the leachate collection/storage system
- Installed a Semi-Permanent Vapor Odor Control system and a landfill perimeter odor control misting system
- Submitted the completed design for the geosynthetic cover to South Coast AQMD

In addition, Chiquita is implementing the following ongoing tasks for SOFA compliance:

- Conduct odor surveillance twice each operating day, once in the morning and once at night
- Sample and analyze the sulfur compounds in the landfill gas weekly
- Conduct surface sampling across the Reaction Area every two weeks
- Submit monthly reports to the South Coast AQMD containing information and data collected under the Stipulated Order as well as updates on the implementation of the longer-term improvement projects to the landfill gas and liquids collection and control systems, landfill cover, and more
- Work with a team of subject matter experts to study various aspects of the reaction and its impacts, potential causes of the reaction, and potential ways to mitigate the reaction and any related odors
- Expand the landfill gas and liquids collection and control systems
- Maintain proper landfill cover
- Procure and install a geosynthetic cover over western and northern portions and the top deck of the Reaction Area
- Maintain the Semi-Permanent Vapor Odor Control and landfill perimeter odor control misting systems

CalRecycle-Recommended Mitigation Measures

On October 17, 2023, CCL received a letter from the LEA regarding an October 16, 2023 letter from the California Department of Resources Recycling and Recovery (CalRecycle) on the odor issues at the landfill. CalRecycle's letter contained recommended mitigation measures, as listed below, many of which were either the same as or similar to the mitigation measures required by the Stipulated Order. In addition to the recommendations required by the Stipulated Order, which CCL had already begun

implementing, CCL committed to implementing the additional mitigation measures recommended by CalRecycle and began implementing some of the remaining measures.

1. Repair cracks in the soil cover within 48 hours in and around the Reaction Settlement Area and any well showing signs of a reaction (already implemented and ongoing).
2. Place and compact a minimum cover of 24 inches of 1 x10-6 low permeability soil in and around the Reaction Settlement Area and a radius of 30 feet of soil around any well with temperatures over 160ºF or CO concentrations over 1,500 ppmv (CCL is installing a geomembrane cover over this area in lieu of the lower permeability soil).
3. Install well boots seals on all wells in and adjacent to the Reaction Settlement Area and any wells with temperatures over 160ºF or CO concentrations over 1,500 ppmv (installation has begun and is ongoing).
4. Replace all PVC wells that have been damaged, blocked, pinched, or that have gas temperatures over 145°F with steel wells (already implemented and ongoing).
5. Install additional steel wells in the Reaction Settlement Area and other areas where the gas extraction temperature exceeds 170°F to capture the additional gas generated by the incident (already implemented and ongoing).
6. Once additional gas extraction capacity is installed, remove all oxygen HOVs for interior gas wells and operate gas extraction wells with less than 3 percent oxygen where feasible. Use best management practices to keep oxygen below 5 percent in an interior well (will implement one month following installation of the geomembrane cover as agreed upon with LEA).
7. Measure the leachate temperate at the liner level and all sumps (began in November 2023 and is ongoing).
8. Sample the leachate for benzene and other volatile organic compounds. Past incidents similar to Chiquita Canyon in Bridgeton and Bristol have shown that heating event increases the levels of VOCs in the leachate (began in Q4 2023 and is ongoing).
9. Install temperature monitoring devices in and around the Reaction Settlement Area and other areas where gas temperatures exceed 170°F or CO over 1000 ppm. These devices should be installed within 25 ft. of a vertical LFG extraction well. These temperature devices should be able to sustain temperatures up to 750°F and be installed in boreholes up to 150 feet deep. The temperature devices should be spaced at 20-foot intervals and based on previous designs from SCS Engineering projects in Bridgton, San Diego, and Bristol. Since the temperature profiles were not successfully collected at the required enhanced gas wells C- 55R, CV-1418, CV-1419, CV-1532, CV-2202, CV-2204, H-1561C, H-1561N, below-ground temperature devices should be first installed at these wells (after further discussion with the LEA, CCL has since installed and began operating 20 temperature monitoring probes in and around the reaction area).
10. The landfill owner should review available internal manifests or other documents as far back as possible to ensure no reactive material was accepted at this landfill (completed and submitted to SCAQMD as part of an expert report on Dec 8, 2023).
11. The landfill owner should hire an odor expert to determine which chemicals are causing the odor. A past expert at Bridgeton Landfill in Missouri identified a set of chemicals causing the greatest odor. Once the chemicals are identified, additional toxicological assessment can be performed (already implemented and ongoing).
12. Design and install a temporary geomembrane cover over the Reaction Settlement Area and other areas where gas temperatures have exceeded 170°F or CO over 1000 ppm once additional gas extraction capacity is operational (installation has begun and is ongoing).

13. Consider installing remote telemetry technology to continuously collect and analyze landfill gas data at the collection wells. The real-time data and control platform can instantaneously measure and report wellhead temperatures, pressures, O2, CO, and methane concentrations. Remote access to the real-time data should be provided to regulatory agencies, i.e., SCAQMD (CCL has since been working with SCAQMD to implement a similar remote monitoring system).
14. Consider utilizing a drone or land rover equipment with GPS, methane, and gas sensors to conduct daily instantaneous surface monitoring and provide real-time data throughout the Reaction Settlement Area and adjacent areas of concern. This technology can facilitate immediate operational changes, including flagging hot spots, surface cracks, and fissures (began in December 2023 and is ongoing).
15. To better understand and communicate to the community if the heating/smoldering event is expanding or increasing in intensity, the CCL should submit monthly figures and data showing the reaction area, CO level, and temperature data (already implemented and ongoing; added CO concentration data beginning in the 11/20/23 report to SCAQMD).

On November 21, 2023, CCL received a second letter from the LEA requiring CCL to implement four additional mitigation measures recommended by CalRecycle:

- MM 1A: Develop a soil reaction break/barrier plan (ongoing).
- MM 1B: Install temperature monitoring probes to obtain necessary data (completed).
- MM 2A: Place and compact a minimum of 24 inches of low permeability soil in and around the reaction settlement area and any well showing signs of reaction (per subsequent discussions and correspondence with the LEA, CCL is installing a 30-mil geomembrane cover over this area in lieu of the low permeability soil).
- MM 2B: Develop a written plan that includes documentation and tracking of fissures, settlement, and tension cracks in the soil cover (completed).
- MM 3: Submit a workplan to perform a slope stability analysis for LEA review (completed).
- MM 4: Use the temperatures collected (MM 1B) to ensure manufacturer maximum temperature design specifications are met, such as for the French drain (ongoing).

SECTION 14

Landfill Gas Collection and Management

Required content from IMP Part XII	A summary of the measures taken by the Permittee to ensure effectiveness and adequacy of its Landfill gas collection and management system, and to utilize Landfill gas to generate energy at the Facility as required by Condition No. 64 of the Grant.

The management of methane and LFG at CCL is conducted in accordance with strategies for reducing greenhouse gas (GHG) emissions. Such strategies exist at the state and local levels, including the following three, which are applicable to CCL operations:

- SCAQMD Rule 1150.1 requirements for control of LFG emissions
- U.S. Environmental Protection Agency (USEPA) *New Source Performance Standards/Emission Guidelines*
- Landfill Methane Capture regulations

To comply with these programs and rules, CCL installed and currently operates an LFG collection and control system that is considered to be state of the art and minimizes the pressure gradients to prevent gas migration through the cover soil and underlying soils. In accordance with SCAQMD Rules and USEPA regulations, CCL has a site-specific Rule 1150.1 Compliance Plan, and a Title V permit issued by SCAQMD. The Rule 1150.1 Compliance Plan requires CCL to evaluate the performance of the LFG collection and control system by monitoring monthly for the emission or migration of LFG from the landfill. Other parts of the Title V permit place performance standards and testing requirements on the LFG flare. LFG sampling is also required to evaluate the quality and components of the LFG being generated.

All landfill areas are monitored regularly to detect onsite LFG surface emissions or subsurface migration of LFG. The Chiquita Canyon Landfill Rule 1150.1 Quarterly Monitoring Reports for 2023 are posted on CCL's website at www.chiquitacanyon.com/environmental-safety/landfill-reports/.

In the waste management sector, most regulatory development for the reduction of GHG emissions are related to reducing the amount of waste that reaches landfills for disposal, including by reducing waste generation at the source, and removing recyclable and organic materials from the landfill-bound stream. As such, regulatory development targets activities that occur outside the landfill, and do not directly target CCL operations within the landfill property. Regulations implementing the three GHG reduction strategies mentioned above are therefore limited at CCL. However, CCL operations include activities designed to contribute to the reduction of GHG emissions, including composting, alternative energy projects, and use of alternative fuels. These efforts are documented through compliance with Mitigation Measure (MM) GHG-1, from the Final EIR for the CCL Master Plan Update.

MM GHG-1 requires that every five years, CCL evaluate the GHG emissions from landfill operations, and the LFG collection and management system, in comparison to the current state and county reduction plans for such emissions. To demonstrate compliance with MM GHG-1, CCL must prepare a "GHG Reduction Program Report Update" that documents the evaluation methodology and results and submit that report to LADRP for review and comment. On December 30, 2020, CCL submitted the first of these 5-year reports to LADRP. On February 10, 2021, LADRP received a letter from LACPW with comments and requested revisions to the report. CCL updated the report to include edits responsive to LACPW's comments, resolution of outstanding requests for clarification or further information, and other minor revisions for accuracy. On April 12, 2021, CCL submitted the updated report to LADRP, which it approved as being in compliance with MM GHG-1.

Table 9 shows the LFG collection efficiency at CCL for the previous six years. Landfill gas collection efficiency is the ratio of the actual LFG collection flow to the model-predicted LFG generation flow. The

Standard Business as Usual (BAU) threshold for LFG collection efficiency is 75%; as indicated in Table 9, CCL's documented efficiency rate for LFG capture remains above the Standard BAU.

Table 9. Landfill Gas Collection Efficiency, 2018 - 2023
2023 Annual Compliance Report for Chiquita Canyon Landfill

Year	Collection Efficiency
2023	82%
2022	88.1%
2021	92.7%
2020	104.4%*
2019	91.4%
2018	93%

*To determine LFG collection efficiency, the quantity of LFG collected is compared to the quantity of LFG predicted to be generated by the generation model (LandGEM). At times, the quantity of LFG collected exceeds the predicted generation quantity. As a result, as occurred in 2020, the collection efficiency exceeds 100%.

During the 2023 Reporting Period, CCL installed the following additions to the LFG collection and control system:

- 104 new wells (62 vertical and 42 horizontal)
- 11,644 linear feet of new collector perforated pipe
- 12,000 feet of new header/lateral pipe
- A new 6,000 standard cubic feet per minute (SCFM) Low NOx Flare

In total, approximately 23,644 feet of pipe was added to the LFG collection and control system, along with the 104 new wells. In addition, CCL also has an existing 9.2-megawatt LFG to energy (LFGTE) plant operated by Ameresco Chiquita Energy LLC and permitted by Los Angeles County. The LFGTE plant uses LFG extracted from the existing LFG collection system and converts it into energy using LFG-fueled gas turbines. Energy from the LFGTE plant, enough to power approximately 10,000 homes per year, is delivered to the local electrical grid. The LFGTE plant is centrally located on the site, in the vicinity of the existing LFG flare and blower. Landfill gas generated at CCL is directed first to the LFGTE plant; excess gas beyond that needed for the LFGTE plant is combusted in an LFG flare.

SECTION 15

Compliance Status Summary

Required content from IMP Part XII	A summary table of compliance status showing the status of compliance of each condition of approval, this IMP and MMRP. The table shall be in a format specified by the Director of Public Works in consultation with the TAC.

Appendix F includes summary tables of compliance status:

- Table F1 is a summary table of compliance with the conditions of approval for CUP No. 2004-00042 and Oak Tree Permit No. 2015-00007.
- Table F2 is a summary table of compliance with the IMP associated with CUP No. 2004-00042.
- Table F3 is a summary table of compliance with additional conditions of approval included with CUP No. 2004-00042.
- Table F4 is a summary table of compliance with the MMRP.

SECTION 16

References

LACPW (Los Angeles County of Public Works). 2023. Countywide Disposal Rate and Assessment of Disposal Capacity. 2022 Report. October 2023. Available: https://dpw.lacounty.gov/epd/swims/ShowDoc.aspx?id=17633&hp=yes&type=PDF. Accessed March 18, 2024.

_____. 2014. Roadmap to a Sustainable Waste Management Future. Available: https://pw.lacounty.gov/epd/Roadmap/PDF/Roadmap_Appendices.pdf. Accessed February 15, 2021.

Appendix A
Fill Sequence Plan

CHIQUITA CANYON
A Waste Connections Company

January 12, 2022

Via E-Mail
Martins Aiyetiwa, P.E.
Senior Civil Engineer, Environmental Programs Division
Los Angeles County Department of Public Works
900 South Fremont Ave.
Alhambra, CA 91803-1331
maiyet@dpw.lacounty.gov

Re: Chiquita Canyon Landfill Response to DPW's September 14, 2021 Fill Sequencing Plan Comments.

Dear Martins:

Thank you for your response to our June 17, 2021 Fill Sequencing Plan submittal. Chiquita Canyon, LLC ("Chiquita") has the following responses to your review letter dated September 14, 2021. Your comments are shown in *italicized* and our responses follow each comment.

Comment #1

- *Table 2 – Diminishing Landfill Capacity Phase Construction (sheet no. 6), Enclosure 1 - Column 11 (Landfill Unit) shows the Landfill operates in Cell 8A in 2021. However, Cell 8A has not yet been approved. Please review and revise table and any other tables and figures that may be affected.*

Response

In order to accommodate the County's request, Geo-Logic Associates has revised the fill drawings in the project set, which are provided with this response in Attachment A. Following this revision, the airspace for each unit was recalculated so that the tables could be updated. Other revisions of note are:

- The Cell 6 fill plan was changed to add setback area fills on the south side and sliver filling on the east and north side of the C Canyon mound, which was a change implemented in the fill operations by the site operator.

- Changes to the Cell 6 fill plan necessitated changes to the fill plans for Cells 7, 8A, 8B, 9, 11 and 12. The revised fill plans required the recalculation of gross airspace volumes which are now reflected in the revised plan set and Tables 2, B-1 and B-2.
- The proposed liner sections for future liner cells have been reviewed and approved by the Los Angeles Regional Water Quality Control Board (RWQCB), affecting liners 8A, 8B, 7, and 9 through 12. The revised liner sections are identified on the plan detail sheet and net airspace volumes have been adjusted accordingly on Tables 2, B-1 and B-2. There is no effect to final grades, grading limits, inbound tonnage or permit termination date due to these approved changes to the liner section.
- Table 2 is updated to show years of both earthwork construction and liner construction as many of the projects are multi-year. It is assumed in all cases that the finished liner is approved in January following the liner construction year. DPW should take note that Cell 8A is now behind schedule for construction start in 2022 as Chiquita awaits grading approval.

As stated in the accompanying resubmittal in Section 3.0 "Remaining Capacity," the occupation of a particular unit will be based on market conditions, inbound tonnage and operational efficiency. As an operational preference, the landfill operator will conduct liner construction for the next cell approximately 12-24 months prior to the date that capacity is reached in the prior cell as shown on Table 1.

Chiquita believes the intent of the sequencing is clearly presented and encourages Environmental Programs Division to swiftly approve our submittal for the Cell 8 liner construction. The site is nearing completion of filling the remaining currently constructed liner capacity. We have received all other regulatory approvals for the Cell 8 Liner including CalEPA, California Natural Resources Agency, and the US Army Corps of Engineers. Chiquita is hopeful to receive this approval soon to avoid any work stoppage, which could result in the temporary inability to receive waste, limiting the disposal options to the citizens of Los Angeles County.

Comment #2

- *All drawings should have clearly labeled grading limit and limit of refuse throughout. The grading on the sequencing plan should stay within the approved grading limit as shown on the Exhibit A, dated August 21, 2017. See Enclosure 2 for examples of discrepancies between the approved grading limit on the Exhibit A (left diagram) and the grading limit on the submitted Fill Sequencing plans (right diagram). Please review and revise the plans accordingly.*

Response

For clarity, we note that the limits of grading on Exhibit A are identified by a thin green line (the "Limit of Disturbance Area") which is far to the west and away from the grading identified by the Fill Sequencing Plan shown in Enclosure 2. DPW appears to be referring in this comment to the "Limit of Landfill" in Exhibit A, which is the same as the liner limit, and is denominated by spaced squares. The grading shown on the current plans for Cell 8 (currently under review by EPD) clearly indicate that the grading proposed is within the "Limit of Disturbance Area" in

Exhibit A. These fill sequence plans are based on Exhibit A, which is drawn at a site-wide scale. Due to this "high altitude view," we believe there will always appear to be some minor discrepancies between the grading proposed and the Limit of Landfill, but such anticipated grading will always be within the Limit of Disturbance Area. Chiquita will work with DPW to address any grading outside the Limit of Landfill on Exhibit A when such plans are being evaluated, but specific grading plans are not the purpose of the Fill Sequencing Plans.

Comment #3

- *Please ensure all pertinent plans are stamped and signed by a Registered Civil Engineer.*

Response

The Engineer will typically stamp the drawings once the review process is complete. As we now believe the package is complete, the plans are now stamped in PDF format.

Comment #4

- *See comments from the Geotechnical and Materials Division (GMED) in Enclosure 3.*

GMED General Comments (bullets 1-4):

1. **Response**: The geotechnical consultant R.T. Frankian & Associates has reviewed the revised plans and submits a letter concurrent with this submittal.

GMED Fill Sequencing and Liner Plans Comments.

1. **Response to Comments on Drawings 01 and 03**: Grading permits have not been issued for this work and so cannot be referenced on these plans. Therefore no changes have been made.
2. **Response to Comments on Drawings 12, 14, and 16**: All stockpile areas shown on the drawings have been removed from this submittal as this information is not appropriate to the fill sequencing and liner development. Any stockpile activity will be addressed with EPD at the appropriate stage of development of the site.
3. **Response to Comments on Drawings 17 and 18**: Detailed geotechnical designs will be submitted for Cell 11 when those projects are presented to EPD for approval of grading beyond the liner limit. No further response is provided at this time.

GMED Review Comments for referenced Geo-Logic sequencing plans dated June 2021 (all):

1. **Response**: Please refer to the letter from R.T. Frankian & Associates that accompanies this response.

Conclusion

This letter and the accompanying documents constitutes our complete response in this matter. We look forward to DPW's approval of the Fill Sequencing Plan. We believe the information as currently presented complies with the intent of the requirement to show the fill sequence plan for the site based on the current CUP.

Regards,

Steve Cassulo
District Manager
Chiquita Canyon, LLC

cc: Samuel Dea, Department of Regional Planning (*via e-mail*)

Richard Claghorn, Department of Regional Planning (*via e-mail*)

FILL SEQUENCING PLAN
FOR THE LANDFILL MASTER DEVELOPMENT PLAN
CHIQUITA CANYON LANDFILL

LOS ANGELES COUNTY, CALIFORNIA

REVISED JANUARY 2022
REVISED JULY 2021
REVISED JUNE 2020
REVISED SEPTEMBER 2019
DECEMBER 2017 (Original)

PROJECT NO. 2013.0094.100

PREPARED FOR:
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, CA 91384

SUBMITTED TO:
Los Angeles County Department of Public Works
Environmental Programs Division
900 South Fremont Avenue
Alhambra, California 91803

PREPARED BY:
Geo-Logic Associates
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Ontario, California 91761
(909) 626-2282

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Table B-1 – Waste Management Unit Capacity and Operational Life
Table B-2 – Waste Management Unit Volume Details

ATTACHMENTS

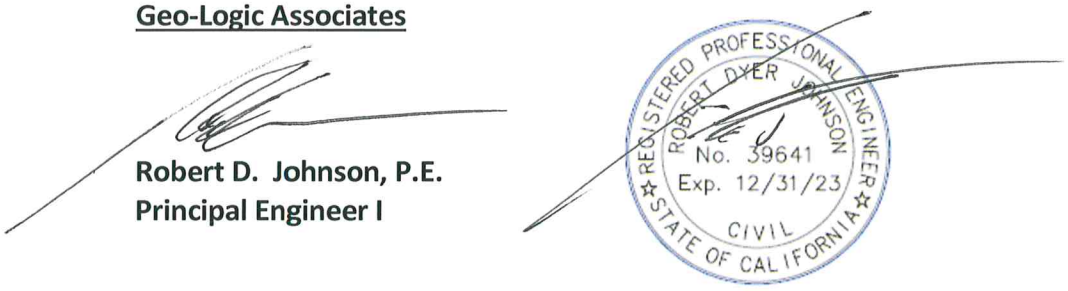
Attachment A	Fill Sequencing Drawings
Attachment B	Remaining Capacity Calculations
Attachment C	Interim Fill Stability Calculations 2020 Revision for Cell 8 2020 cross sections 2017 Stability Analysis (original submittal)
Attachment D	Response to County DPW comments dated September 2021
Attachment E	Response to County DPW comments dated July 2021
Attachment F	Response to County DPW comments 2020
Attachment G	Response to County DPW Comments 2019

CERTIFICATION

This report presenting the Fill Sequencing Plan has been prepared for the Chiquita Canyon Landfill (CCL). This report and accompanying drawings, calculations and exhibits, complies with permit conditions and regulatory requirements for the site, including:

- California Code of Regulations, Title 27 (27 CCR)
- Waste Discharge Requirements, California Regional Water Quality Control Board, Los Angeles Region, Board Order No. R4-2018-0172; adopted on December 18, 2018. Site Global ID NO. L10003464243.
- Solid Waste Facility Permit No. 19-AA-0052, Cal-Recycle, dated October 19, 2018 by Los Angeles County Department of Public Health, Solid Waste Management Program as the Local Enforcement Agency.
- County of Los Angeles Conditional Use Permit (CUP) No. 2004-00042-(5) dated July 25, 2017
- Joint Technical Document [Draft] for the Chiquita Canyon Landfill dated November 2017, Golder Associates.

Geo-Logic Associates



Robert D. Johnson, P.E.
Principal Engineer I

1.0 INTRODUCTION

This report presents the fill sequence plan envisioned for the Chiquita Canyon Landfill (CCL) to complete the final grading plan as represented in the County of Los Angeles Conditional Use Permit (CUP) Exhibit A. This report has been prepared at the request of Waste Connections, Inc. (WCI) for their submittal to Los Angeles County Department of Public Works – Environmental Programs Division.

This purpose of this report is to illustrate the future liner and fill sequence plans for the landfill under its current CUP:

- County of Los Angeles Conditional Use Permit 00-194-5 (CUP) stating an Effective Date of July 28, 2017.
- Solid Waste Facility Permit No. 19-AA-0052, Cal-Recycle, dated October 19, 2018 by Los Angeles County Department of Public Health, Solid Waste Management Program as the Local Enforcement Agency.

Starting on July 25, 2017 (the 'Approval Date,' per condition 38 of the CUP), CCL is limited on total aggregate inbound tonnage of 60 million tons and also to an operations termination date of up to 30 years following the Approval Date. The operations termination date for 30 years per the CUP is therefore July 24, 2047. The CUP conditions allows an earlier termination date should the site reach the limits of fill as shown on the approved Exhibit A for the CUP. The approved Exhibit A represents the final grading plan for the site.

Tonnage to the site will vary over the site's life. From the Effective Date through December 31, 2024 the site will be limited by CUP condition 23A to the following:

- Solid Waste shall average 6,616 tons per day, Monday through Saturday. All incoming materials for disposal and beneficial reuse shall average 8,974 tons per day. Annualized values limited by CUP condition 23E are 2,064,300 tons of Solid Waste and 735,700 tons of beneficial reuse for a total of 2,800,000 tons annual.

From January 1, 2025 through the Termination Date of July 27, 2047, inbound tonnage to the site will be limited by CUP condition 23A to the following:

- Solid Waste shall average 3,411 tons per day, Monday through Saturday. All incoming materials for disposal and beneficial reuse shall average 5,769 tons per day. Annualized values limited by CUP condition 23E are 1,064,300 tons of Solid Waste and 735,700 tons of beneficial reuse for a total of 1,800,000 tons annual.

2.0 FILL SEQUENCING

This report presents ten distinct phases of fill sequencing for the site to occur over its permit life. For clarity, a separate liner and fill plan has been prepared for each phase of fill. The following is a general description of the proposed landfill sequencing for the site:

1. Current Mound fill on existing constructed liner complex in the active area of the site;

2. Cell 6 in the South Expansion Area, south of the Current Mound and lying north of the existing maintenance facility;
3. Cell 8A in the South Expansion Area, south of Cell 6;
4. Cell 8B in the South Expansion Area, which completes liner construction in the South Expansion Area;
5. Cell 7 in the southwest quadrant of the East Expansion Area adjacent and east of the Current Mound;
6. Cell 9 in the East Expansion Area lying adjacent and north of Cell 7;
7. Cell 10 in the East expansion Area lying east of Cells 7 and 9 which completes the base floor liner in the East Expansion Area;
8. Cell 11 in the North Expansion Area lying north of the Current Mound;
9. Cell 12 in the North Expansion Area east of Cell 11 and northeast of the Current Mound;
10. Cell 13 which completes remaining slope liners in the North and East Expansion Areas.

A reduced format drawing set of 23 sheets is included as Attachment A.

3.0 REMAINING CAPACITY

As of the March 13, 2017 aerial survey, the remaining airspace for the landfill to achieve the final grading configuration for the CUP is calculated to be 63,643,669 cubic yards (CY) as shown on Table B-1. This airspace volume is inclusive of the following components:

- Compacted Refuse
- Daily and intermediate cover soil
- Beneficial Reuse materials
- Final cover

For the purposes of this report the following factors are assumed for determination of airspace consumption:

- 7 years 5 months (7.4167 years) at inbound rate of annualized 2,064,300 tons Solid Waste and 735,700 tons beneficial reuse materials;
- 22 years 7 months (22.5833 years) at inbound rate of annualized 1,064,300 tons Solid Waste and 735,700 tons beneficial reuse materials;
- Total Solid Waste over the permit period is projected to be 7.4167 years @ 2,064,300 tons plus 22.5833 years @ 1,064,300 tons or 39,345,667 total solid waste tons based on the daily average limits;
- Total beneficial reuse over the permit period is 30 years @ 735,700 tons or 22,071,000 total beneficial reuse tons based on the daily average limits;
- Total inbound tons for the permit period would then be 61,416,667 tons based on the daily average limits however overall permit tonnage is limited to 60,000,000 per Condition 38 of the CUP;
- Final cover for the final grading plan is calculated to be 2,303,961 cubic yards based on an minimum thickness of 4.0 feet nominal to the final surface as shown on Table B-1. One foot of intermediate cover is assumed already in place.

- Total effective airspace attributable to disposal as shown on Table B-1 is calculated to be the gross amount of 63,643,669 cubic yards less final cover (2,303,961 cubic yards) and remaining liner to be constructed (446,187 cubic yards) or 60,893,521 cubic yards.
- Operational target density for site life calculations therefore is 60,000,000 tons divided by 60,893,521 cubic yards of effective airspace or 0.995 tons per cubic yard or **1990 pounds per cubic yard** (PCY).

A calculation for reaching capacity for each fill sequence is included based on the foregoing assumptions. Actual achievement of airspace for a particular fill sequence will be dependent on market conditions and achieved refuse fill densities by the landfill operator.

Table 1 identifies the airspace volume for the associated fill areas. The approximate date that capacity is reached in a cell is based on the foregoing density calculated at 1973 PCY and the maximum inbound tonnage allowed under the CUP for a particular year. As an operational preference, the landfill operator will conduct liner construction for the next cell approximately 9-18 months prior to the date that capacity is reached as shown on Table 1.

Table 1
Waste Management Unit Capacities

Expansion Cell	Description	Effective Airspace Capacity in Cubic Yards	Approximate Date that Capacity is Reached
Existing Mound	All lined units A, C, D, 1-5	7,947,127	5/27/2020
6	Cell 6 - limited to south by offset from maintenance facility	9,494,633	8/29/2023
8A	First phase in the South Expansion Area	3,689,559	12/20/2024
8B	Remaining South Expansion Area and completion of the South Terminal Berm	5,702,643	2/14/2028
7	SW 1/4 of East Expansion adjacent to Canyon B fill, builds west 1/2 of East Terminal Berm	7,382,547	3/13/2032
9	NW 1/4 of East Expansion limited to north by Drainage Bench	4,447,789	8/28/2034
10	East 1/2 of East Expansion limited to east by Drainage Bench, completes east 1/2 of East Terminal Berm	11,195,543	11/03/2040
11	NW 1/3 of North Expansion will be utilized as an interim stockpile area	2,384,453	02/27/2042
12	Middle 1/3 of North Expansion will be utilized as an interim stockpile area	3,189,438	12/02/2043

13	NE 1/3 of North Expansion and remaining East Expansion area to permit limits	5,459,790	7/24/2047

The following tables are presented following Section 5.0:

- Table 2 – Diminishing Landfill Capacity Phase Construction
- Table B-1 – Waste Management Unit Capacity and Operational Life
- Table B-2 – Waste Management Unit Volume Details

Details and calculations for remaining capacity for fill phases are presented in Attachment B.

4.0 INTERIM STABILITY

Interim stability calculations have been performed on fill sequence for interim fill units and are included in this report for reference. Static, pseudo-static and seismic deformation calculations were done on cross sections for each fill mound and performed in accordance with CCR Title 27 for landfill construction and closure requirements as well as specific requirements of the site's Waste Discharge Requirements (WDR's) as issued by the Los Angeles Regional Water Quality Control Board. The interim stability calculations conclude that the fill configurations presented in plans meet site design and regulatory criteria for landfill stability.

Details and calculations for interim stability (and subsequent revisions) are presented in Attachment C.

5.0 RESPONSE TO COUNTY DEPARTMENT OF PUBLIC WORKS COMMENTS

The original submittal was made to Los Angeles County Department of Public Works in late December 2017. There have been subsequent reviews and resubmittals by the County and responses by Chiquita Canyon for the years 2021, 2020 and 2019. Responses to the comments are included in Attachments D, E, F and G respectively for informational purposes.

TABLES

Table 2
Chiquita Canyon Landfill
Fill Sequencing Plan

Rev Date 1/3/2022

Effective Permit Date: 7/25/2017 Target density: 0.9857039 tons/CY
Operation days per year: 312 Refuse/daily cover (assumed): 11

Year	Total (tons)			Cumulative Total (tons)	Average TPD	Landfilled volume (CY approx.)	Cover Volume (CY)	Landfill Volume Consumed (CY)	Cumulative Landfill Volume Consumed (CY)	Landfill Unit construction	Landfill Unit on line in January	Landfill Unit Provided Capacity (CY)	Remaining Cumulative Capacity at End of Year (CY)
	Solid Waste	Beneficial Re-use	Combined										
partial 2017	860,125	306,542	1,166,667	1,166,667	8,974	1,106,327	109,720	1,206,902	1,206,902		Active Mound	7,947,127	6,740,225
2018	2,064,300	735,700	2,800,000	3,966,667	8,974	2,603,892	258,240	2,840,610	4,047,512				3,899,615
2019	2,064,300	735,700	2,800,000	6,766,667	8,974	2,603,892	258,240	2,840,610	6,888,121	Cell 6			1,059,006
2020	2,064,300	735,700	2,800,000	9,566,667	8,974	2,603,892	258,240	2,840,610	9,728,731		Cell 6	9,494,633	7,713,029
2021	2,064,300	735,700	2,800,000	12,366,667	8,974	2,603,892	258,240	2,840,610	12,569,341				4,872,419
2022	2,064,300	735,700	2,800,000	15,166,667	8,974	2,603,892	258,240	2,840,610	15,409,950	Cell 8A			2,031,810
2023	2,064,300	735,700	2,800,000	17,966,667	8,974	2,603,892	258,240	2,840,610	18,250,560	Cell 8B	Cell 8A	3,689,559	2,880,759
2024	2,064,300	735,700	2,800,000	20,766,667	8,974	2,603,892	258,240	2,840,610	21,091,169		Cell 8B	5,702,643	5,742,793
2025	1,064,300	735,700	1,800,000	22,566,667	5,769	1,673,931	166,010	1,826,106	22,917,276	Cell 7 mass ex			3,916,686
2026	1,064,300	735,700	1,800,000	24,366,667	5,769	1,673,931	166,010	1,826,106	24,743,382	Cell 7 liner			2,090,580
2027	1,064,300	735,700	1,800,000	26,166,667	5,769	1,673,931	166,010	1,826,106	26,569,488		Cell 7	7,382,547	7,647,021
2028	1,064,300	735,700	1,800,000	27,966,667	5,769	1,673,931	166,010	1,826,106	28,395,594				5,820,915
2029	1,064,300	735,700	1,800,000	29,766,667	5,769	1,673,931	166,010	1,826,106	30,221,700	Cell 9 mass ex			3,994,809
2030	1,064,300	735,700	1,800,000	31,566,667	5,769	1,673,931	166,010	1,826,106	32,047,807	Cell 9 liner			2,168,702
2031	1,064,300	735,700	1,800,000	33,366,667	5,769	1,673,931	166,010	1,826,106	33,873,913		Cell 9	4,447,789	4,790,385
2032	1,064,300	735,700	1,800,000	35,166,667	5,769	1,673,931	166,010	1,826,106	35,700,019	Cell 10			2,964,279
2033	1,064,300	735,700	1,800,000	36,966,667	5,769	1,673,931	166,010	1,826,106	37,526,125		Cell 10	11,195,543	12,333,716
2034	1,064,300	735,700	1,800,000	38,766,667	5,769	1,673,931	166,010	1,826,106	39,352,231				10,507,610
2035	1,064,300	735,700	1,800,000	40,566,667	5,769	1,673,931	166,010	1,826,106	41,178,338				8,681,503
2036	1,064,300	735,700	1,800,000	42,366,667	5,769	1,673,931	166,010	1,826,106	43,004,444				6,855,397
2037	1,064,300	735,700	1,800,000	44,166,667	5,769	1,673,931	166,010	1,826,106	44,830,550				5,029,291
2038	1,064,300	735,700	1,800,000	45,966,667	5,769	1,673,931	166,010	1,826,106	46,656,656				3,203,185
2039	1,064,300	735,700	1,800,000	47,766,667	5,769	1,673,931	166,010	1,826,106	48,482,762	Cell 11			1,377,079
2040	1,064,300	735,700	1,800,000	49,566,667	5,769	1,673,931	166,010	1,826,106	50,308,869	Cell 12	Cell 11	2,384,453	1,935,425
2041	1,064,300	735,700	1,800,000	51,366,667	5,769	1,673,931	166,010	1,826,106	52,134,975		Cell 12	3,189,438	3,298,757
2042	1,064,300	735,700	1,800,000	53,166,667	5,769	1,673,931	166,010	1,826,106	53,961,081	Cell 13			1,472,651
2043	1,064,300	735,700	1,800,000	54,966,667	5,769	1,673,931	166,010	1,826,106	55,787,187		Cell 13	5,459,790	5,106,335
2044	1,064,300	735,700	1,800,000	56,766,667	5,769	1,673,931	166,010	1,826,106	57,613,293				3,280,229
2045	1,064,300	735,700	1,800,000	58,566,667	5,769	1,673,931	166,010	1,826,106	59,439,400				1,454,122
2046	500,000	400,000	900,000	59,466,667	2,885	836,965	83,000	913,053	60,352,453				541,069
2047	250,000	283,333	533,333	60,000,000	1,709	495,979	49,190	541,068	60,893,521				1

Note:

1. Values shown for inbound tonnage for Calendar Years 2046 and 2047 are assumed to run out tonnage to maximum permitted inbound for site at the permit termination date.
2. Target density assumed as average over the 30-year permit life to zero out site at permit date
3. Year shown is an estimate; as stated in Section 3.0 “Remaining Capacity,” the occupation of a particular unit will be based on market conditions, inbound tonnage and operational efficiency

Chiquita Canyon Expansion Projects
Table B-1
Waste Management Unit Capacity and Operational Life
11 January 2022 Rev (9)

Permit Date: 7/25/2017
survey date for original table: 3/13/2017

Expansion Cell	Description	Gross Airspace Capacity in Cubic Yards (Note 1)	Volume of Final cover in CY	Volume of Liner in CY	Effective Airspace Capacity in Cubic Yards	Tonnage (Note 2)	Approx. Site Life (Years) (Notes 1,3)	Date Capacity Reached (Note 4)
Existing Mound	All lined units A, C, D, 1-5 (Note 5)	8,286,695	339,568		7,947,127	7,638,059	3.21	5/27/2020
6	Cell 6 - limited to south by offset from maintenance facility	9,782,188	238,132	49,423	9,494,633	9,125,382	3.26	8/29/2023
8A	Cell 8A - phased for inbound traffic considerations	3,803,500	63,273	50,668	3,689,559	3,671,285	1.31	12/20/2024
8B	Cell 8B - remaining South Expansion Area and completion of the South Terminal Berm and realigned customer access road	6,225,319	517,510	5,166	5,702,643	5,674,399	3.15	2/14/2028
7	SW 1/4 of East Expansion adjacent to Canyon B fill, builds west 1/2 of East Terminal Berm	7,695,036	227,725	84,764	7,382,547	7,345,983	4.08	3/13/2032
9	NW 1/4 of East Expansion limited to north by Drainage Bench	4,546,195	33,522	64,884	4,447,789	4,425,760	2.46	8/28/2034
10	East 1/2 of East Expansion limited to east by Drainage Bench, completes east 1/2 of East Terminal Berm	11,470,176	216,581	58,051	11,195,543	11,140,094	6.19	11/3/2040
11	NW 1/3 of North Expansion will be utilized as an interim stockpile area	2,551,133	121,749	44,930	2,384,453	2,372,644	1.32	2/27/2042
12	Middle 1/3 of North Expansion will be utilized as an interim stockpile area	3,366,011	135,925	40,649	3,189,438	3,173,641	1.76	12/2/2043
13	NE 1/3 of North Expansion and remaining East Expansion area to permit limits	5,917,416	409,975	47,651	5,459,790	5,432,749	3.02	12/8/2046
	Total of Cells:	**63,643,669**	**2,303,961**	**446,187**	**60,893,521**	**60,000,000**	**30.38**	**7/24/2047**

Notes

1 Existing WMU capacity based on aerial survey dated March 13, 2017
2 Tonnage capacity to the waste management unit is based on an airspace consumption rate of 1990 pounds per cubic yard in Cell 8 and future *1990.09 PCY*
3 Permit limits are: 7 years 5 months at 2.8 Million Cubic Yards/Year (through 12/31/2024), remainder at 1.8 Million CY/YR
4 Date shown is an estimate; as stated in Section 3.0 "Remaining Capacity," the occupation of a particular unit will be based on market conditions, inbound tonnage and operational efficiency
5 Site life calculation for existing mound uses 85% of permit tonnage as inbound due to late approvals
6 Permit Termination Date of 7/24/2047 is shown as the date final capacity is reached

Chiquita Canyon Expansion Projects
Table B-2
Waste Management Unit Volume Details
03 January 2022 Rev (8)

Revised		Quantities in Square Feet					Landfill Unit Capacities in Cubic Yards			
		Slope Liner	Floor Liner	total Liner	Slope Final Cover	Deck Final Cover	Total Airspace	Final Cover	Liner	Effective Capacity
Existing Mound		0	0	0	942,159	1,202,106	8,286,695	339,568		7,947,127
Cell 6		335,676	199,839	535,515	385,091	1,145,528	9,782,188	238,132	49,423	9,494,633
Cell 8A		521,978	207,152	729,130	379,639	-	3,803,500	63,273	50,668	3,689,559
Cell 8B		66,421	-	66,421	2,742,842	397,556	6,225,319	517,510	5,166	5,702,643
Cell 7 (A+B)		616,822	756,810	1,373,632	1,006,600	394,847	7,695,036	227,725	84,764	7,382,547
Cell 9		529,610	487,385	1,016,995	-	220,756	4,546,195	33,522	64,884	4,447,789
Cell 10		333,097	661,243	994,340	745,055	608,525	11,470,176	216,581	58,051	11,195,543
Cell 11		577,674	-	577,674	-	801,764	2,551,133	121,749	44,930	2,384,453
Cell 12		522,625	-	522,625	-	895,114	3,366,011	135,925	40,649	3,189,438
Cell 13		612,658	-	612,658	1,288,808	1,285,290	5,917,416	409,975	47,651	5,459,790
		4,116,561	2,312,429	6,428,990	7,490,195	6,951,486	63,643,669	2,303,962	446,187	60,893,520

Liner Area Check:

	SF	Ac	EIR
Cell 6+8	1,331,066	30.56	**34.52**
Cells 7 + 9 thru 13	5,097,924	117.03	**117.04**
			151.56

Final cover check:

	SF	Ac	EIR
All Units	14,441,682	331.54	
			335.11

Final Cover Dimensions	Site-wide
Final cover thickness (ft)	4.0

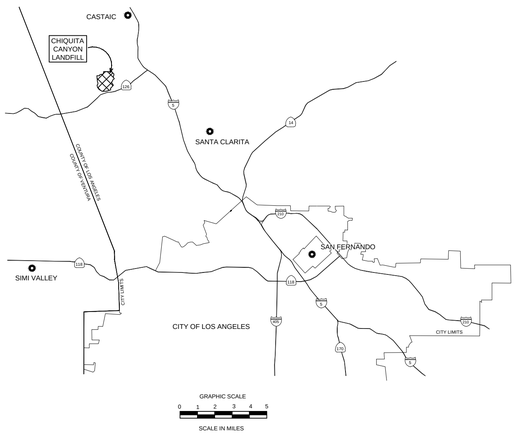
Liner Dimensions	Cell 6	Cells 7-13
Low perm layer (ft)	2.0	1.0
Drainage gravel layer (ft)	1.0	0.75
Floor PCS layer (ft)	1.0	1.25
Slope PCS layer (ft)	2.0	2.0

ATTACHMENT A

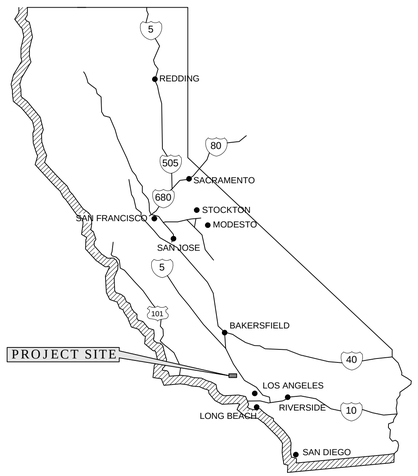
FILL SEQUENCING PLANS

MASTER DEVELOPMENT PLAN
FILL SEQUENCE PLANS

CHIQUITA CANYON LANDFILL
29201 HENRY MAYO DR. CASTAIC CA 91384
JANUARY 2022



VICINITY MAP



STATE
LOCATION MAP
N.T.S.



INDEX TO SHEETS

SHEET	TITLE
T1	TITLE SHEET
01	FINAL CONDITION
02	PROPOSED PHASING LIMITS
03	BASE PREPARATION PLAN
04	CURRENT MOUND FILL PLAN
05	CELL 6 LINER PLAN
06	CELL 6 FILL PLAN
07	CELL 8A LINER PLAN
08	CELL 8A FILL PLAN
09	CELL 8B LINER PLAN
10	CELL 8B PHASE 1 FILL PLAN
11	CELL 8B PHASE 2 FILL PLAN
12	CELL 7 LINER PLAN
13	CELL 7 FILL PLAN
14	CELL 9 LINER PLAN
15	CELL 9 FILL PLAN
16	CELL 10 LINER PLAN
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18	CELL 11 LINER PLAN
19	CELL 11 FILL PLAN
20	CELL 12 LINER PLAN
21	CELL 12 FILL PLAN
22	CELL 13 LINER PLAN
23	CELL 13 FILL PLAN
24	CELL DETAILS
25	DRAINAGE & EROSION CONTROL DETAILS

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL AND MONTHLY SURVEY BY VERTEX

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.

REV. NO.	DATE	DESCRIPTION	APPROVED BY
1	09/30/19	RESPONSE TO COUNTY COMMENTS	R JOHNSON
2	06/07/21	PHASING FOR CELL 8	R JOHNSON
3	01/11/22	REVISE FOR RE-SUBMITTAL JANUARY 11, 2022	R JOHNSON

DATE OF ISSUE: JANUARY 2022
DESIGNED BY: R JOHNSON
CAD DESIGN BY: J AMAYA
CHECKED BY: D HARICH
APPROVED BY: R JOHNSON

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REGISTERED PROFESSIONAL ENGINEER — No. 39641 — Exp. 12/31/23 — CIVIL — STATE OF CALIFORNIA

CHIQUITA CANYON
A Waste Connections Company
29210 HENRY MAYO DR.
CASTAIC ,CA 91384

CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

TITLE SHEET

DWG NO. T1
PROJECT NO. 2013.0094

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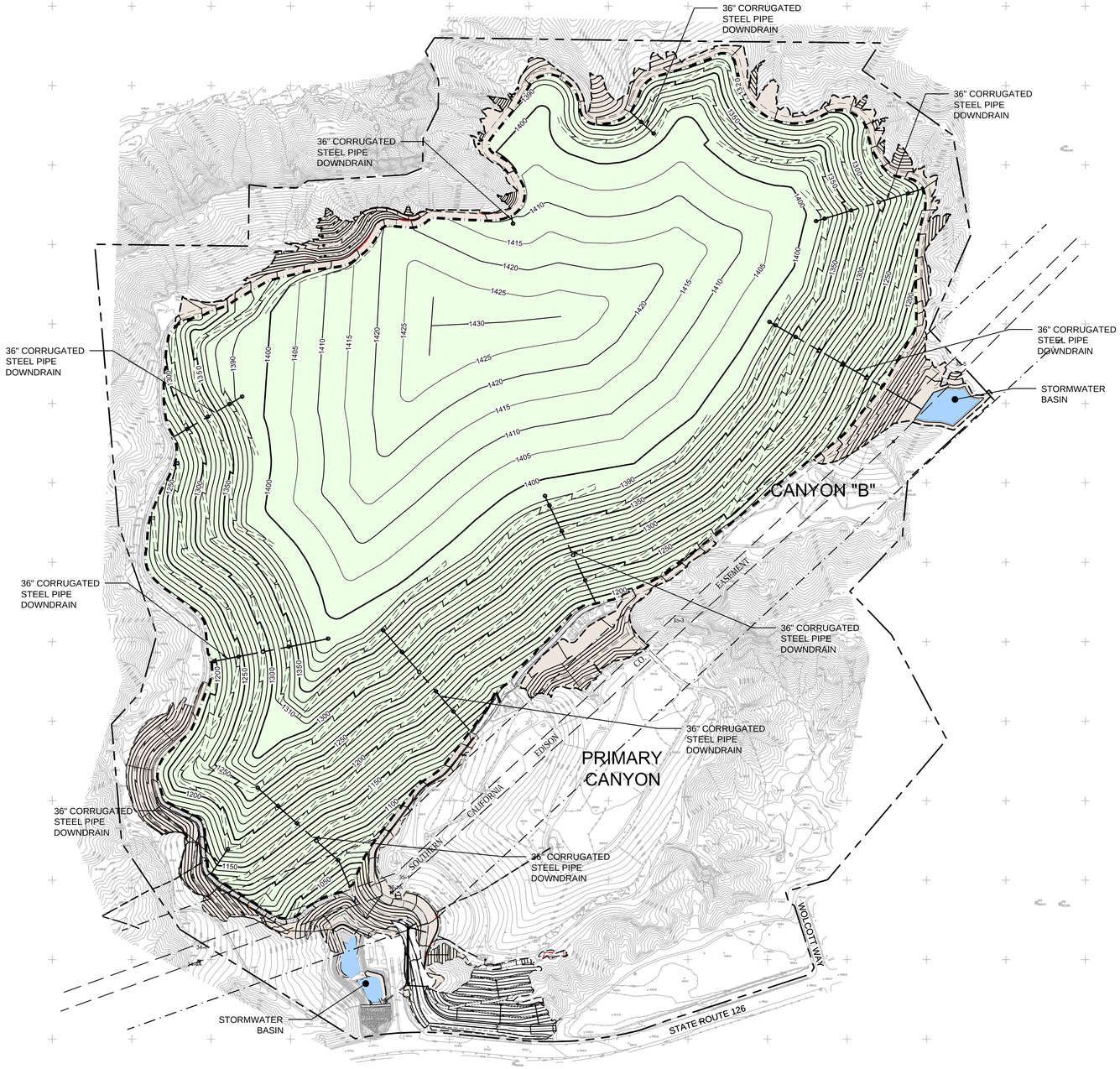

LEGEND

- PROPERTY BOUNDARY
- LIMIT OF REFUSE PER EXHIBIT A JULY 28, 2017
- PROPOSED LINER LIMIT
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1190 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- TEMPORARY SOIL STOCKPILE
- LEL LEL — EXISTING LINER
- UNL UNL — LIMIT OF UNLINED UNIT
- LINER INSTALLATION AREA
- GRADING AREA
- REFUSE FILL AREA
- LIMIT OF GRADING
- LIMIT OF CELL GRADING

NOTE:
ELEVATIONS INDICATED WITHIN LINER LIMITS ARE TOP OF LINER.

N

400' 0' 200' 400' 800'

SCALE: 1" = 400'

ISSUED FOR REVIEW

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2	06/07/21	PHASING FOR CELL 8	R JOHNSON
3	01/11/22	REVISE FOR RE-SUBMITTAL JANUARY 11, 2022	R JOHNSON

DATE OF ISSUE: JANUARY 2022
DESIGNED BY: R JOHNSON
CAD DESIGN BY: J AMAYA
CHECKED BY: D HARICH
APPROVED BY: R JOHNSON

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CHIQUITA CANYON
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29210 HENRY MAYO DR.
CASTAIC ,CA 91384

CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

FINAL CONDITION

DWG NO. 01

PROJECT NO. 2013.0094

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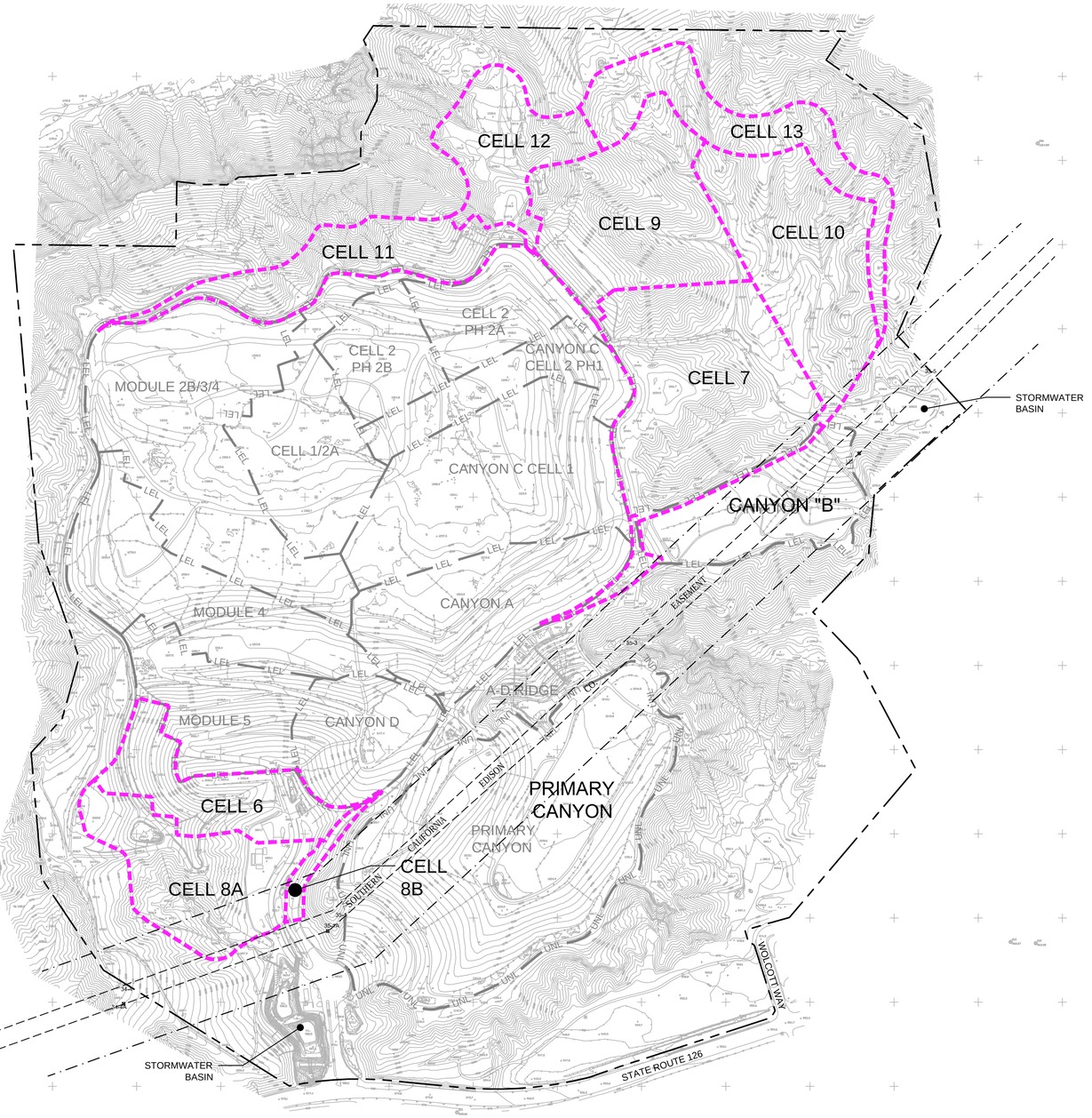

LEGEND

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- 1190 PROPOSED 10 FEET CONTOUR WITH ELEVATION
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- LEL LEL EXISTING LINER
- UNL UNL LIMIT OF UNLINED UNIT
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- GRADING AREA
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- LIMIT OF CELL GRADING

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DATE OF ISSUE: JANUARY 2022
DESIGNED BY: R JOHNSON
CAD DESIGN BY: J AMAYA
CHECKED BY: D HARICH
APPROVED BY: R JOHNSON

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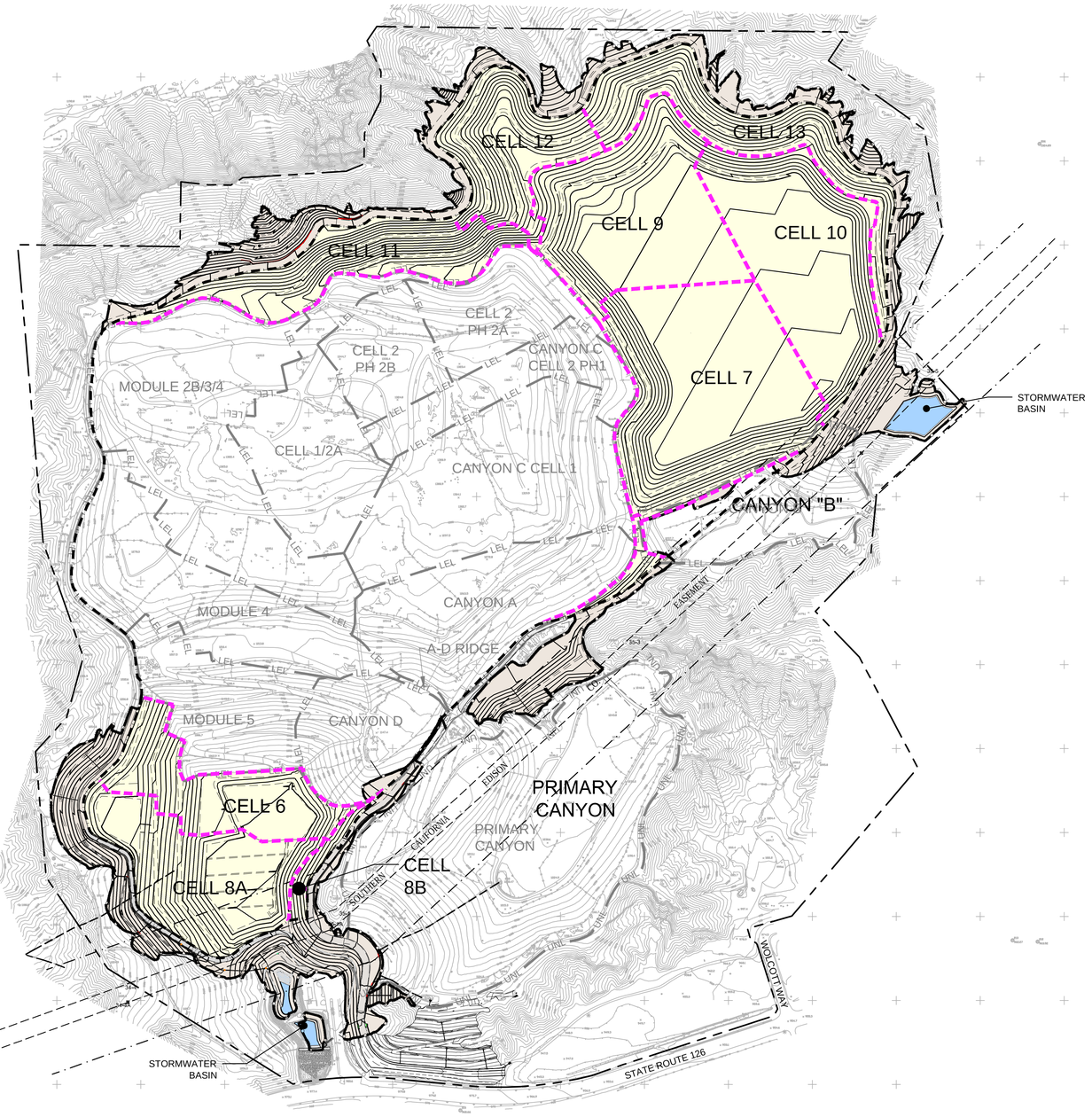
CASTAIC ,CA 91384

CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

PROPOSED PHASING LIMITS

DWG NO. 02

PROJECT NO. 2013.0094



LEGEND

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- REFUSE FILL AREA
- LIMIT OF GRADING SUPPORT
- LIMIT OF CELL GRADING

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29210 HENRY MAYO DR.
CASTAIC ,CA 91384

CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

BASE PREPARATION PLAN

DWG NO. 03

PROJECT NO. 2013.0094

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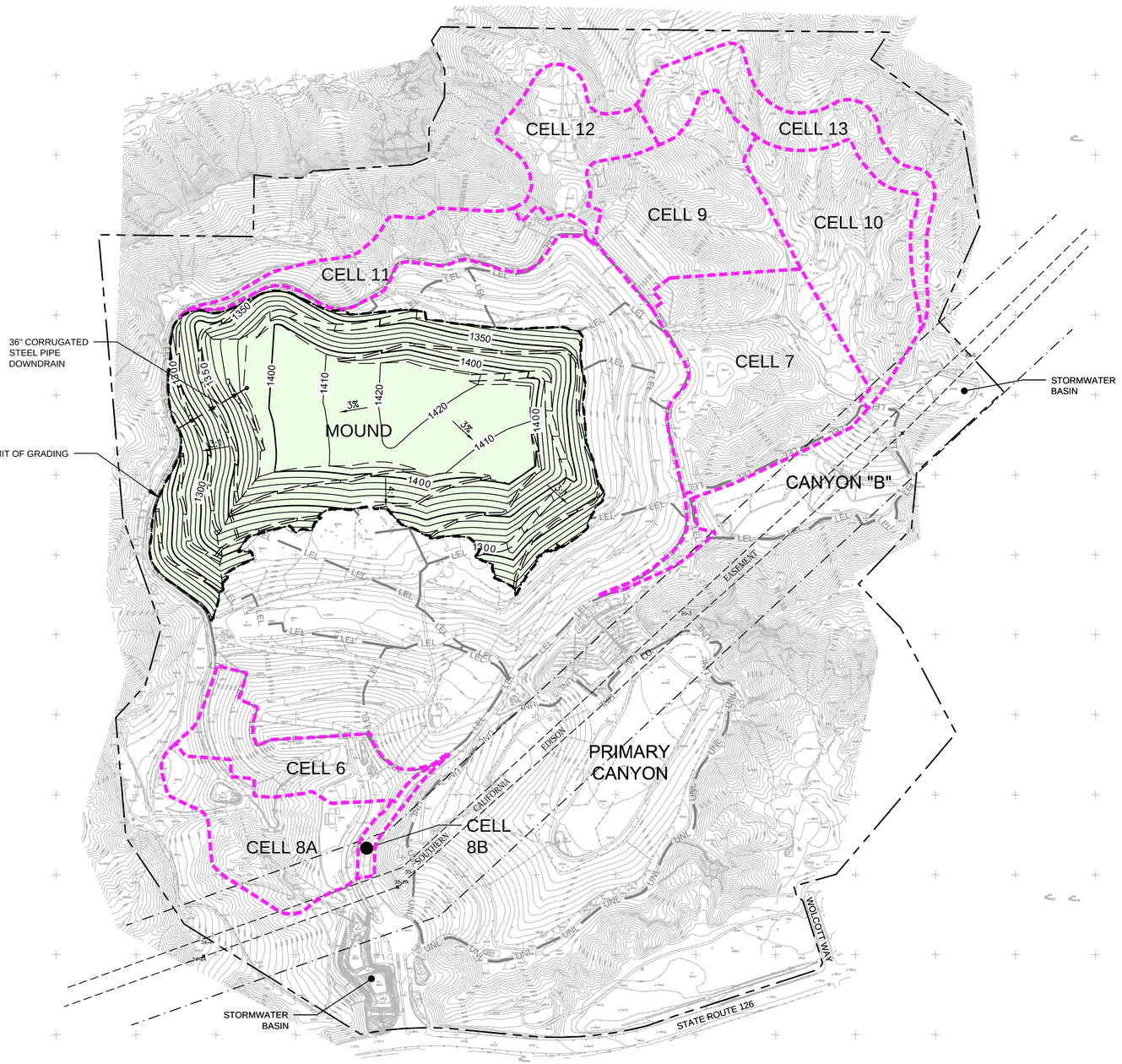

LEGEND

- PROPERTY BOUNDARY
- LIMIT OF REFUSE PER EXHIBIT A JULY 28, 2017
- PROPOSED LINER LIMIT
- 1200 PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1190 PROPOSED 10 FEET CONTOUR WITH ELEVATION
- TEMPORARY SOIL STOCKPILE
- LEL LEL EXISTING LINER
- UNL UNL LIMIT OF UNLINED UNIT
- LINER INSTALLATION AREA
- GRADING AREA
- REFUSE FILL AREA
- LIMIT OF GRADING
- LIMIT OF CELL GRADING

NOTE:
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N

400' 0' 200' 400' 800'

SCALE: 1" = 400'

ISSUED FOR REVIEW

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DATE OF ISSUE: JANUARY 2022
DESIGNED BY: R JOHNSON
CAD DESIGN BY: J AMAYA
CHECKED BY: D HARICH
APPROVED BY: R JOHNSON

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CASTAIC ,CA 91384

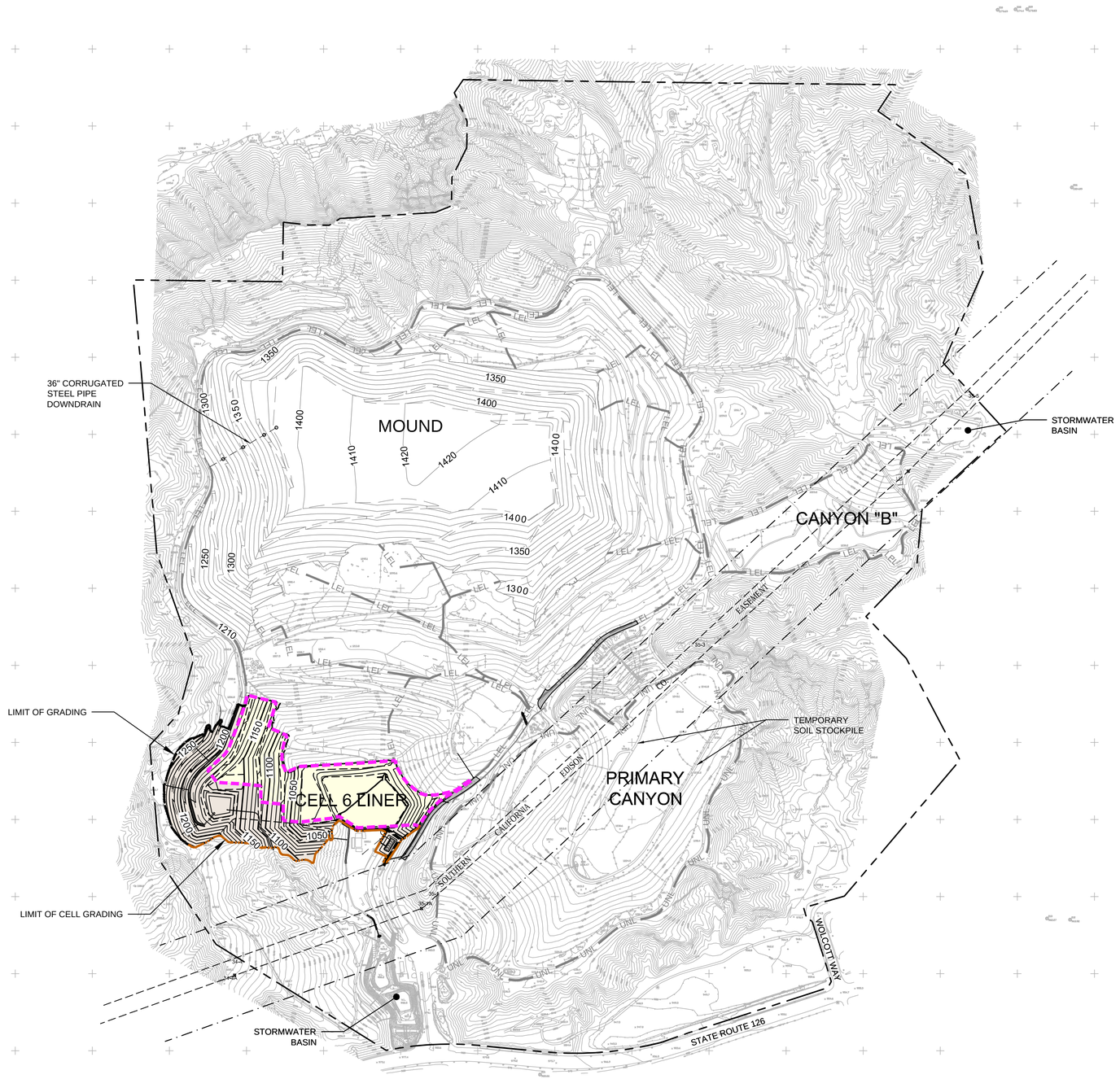
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

CURRENT MOUND FILL PLAN

DWG NO. 04

PROJECT NO. 2013.0094

P:\SITES\CHIQUITA CNY LF\FILL SEQUENCE PLANS - 2022\DWG SETS\FILL SEQUENCE PLANS\2017-1235-GCL-FSP-04-CURRENT MOUND FILL PLAN.DWG January 6, 2022 - 1:27 PM BY: GLA-USER



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CELL 6 LINER PLAN

DWG NO. 05

PROJECT NO. 2013.0094

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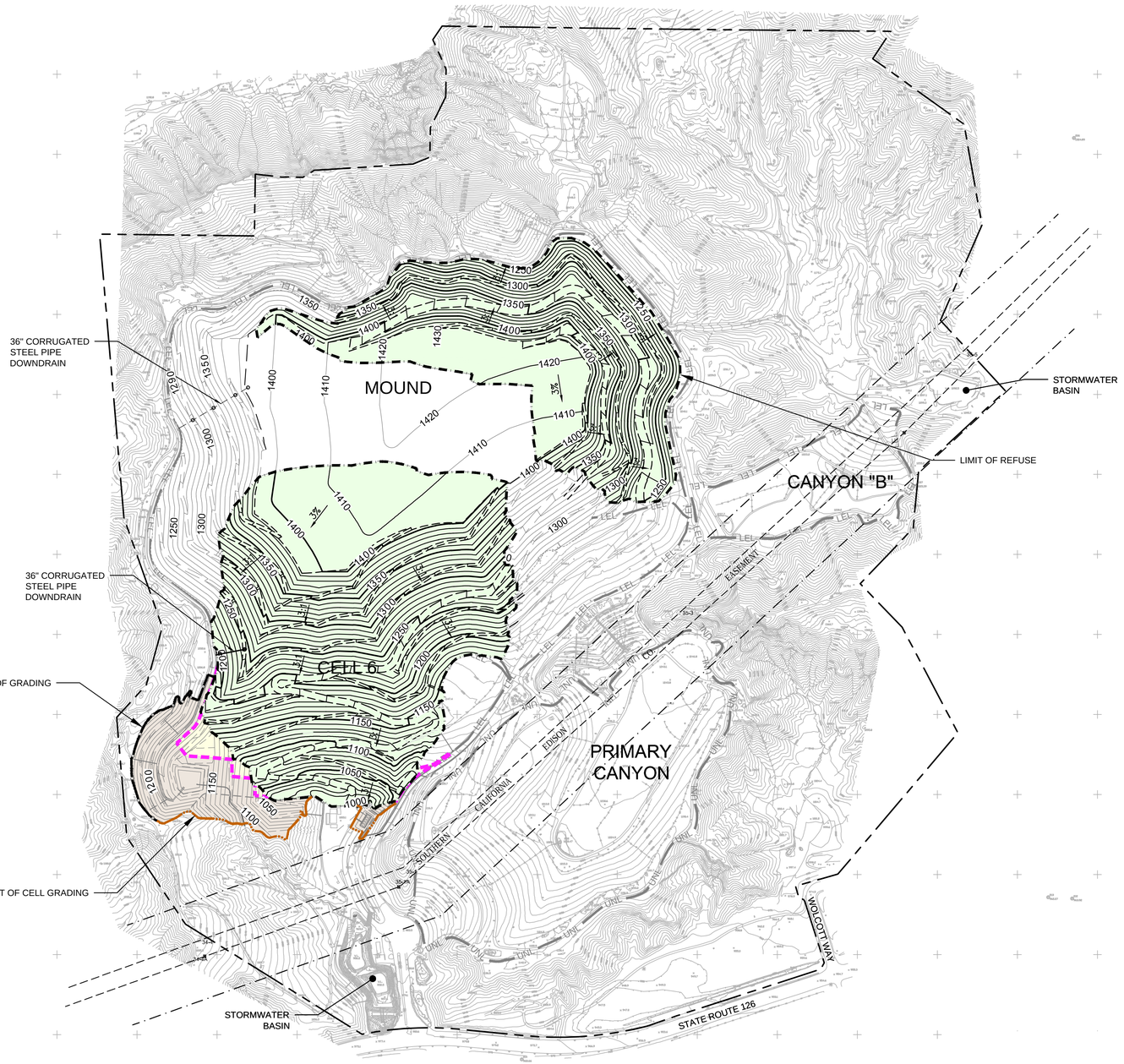

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CELL 6 FILL PLAN

DWG NO. 06

PROJECT NO. 2013.0094

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CELL 8A LINER LAN

DWG NO. 07

PROJECT NO. 2013.0094

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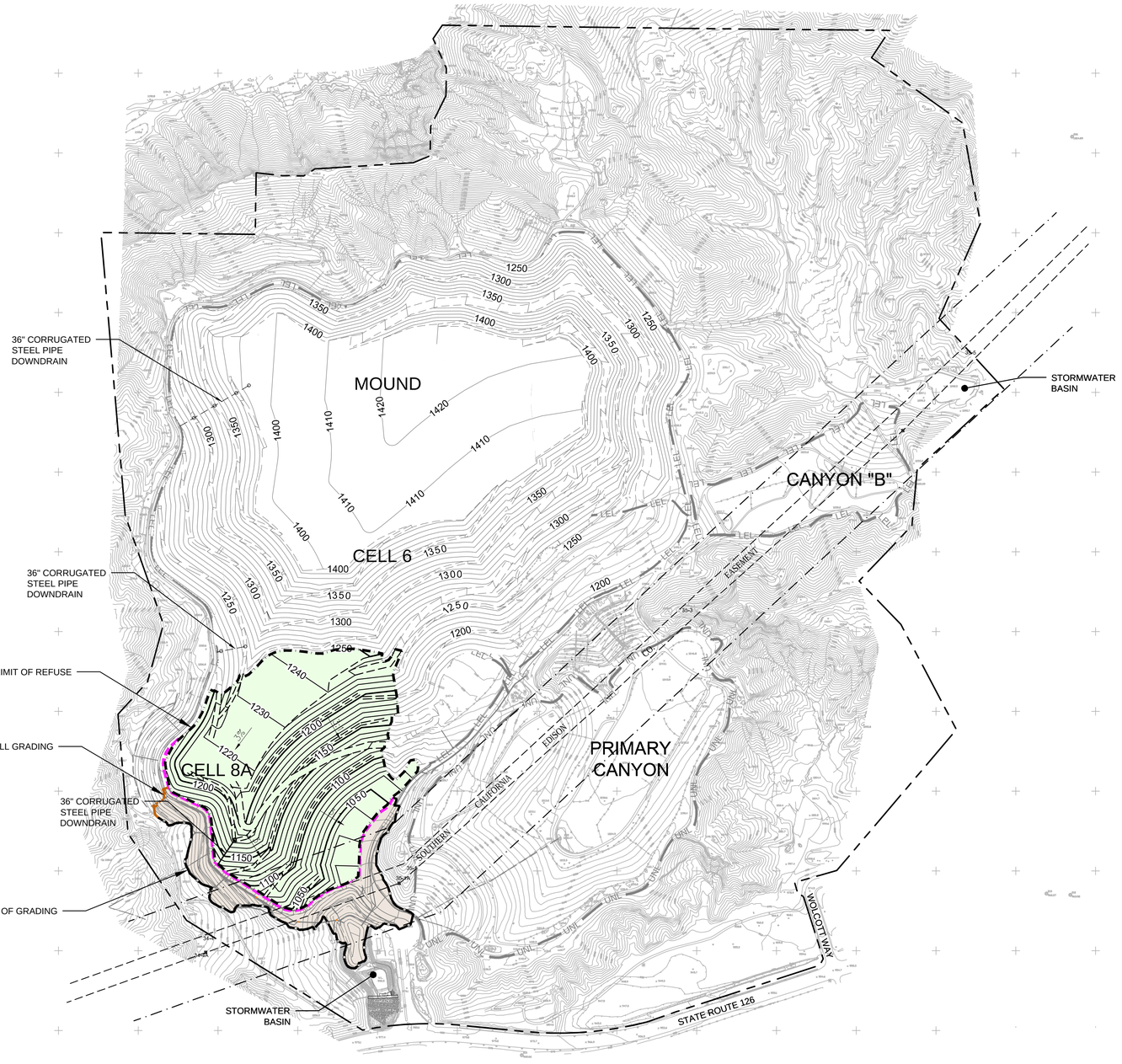

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CELL 8A FILL PLAN

DWG NO. 08

PROJECT NO. 2013.0094

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CASTAIC, CALIFORNIA

CELL 8B LINER PLAN

DWG NO. 09

PROJECT NO. 2013.0094

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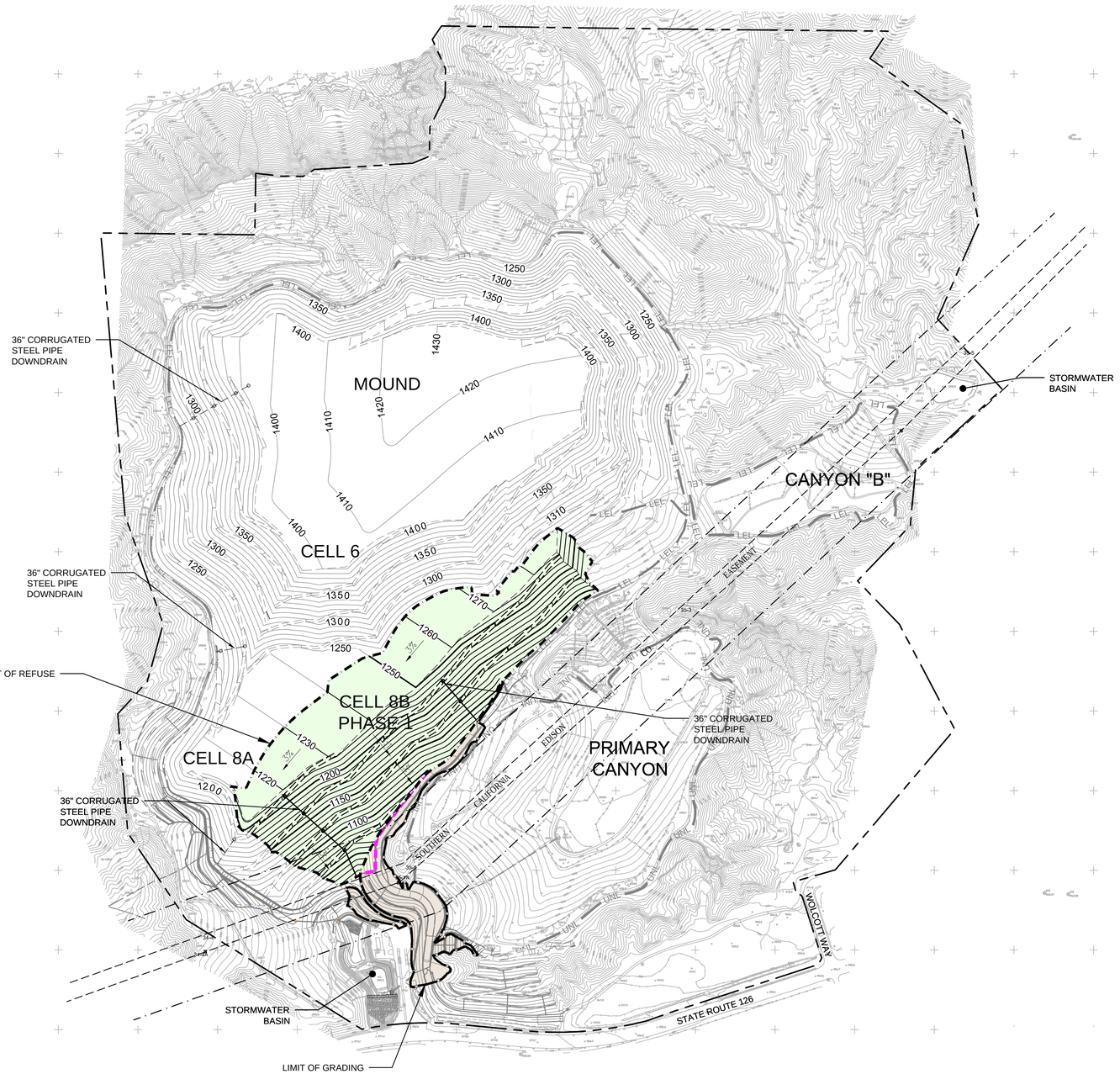

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CASTAIC, CALIFORNIA

CELL 8B PHASE 1 FILL PLAN

DWG NO. 10

PROJECT NO. 2013.0094

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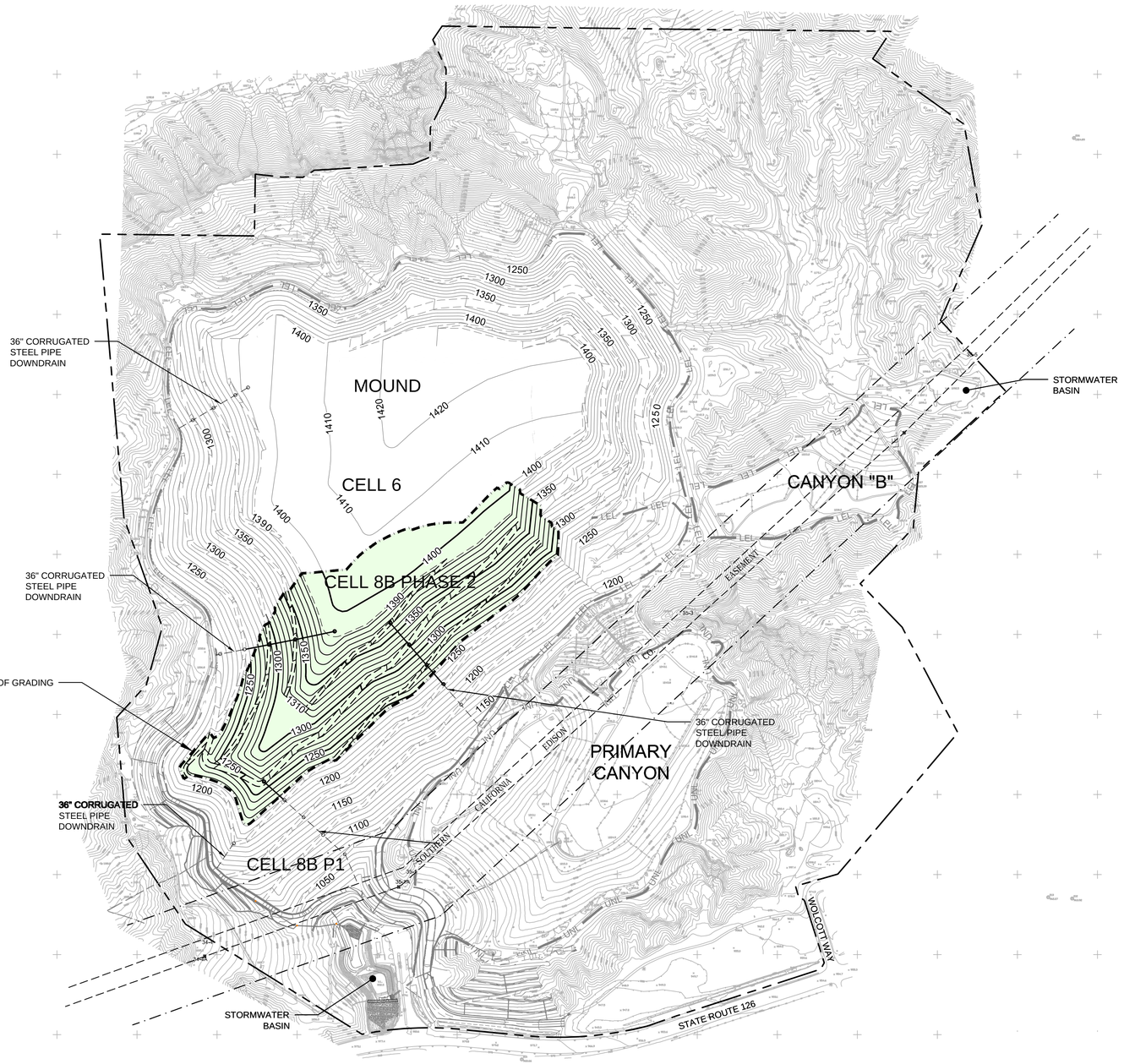

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CELL 8B PHASE 2 FILL PLAN

DWG NO. 11

PROJECT NO. 2013.0094

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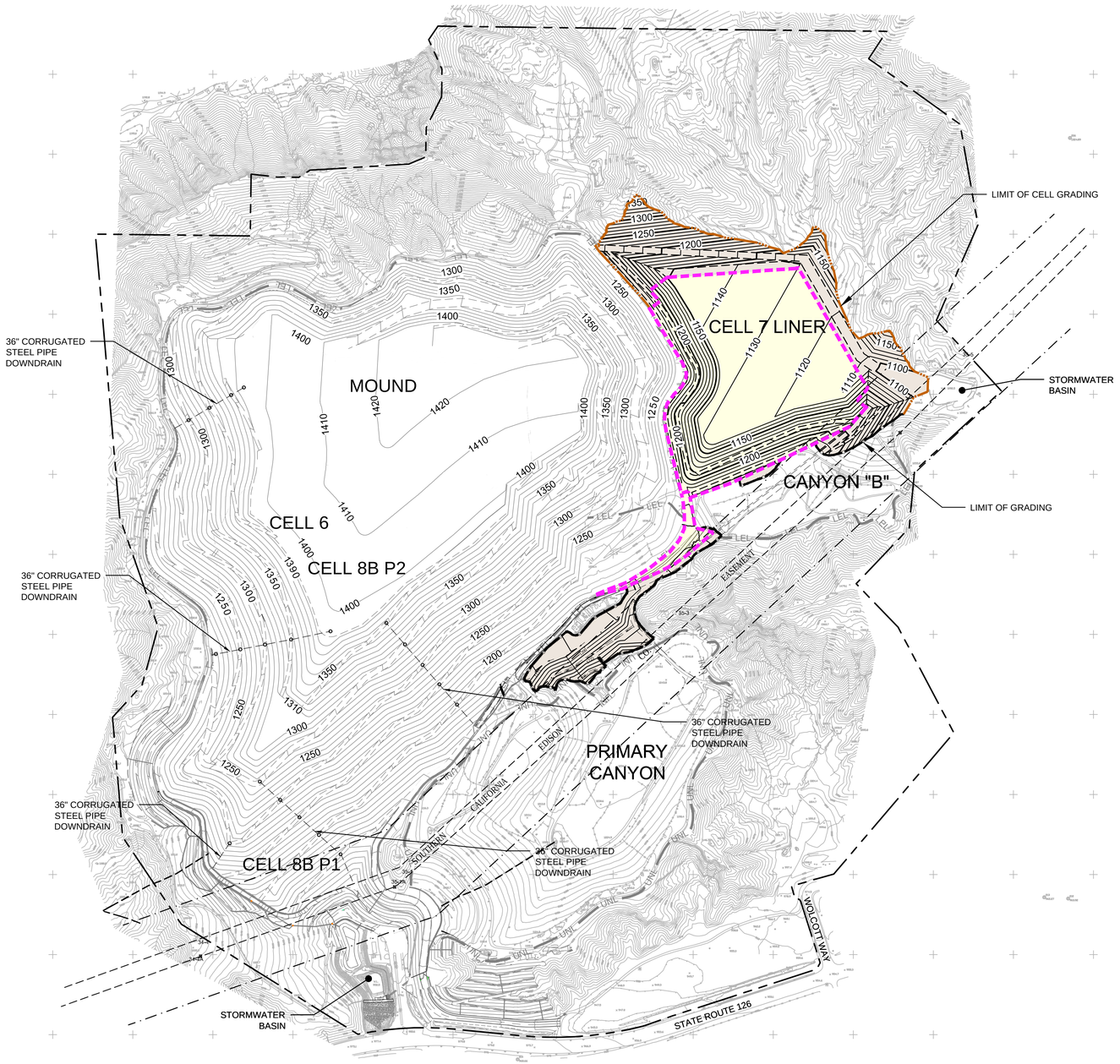

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CELL 7 LINER PLAN

DWG NO. 12

PROJECT NO. 2013.0094

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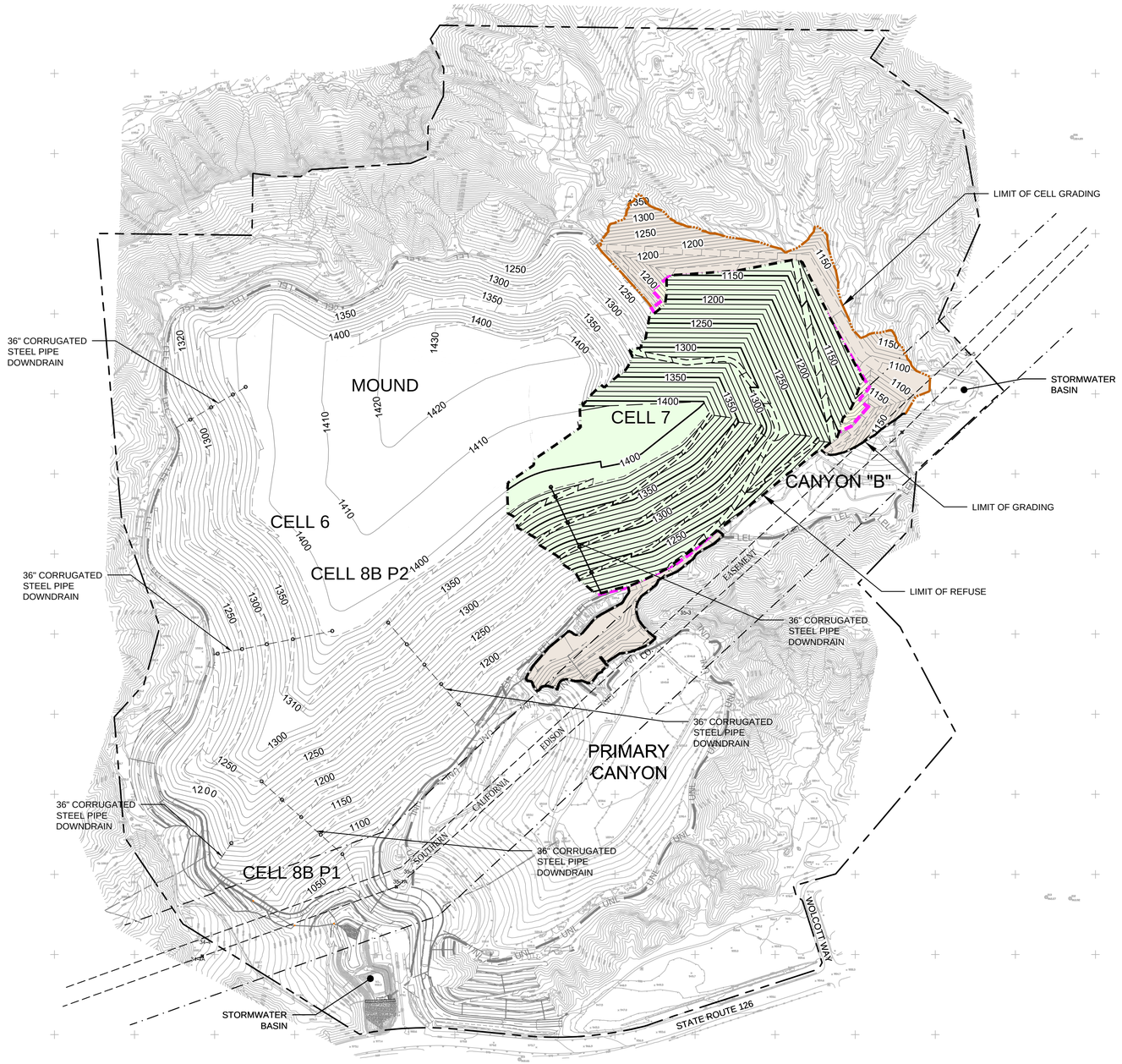

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DATE OF ISSUE: JANUARY 2022
DESIGNED BY: R JOHNSON
CAD DESIGN BY: J AMAYA
CHECKED BY: D HARICH
APPROVED BY: R JOHNSON

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REGISTERED PROFESSIONAL ENGINEER ROBERT DYER JOHNSON No. 39641 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

CHIQUITA CANYON
A Waste Connections Company
29210 HENRY MAYO DR.
CASTAIC ,CA 91384

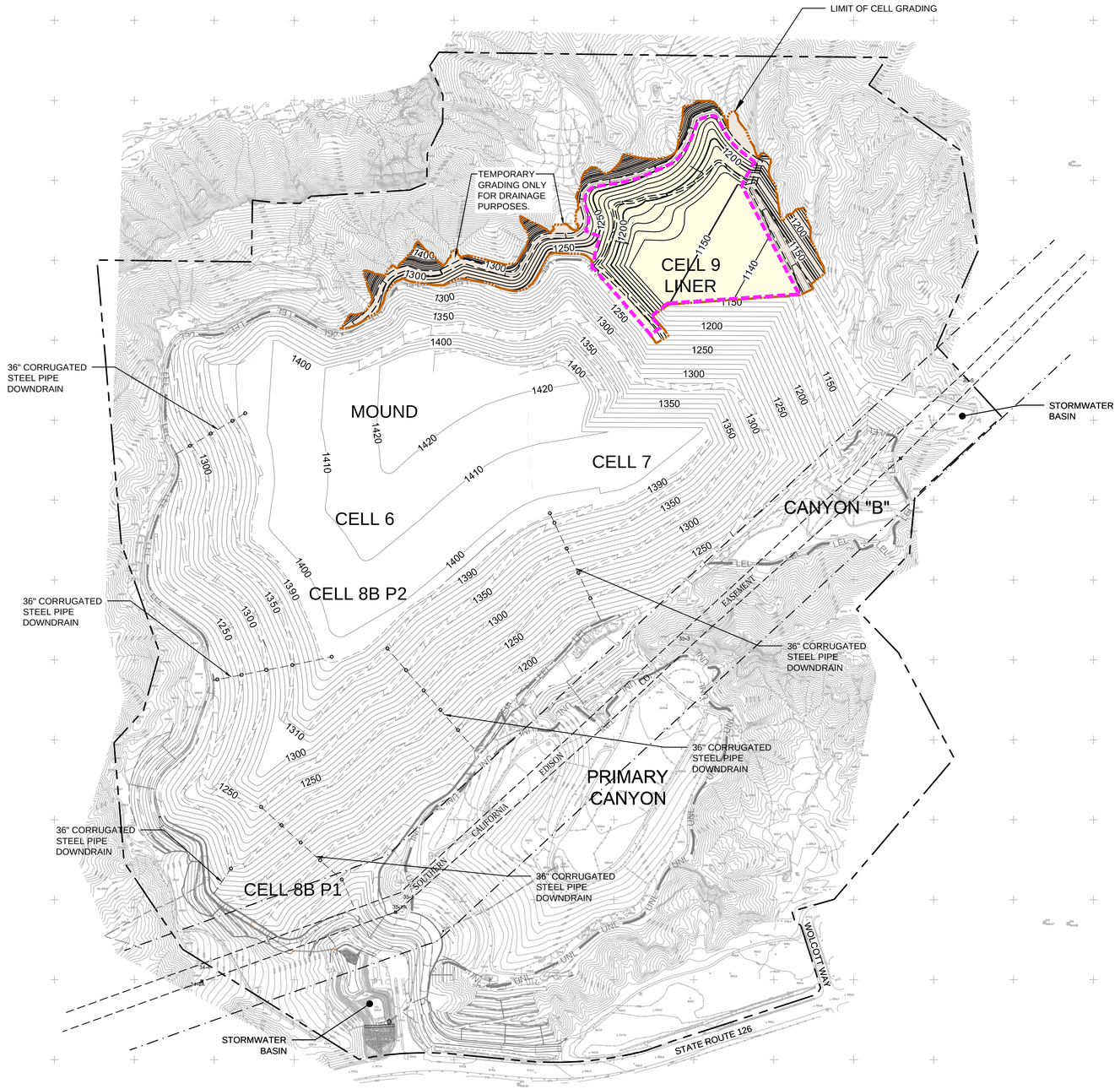
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

CELL 7 FILL PLAN

DWG NO. 13

PROJECT NO. 2013.0094

P:\SITES\CHIQUITA CYN_LF\FILL SEQUENCE PLANS - 2022\DWG SETS\FILL SEQUENCE PLANS\GO17 1235-GCL-FSP-13-CELL 7 FILL PLAN.DWG January 6, 2022 - 1:29 PM BY: GLA-USER



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF REFUSE PER EXHIBIT A JULY 28, 2017
- PROPOSED LINER LIMIT
- 1200 PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1190 PROPOSED 10 FEET CONTOUR WITH ELEVATION
- TEMPORARY SOIL STOCKPILE
- LEL LEL EXISTING LINER
- UNL UNL LIMIT OF UNLINED UNIT
- LINER INSTALLATION AREA
- GRADING AREA
- REFUSE FILL AREA
- LIMIT OF GRADING
- LIMIT OF CELL GRADING

NOTE:
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N

400' 0' 200' 400' 800'

SCALE: 1" = 400'

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CELL 9 LINER PLAN

DWG NO. 14

PROJECT NO. 2013.0094

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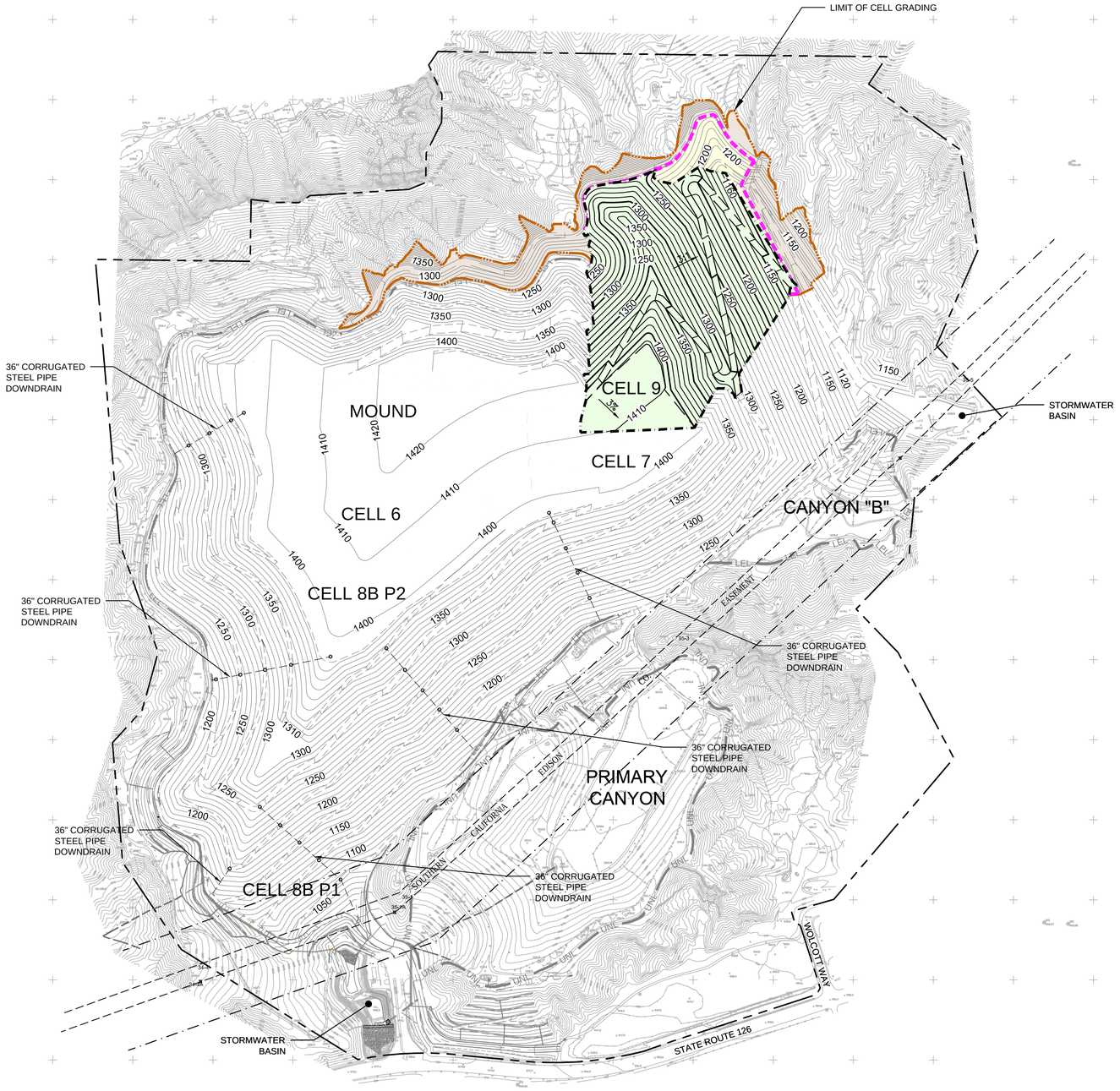

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CELL 9 FILL PLAN

DWG NO. 15

PROJECT NO. 2013.0094

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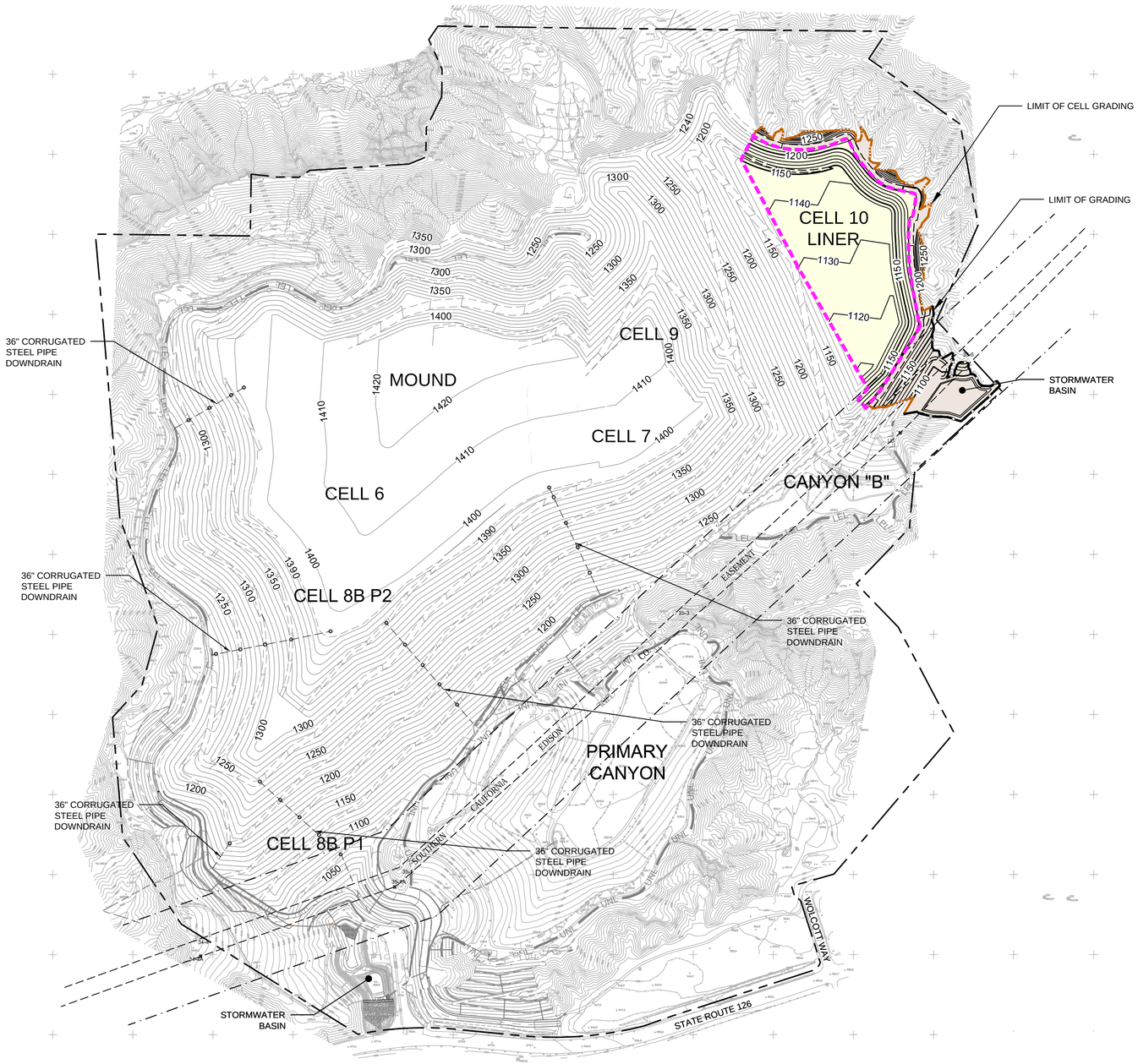

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CELL 10 LINER PLAN

DWG NO. 16

PROJECT NO. 2013.0094

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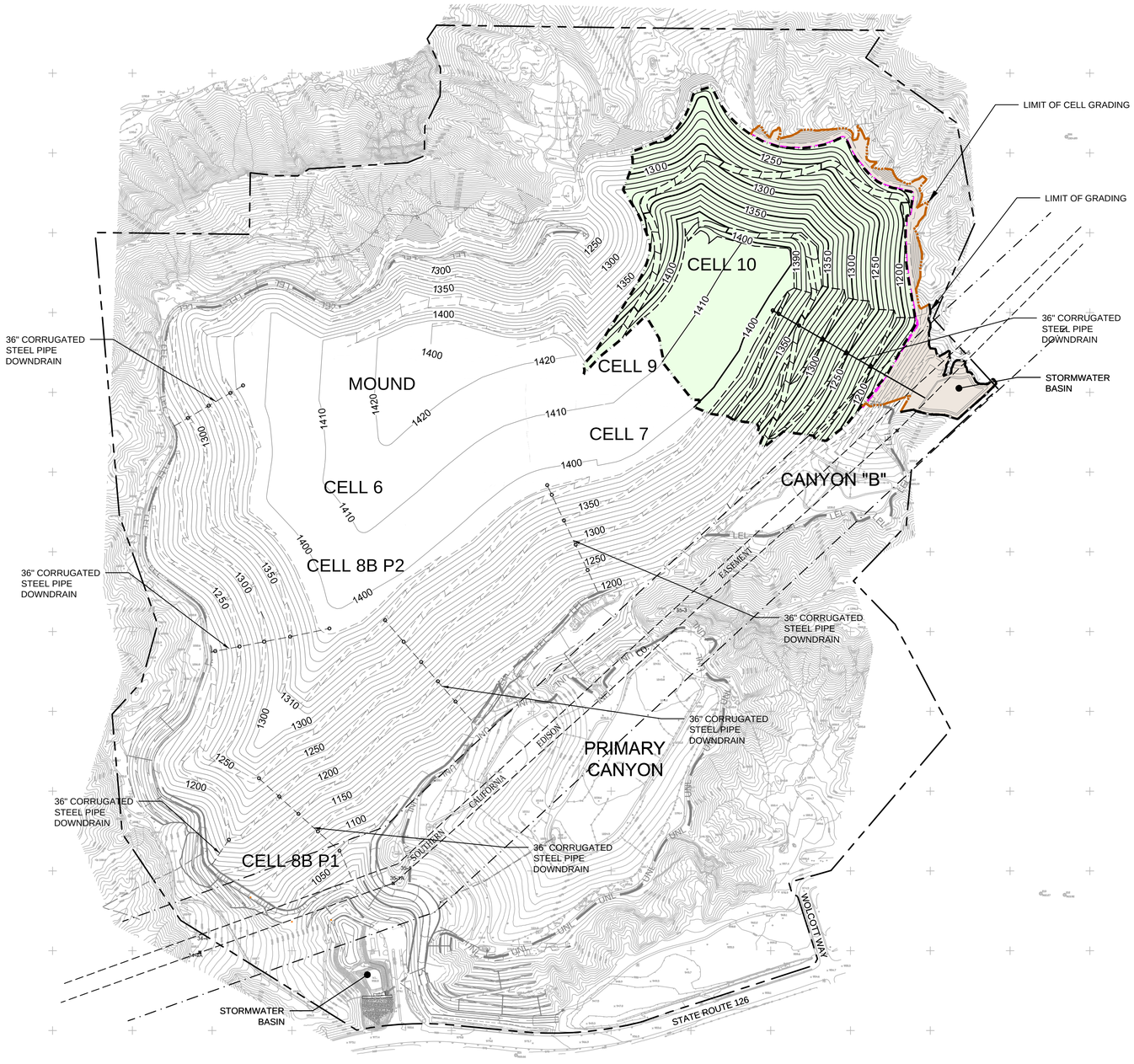

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CELL 10 FILL PLAN

DWG NO. 17
PROJECT NO. 2013.0094

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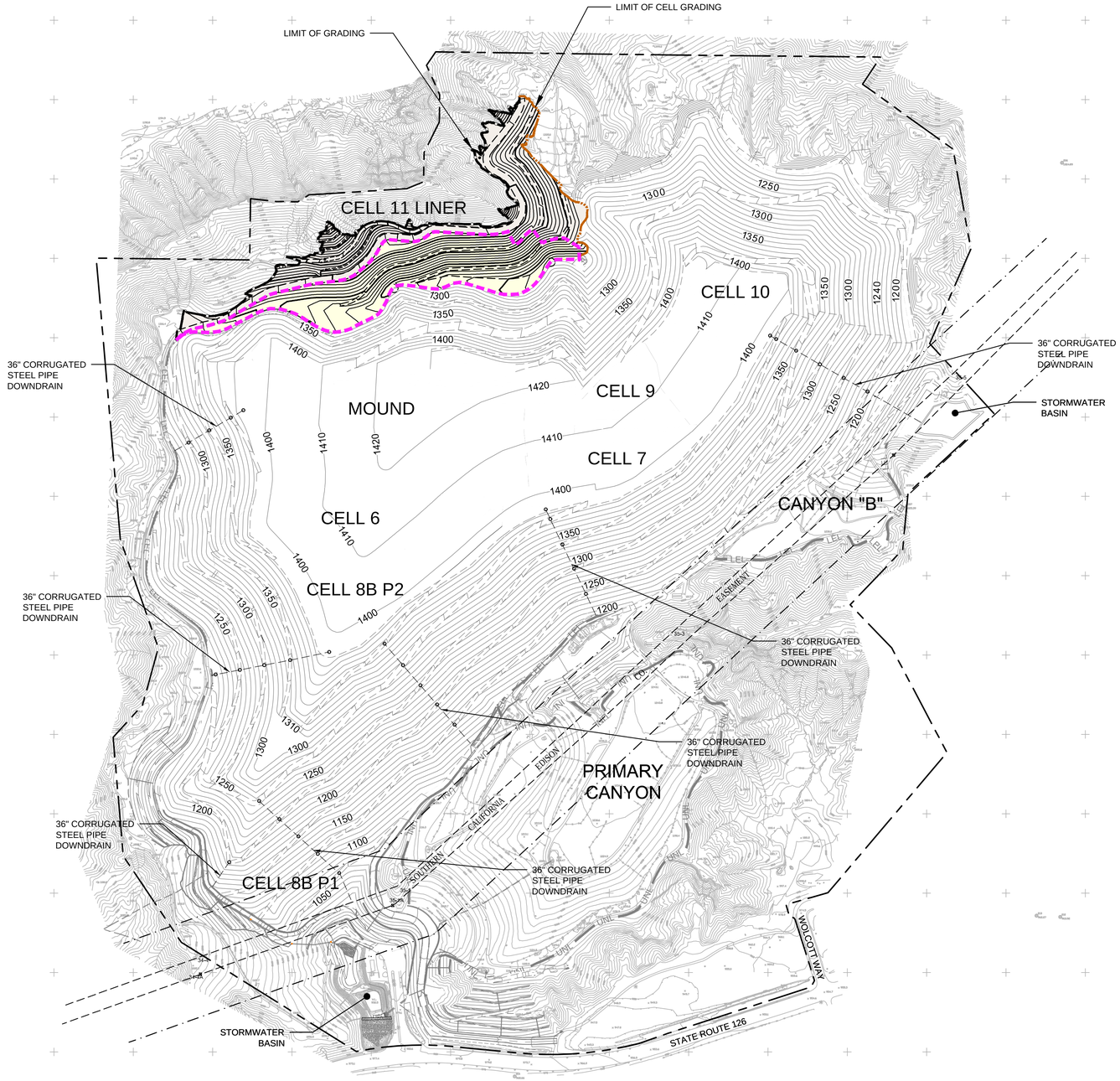

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CASTAIC, CALIFORNIA

CELL 11 LINER PLAN

DWG NO. 18

PROJECT NO. 2013.0094

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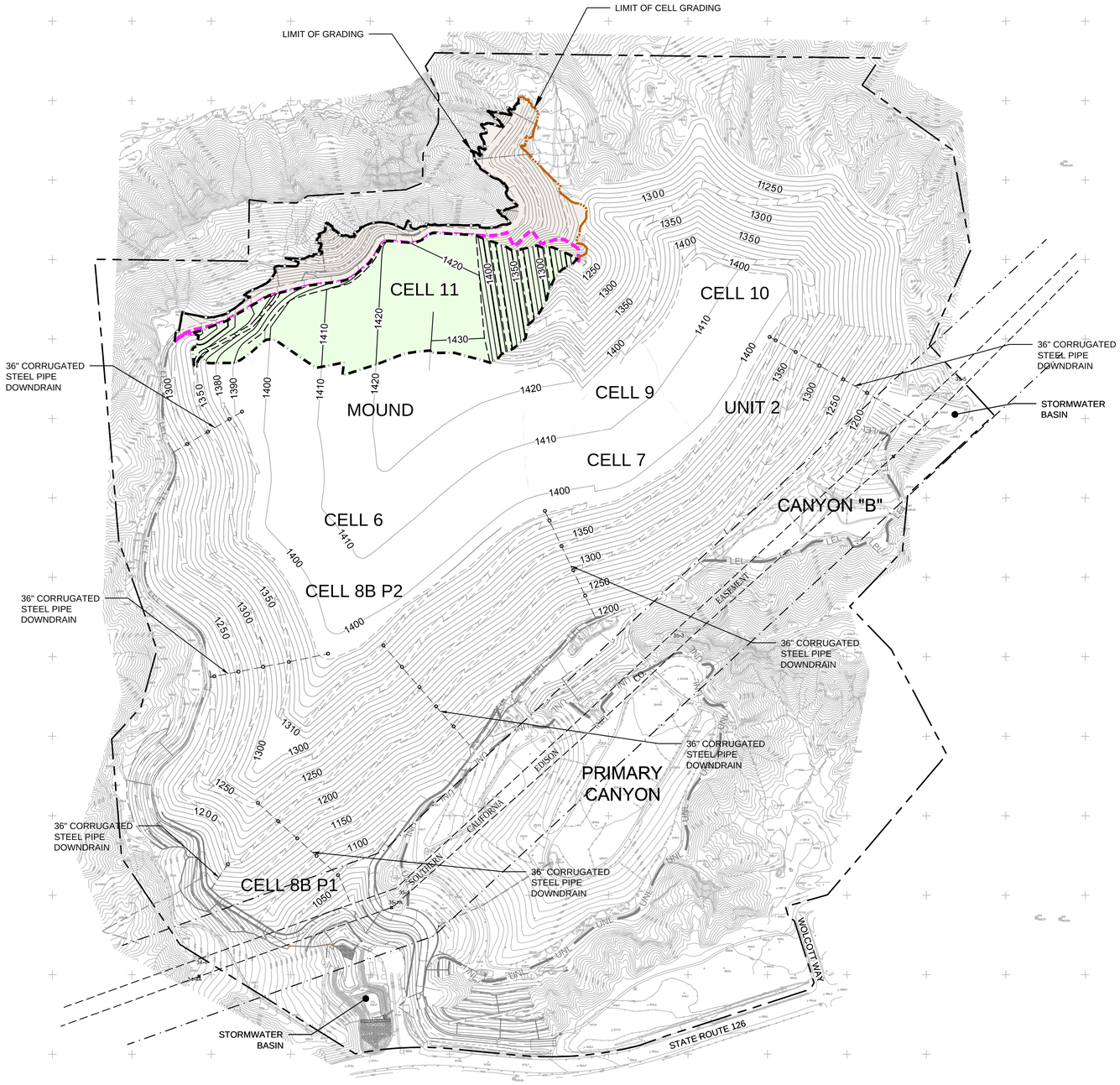

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CELL 11 FILL PLAN

DWG NO. 19
PROJECT NO. 2013.0094

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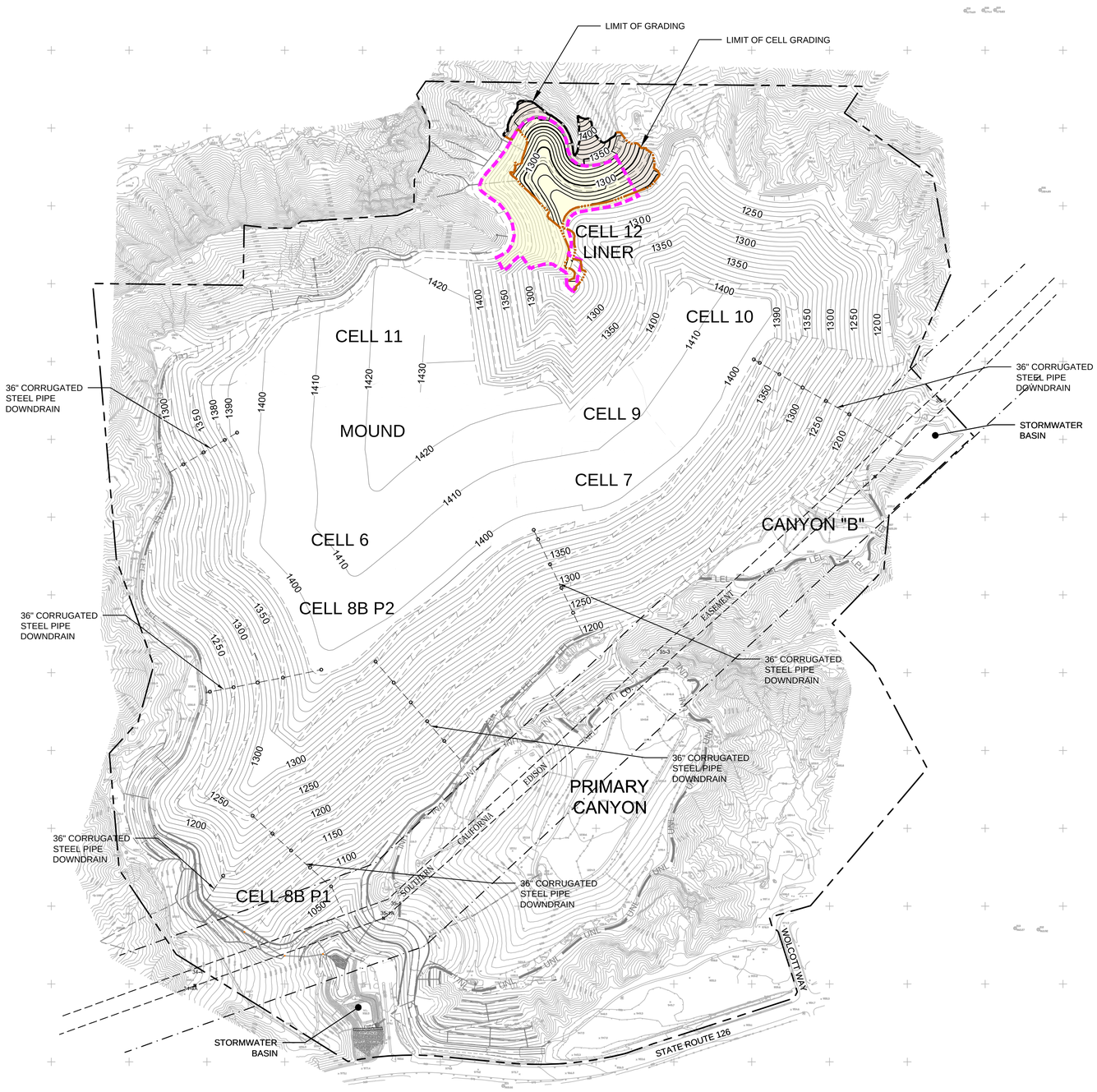

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CELL 12 LINER PLAN

DWG NO. 20

PROJECT NO. 2013.0094

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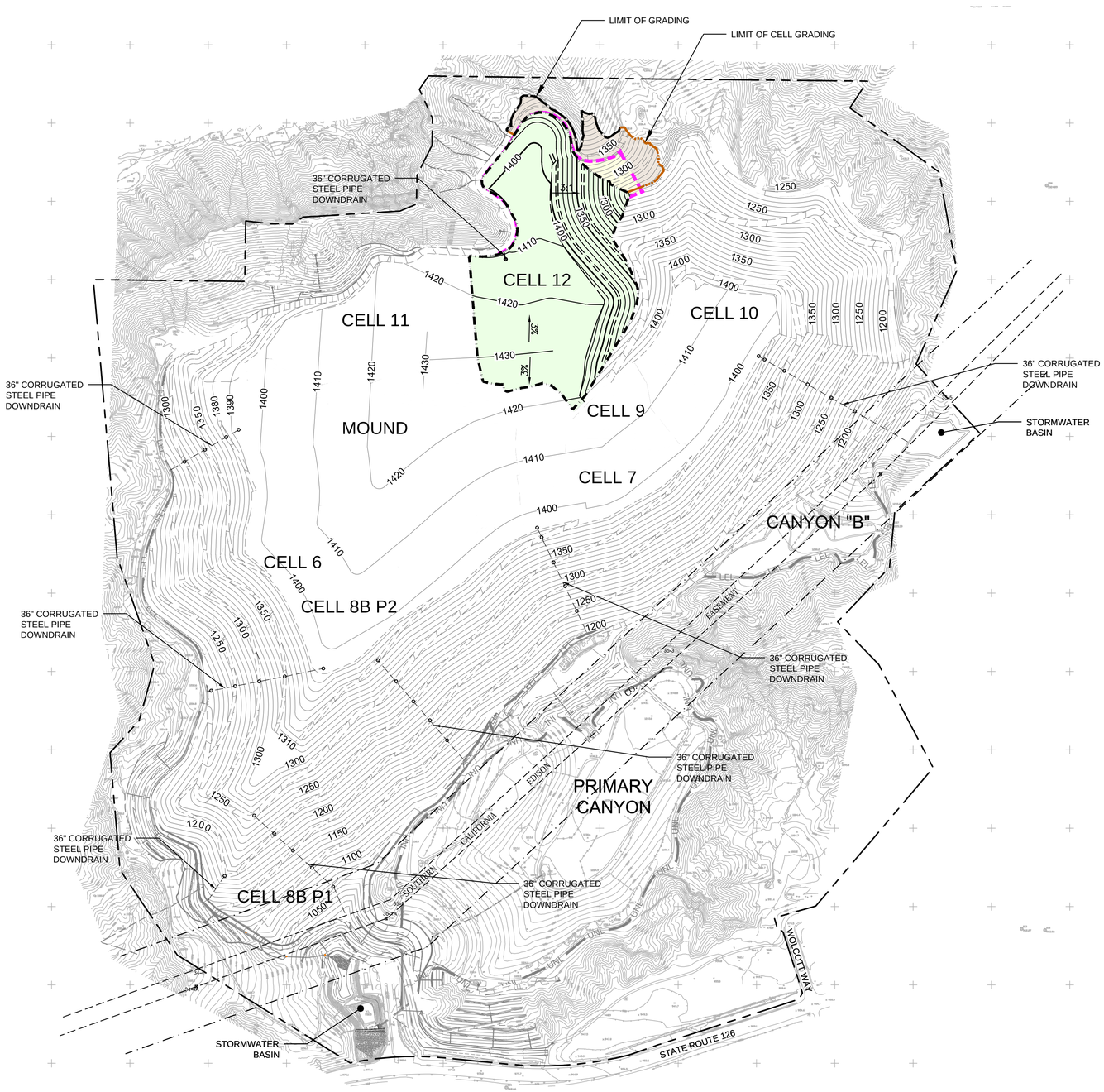

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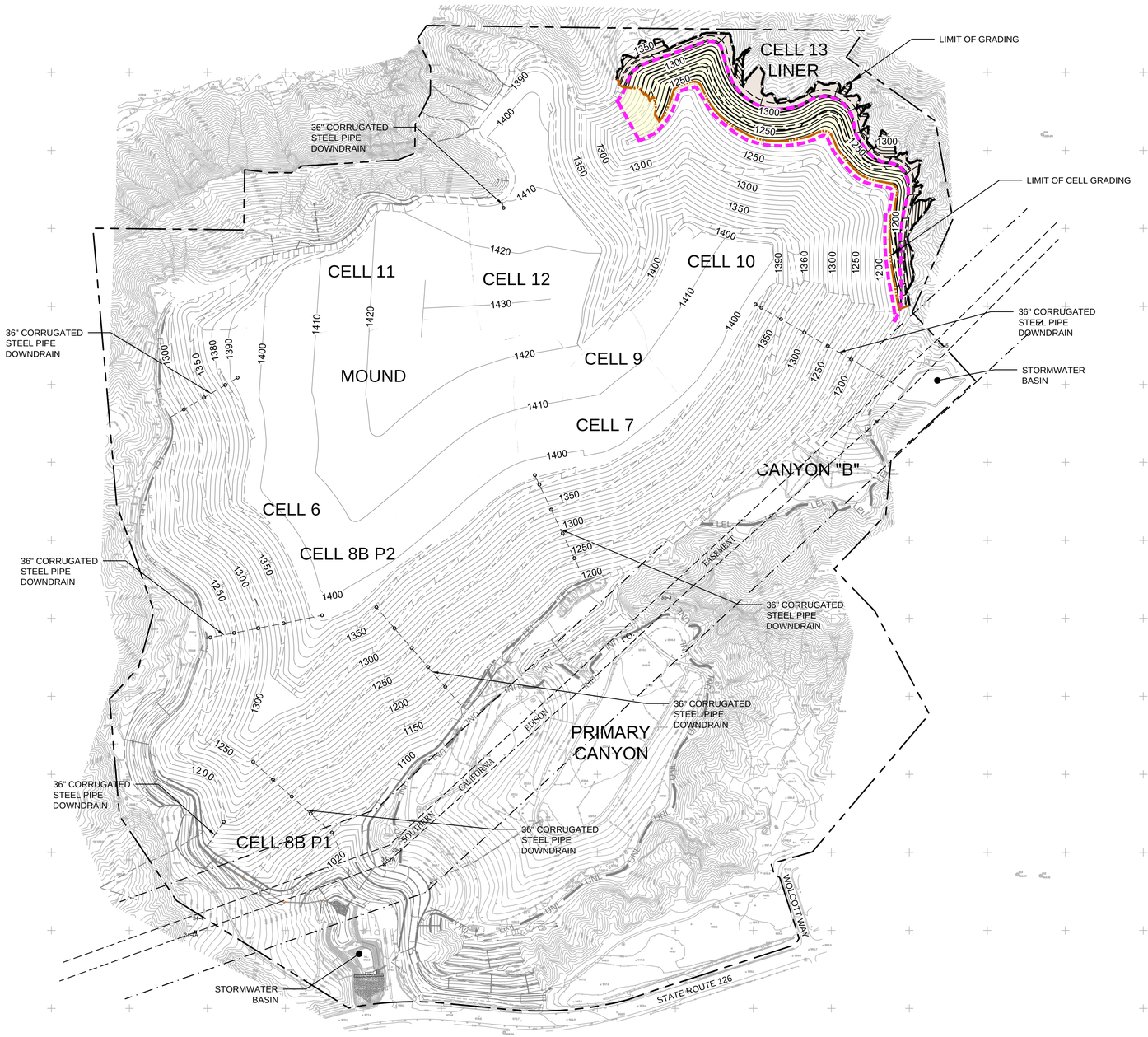

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1	09/30/19	RESPONSE TO COUNTY COMMENTS	R JOHNSON
2	06/07/21	PHASING FOR CELL 8	R JOHNSON
3	01/11/22	REVISE FOR RE-SUBMITTAL JANUARY 11, 2022	R JOHNSON

DATE OF ISSUE: JANUARY 2022
DESIGNED BY: R JOHNSON
CAD DESIGN BY: J AMAYA
CHECKED BY: D HARICH
APPROVED BY: R JOHNSON

DIGALERT 811

Geo-Logic ASSOCIATES
2777 EAST GUASTI ROAD
SUITE 1
ONTARIO, CA 91761
(909) 626-2282
www.geo-logic.com

REGISTERED PROFESSIONAL ENGINEER ROBERT DYER JOHNSON No. 39641 Exp. 12/31/23 CIVIL STATE OF CALIFORNIA

CHIQUITA CANYON
A Waste Connections Company
29210 HENRY MAYO DR.
CASTAIC ,CA 91384

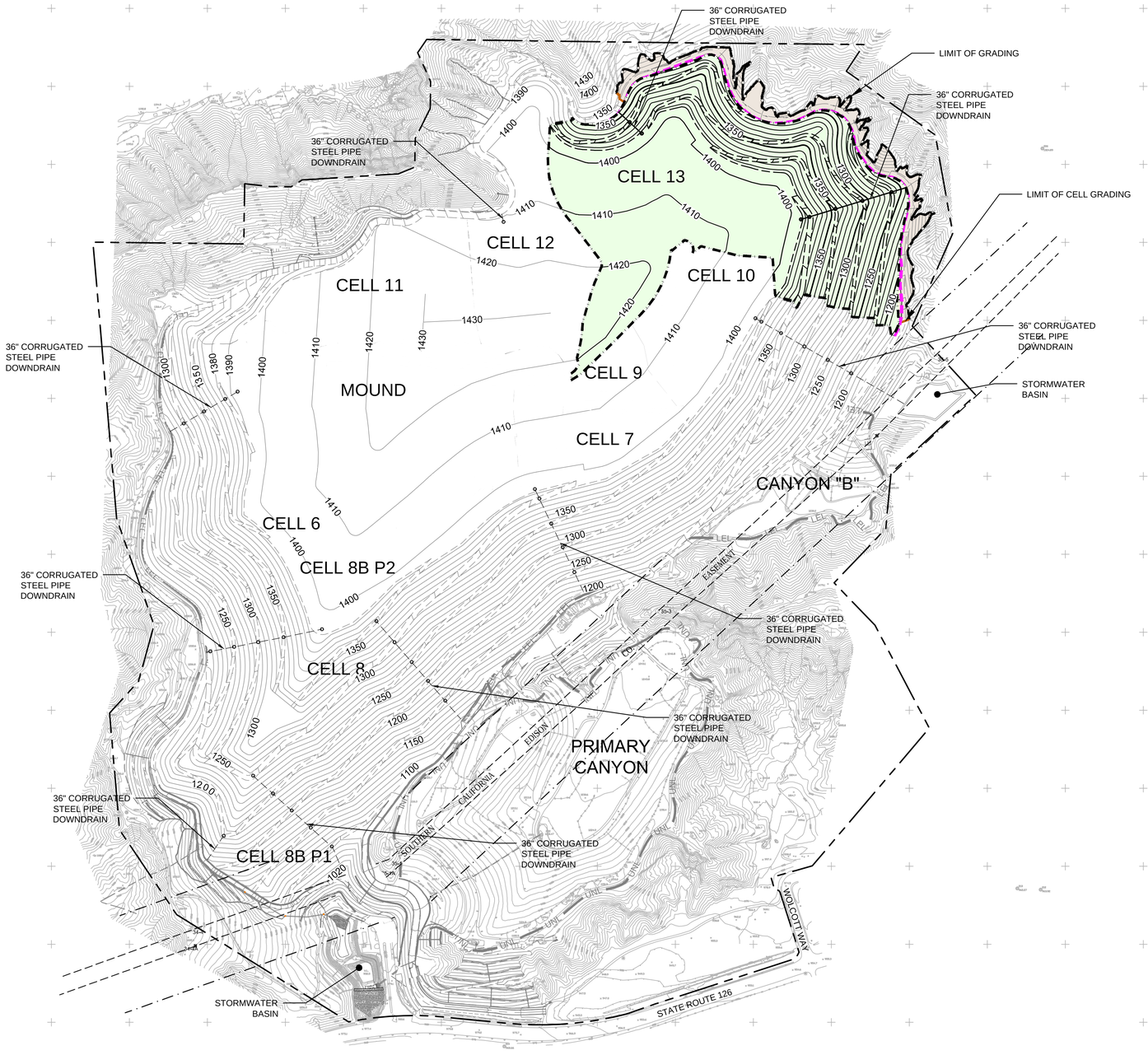
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

CELL 13 LINER PLAN

DWG NO. 22

PROJECT NO. 2013.0094

P:\SITES\CHIQUITA CYN_LF\FILL SEQUENCE PLANS - 2022\DWG SETS\FILL SEQUENCE PLANS\3017.1235-GCL-FSP-22-CELL 13 LINER PLAN.DWG January 6, 2022 - 1:32 PM BY: GLA-USER



LEGEND

- PROPERTY BOUNDARY
- LIMIT OF REFUSE PER EXHIBIT A JULY 28, 2017
- PROPOSED LINER LIMIT
- 1200 PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1190 PROPOSED 10 FEET CONTOUR WITH ELEVATION
- TEMPORARY SOIL STOCKPILE
- LEL LEL EXISTING LINER
- UNL UNL LIMIT OF UNLINED UNIT
- LINER INSTALLATION AREA
- GRADING AREA
- REFUSE FILL AREA
- LIMIT OF GRADING
- LIMIT OF CELL GRADING

NOTE:
ELEVATIONS INDICATED WITHIN LINER LIMITS ARE TOP OF LINER.

N

400' 0' 200' 400' 800'

SCALE: 1" = 400'

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CASTAIC, CALIFORNIA

CELL 13 FILL PLAN

DWG NO. 23
PROJECT NO. 2013.0094

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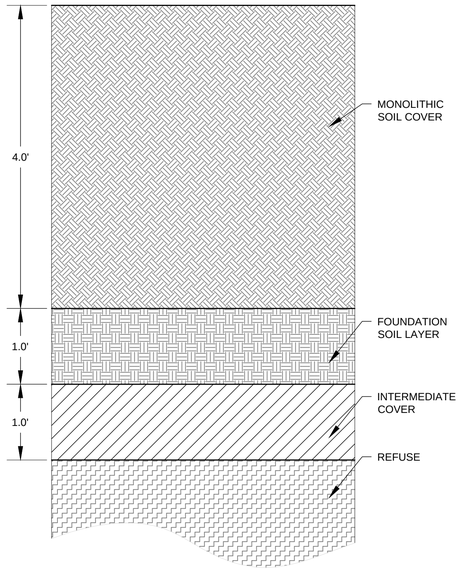
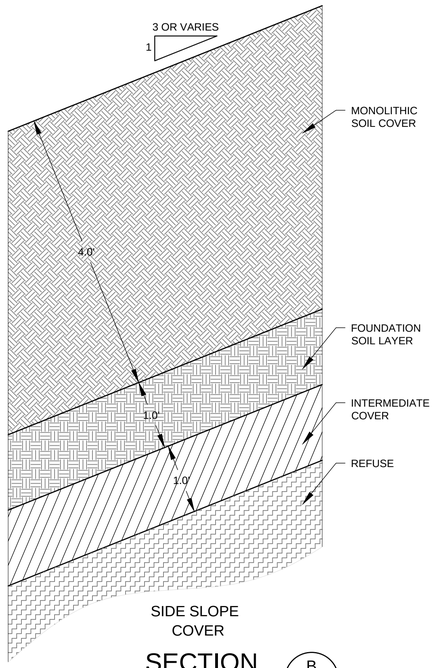


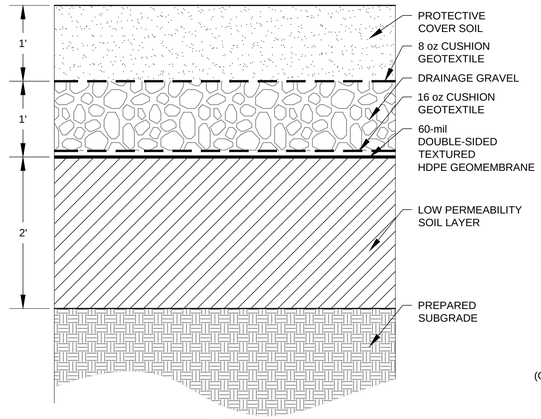
DECK AREA COVER

SECTION A — 1" = 1'



SIDE SLOPE COVER

SECTION B — 1" = 1'

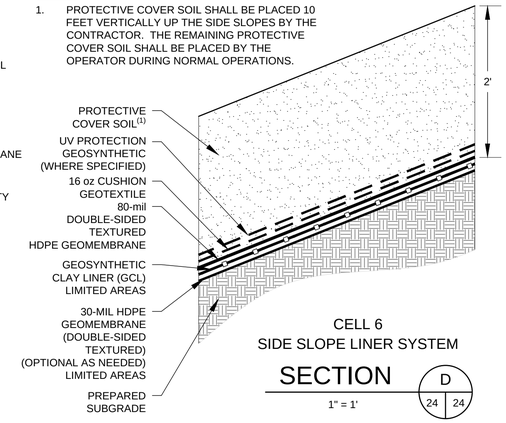


CELL 6
FLOOR LINER SYSTEM

SECTION C — 1" = 1'

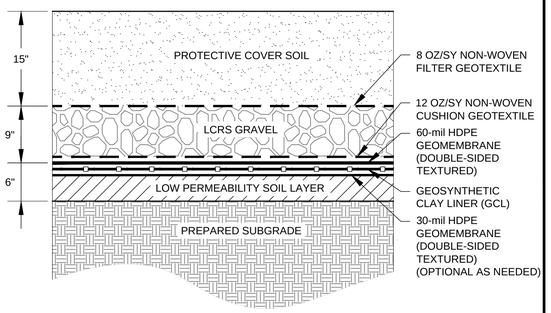
NOTES:

1. PROTECTIVE COVER SOIL SHALL BE PLACED 10 FEET VERTICALLY UP THE SIDE SLOPES BY THE CONTRACTOR. THE REMAINING PROTECTIVE COVER SOIL SHALL BE PLACED BY THE OPERATOR DURING NORMAL OPERATIONS.



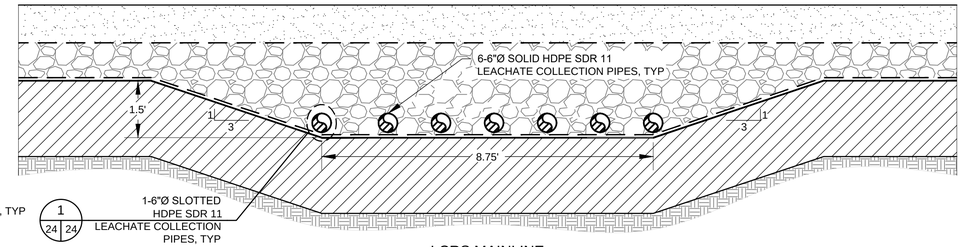
CELL 6
SIDE SLOPE LINER SYSTEM

SECTION D — 1" = 1'



FLOOR LINER SYSTEM
CELLS 7 - 13

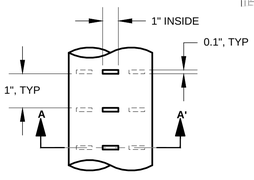
SECTION K — 1" = 1'

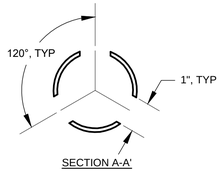


1 — 24 | 24 — 1-6"Ø SLOTTED HDPE SDR 11 LEACHATE COLLECTION PIPES, TYP

LCRS MAINLINE

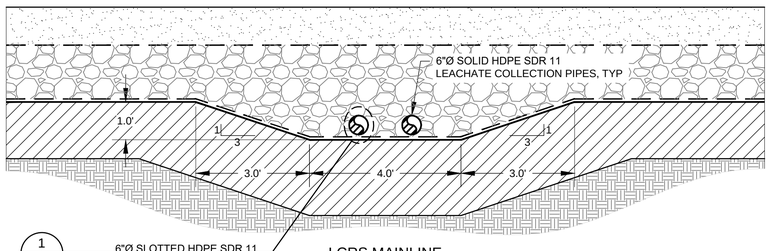
SECTION E — 1" = 2'





SLOTTED HDPE SDR 11
PIPE (3 SLOTS)

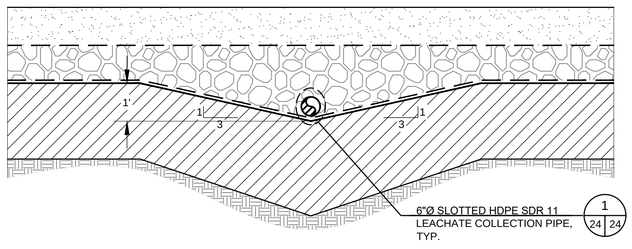
DETAIL 1 — NTS



1 — 24 | 24 — 6"Ø SLOTTED HDPE SDR 11 LEACHATE COLLECTION PIPES, TYP

LCRS MAINLINE

SECTION G — 1" = 2'



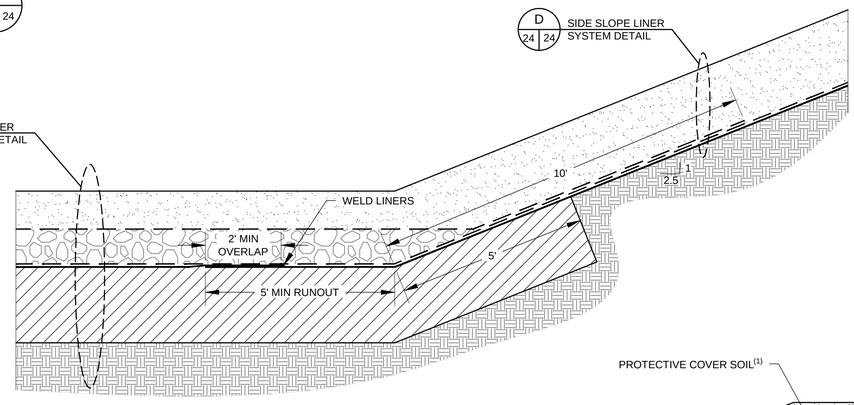
1 — 24 | 24

LCRS INTERCEPTOR

SECTION H — 1" = 2'

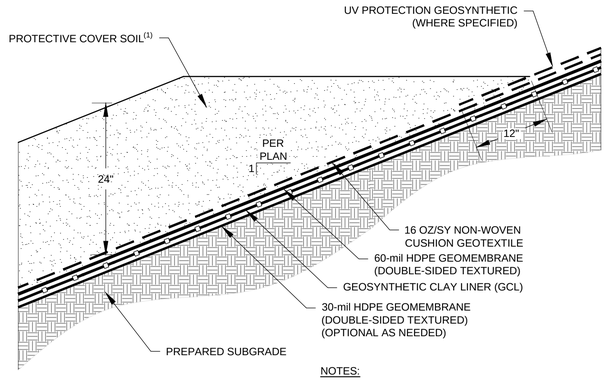
C — 24 | 24 — FLOOR LINER SYSTEM DETAIL

D — 24 | 24 — SIDE SLOPE LINER SYSTEM DETAIL



FLOOR TO SIDE SLOPE
LINER SYSTEM TRANSITION

SECTION F — 1" = 2'



NOTES:

1. PROTECTIVE COVER SOIL SHALL BE PLACED 10 FEET VERTICALLY UP THE SIDE SLOPES BY THE CONTRACTOR. THE REMAINING PROTECTIVE COVER SOIL SHALL BE PLACED BY THE OPERATOR DURING NORMAL OPERATIONS.

SIDE SLOPE LINER SYSTEM
CELLS 7 - 13

SECTION L — 1" = 1'

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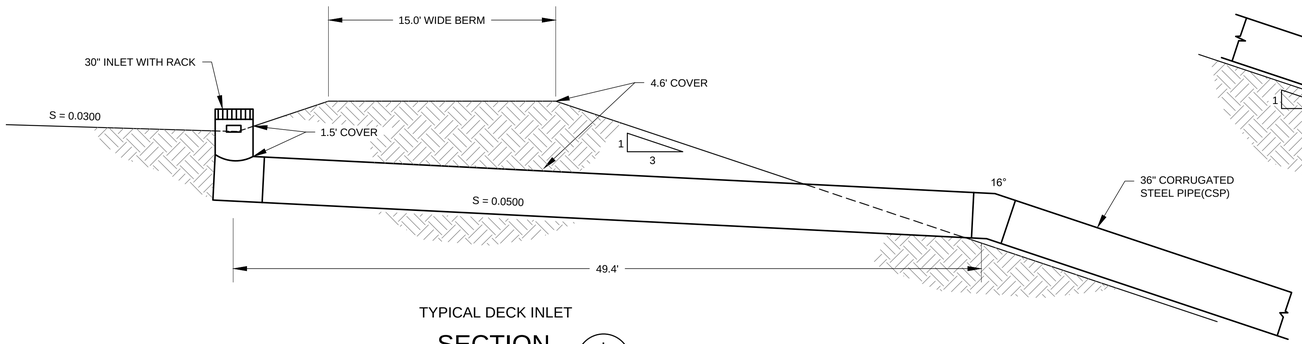
CASTAIC, CALIFORNIA

CELL DETAILS

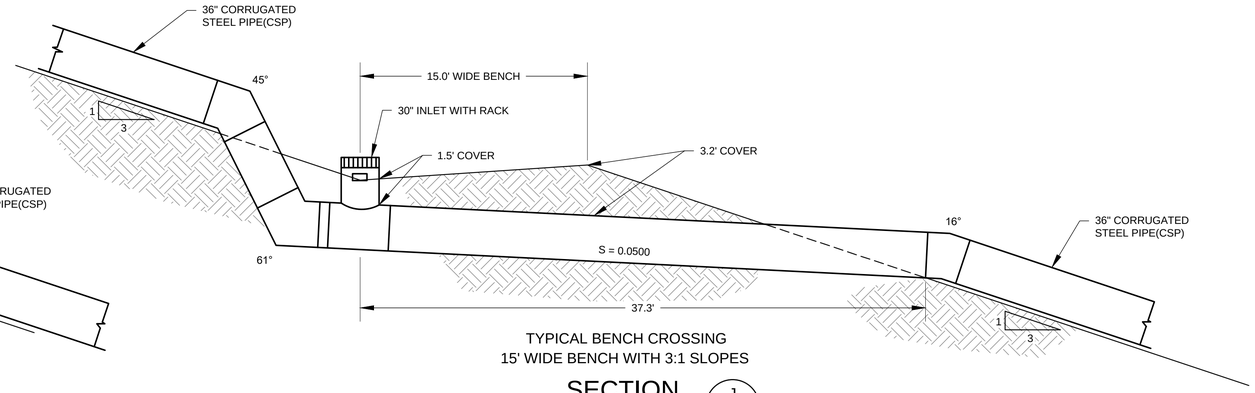
DWG NO. 24
PROJECT NO. 2013.0094

P:\SITES\CHIQUITA CYN LFY FILL SEQUENCE PLANS - 2022\DWG SETS\FILL SEQUENCE PLANS\5017.1235-CCL-FSP-24-CELL DETAILS.DWG January 6, 2022 - 1:32 PM BY: GLA-USER



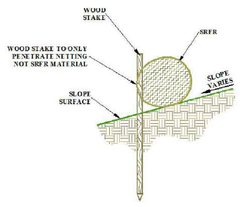
TYPICAL DECK INLET

SECTION I 1" = 5' - 25



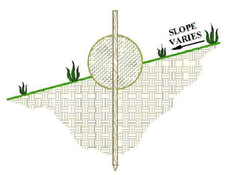
TYPICAL BENCH CROSSING
15' WIDE BENCH WITH 3:1 SLOPES

SECTION J 1" = 5' - 25



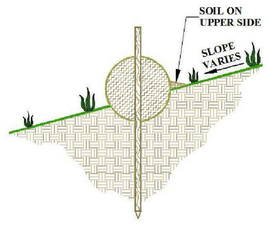
STAKE ON BARE SOIL

DETAIL 2 N.T.S. - 25



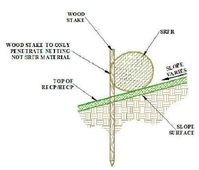
ENTRENCHMENT

DETAIL 3 N.T.S. - 25



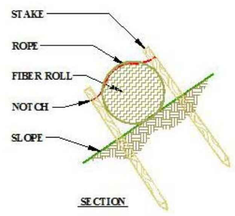
ENTRENCHMENT

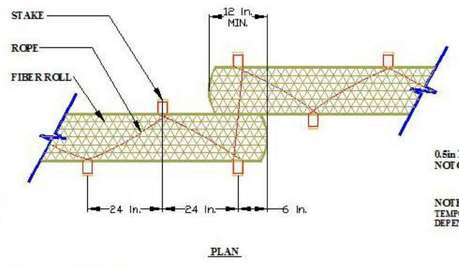
DETAIL 4 N.T.S. - 25



STAKE ON TOP OF ECB

DETAIL 5 N.T.S. - 25





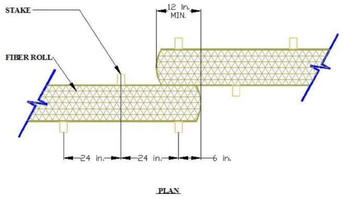
TEMPORARY SRFR

DETAIL 6 N.T.S. - 25



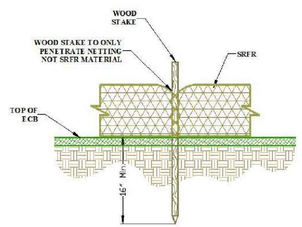
STAKE NOTCH

DETAIL 7 N.T.S. - 25



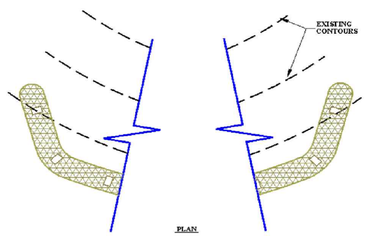
OVERLAPPING

DETAIL 8 N.T.S. - 25



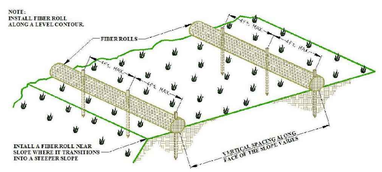
STAKE (FRONT VIEW)

DETAIL 9 N.T.S. - 25



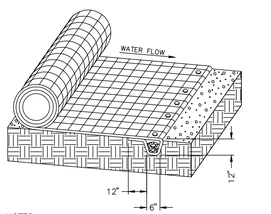
TERMINAL END

DETAIL 10 N.T.S. - 25



FIBER ROLL INSALLATION (TYPICAL)

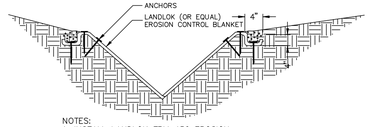
DETAIL 11 N.T.S. - 25



NOTES:
1. SECURE AT 12" INTERVALS, BACKFILL AND COMPACT SOIL

TERMINAL ANCHOR TRENCH
BLANKET ANCHOR

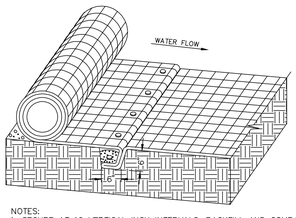
DETAIL 12 N.T.S. - 25



NOTES:
1. INSTALL LANDLOK TRM 450 EROSION CONTROL BLANKET (OR EQUAL) AND SOIL FILL.
2. SECURE LONGITUDINAL ANCHOR TRENCH AT 12" INTERVALS, BACKFILL AND COMPACT SOIL

CHANNEL ANCHOR (PROPFILE)
BLANKET ANCHOR

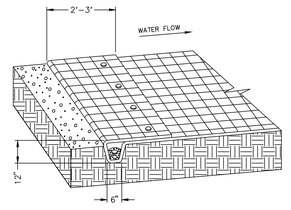
DETAIL 13 N.T.S. - 25



NOTES:
1. SECURE AT 12 VERTICAL INCH INTERVALS, BACKFILL AND COMPACT SOIL

INTERMITTENT CHECK SLOT
BLANKET ANCHOR

DETAIL 14 N.T.S. - 25



NOTES:
1. SECURE AT 12" INTERVALS, BACKFILL AND COMPACT SOIL

INITIAL ANCHOR TRENCH
BLANKET ANCHOR

DETAIL 15 N.T.S. - 25

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CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

DRAINAGE & EROSION CONTROL DETAILS

DWG NO. 25

PROJECT NO. 2013.0094

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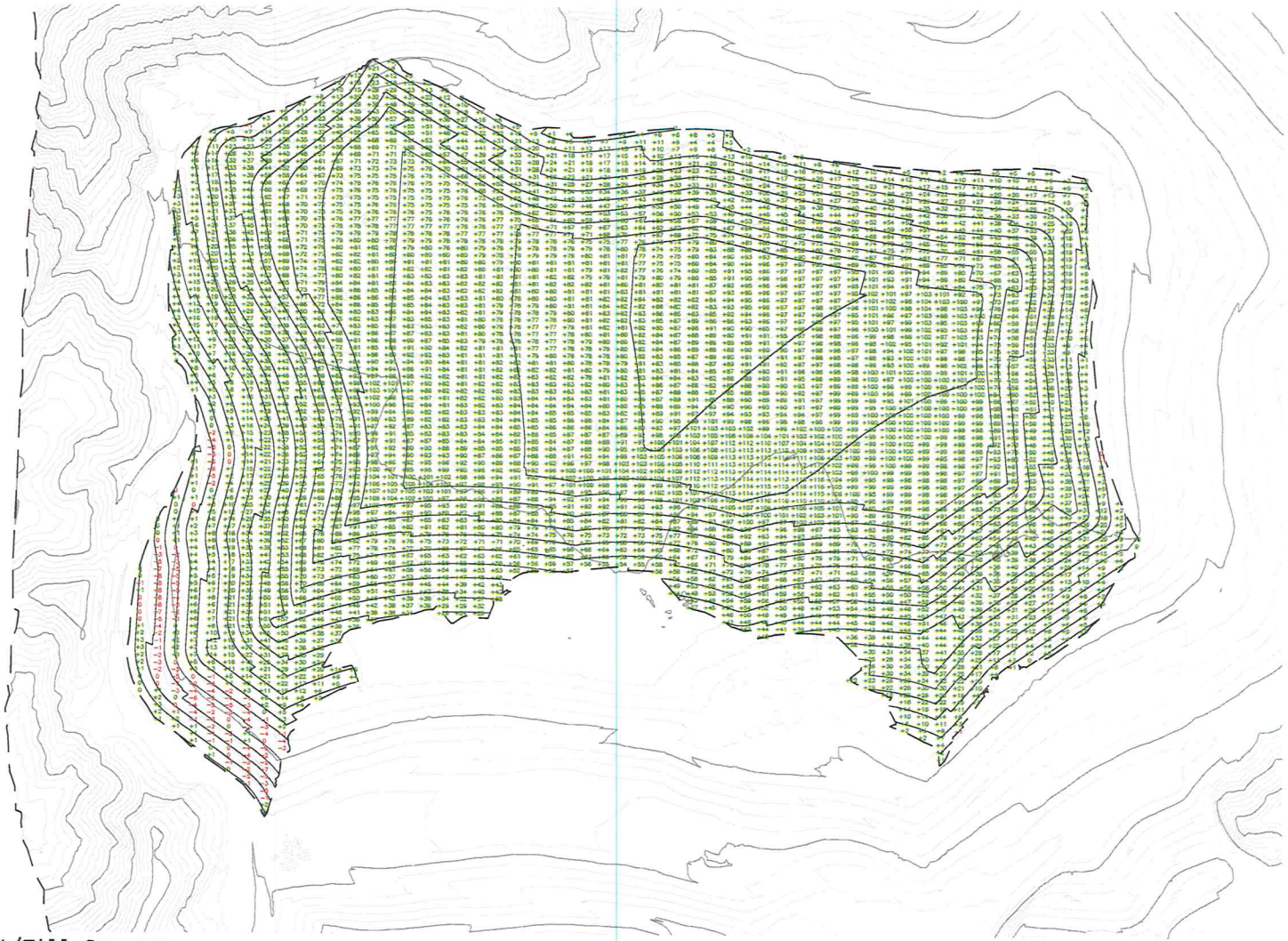
ATTACHMENT B

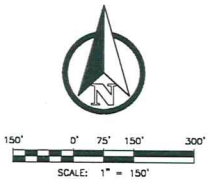
REMAINING CAPACITY CALCULATIONS

CCL FILL SEQUENCE PLAN

Attachment B - Remaining Capacity Calculations

Expansion Cell	Description	Gross Airspace
Existing Mound	All lined units A, C, D, 1-5	8,286,695
6	Cell 6 - limited to south by offset from maintenance facility	9,782,188
8A	Cell 8A - phased for inbound traffic considerations	3,803,500
8B P1	Cell 8B P1 - remaining South Expansion Area and completion of the South Terminal Berm and realigned customer access road unites with deck for 8A fill	2,769,574
8B P2	Cell 8B - completes fill in Cell 8 liner	3,455,745
7	SW 1/4 of East Expansion adjacent to Canyon B fill, builds west 1/2 of East Terminal Berm	7,695,036
9	NW 1/4 of East Expansion limited to north by Drainage Bench	4,546,195
10	East 1/2 of East Expansion limited to east by Drainage Bench, completes east 1/2 of East Terminal Berm	11,470,176
11	NW 1/3 of North Expansion will be utilized as an interim stockpile area	2,551,133
12	Middle 1/3 of North Expansion will be utilized as an interim stockpile area	3,366,011
13	NE 1/3 of North Expansion and remaining East Expansion area to permit limits	5,917,416
	Total of Cells:	**63,643,669**

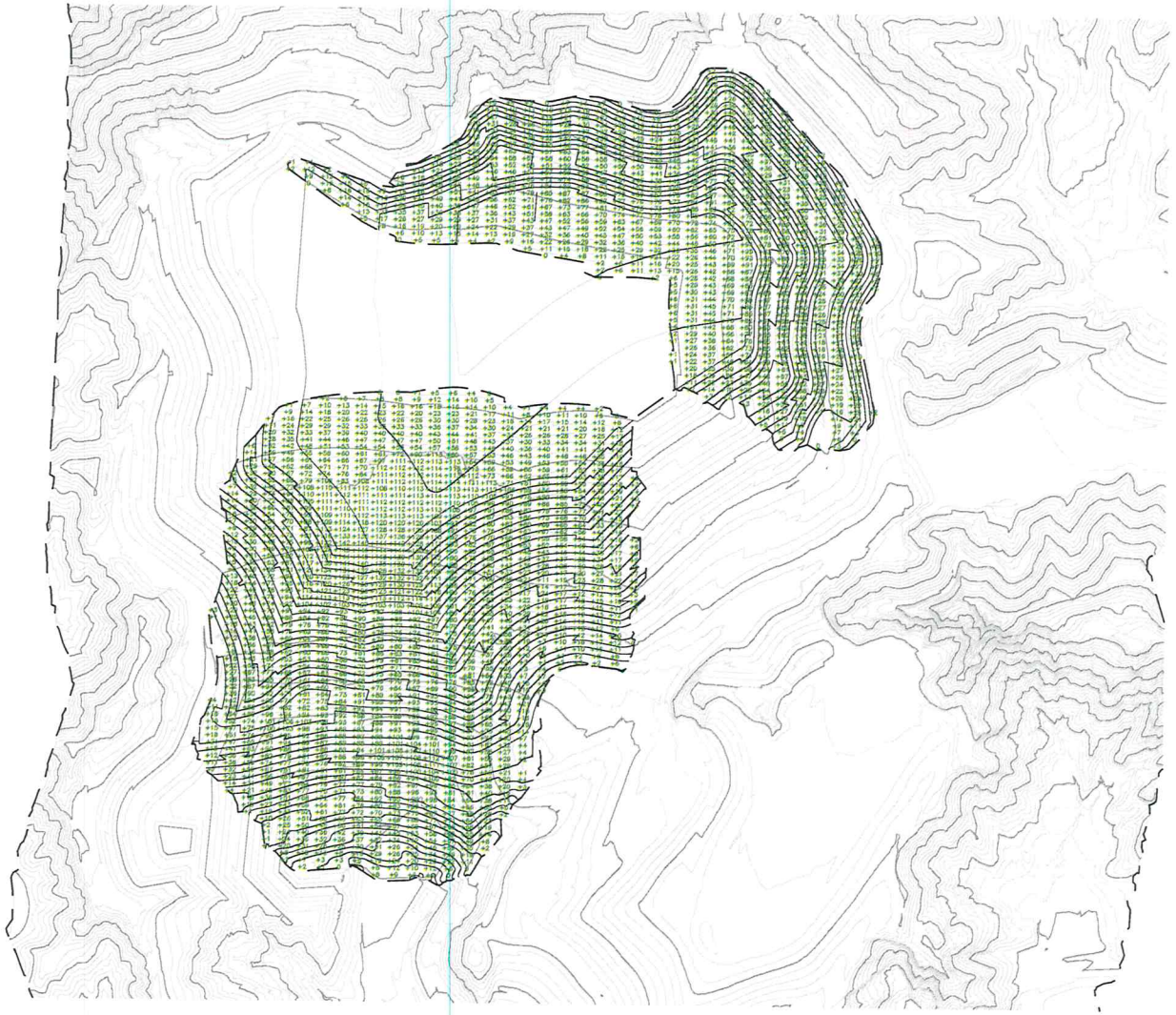


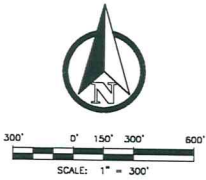


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-MOUND-(2021-11-12)	1.000	1.000	3840759.39 Sq. Ft.	12795.00 Cu. Yd.	8299489.47 Cu. Yd.	8286694.47 Cu. Yd.<Fill>
Totals			3840759.39 Sq. Ft.	12795.00 Cu. Yd.	8299489.47 Cu. Yd.	8286694.47 Cu. Yd.<Fill>

CCL-XHBT-MOUND-VOLUME-(2021-11-11).DWG

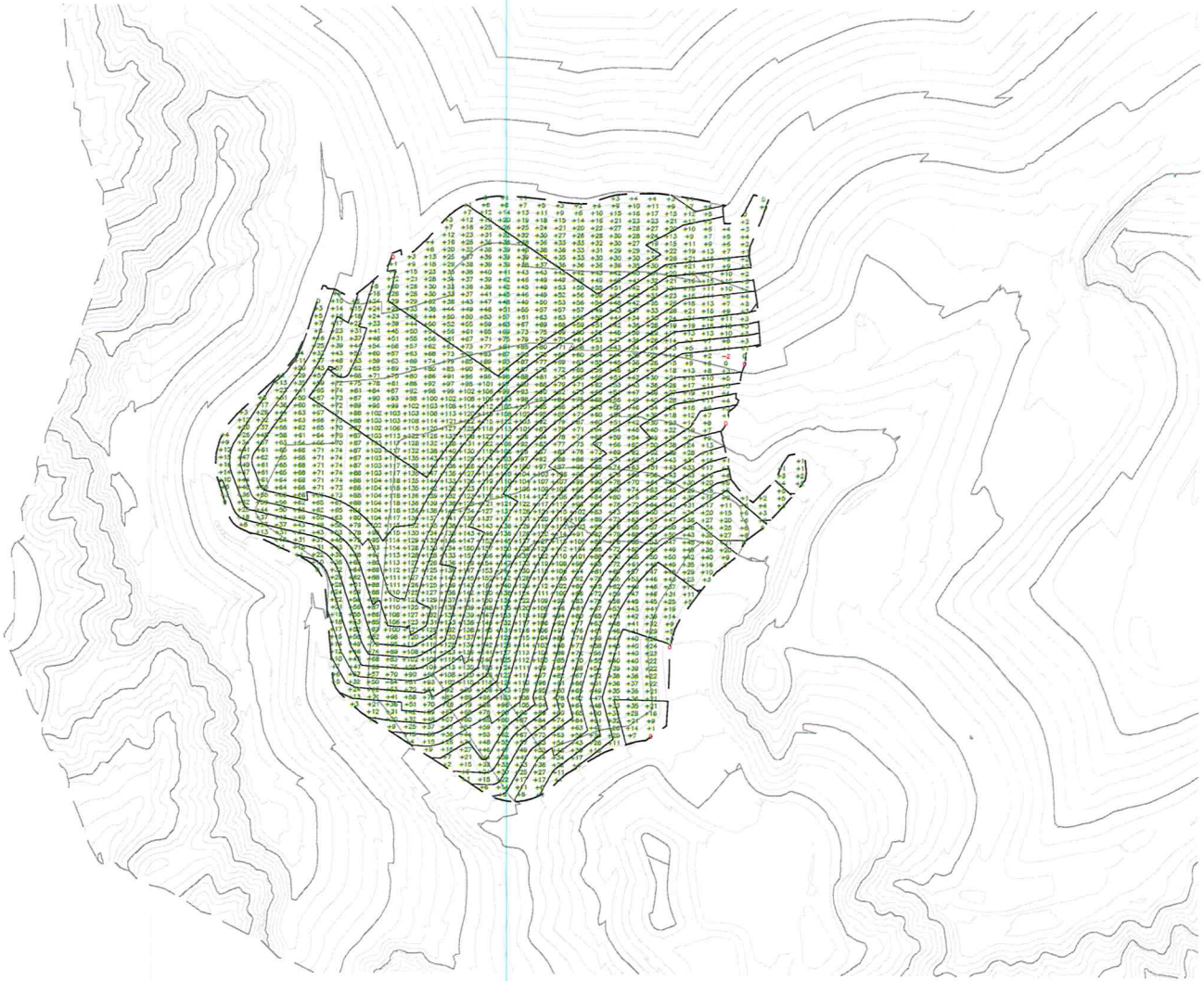




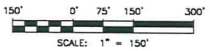
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 6 FILL-CONCEPT-(2021-11-11)	1.000	1.000	5213849.83 Sq. Ft.	1948.96 Cu. Yd.	9782188.22 Cu. Yd.	9780239.25 Cu. Yd.<Fill>
Totals			5213849.83 Sq. Ft.	1948.96 Cu. Yd.	9782188.22 Cu. Yd.	9780239.25 Cu. Yd.<Fill>

CCL-XHBT-CELL 6 FILL-VOLUME-(2021-11-11).DWG





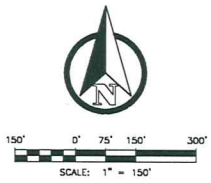


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 8A FILL-CONCEPT-(2021-11-11)	1.000	1.000	1677531.49 Sq. Ft.	160.37 Cu. Yd.	3803500.81 Cu. Yd.	3803340.44 Cu. Yd.<Fill>
Totals			1677531.49 Sq. Ft.	160.37 Cu. Yd.	3803500.81 Cu. Yd.	3803340.44 Cu. Yd.<Fill>

CCL-XHBT-CELL 8A FILL-VOLUME-(2021-11-11).DWG



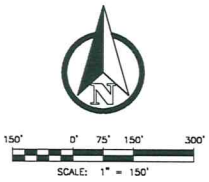


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 8BPH1 FILL-CONCEPT-(2021-11-11)	1.000	1.000	1912065.63 Sq. Ft.	343.95 Cu. Yd.	2769574.00 Cu. Yd.	2769230.06 Cu. Yd.<Fill>
Totals			1912065.63 Sq. Ft.	343.95 Cu. Yd.	2769574.00 Cu. Yd.	2769230.06 Cu. Yd.<Fill>

CCL-XHBT-CELL 8BPH1 FILL-VOLUME-(2021-11-11).DWG





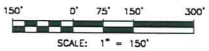
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 8BPH2 FILL-CONCEPT-(2021-11-11)	1.000	1.000	1986414.19 Sq. Ft.	1.41 Cu. Yd.	3455745.44 Cu. Yd.	3455744.04 Cu. Yd.<Fill>
Totals			1986414.19 Sq. Ft.	1.41 Cu. Yd.	3455745.44 Cu. Yd.	3455744.04 Cu. Yd.<Fill>

CCL-XHBT-CELL 8BPH2 FILL-VOLUME-(2021-11-11).DWG





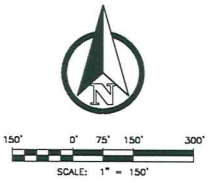


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 7 FILL-CONCEPT-(2021-11-11)	1.000	1.000	2588981.52 Sq. Ft.	23.39 Cu. Yd.	7695036.83 Cu. Yd.	7695013.44 Cu. Yd.<Fill>
Totals			2588981.52 Sq. Ft.	23.39 Cu. Yd.	7695036.83 Cu. Yd.	7695013.44 Cu. Yd.<Fill>

CCL-XHBT-CELL 7 FILL-VOLUME-(2021-11-11).DWG

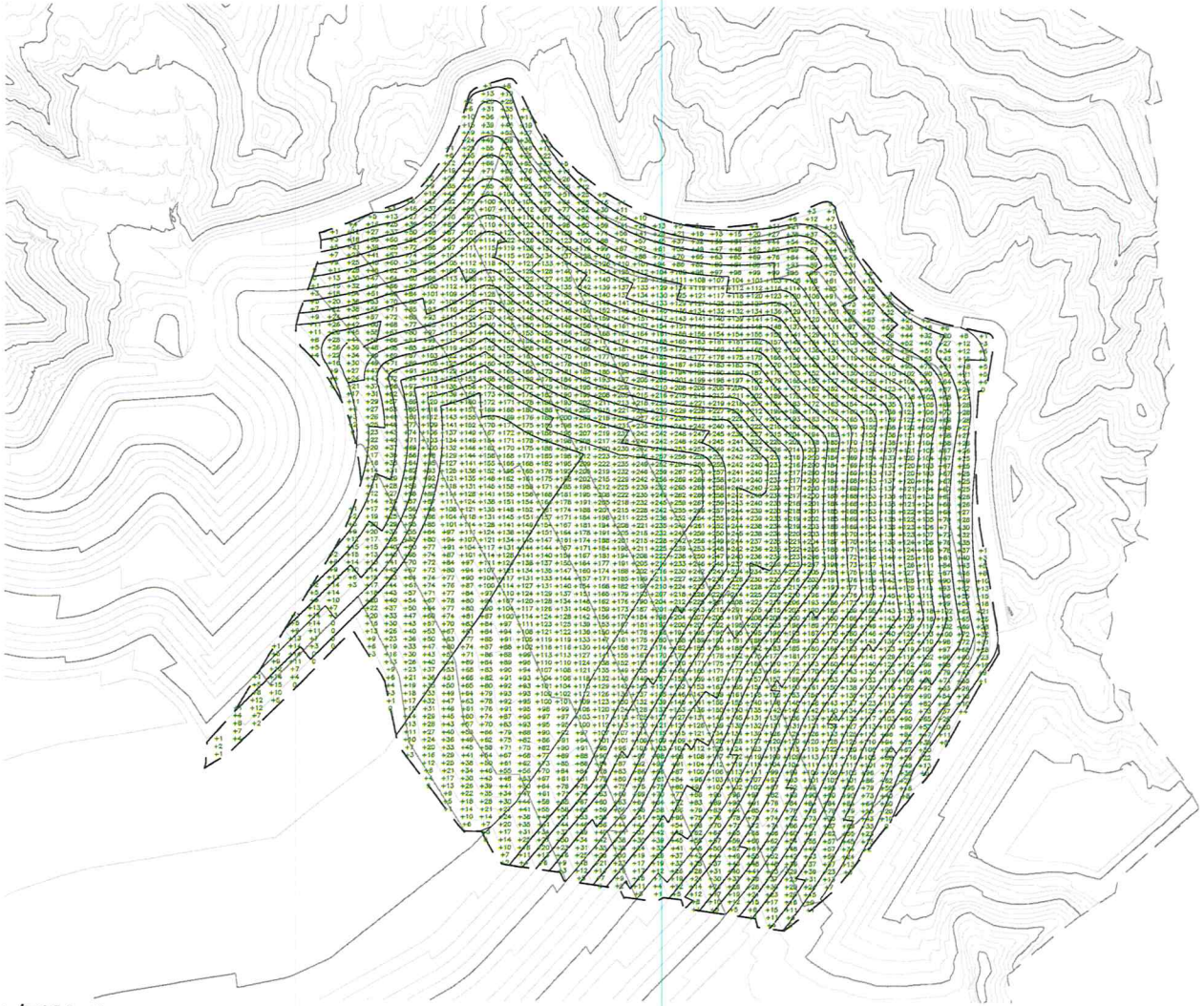




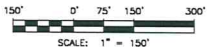
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 9 FILL-CONCEPT-(2021-11-11)	1.000	1.000	1629098.91 Sq. Ft.	2807.87 Cu. Yd.	4546195.18 Cu. Yd.	4543387.31 Cu. Yd.<Fill>
Totals			1629098.91 Sq. Ft.	2807.87 Cu. Yd.	4546195.18 Cu. Yd.	4543387.31 Cu. Yd.<Fill>

CCL-XHBT-CELL 9 FILL-VOLUME-(2021-11-11).DWG



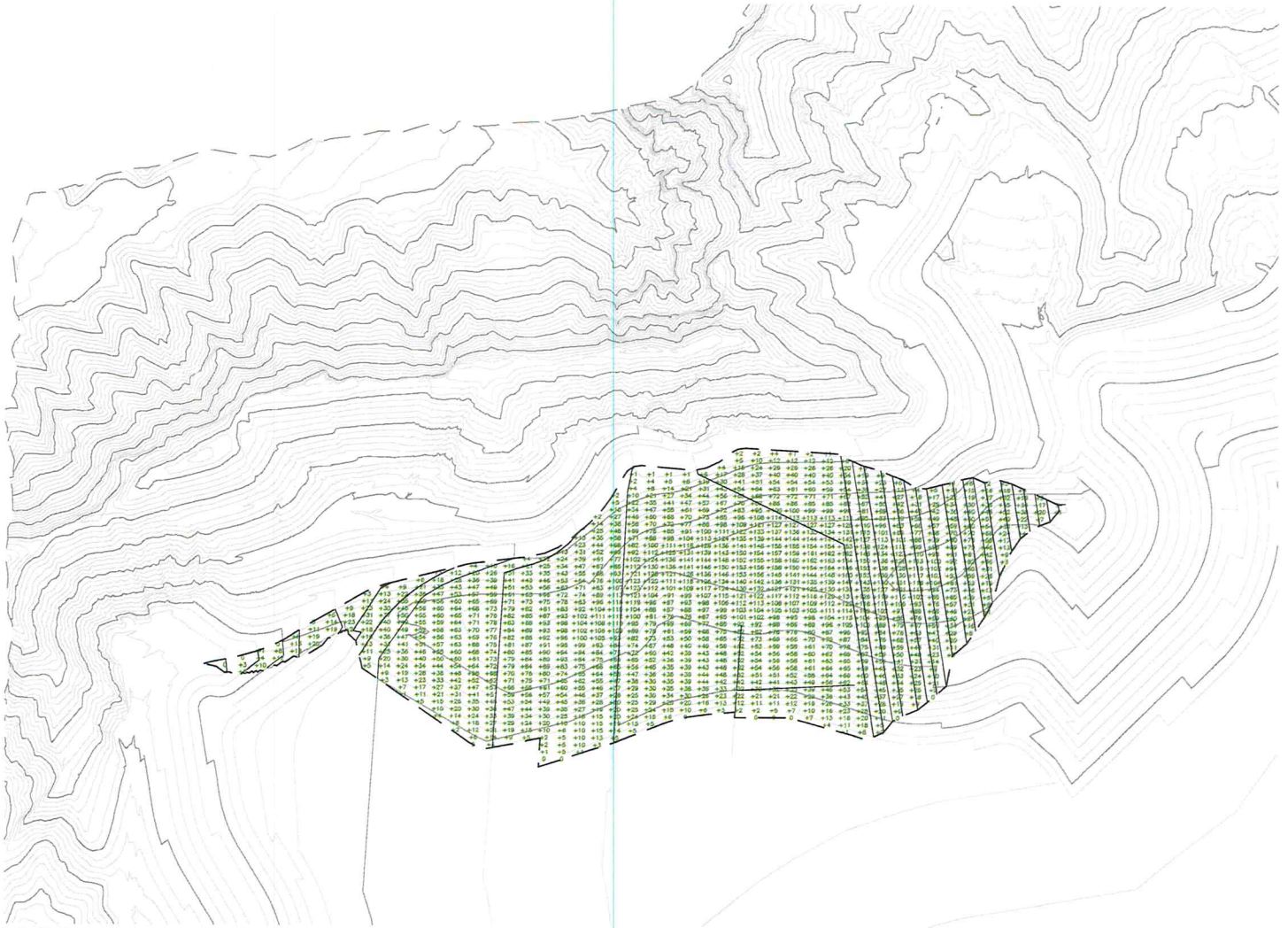




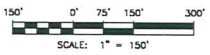
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 10 FILL-CONCEPT-(2021-11-11)	1.000	1.000	2837531.78 Sq. Ft.	3.67 Cu. Yd.	11470176.21 Cu. Yd.	11470172.54 Cu. Yd.<Fill>
Totals			2837531.78 Sq. Ft.	3.67 Cu. Yd.	11470176.21 Cu. Yd.	11470172.54 Cu. Yd.<Fill>

CCL-XHBT-CELL 10 FILL-VOLUME-(2021-11-11).DWG



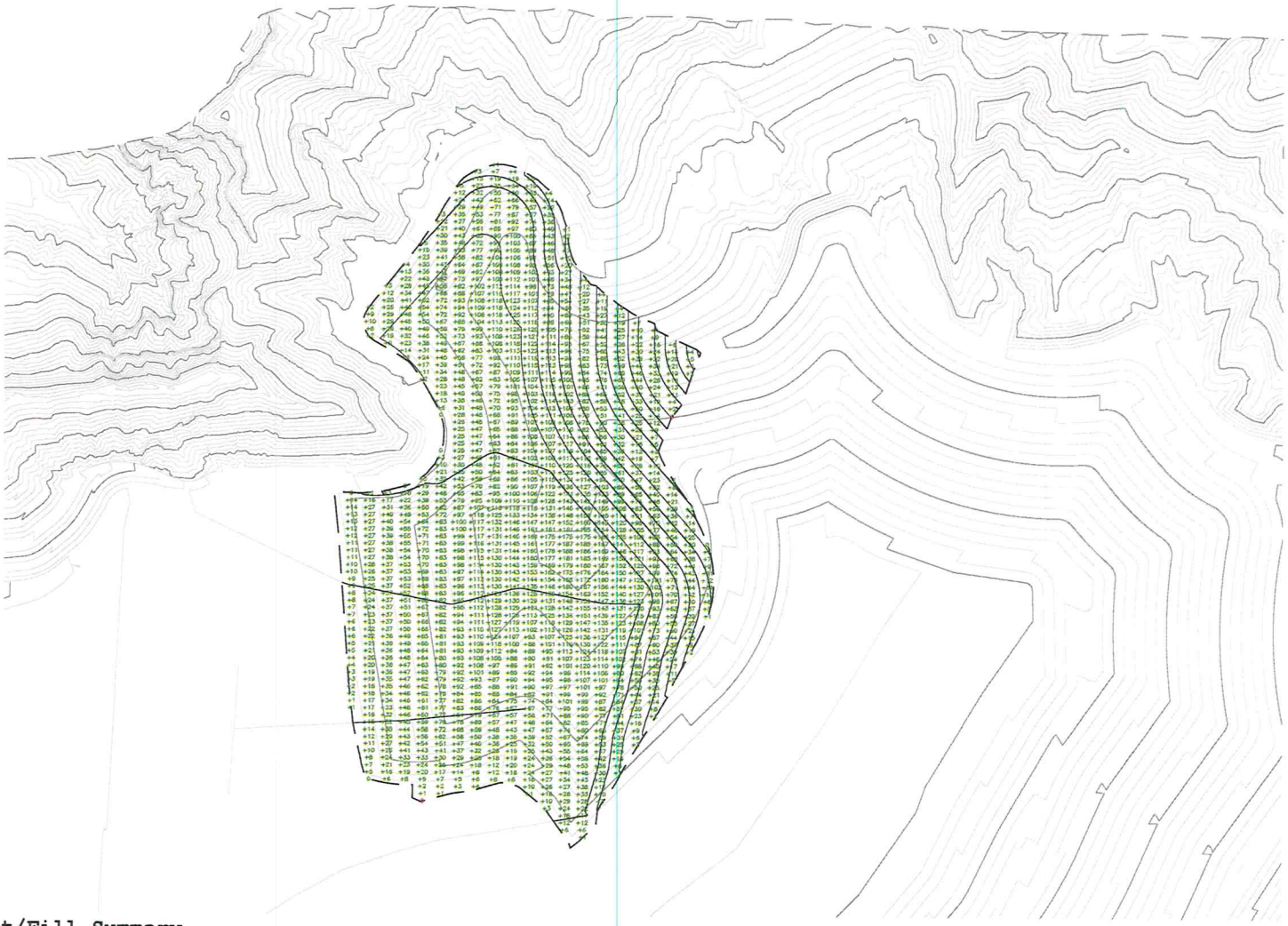




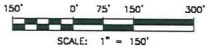
Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 11 FILL-CONCEPT-(2021-11-11)	1.000	1.000	1131956.91 Sq. Ft.	5.10 Cu. Yd.	2551133.41 Cu. Yd.	2551128.30 Cu. Yd.<Fill>
Totals			1131956.91 Sq. Ft.	5.10 Cu. Yd.	2551133.41 Cu. Yd.	2551128.30 Cu. Yd.<Fill>

CCL-XHBT-CELL 11 FILL-VOLUME-(2021-11-11).DWG



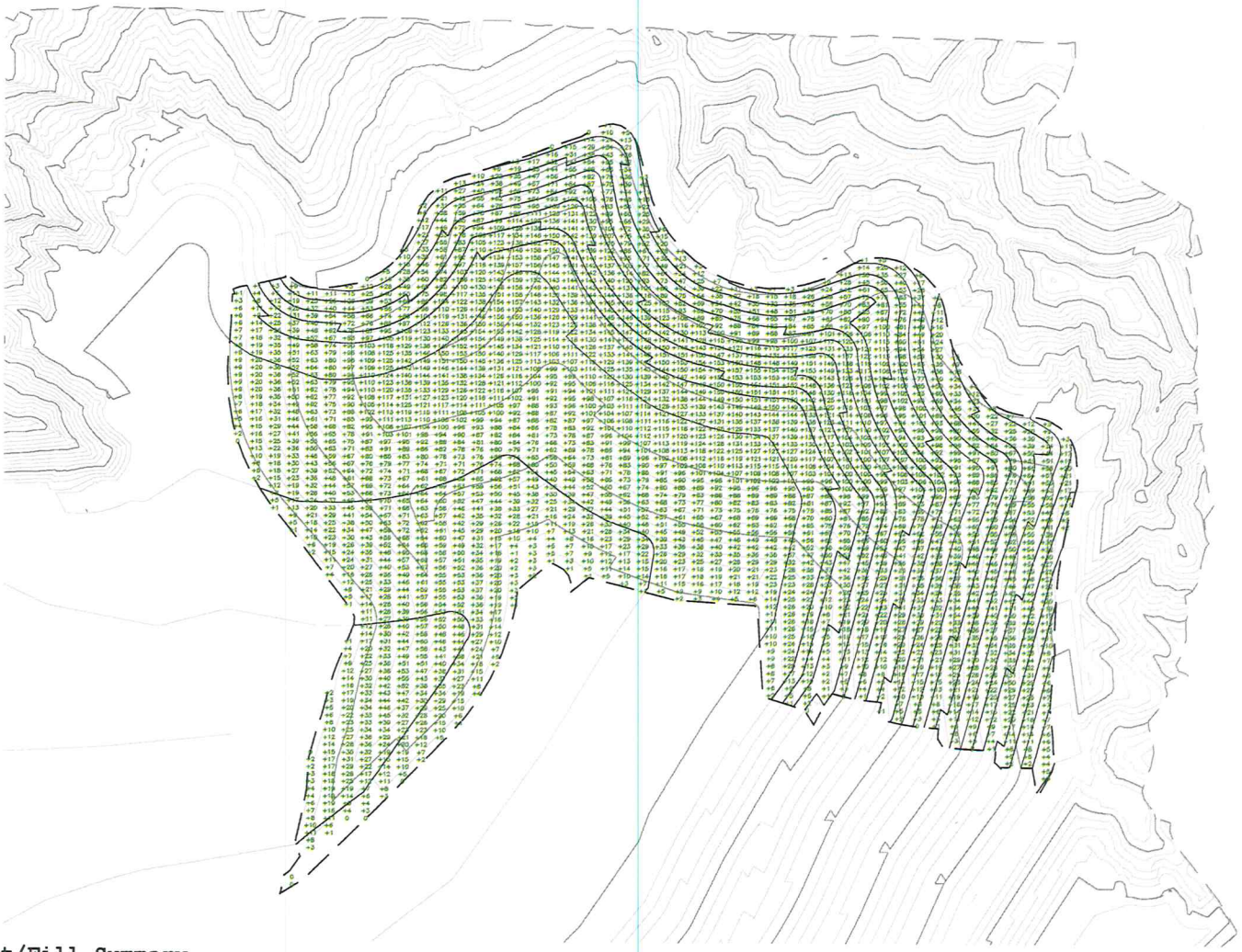


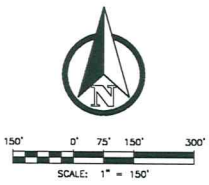


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 12 FILL-CONCEPT-(2021-11-11)	**1.000**	**1.000**	1335123.00 Sq. Ft.	28.04 Cu. Yd.	3366011.42 Cu. Yd.	3365983.39 Cu. Yd.<Fill>
Totals			1335123.00 Sq. Ft.	28.04 Cu. Yd.	3366011.42 Cu. Yd.	3365983.39 Cu. Yd.<Fill>

CCL-XHBT-CELL 12 FILL-VOLUME-(2021-11-11).DWG





Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
CCL-SFVO-CELL 13 FILL-CONCEPT-(2021-11-11)	1.000	1.000	2534273.50 Sq. Ft.	76.05 Cu. Yd.	5917416.45 Cu. Yd.	5917340.41 Cu. Yd.<Fill>
Totals			2534273.50 Sq. Ft.	76.05 Cu. Yd.	5917416.45 Cu. Yd.	5917340.41 Cu. Yd.<Fill>

CCL-XHBT-CELL 13 FILL-VOLUME-(2021-11-11).DWG

ATTACHMENT C

INTERIM FILL STABILITY CALCULATIONS

Geo-Logic ASSOCIATES

October 5, 2020

Mr. Steve Cassulo
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384

CELL 8 LINER AND WASTE FILL STABILITY EVALUATION
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

Dear Mr. Cassulo:

1.0 INTRODUCTION

This Technical Report was prepared by Geo-Logic Associates, Inc. (GLA) to summarize the results of liner and waste fill stability analyses for Cell 8 at the Chiquita Canyon Landfill (CCL) in Castaic, California. The geology of the site and stability of cut slopes and engineered fills associated with Cell 8 are addressed in the Cell 8 Geotechnical Design Report that was prepared by R.T. Frankian & Associates (RTFA, 2020). Cell 8 has been designed by Tetra Tech BAS (TTBAS) and drawings for the project are included in Attachment 1.

The CCL is a Class III solid waste disposal facility approximately three miles west of Castaic Junction in Los Angeles County, California. Currently permitted landfill operations at the waste management facility encompass approximately 257 acres of the 639-acre site. The waste management facility is comprised of three waste management units: the primary canyon landfill area; Canyon B; and Canyons A, C, and D. The primary canyon and Canyon B have been filled and Canyon C is currently being filled. Cell 8 is an interim stage of site development that includes construction of a Subtitle D containment system at the locations shown in Figure 1.

2.0 PURPOSE AND SCOPE OF EVALUATION

The purpose of the stability evaluations described in this letter report was to evaluate the static and seismic stability of the Cell 8 liner system under the designed fill conditions. Although Cell 8 is an interim stage of site development, it represents the terminal cell at the southern limit of the disposal area and the waste fill associated with this cell represents final conditions. The scope of work performed to meet this objective included:

- Review of the proposed Cell 8 base grading and refuse fill plan and selection of representative cross sections for analysis.

- Review of existing data for previous phases of construction and identification of material properties for use in analysis.
- Completion of an updated seismic hazard evaluation for the site based on current fault information and ground motion prediction equations (GMPEs).
- Completion of static and seismic stability analyses.
- Preparation of this letter report summarizing the results of the analyses.

The evaluations summarized below were focused and considered sliding of the Cell 8 waste fill only. Subsurface investigation and laboratory testing were outside the scope of this study and were not performed. Because all of the Cell 8 properties used for analysis were assumed, testing is essential to confirm that the materials used for construction will meet or exceed the material strengths specified for the project and/or that the Cell 8 refuse fill configuration will meet applicable stability criteria.

3.0 SITE CHARACTERISTICS

3.1 Regional Geology

CCL is located at the eastern end of the Ventura Basin within the Transverse Ranges geomorphic province. The site is in the eastern portion of the Santa Clara River drainage basin, immediately west of the confluence with Castaic Creek. Regional topography ranges from resistant dip-slope ridges to rounded hills and elevated, gently inclined alluvial terraces. Sedimentary rock units at and near the site are the Pliocene age Pico Formation and the Plio-Pleistocene age Saugus Formation. Other geologic materials exposed near the site include terrace deposits of Pleistocene age and Holocene alluvium mantling the valley floor. Three landslide-related deposits that range from about 5- to 40-feet thick have been identified at the site, including debris flows, recent landslides, and older landslide deposits (EMCON Associates, 1997).

3.2 Site Geology

Geologic units mapped at the site include (Shaw Environmental, Inc.):

- Alluvial Deposits. Holocene alluvial deposits are associated with ephemeral-stream drainages that transect the site and consist of poorly stratified and unconsolidated gravel, sand, silt, and clay occurring within channels and on floodplains of active streams. Older alluvial deposits have soil types similar to the younger Holocene alluvium but occur as isolated terraces along the southern and eastern margins of the project site.
- Slope Failure Deposits. Slope failure deposits identified at the site include debris flow deposits, recent landslides, and older landslides. The debris flow deposits are a

mixture of rock fragments within a matrix of unconsolidated sand, silt, and clay and generally occur within ravines and on slopes steeper than approximately 2:1 (horizontal: vertical). Recent landslide deposits occur throughout the project site and appear to be primarily associated with poorly indurated stratigraphic intervals of the Saugus and Pico Formations. These deposits are range from about 5 to 120 feet thick and are usually identified by relatively well-defined scarps, hummocky topography, or fissures within the slump mass. Older landslide deposits typically occur near the base of slopes and are similar to recent landslides, with the exception of being more deeply weathered.

- Saugus Formation. The upper Pliocene to Pleistocene Saugus Formation comprises approximately 80 percent of the bedrock exposures at the site. The formation is characterized by rolling hills in the west, to steep cliffs in the southeast portion of the study area. Upper portions of the formation have been removed by erosion throughout the area, with a maximum remaining thickness of approximately 1,800 feet. The formation consists of poorly-to moderately indurated, interbedded sandstone, conglomerate, siltstone, and mudstone. Sandstone strata are principally planar-bedded to cross-bedded, fine- to medium-grained, and contain 10 to 50 percent fines. These beds have a low hardness or are friable, yet local calcite-cemented strata produce hard, well-defined ledges. Conglomerate strata occur primarily in the southern half of the site as lenticular, discontinuous beds encapsulated within fine- to medium-grained sandstone. Mudstone intervals typically have soft to low hardness, are locally highly plastic, and individual beds are massive-to finely laminated.

- Pico Formation. The Pliocene Pico Formation is exposed in the northern portion of the site as steep, resistant dip slopes and cliffs. Soft, interbedded offshore-marine siltstone and mudstone, which locally contain thin stringers of sandstone, characterize the upper 200 to 300 feet of the formation. Three laterally continuous beds of coquina (fossil-rich limestone), containing abundant bivalve and echinoid fossils, form ridge capping ledges beneath the siltstone and mudstone interval. Fine-to coarse-grained sandstone is interbedded with the coquina limestone ledges and characterizes the lower half of the exposed Pico Formation stratigraphy. These sandstone beds, which contain some mudstone and siltstone intervals, are of low to moderate hardness and represent nearshore marine to nonmarine depositional settings. Laterally discontinuous boulder and cobble conglomerate lenses are found locally near the top of the sandstone units.

3.3 Hydrogeology

The low-permeability Saugus and Pico Formations and the higher-permeability valley floor alluvium of the Santa Clara River valley form two distinctive hydrogeologic systems near the CCL. The two systems are interconnected where saturated alluvium directly overlies the bedrock although at the landfill, groundwater has only been encountered in the bedrock (Shaw Environmental 2009). Recharge to the aquifer systems occurs primarily through precipitation. During periods of precipitation, the higher-permeability alluvial aquifer system is recharged from hillside runoff. Recharging the alluvial aquifer, in turn, slowly recharges the underlying bedrock aquifer. The quantity of bedrock recharge is low, however, because of the regionally high evapotranspiration and subsurface outflow rates. More groundwater flows down canyon through the alluvium than infiltrates the underlying bedrock.

Groundwater is found beneath the site in the sedimentary bedrock of the Saugus and Pico formations but is not present in the relatively thin alluvial deposits that are restricted to canyon floors (RTFA, 2016). The Pico Formation lies stratigraphically beneath the Saugus Formation and the Pico Formation groundwater is under confined conditions due to the low permeability of the overlying mudstone and siltstone sequences. Beneath most of the site, the uppermost water-bearing unit is the Saugus Formation and the depths to groundwater range from approximately 33 feet to 345 feet below the ground surface in site monitoring wells. Groundwater in the Pico Formation ranges from about 72 feet to 335 feet below the ground surface on the slope of the northwest ridgeline (RTFA, 2016).

3.4 Faulting and Seismicity

Waste Discharge Requirements (WDRs) Order R4-2018-0172 requires:

> *"Landfill refuse slopes shall be designed pursuant to the requirements in 27 CCR and constructed in a manner that will resist settlement and prevent failure during an MPE for interim slopes, or an MCE for final refuse slopes. Critical slopes shall be designed to have an FOS no less than 1.5. If a Newmark-type seismic deformation analysis is used in lieu of achieving an FOS of no less than 1.5, the calculated permanent seismic deformation must not exceed six (6) inches for liner systems and must not exceed 36 inches for the final cover."*[1]

[1] Title 27 CCR requires Class III landfills be designed to withstand ground motions associated with the maximum probable earthquake (MPE). However, the CCL WDRs specifies: "*Section 20370 of 27 CCR requires that MSW units be designed to withstand a maximum probable earthquake (MPE) without damage to the foundation or to the structures which control leachate, surface drainage, or erosion, or gas. This Regional Board requires that all final MSW Landfill refuse fills must be designed to withstand a maximum credible earthquake (MCE) to prevent failure of the refuse fill during the postclosure maintenance period*." The refuse fill associated with Cell 8 represents final fill conditions.

Title 27 defines the MCE as the maximum earthquake that appears capable of occurring under the presently known geologic framework of the site area, and further notes that in determining the MCE, little regard is given to its probability of occurrence except that its likelihood of occurring is great enough to be of concern.

A site-specific seismic hazard evaluation was previously completed for the CCL in about 2006. Since then, the parameters for faults potentially significant to the site have been updated by the U.S. Geological Survey (USGS) and California Geological Survey (CGS) and the GMPEs used to evaluate site-specific ground motions have been updated twice (in 2008 and 2014) as new data became available. Therefore, to incorporate this newer information and better characterize site ground motions, an updated deterministic seismic hazard evaluation for the site was completed using the recent USGS and CGS fault model for California (Field et al., 2008; 2014). For the purposes of analysis, the spectral accelerations associated with the MCE on each of the Holocene-active faults within about 50 kilometers were calculated as the equally-weighted average of the most recent (2014) Abrahamson and Silva (2014), Boore et al. (2014), Campbell and Bozorgnia (2014), and Chiou and Youngs (2014) Next Generation Attenuation (NGA14) GMPEs. This evaluation is included in Attachment 2 and Table 1 identifies the fault distances from the site, the magnitude of the MCE associated with each fault, and the PGA associated with the MCE for each fault. For the purposes of this analysis, near-source directivity factors were calculated using the Abrahamson (2000)-Sommerville (1997) method.

As shown in Table 1, there are no known Holocene faults within 200 feet of the site boundaries. The nearest known Holocene fault that is the Holser fault about 2 kilometers from the site. Other nearby active faults include the San Gabriel fault zone, Northridge fault, Oak Ridge fault, Santa Susana fault, San Cayetano fault, and San Andreas fault. As described in more detail below, the most critical combination of earthquake duration (as represented by magnitude) and ground motion is characterized by a magnitude 6.8 MCE on the Holser fault that results in a site PGA of 0.6g.

4.0 CELL 8 CONTAINMENT DESIGN

The proposed base grading plan, waste fill plan, and cross sections (profiles) that were analyzed for Cell 8 are shown in Figure 2 (Base Grading), Figure 3 (Refuse Fill), and Figure 4 (Profiles A, B, and C). The locations of the cross sections (profiles) are shown in Figure 1. As shown by the TTBAS drawings in Attachment 1, the base liner for Cell 8 includes (from bottom to top):

- Prepared subgrade.
- A 6-in thick layer of low permeability soil.

- An optional 30-mil double-side textured high-density polyethylene (DST HDPE) geomembrane.[2]
- A geosynthetic clay liner (GCL).
- A 60-mil DST HDPE geomembrane.
- A 16-oz/yd^2 non-woven cushion geotextile.
- A 9-in thick granular leachate collection and removal system (LCRS) layer.
- An 8-oz/yd non-woven filter geotextile.
- A 15-in thick protective soil cover.

The side slope liner for Cell 8 includes (from bottom to top):

- Prepared subgrade.
- An optional 30-mil double-side textured high-density polyethylene (DST HDPE) geomembrane.
- A GCL.
- A 60-mil DST HDPE geomembrane.
- A 16-oz/yd^2 non-woven cushion geotextile.
- A 24-in thick (vertical) protective soil cover.

An engineered fill toe berm will be constructed at the southern end of Cell 8 as shown in the drawings in Attachment 1 and illustrated in Figure 4.

5.0 ANALYSIS METHODS AND RESULTS

5.1 Methods

5.1.1 Static Analyses

The computer program SLIDE2 (2020 v9.009; Rocscience, 2020) was used to calculate the static safety factor for the cross sections selected for analysis. SLIDE2 is a 2-dimensional slope stability analysis that incorporates limit equilibrium and the method of slices to evaluate the stability of circular or non-circular failure surfaces in soil or rock slopes. For this evaluation, the static safety factor calculations were performed using Spencer's procedure (Spencer, 1967), a method of analysis that satisfies both moment and force equilibrium and search routines were used to characterize the surfaces with the lowest safety factors. For all cross sections that were analyzed, failure surface were not allowed to pass below the liner and into

[2] The 30-mil DST HDPE geomembrane may be added at the Engineer's discretion to encapsulate the GCL if conditions encountered during construction indicate reasonable potential for the GCL to become saturated.

the underlying materials. Failure surfaces were, however, allowed to shear through the engineered fill of the toe berm.

5.1.2 Seismic Analyses

Potential seismic deformations for each section were evaluated using the simplified Bray and Travasarou (2007) analysis procedure to calculate potential deformations associated with the MCE on the Holser fault. The spectral acceleration used in the analyses was based on the information included in Attachment 2. Comparative calculations show that Holser fault MCE magnitude (6.8) and spectral acceleration profile represents the most critical combination of magnitude (a measure of duration) and acceleration for the site.

5.1.3 Material Properties and Conditions Assumed for Analysis

Principal material properties and conditions assumed for analysis included:

- Municipal Solid Waste (MSW). The unit weight and strength of existing and planned MSW was based on recent information published by Kavazanjian et al. (2013).
- Cell 6, Module 5, and Module 4 Liners Shear Strength. As indicated in Figure 1, Cell 8 is surrounded by existing Cell 6, Module 5, and Module 4 that have the different containment systems that are described in Table 2. Because stability of the Cell 8 fill is partially dependent on the strength of the existing liner systems, site data and published information were reviewed to evaluate representative strength properties for the materials and material interfaces in these existing disposal areas. The results of this review and the values assumed for analysis are summarized in Table 3. As indicated this table, a shear-normal function was used for the Cell 6 liner system. This function and the data used for its development is included in Attachment Post 3. Post-peak strengths were assumed for analysis which is generally conservative for base liner systems (Stark and Choi, 2004).
- Cell 8. No material- or site-specific data are currently available for Cell 8. Based on testing performed during previous phases of construction at CCL and other projects, the DST HDPE-12 oz/yd^2 nonwoven geotextile interface is judged likely to have the relatively lowest shear strength of the different Cell 8 liner materials and interfaces. The strength estimate of this interface was based on a shear-normal function that considered the results of multi-layered direct shear tests performed on materials like those planned for Cell 8. The test data and shear normal function used for analysis are included in Attachment 3. Post-peak strengths were assumed for analysis.
- Leachate and Groundwater. Excavation for Cell 8 is assumed to remove overlying unconsolidated deposits that may be present, and the containment systems will be founded on sediments of the Saugus or Pico Formations. Site data indicates

groundwater occurs at depth below the base of the landfill. RTFA (2020) indicates the highest recorded groundwater at the site occurred about 18 feet below the lowest elevation of Cell 8. Therefore, a water table or piezometric surface was not included in the stability analyses. Cell 8 and the adjacent Cells include Subtitle D-compliant leachate collection system (LCS) layers that consist of either granular drain rock or a geocomposite. Therefore, a leachate surface to represent saturated waste at the base of the fill was not incorporated into the analyses.

5.2 Analysis Results

The results of the analyses are summarized in Table 4 and included in Attachment 4, and show that the static safety factors are 1.5 or greater and the MCE deformations are less than 6 inches for all conditions that were analyzed. These static safety factors and deformations meet the requirements of Title 27 CCR, the WDRs, and generally accepted standards of practice for solid waste landfills in California. The following should be noted with respect to these results:

- The analyses were based largely on assumed material properties. Therefore, site-specific testing of geologic and geosynthetic materials that will be associated with the Cell 8 area subgrade and liner materials is recommended.
- The analyses assumed that excavations into native materials will remove existing unconsolidated alluvium, colluvium, and landslide deposits underlying and adjacent to the new cell. This assumption should be verified during construction.
- Available data and site observations indicate the geologic structure of the bedrock may affect cut slope stability. Evaluation of these cut slopes was outside the scope of this investigation and geologic mapping and evaluation by the project geotechnical engineer is recommended to verify that the cut slopes will be stable.
- Available data indicate that groundwater occurs below the base grade of Cell 8. Groundwater elevations can change with time and the current groundwater elevation information should be verified during final design and provisions to manage groundwater should be incorporated into final grading and liner designs if necessary.

6.0 LIMITATIONS AND CLOSURE

Geo-Logic Associates prepared this report under the direction of Richard Mitchell, PG, CEG and was reviewed by Dr. Neven Matasovic, PE, GE. The conclusions and recommendations of this report are based limited laboratory test results, grading plans and liner configuration information provided by others, and professional judgment. We have employed accepted geotechnical engineering and engineering geologic procedures and our professional opinions and conclusions are made in accordance with these principles and practices. This standard is

in lieu of all warranties, either expressed or implied. Please contact the undersigned at (415) 699-8073 if you have questions or need additional information.

Very truly yours,
Geo-Logic Associates, Inc.



Richard A. Mitchell, PG, CEG
Principal Engineering Geologist



Neven Matasovic, PE, GE
Principal Geotechnical Engineer

Attachments:

Tables (4)
Figures (3)
Attachment 1 Cell 8 Design Drawings
Attachment 2 Seismic Hazard Update
Attachment 3 Direct Shear Test Data
Attachment 4 Stability Analysis Results

Geo-Logic ASSOCIATES

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Table 1
SUMMARY OF HOLOCENE- ACTIVE FAULTS WITHIN 50 KILOMETERS OF THE SITE
Chiquita Canyon Landfill
Los Angeles County, California

FAULT	DISTANCE (km)	MAXIMUM OR CHARACTERISTIC MAGNITUDE (M_w)	EQUALLY WEIGHTED MEDIAN PEAK ACCELERATION (g)	MEDIAN PEAK GROUND ACCELERATION (g)			
				1	2	3	4
Holser	1.8	6.80	0.598	0.630	0.437	0.697	0.626
Santa Susana	8.2	6.90	0.507	0.485	0.443	0.600	0.502
Northridge	7.8	6.90	0.417	0.457	0.399	0.395	0.415
San Gabriel	6.4	7.30	0.365	0.369	0.335	0.391	0.365
Oak Ridge (Connected)	7.8	7.40	0.357	0.355	0.305	0.365	0.405
Oak Ridge (Onshore)	7.8	7.20	0.350	0.346	0.290	0.383	0.380
San Cayetano	10	7.20	0.282	0.275	0.245	0.299	0.309
Simi-Santa Rosa	14	6.90	0.240	0.254	0.231	0.241	0.228
Garlock	49	7.72	0.191	0.216	0.188	0.175	0.184
Southern San Andreas	32	8.20	0.187	0.207	0.184	0.165	0.191
Sierra Madre (Connected)	21	7.30	0.179	0.191	0.159	0.171	0.194
Santa Ynez (Connected)	28	7.40	0.145	0.148	0.147	0.142	0.144
Sierra Madre (San Fernando)	21	6.70	0.134	0.141	0.124	0.143	0.128
Santa Ynez (East)	28	7.20	0.133	0.133	0.137	0.133	0.128
Santa Monica	36	7.40	0.121	0.123	0.115	0.178	0.135
Verdugo	28	6.90	0.112	0.114	0.106	0.117	0.112
Anacapa-Dune	36	7.20	0.109	0.115	0.102	0.104	0.118
Sierra Madre	37	7.20	0.101	0.103	0.095	0.099	0.106
Newport-Inglewood	49	7.50	0.094	0.095	0.090	0.087	0.088
Pitas Point	46	7.30	0.089	0.095	0.082	0.084	0.096
Malibu Creek	42	7.00	0.081	0.080	0.085	0.046	0.073
Ventura-Pitas Point	42	7.00	0.074	0.077	0.069	0.075	0.074
Puente Hills	50	7.00	0.072	0.075	0.066	0.072	0.074
Pleitas	51	7.10	0.071	0.070	0.069	0.071	0.073
Hollywood	42	6.70	0.068	0.065	0.073	0.075	0.058
Mission Ridge-Arroyo Parida-Santa Ana	47	6.90	0.067	0.067	0.066	0.069	0.065
Elysian Park	48	6.70	0.061	0.066	0.057	0.065	0.058

NOTES:

1. Fault distances and MCE magnitudes based on USGS 2008 Seismic Hazard Mapping Program (Field et al., 2008; Petersen et al., 2008). The maximum (or characteristic) magnitude along a fault is estimated by using the mapped surface geology and recorded earthquake location and depth distributions to obtain fault length or area. Using the fault dimensions and, in some cases, estimates of where earthquake ruptures may initiate and terminate (segmentation models), the maximum or characteristic magnitudes are calculated from relationships that are dependent on fault length or area (Ellsworth, 2003).
2. Where applicable, near source directivity average factor calculated using the Abrahamson (2000)-Somerville (1997) method.
3. Attenuation relationships :
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   2. David M. Boore, Jonathan P. Stewart, Emel Seyhan, and Gail M. Atkinson, NGA-West2 Equations for Predicting PGA, PGV, and 5% Damped PSA for Shallow Crustal Earthquakes, Earthquake Spectra, Volume 30, No. 3, pages 1057-1085, August 2014; © 2014.
   3. Kenneth W. Campbell and Yousef Bozorgnia, NGA-West2 Ground Motion Model for the Average Horizontal Components of PGA, PGV, and 5% Damped Linear Acceleration Response Spectra, Earthquake Spectra, Volume 30, No. 3, pages 1087-1115, August 2014.
   4. Brian S.-J. Chiou and Robert R. Youngs, Update of the Chiou and Youngs NGA Model for the Average Horizontal Component of Peak Ground Motion and Response Spectra, Earthquake Spectra, Volume 30, No. 3, pages 1117-1153, August 2014.

Table 2
SUMMARY OF BASE AND SIDE SLOPE LINER SYSTEM CONFIGURATIONS
CELL 8 STABILITY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

Base Liner	Side Slope Liner
CANYON A	
• Subgrade • 2 ft Bentonite Admixture	• Subgrade • Smooth HDPE • Operations Layer Soil (Assumed)
CANYON C – CELL 1	
• Subgrade • 2 ft Bentonite Admixture • Single-Side Textured HDPE (Down) • Granular LCS • Operations Layer Soil (Assumed)	• Subgrade • Smooth HDPE • Operations Layer Soil (Assumed)
CANYON C – CELL II (PHASE 1)	
• Subgrade • GCL (Claymax) • Double-Side Textured HDPE • Granular LCS • Operations Layer Soil (Assumed)	• Subgrade • GCL (Claymax) • Single-Side Textured HDPE (Down) • Operations Layer Soil (Assumed)
CANYON C – CELL II (PHASES 2A AND 2B)	
• Subgrade • GCL (Bentomat) • Double-Side Textured HDPE • Granular LCS • Operations Layer Soil (Assumed)	• Subgrade • GCL (Bentomat) • Single-Side Textured HDPE (Down) • Geotextile (Upper 1/3 of Slope) • Operations Layer Soil (Assumed)
MODULES 1, 2A, 2B, 3, AND 4	
• Subgrade • GCL (Reinforced) • Double-Side Textured HDPE • Geocomposite • Operations Layer Soil (Assumed)	• Subgrade • Double-Side Textured HDPE • Geocomposite • Operations Layer Soil (Assumed)
MODULE 5	
• Subgrade • Compacted Clay • Double-Side Textured HDPE • Geocomposite • Operations Layer Soil (Assumed)	• Subgrade • Double-Side Textured HDPE • Geocomposite • Operations Layer Soil (Assumed)
CELL 6	
• Subgrade • Compacted Clay • Double-Side Textured HDPE • Cushion Geotextile • Granular Drainage Layer • Filter Geotextile • Operations Layer Soil (Assumed)	• Subgrade • GCL • Double-Side Textured HDPE • Cushion Geotextile • Operations Layer Soil (Assumed)

Table 2
SUMMARY OF BASE AND SIDE SLOPE LINER SYSTEM CONFIGURATIONS
CELL 8 STABILITY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

CELL 8	
Base Liner • Subgrade • Low Hydraulic Conductivity Layer • GCL • Double-Side Textured HDPE • Cushion Geotextile • Granular Drainage Layer • Filter Geotextile • Operations Layer	Side Slope Liner • Subgrade • GCL • Double-Side Textured HDPE • Cushion Geotextile • Operations Layer Soil (Assumed)

Table 3
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
MODULES 1, 2A, 2B, 3 AND 4 *Base Liner*										
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.	Modules 1, 2A, 2B, 3, and 4 Base Liner	NA	100	14
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
	N/A	420	21	820	10	Interface Direct Shear Test Results (Project Testing)				
	N/A	510	20	560	14	Interface Direct Shear Test Results (Project Testing)				
	N/A	610	22	335	16	Interface Direct Shear Test Results (Project Testing)				
	N/A	475	23	230	17	Interface Direct Shear Test Results (Project Testing)				
	N/A	720	23	435	17	Golder 1999 - Basis of Design Report, Excavation Cell #1 and 2A				
	N/A	1120	19	710	3	Golder 1999 - Basis of Design Report, Excavation Cell #1 and 2A				
Textured HDPE/Geocomposite	N/A	0	26	0	15	Koerner & Narejo (2005) Figures 2i and 2j. Assmumes textured HDPE against NW-NP geotextile on a geocomposite.				
	N/A	235	25	100	14	Interface Direct Shear Test Results (Project Testing)				
Geocomposite/Operations Layer Soil	N/A	104	30	0	21	Koerner & Narejo(2005) Figures 9a and 9B. Assumed cohesive soil and non-woven geotextile on geocomposite.				
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) figures 2a and 2b.				
EXPANSION AREA MODULES 1, 2A, 2B, 3 AND 4 *Side Slope Liner*										
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.	Modules 1, 2A, 2B, 3, and 4 Side Slope Liner	NA	100	14
Textured HDPE/Geocomposite	N/A	0	26	0	15	Koerner & Narejo (2005) Figures 2i and 2j. Assmumes textured HDPE against NW-NP geotextile on a geocomposite.				
	N/A	235	25	100	14	Interface Direct Shear Test Results (Project Testing)				
Geocomposite/Operations Layer Soil	N/A	104	30	0	21	Koerner & Narejo(2005) Figures 9a and 9B. Assumed cohesive soil and non-woven geotextile on geocomposite.				
MODULE 5 *Base Liner*										
2-A Textured HDPE/Compacted Clay	126	0	34.3	0	25.1	Interface Direct Shear Test Results (Project Testing)	Module 5 Base and Side Slope Liner	NA	100	12.5
2-B Textured HDPE/Compacted Clay	126	0	35.1	0	24.5	Interface Direct Shear Test Results (Project Testing)				
1-A Textured HDPE/Compacted Clay	126	0	34.6	0	23.7	Interface Direct Shear Test Results (Project Testing)				
1-B Textured HDPE/Compacted Clay	126	0	35	0	23.6	Interface Direct Shear Test Results (Project Testing)				
1-A NW Geotextile/Textured HDPE	NA	15	37.9	105	12.5	Interface Direct Shear Test Results (Project Testing)				
1-B NW Geotextile/Textured HDPE	NA	179	27.1	326	11.1	Interface Direct Shear Test Results (Project Testing)				
Cell 6 *Base Liner Liner*										
Compacted Clay	120	0	30	0	30	Cell 6 Test G190919	Cell 6 Base Liner	NA	273	9.6
Compacted Clay/Textured HDPE	N/A	602	25.1	1112	13.7	Cell 6 Test G190919-1				
	N/A	896	22	961	16	Cell 6 Test G190919-6				
Textured HDPE/NW Geotextile	N/A	38	21.3	246	9.4	Cell 6 Test G190919-2				
	N/A	45	23.8	299	9.7	Cell 6 Test G190991-7				

Table 3
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
Chiquita Canyon Landfill, Los Angeles County, California

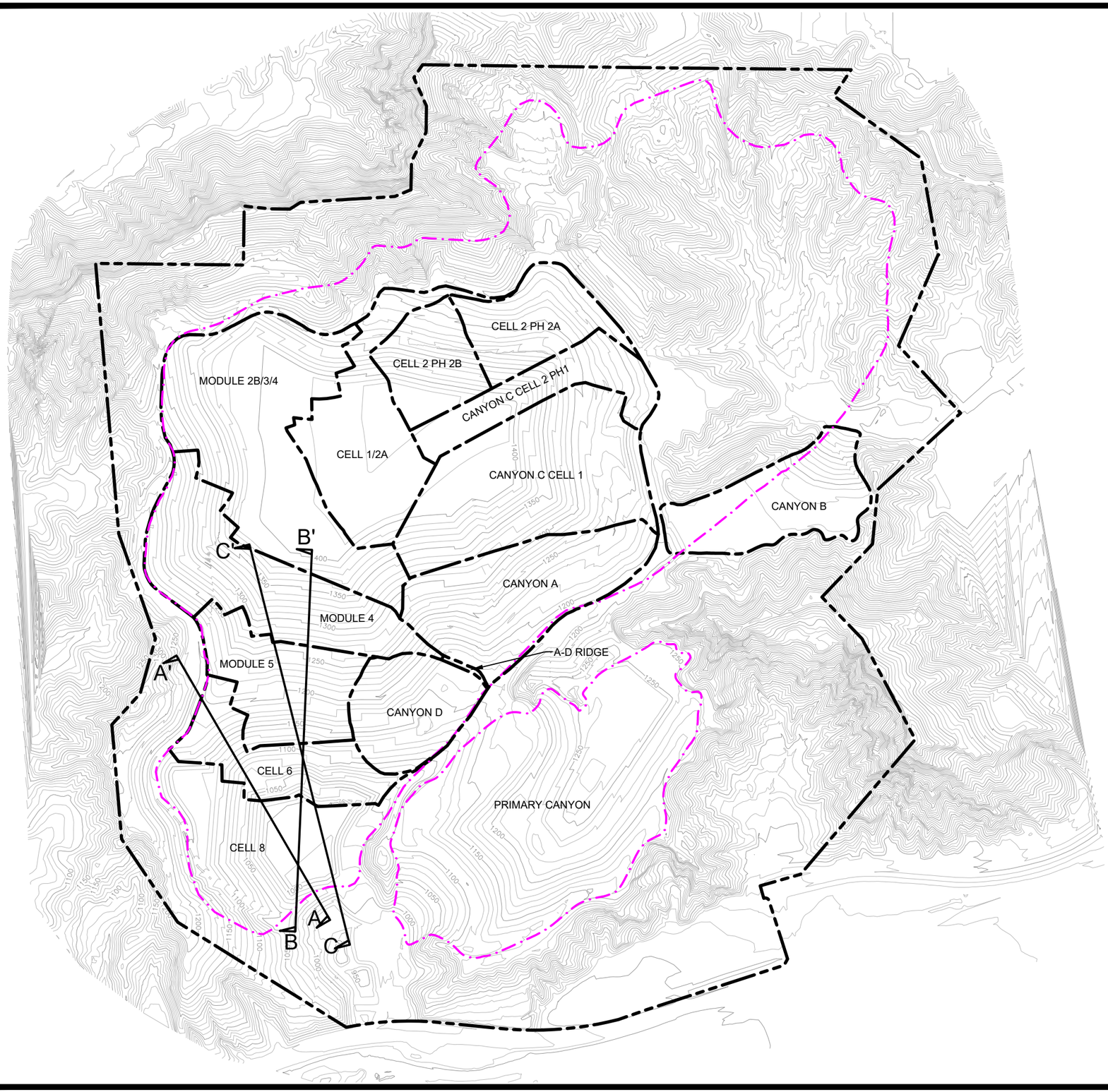
MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
Cell 6 *Sloped Deck Liner*										
Subgrade/Textured HDPE	N/A	0	24.6	0	23.4	Cell 6 Test G190919-3	Cell 6 Sloped Deck Liner	NA	52	12.8
	N/A	0	26.2	0	26.2	Cell 6 Test G190919-8				
GCL Internal Shear	N/A	1488	24.9	0	15.0	Cell 6 Test G190919-5 (Large Displacement is minimum secant Friction Angle				
	N/A	2254	17.3	1730	15.1	Cell 6 Test G190919-10				
GCL/Textured HDPE	N/A	0	20.1	52	12.8	Cell 6 Test G190919-3				
	N/A	172	23	246	16.6	Cell 6 Test G190919-9				
Textured HDPE/Granular LCS	N/A	0	34	0	31	Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.				
Textured HDPE/NW Geotextile	N/A	0	25	0	17	Koerner & Narejo (2005) Figures 2e and 2f.				
NW Geotextile/Granular Soil	N/A	0	33	0	33	Koerner & Narejo(2005) Figures 8a and 8b.				
Cell 6 *Side Slope Liner*										
Subgrade/Textured HDPE	N/A	0	24.6	0	23.4	Cell 6 Test G190919-3	Cell 6 Side Slope Liner	NA	Shear Normal Function Based on Cell 6 Test Results	
	N/A	0	26.2	0	26.2	Cell 6 Test G190919-8				
Textured HDPE/NW Geotextile	N/A	38	21.3	246	9.4	Cell 6 Test G190919-2				
	N/A	45	23.8	299	9.7	Cell 6 Test G190991-7				
	N/A	0	25	0	17	Koerner & Narejo (2005) Figures 2e and 2f.				
NW Geotextile/Granular Soil	N/A	0	33	0	33	Koerner & Narejo(2005) Figures 8a and 8b.				
Cell 8 *Base & Side Slope Liner*										
Compacted Clay/Subgrade	120	0	30	0	30	Cell 6 Test G190919	*Cell 8 Base and Side Slope Liner*	NA	Shear Normal Function Based on JSRL Sandwich Test Results	
GCL Internal Shear	N/A	1488	24.9	0	15.0	Cell 6 Test G190919-5 (Large Displacement is minimum secant Friction Angle				
	N/A	2254	17.3	1730	15.1	Cell 6 Test G190919-10				
GCL/Textured HDPE	N/A	0	20.1	52	12.8	Cell 6 Test G190919-3				
	N/A	172	23	246	16.6	Cell 6 Test G190919-9				
Textured HDPE/NW Geotextile	N/A	38	21.3	246	9.4	Cell 6 Test G190919-2 (Agru Single Layer Test)				
	N/A	45	23.8	299	9.7	Cell 6 Test G190991-7 (Agru Single Layer Test)				
	N/A	324	24	622	9.3	JSRL Test G200864-2 (Solmax Sandwich Test)				
	N/A	824	19.3	552	9.5	JSRL Test G200864-2 (Agru Sandwich Test)				
	N/A	434	18.7	517	8.9	JSRL Test G200864-3 (Solmax Sandwich Test)				
	N/A	475	28.1	451	11.6	JSRL Test G190707-1 (Solmax Sandwich Test)				
	N/A	511	21.8	240	10.0	JSRL Test G180364-2 (Agru Sandwich Test)				
	N/A	0	25	0	17.0	Koerner & Narejo (2005) Figures 2e and 2f.				
NW Geotextile/Granular Soil	N/A	0	33	0	33.0	Koerner & Narejo(2005) Figures 8a and 8b.				

Table 4
SUMMARY OF CELL 8 STABILITY ANALYSIS RESULTS
Chiquita Canyon Landfill, Los Angeles County, California

SECTION	STATIC SAFETY FACTOR	SEISMIC DISPLACEMENT			
		Yield Acceleration (g)	Spectral Acceleration @ $1.5T_s$ (g)	Magnitude	Estimated Displacment (in)
Alignment A					
Published Shear Strength for Cell 8	1.9	0.19	0.21	6.8	<1
Multi-Layer Lab Test Results for Cell 8	1.5	0.10	0.21	6.8	1.8
Alignment B					
Published Shear Strength for Cell 8	1.9	0.17	0.18	6.8	<1
Multi-Layer Lab Test Results for Cell 8	1.7	0.12	0.18	6.8	<1
Alignment C					
Published Shear Strength for Cell 8	1.7	0.13	0.18	6.8	<1
Multi-Layer Lab Test Results for Cell 8	1.5	0.10	0.18	6.8	0.9

NOTES:

1. Seismic displacement based on Bray and Travasarou (2007).
2. See Attachment 1 for section locations.
3. See Attachment 2 for earthquake magnitude and spectral acceleration information.
4. See Attachment 3 for geosynthetic laboratory test results.
5. See Attachment 4 for analysis output and cross section information.
6. Final grading seismic displacement analyses based on a MCE moment magnitude 6.8 earthquake on the Holser fault with a median PHGA of 0.60g.



EXPLANATION:

- LANDFILL PROPERTY BOUNDARY
- LIMITS OF REFUSE
- CELL AND MODULE LIMITS
- CROSS-SECTION LOCATION

N

GRAPHIC SCALE

350 0 175 350 700

(in feet)

FIGURE 1

EXISTING TOPOGRAPHY

CELL 8 EXPANSION
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/RM	DATE: OCTOBER 2020	JOB NO. S018.1155

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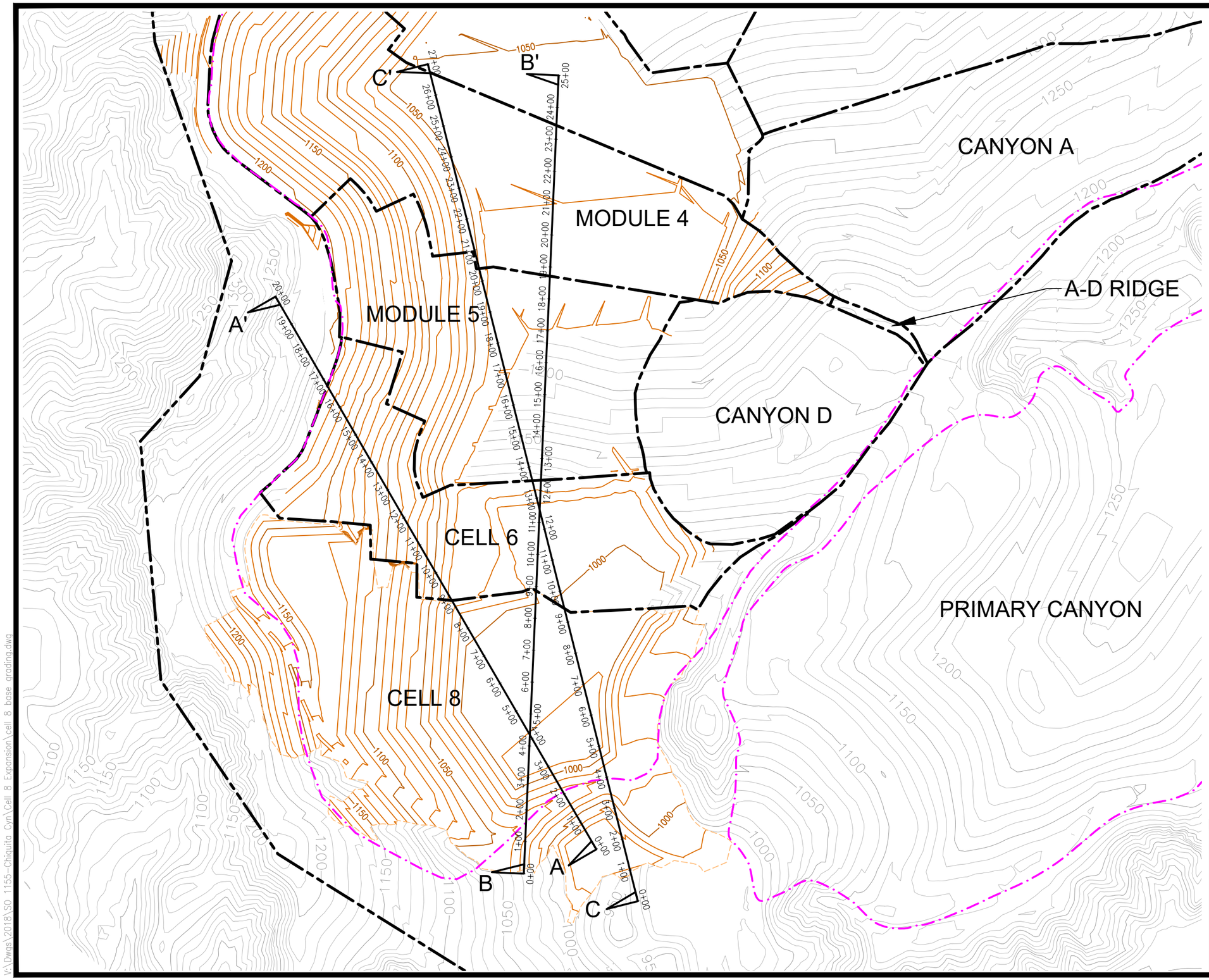

EXPLANATION:

- CELL 8 BASE GRADE CONTOURS
- LANDFILL PROPERTY BOUNDARY
- LIMITS OF REFUSE
- CELL AND MODULE LIMITS
- CROSS-SECTION LOCATION

N

GRAPHIC SCALE
150 0 75 150 300
(in feet)

FIGURE 2

CELL 8 BASE GRADING

CELL 8 EXPANSION
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/RM	DATE: OCTOBER 2020	JOB NO. S018.1155

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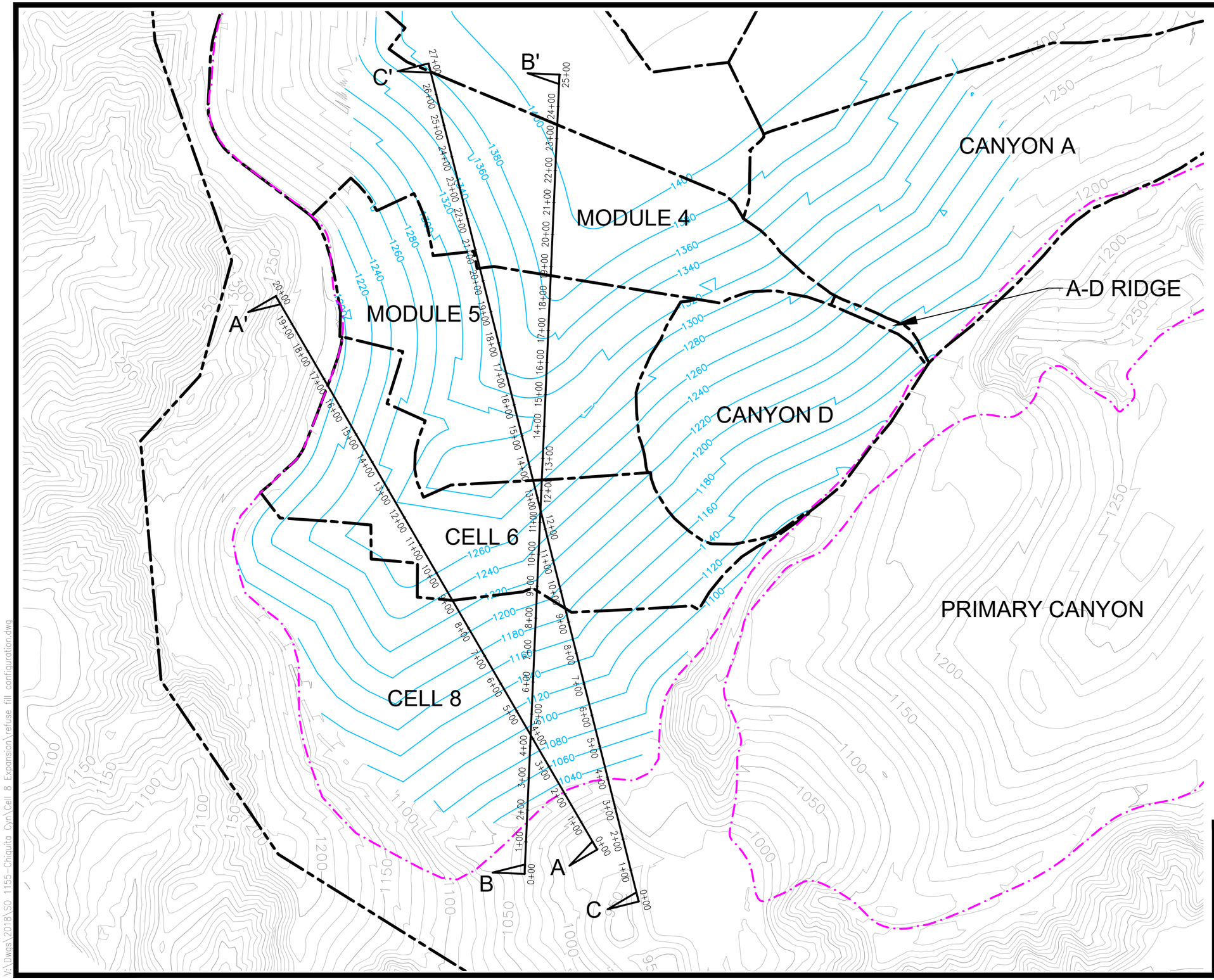


EXPLANATION:

- REFUSE FILL CONTOUR
- LANDFILL PROPERTY BOUNDARY
- LIMITS OF REFUSE
- CELL AND MODULE LIMITS
- CROSS-SECTION LOCATION

N

GRAPHIC SCALE
150 0 75 150 300
(in feet)

FIGURE 3

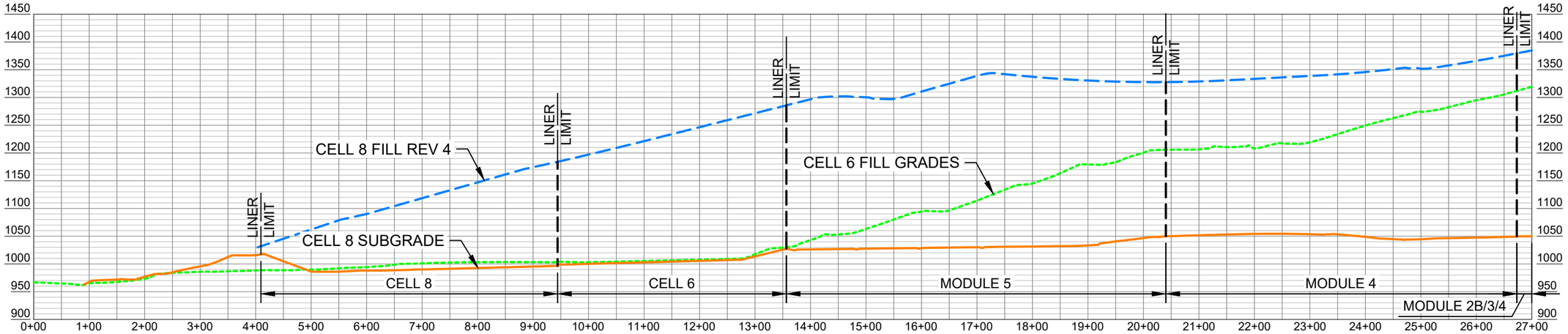
REFUSE FILL CONFIGURATION

CELL 8 EXPANSION
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

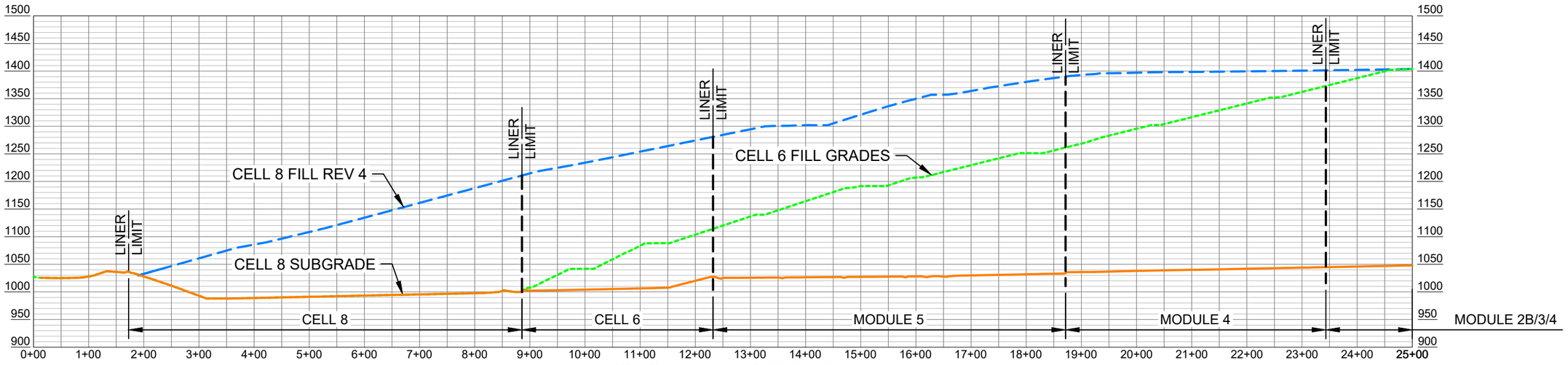
Geo-Logic ASSOCIATES

DRAFTER/PM: VL/RM	DATE: OCTOBER 2020	JOB NO. S018.1155

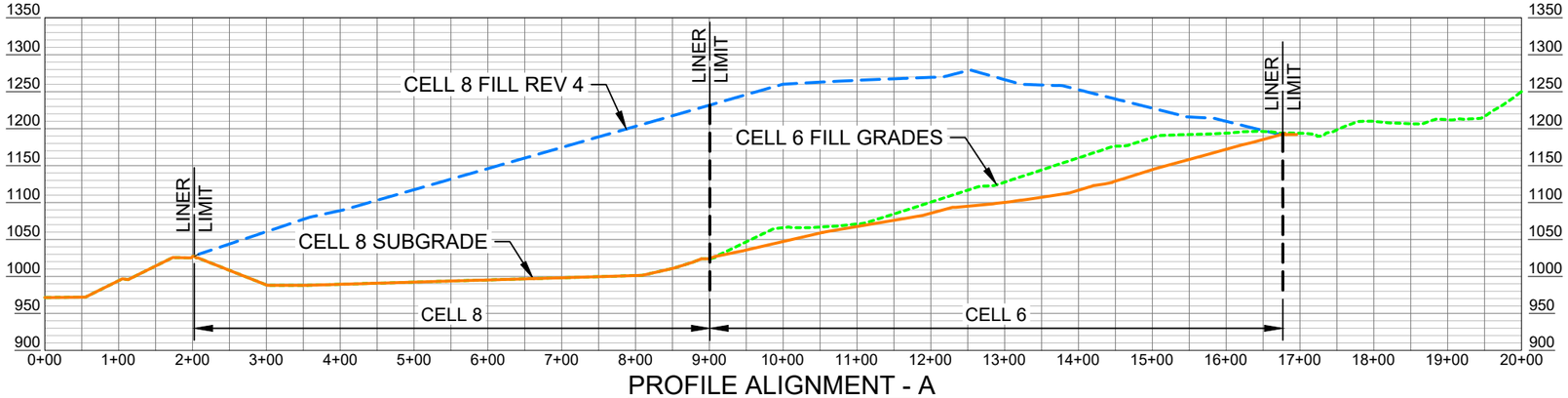
V:\Dwgs\2018\S0 1155-Chiquita Cyn\Cell 8 Expansion\refuse fill configuration.dwg



PROFILE ALIGNMENT - C



PROFILE ALIGNMENT - B



PROFILE ALIGNMENT - A

GRAPHIC SCALE
100 0 50 100 200
(in feet)

FIGURE 4

PROFILE ALIGNMENTS A, B, AND C

CELL 8 EXPANSION
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

Geo-Logic ASSOCIATES

DRAFTER/PM: VL/RM	DATE: OCTOBER 2020	JOB NO. S018.1155

V:\Dwgs\2018\SO_1155-Chiquita_Cyn\Cell 8 Expansion\profile alignments.dwg

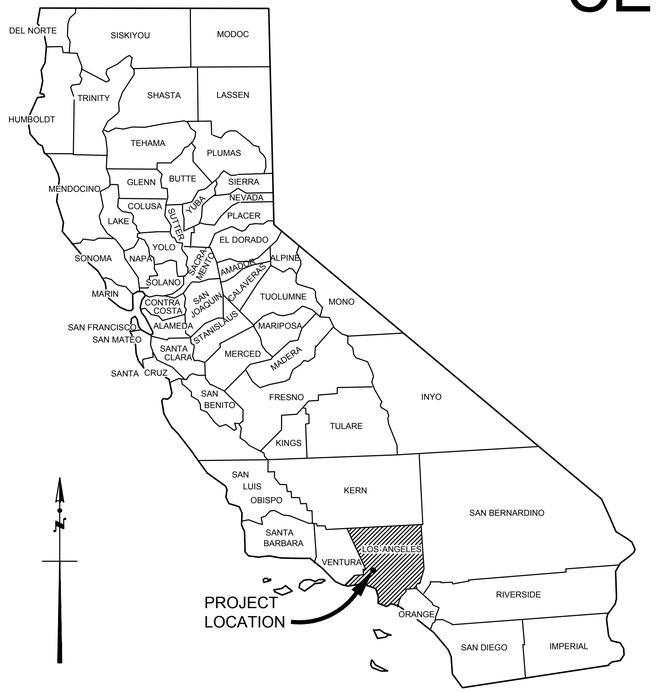
Attachment 1
TETRA TECH BAS CELL 8 CONSTRUCTION DRAWINGS

WASTE CONNECTIONS

CHIQUITA CANYON LANDFILL

CASTAIC, CA

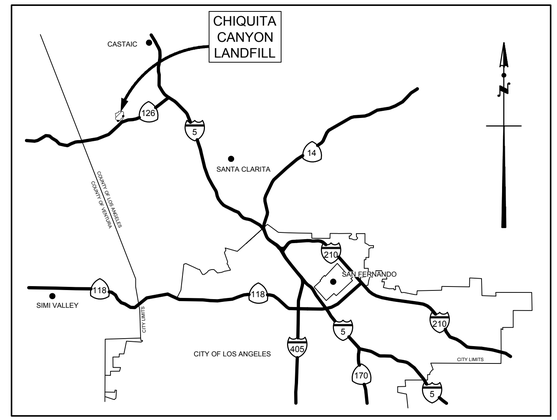
CELL 8 LINER CONSTRUCTION PLAN
OCTOBER 2020



STATE LOCATION MAP
NTS

INDEX OF SHEETS

C-001	COVER SHEET
C-100	SITE PLAN
C-101	SHEET INDEX MAP
C-102	CELL 8A LINER AND LCRS
C-103	CELL 8A LINER AND LCRS
C-104	CELL 8B LINER AND LCRS
C-301	SECTIONS
C-501	DETAILS
C-502	DETAILS
C-503	DETAILS
C-504	DETAILS
C-505	DETAILS
C-506	DETAILS
C-507	DETAILS



VICINITY MAP
NTS

BENCH MARK:

BM: L 6106 Elev.: 982.867 FT (NAVD 88 DATUM)

QUAD (YEAR): NEWHALL (2009)

DESCRIPTION:
LACO BM TAG IN CTR NOSE OF C/L MED S END C/L MED S END C/L CHIQUITO CYN LANDFILL ENT 89' N/O C/L HENRY MAYO DR (HWY126) 0.6MI E/O CHIQUITO CYN RD

FOR PERMITTING PURPOSES ONLY - NOT FOR CONSTRUCTION

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A Waste Connections Company

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REGISTERED PROFESSIONAL ENGINEER
CALEB H. MOORE
66598
CIVIL
STATE OF CALIFORNIA

CHIQUITA CANYON LANDFILL

COVER SHEET

DESIGNED BY :	D.L.L.	FILE : C-001 Cover Sheet.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020		
APPROVED BY :	C.H.M.	DATE :	10-2020		**C-001**

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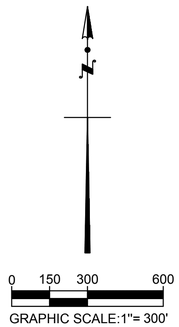

DATE OF TOPOGRAPHY: JANUARY 13, 2020

CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. EXCAVATE OR FILL SOIL TO GRADES SHOWN
3. CLEAR AND GRUB
4. CONSTRUCT BASE LINER PER — 1 / C-501
5. CONSTRUCT SLOPE LINER PER — 2 / C-501
6. CONSTRUCT BASE LINER JOIN PER — 1 / C-504
7. CONSTRUCT SLOPE LINER JOIN PER — 3 / C-501
8. CONSTRUCT BENCH LINER JOIN PER — 2 / C-503
9. CONSTRUCT BENCH LINER PER — 4 / C-501
10. CONSTRUCT SIDE SLOPE LINER TERMINATION PER — 2 / C-502
11. CONSTRUCT TOP OF SLOPE LINER TERMINATION PER — 1 / C-502
12. CONSTRUCT BENCH LINER TERMINATION PER — 4 / C-502
13. CONSTRUCT SLOPE LINER TO BASE TRANSITION — 1 / C-503
14. CAP LCRS PIPE
15. LOCATE EXISTING LCRS PIPING AND JOIN TO EXISTING
16. CONSTRUCT LCRS MAINLINE PER — 6 / C-501
17. CONSTRUCT LCRS LATERAL PER — 7 / C-501
18. CONSTRUCT LATERAL / MAINLINE CONNECTION PER — 3 / C-502
19. CONSTRUCT LCRS RISER SUPPORT AND TERMINATION PER — 5 / C-502
20. CONSTRUCT LCRS RISER PER — 6 / C-502
21. CONSTRUCT LCRS MAINLINE OUTLET PER — 2 / C-504
22. CONSTRUCT LCRS OUTFALL PER — 3 / C-504
23. CONSTRUCT LEACHATE FACILITY PER — 1 / C-505
24. CONSTRUCT LCRS DISCHARGE ASSEMBLY PER — 2 / C-505
25. CONSTRUCT LCRS OUTFALL PIPE SUPPORT PER — 2 / C-506
26. CONSTRUCT GABION CUBE PER — 1 / C-507
27. CONSTRUCT DECK LINER PER — 3 / C-506
28. CONSTRUCT STORMWATER DIVERSION BERM PER — 3 / C-506

LEGEND

- APPROXIMATE LIMIT OF PROPERTY LINE
- LIMIT OF GRADING / DAYLIGHT
- GRADE BREAK
- UNPAVED ROAD / BENCH
- EXISTING UNPAVED ROAD / BENCH
- EXISTING PAVED ROAD
- PROPOSED LINER LIMIT
- EXISTING LINER LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED PERIMETER MAJOR CONTOUR
- PROPOSED PERIMETER MINOR CONTOUR
- PERMITTED LIMIT OF REFUSE
- LCRS SOLID
- LCRS PERFORATED
- EXISTING LCRS SOLID
- EXISTING LCRS PERFORATED
- FLOWLINE
- EXISTING OVERHEAD POWER LINE
- EXISTING SCE EASEMENT
- APPROXIMATE LIMIT OF UNSUITABLE MATERIAL REMOVAL
- CUT / FILL LINE
- PAVED AC ROAD
- AGGREGATE BASE ROAD
- CONCRETE TERRACE CHANNEL
- DETAIL NUMBER / REFERENCE SHEET (3 / C-506)

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CHIQUITA CANYON LANDFILL

SITE PLAN

DESIGNED BY :	D.L.L.	FILE : C-100 Site Plan.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020		C-100
APPROVED BY :	C.H.M.	DATE :	10-2020		

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C-104 - CELL 8B LINER AND LCRS

C-102 - CELL 8A LINER AND LCRS

C-103 - CELL 8A LINER AND LCRS

A C-301

B C-301

0 75 150 300

GRAPHIC SCALE:1"= 150'

LEGEND

- APPROXIMATE LIMIT OF PROPERTY LINE
- LIMIT OF GRADING / DAYLIGHT
- GRADE BREAK
- UNPAVED ROAD / BENCH
- EXISTING UNPAVED ROAD / BENCH
- EXISTING PAVED ROAD
- PROPOSED LINER LIMIT
- EXISTING LINER LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED PERIMETER MAJOR CONTOUR
- PROPOSED PERIMETER MINOR CONTOUR
- PERMITTED LIMIT OF REFUSE
- LCRS SOLID
- LCRS PERFORATED
- EXISTING LCRS SOLID
- EXISTING LCRS PERFORATED
- FLOWLINE
- OE — EXISTING OVERHEAD POWER LINE
- EXISTING SCE EASEMENT
- PAVED AC ROAD
- AGGREGATE BASE ROAD
- CONCRETE TERRACE CHANNEL
- 3 / C-506 — DETAIL NUMBER / REFERENCE SHEET

DATE OF TOPOGRAPHY: JANUARY 13, 2020

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A Waste Connections Company

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REGISTERED PROFESSIONAL ENGINEER CALEB H. MOORE 66598 CIVIL STATE OF CALIFORNIA

CHIQUITA CANYON LANDFILL

SHEET INDEX MAP

DESIGNED BY :	D.L.L.	FILE : C-101 Sheet Index Map.dwg			
DRAWN BY :	A.N.P.	DATE : 10-2020	SCALE: AS SHOWN		
CHECKED BY :	J.M.H.	DATE : 10-2020	C-101		
APPROVED BY :	C.H.M.	DATE : 10-2020			

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CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. EXCAVATE OR FILL SOIL TO GRADES SHOWN (SEE NOTE 1)
3. CLEAR AND GRUB
5. CONSTRUCT SLOPE LINER PER — 2 C-501
7. CONSTRUCT SLOPE LINER JOIN PER — 3 C-501
8. CONSTRUCT BENCH LINER JOIN PER — 2 C-503
9. CONSTRUCT BENCH LINER PER — 4 C-501
11. CONSTRUCT TOP OF SLOPE LINER TERMINATION PER — 1 C-502
27. CONSTRUCT DECK LINER PER — 3 C-506
28. CONSTRUCT DECK LINER DIVERSION BERM PER — 3 C-506

NOTES:
1. SUBDRAINS ARE REQUIRED IN CANYON FILL AREAS, LANDSLIDE REMEDIATION FILL AREAS AND ARTIFICIAL FILL REMOVE AND REPLACE AREAS. SEE SPECIFICATION SECTION 02205 FOR ADDITIONAL REQUIREMENTS.
2. SEE PERIMETER GRADING PLAN SET FOR GRADING AND DRAINAGE IMPROVEMENTS.

LEGEND

- PERMITTED LIMIT OF REFUSE
- LIMIT OF GRADING / DAYLIGHT
- GRADE BREAK
- UNPAVED ROAD / BENCH
- EXISTING UNPAVED ROAD / BENCH
- EXISTING PAVED ROAD
- PROPOSED LINER LIMIT
- EXISTING LINER LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED PERIMETER MAJOR CONTOUR
- PROPOSED PERIMETER MINOR CONTOUR
- LCRS SOLID
- LCRS PERFORATED
- EXISTING LCRS SOLID
- EXISTING LCRS PERFORATED
- EXISTING OVERHEAD POWER LINE
- EXISTING SCE EASEMENT
- APPROXIMATE LIMIT OF UNSUITABLE MATERIAL REMOVAL
- CUT / FILL LINE
- PAVED AC ROAD
- AGGREGATE BASE ROAD
- CONCRETE TERRACE CHANNEL

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CHIQUITA CANYON LANDFILL

CELL 8A LINER AND LCRS

DESIGNED BY :	D.L.L.	FILE : C-102 Cell 8A Liner And LCRS.dwg	
DRAWN BY :	A.N.P.	DATE : 10-2020	SCALE: AS SHOWN
CHECKED BY :	J.M.H.	DATE : 10-2020	
APPROVED BY :	C.H.M.	DATE : 10-2020	C-102

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0 25 50 100

GRAPHIC SCALE:1"= 50'

CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. EXCAVATE OR FILL SOIL TO GRADES SHOWN (SEE NOTE 1)
3. CLEAR AND GRUB
4. CONSTRUCT BASE LINER PER — 1 / C-501
5. CONSTRUCT SLOPE LINER PER — 2 / C-501
6. CONSTRUCT BASE LINER JOIN PER — 1 / C-504
7. CONSTRUCT SLOPE LINER JOIN PER — 3 / C-501
9. CONSTRUCT BENCH LINER PER — 4 / C-501
11. CONSTRUCT TOP OF SLOPE LINER TERMINATION PER — 1 / C-502
12. CONSTRUCT BENCH LINER TERMINATION PER — 4 / C-502
13. CONSTRUCT SLOPE LINER TO BASE TRANSITION PER — 1 / C-503
14. CAP LCRS PIPE
16. CONSTRUCT LCRS MAINLINE PER — 6 / C-501
17. CONSTRUCT LCRS LATERAL PER — 7 / C-501
18. CONSTRUCT LATERAL / MAINLINE CONNECTION PER — 3 / C-502
19. CONSTRUCT LCRS RISER SUPPORT AND TERMINATION PER — 5 / C-502
20. CONSTRUCT LCRS RISER PER — 6 / C-502
21. CONSTRUCT LCRS MAINLINE OUTLET PER — 2 / C-504
22. CONSTRUCT LCRS OUTFALL PER — 3 / C-504
23. CONSTRUCT LEACHATE FACILITY PER — 1 / C-505
24. CONSTRUCT LCRS DISCHARGE ASSEMBLY PER — 2 / C-505
25. CONSTRUCT LCRS OUTFALL PIPE SUPPORT PER — 2 / C-506
26. CONSTRUCT GABION CUBE PER — 1 / C-507

LEGEND

- PERMITTED LIMIT OF REFUSE
- LIMIT OF GRADING / DAYLIGHT
- GRADE BREAK
- UNPAVED ROAD / BENCH
- EXISTING UNPAVED ROAD / BENCH
- EXISTING PAVED ROAD
- PROPOSED LINER LIMIT
- EXISTING LINER LIMIT
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED PERIMETER MAJOR CONTOUR
- PROPOSED PERIMETER MINOR CONTOUR
- LCRS SOLID
- LCRS PERFORATED
- EXISTING LCRS SOLID
- EXISTING LCRS PERFORATED
- OE — EXISTING OVERHEAD POWER LINE
- EXISTING SCE EASEMENT
- APPROXIMATE LIMIT OF UNSUITABLE MATERIAL REMOVAL
- C F — CUT / FILL LINE

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CHIQUITA CANYON LANDFILL

CELL 8A LINER AND LCRS

DESIGNED BY :	D.L.L.	FILE : C-103 Cell 8A Liner And LCRS.dwg	
DRAWN BY :	A.N.P.	DATE : 10-2020	SCALE: AS SHOWN
CHECKED BY :	J.M.H.	DATE : 10-2020	C-103
APPROVED BY :	C.H.M.	DATE : 10-2020	

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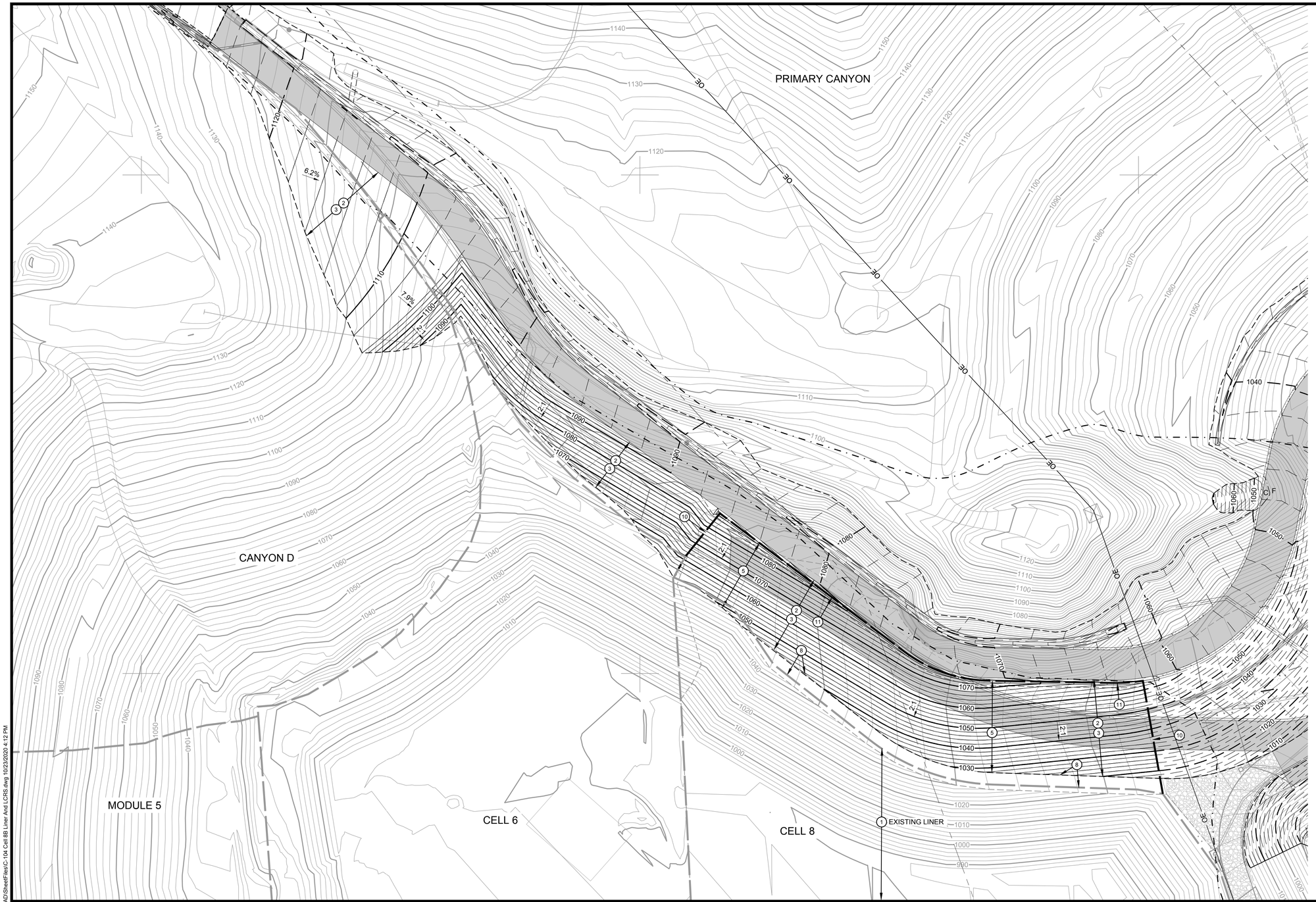

0 25 50 100

GRAPHIC SCALE:1"= 50'

CONSTRUCTION NOTES

1. PROTECT IN PLACE
2. EXCAVATE OR FILL SOIL TO GRADES SHOWN (SEE NOTE 1)
3. CLEAR AND GRUB
5. CONSTRUCT SLOPE LINER PER — 2 / C-501
8. CONSTRUCT BENCH LINER JOIN PER — 3 / C-503
10. CONSTRUCT SIDE SLOPE LINER TERMINATION PER — 2 / C-502
11. CONSTRUCT TOP OF SLOPE LINER TERMINATION PER — 1 / C-502

NOTES:
1. SUBDRAINS ARE REQUIRED IN CANYON FILL AREAS, LANDSLIDE REMEDIATION FILL AREAS AND ARTIFICIAL FILL REMOVE AND REPLACE AREAS. SEE SPECIFICATION SECTION 02205 FOR ADDITIONAL REQUIREMENTS.
2. SEE PERIMETER GRADING PLAN SET FOR GRADING AND DRAINAGE IMPROVEMENTS.

LEGEND

- PERMITTED LIMIT OF REFUSE
- LIMIT OF GRADING / DAYLIGHT
- GRADE BREAK
- UNPAVED ROAD / BENCH
- EXISTING UNPAVED ROAD / BENCH
- EXISTING PAVED ROAD
- PROPOSED LINER LIMIT
- EXISTING LINER LIMIT
- 10 EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 10 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- 10 PROPOSED PERIMETER MAJOR CONTOUR
- PROPOSED PERIMETER MINOR CONTOUR
- OE EXISTING OVERHEAD POWER LINE
- EXISTING SCE EASEMENT
- C F CUT / FILL LINE
- PAVED AC ROAD
- AGGREGATE BASE ROAD
- CONCRETE TERRACE CHANNEL

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NO.	REVISION DESCRIPTION	BY:

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REGISTERED PROFESSIONAL ENGINEER — CALEB H. MOORE — 86599 — CIVIL — STATE OF CALIFORNIA

CHIQUITA CANYON LANDFILL

CELL 8B LINER AND LCRS

DESIGNED BY :	D.L.L.	FILE : C-104 Cell 8B Liner And LCRS.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020		C-104
APPROVED BY :	C.H.M.	DATE :	10-2020		

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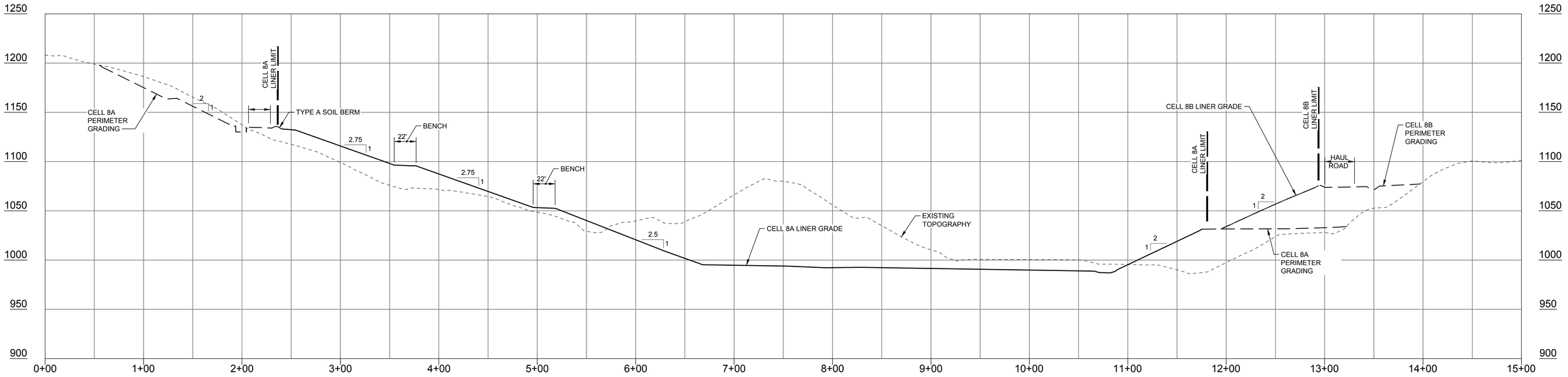
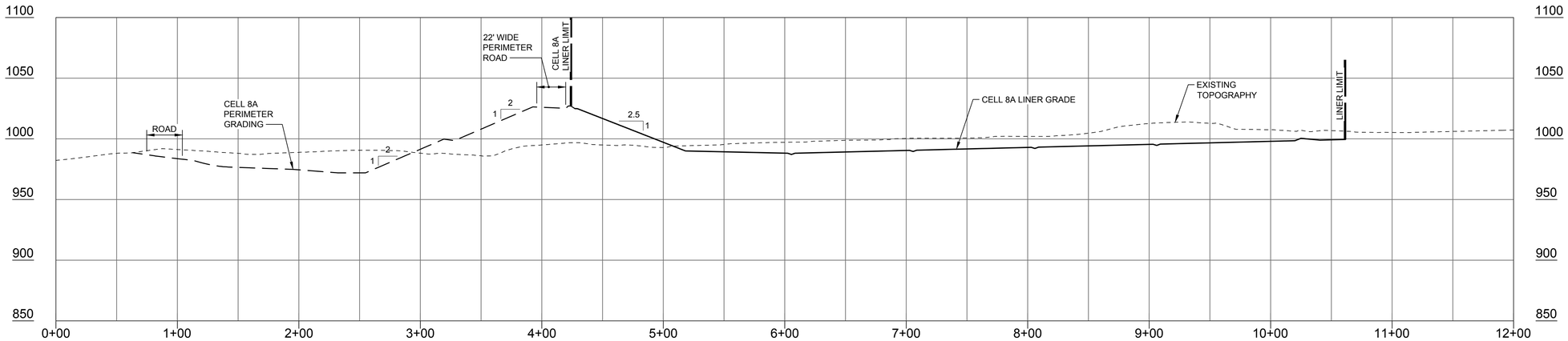


A
-
SECTION
SCALE: 1"=50'



B
-
SECTION
SCALE: 1"=50'

P:\Waste Connections\Chiquita\Cell 8\CAD\SheetFiles\C-301 Sections.dwg 10/23/2020 4:13 PM

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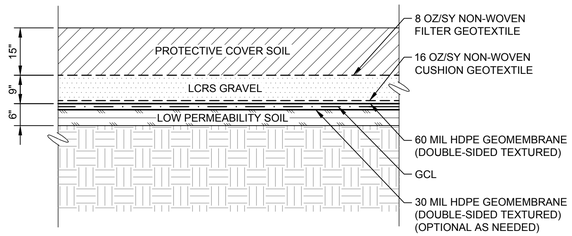
REGISTERED PROFESSIONAL ENGINEER
CALEB H. MOORE
66598
CIVIL
STATE OF CALIFORNIA

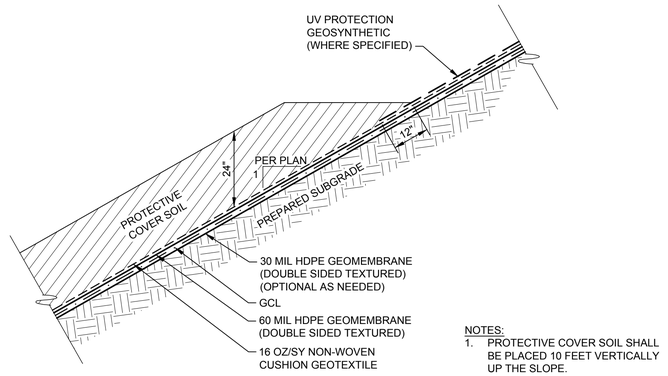
CHIQUITA CANYON LANDFILL

SECTIONS

DESIGNED BY :	D.L.L.	FILE : C-301 Sections.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020	C-301	
APPROVED BY :	C.H.M.	DATE :	10-2020		

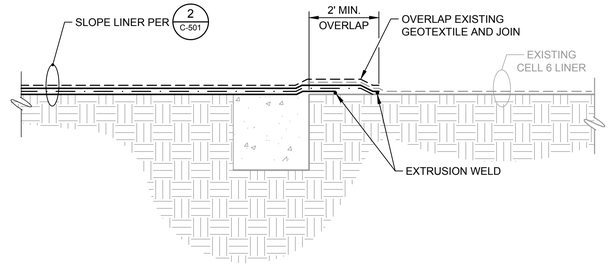


1	BASE LINER
NTS	REFERENCE SHEET: C-103

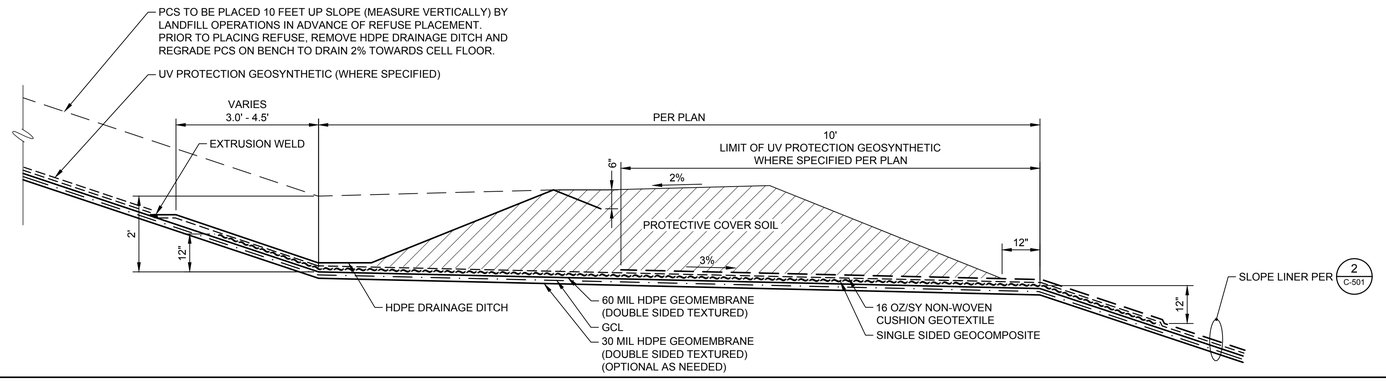


NOTES:
1. PROTECTIVE COVER SOIL SHALL BE PLACED 10 FEET VERTICALLY UP THE SLOPE.

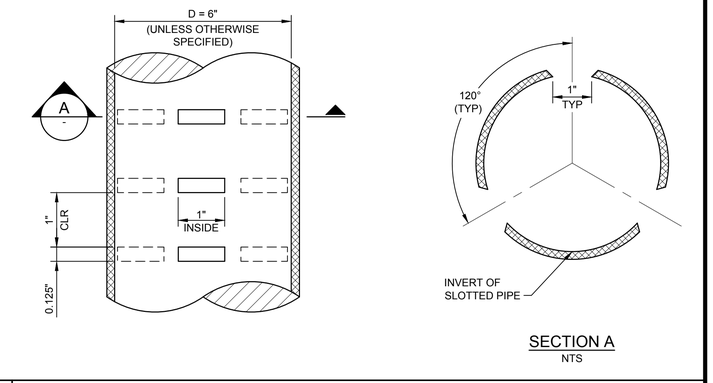
2	SLOPE LINER
NTS	REFERENCE SHEET: C-102, C-103 & C-104



3	SLOPE LINER JOIN
NTS	REFERENCE SHEET: C-102, C-103 & C-104

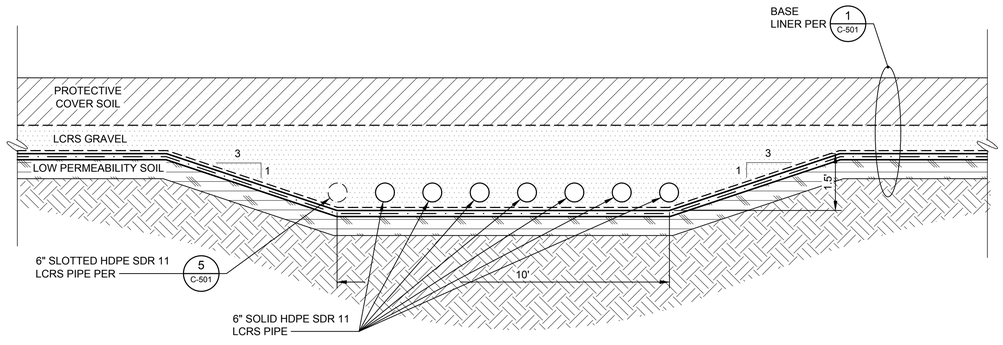


4	BENCH LINER
NTS	REFERENCE SHEET: C-102 & C-104

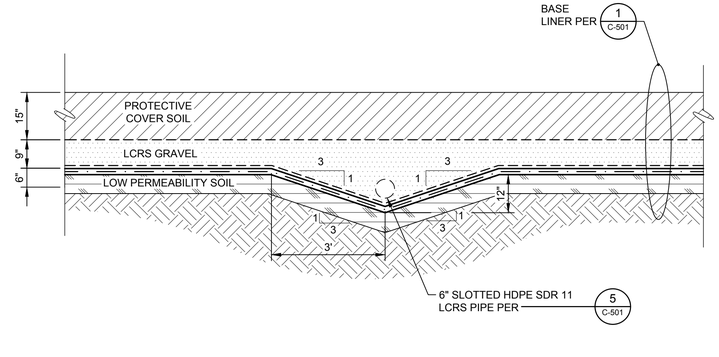


SECTION A
NTS

5	SLOTTED HDPE PIPE
NTS	REFERENCE SHEET: C-501, C-502 & C-507



6	LCRS MAINLINE
NTS	REFERENCE SHEET: C-103



7	LCRS LATERAL
NTS	REFERENCE SHEET: C-103

FOR PERMITTING
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NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	BY:

CHIQUITA CANYON
A Waste Connections Company

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REGISTERED PROFESSIONAL ENGINEER
CALEB H. MOORE
66598
CIVIL
STATE OF CALIFORNIA

CHIQUITA CANYON LANDFILL

DETAILS

DESIGNED BY :	D.L.L.	FILE : C-501 Details.dwg			
DRAWN BY :	A.N.P.	DATE : 10-2020	SCALE: AS SHOWN		
CHECKED BY :	J.M.H.	DATE : 10-2020	C-501		
APPROVED BY :	C.H.M.	DATE : 10-2020			

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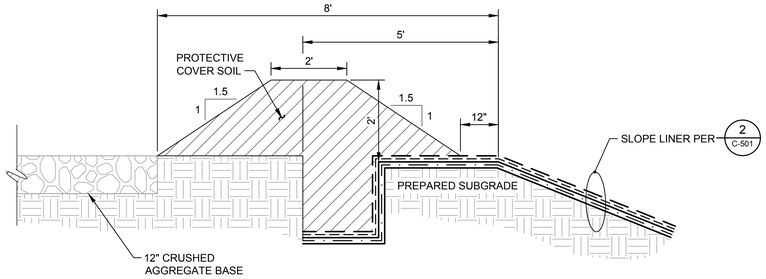
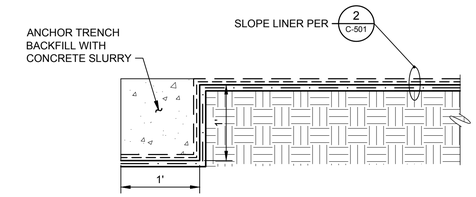
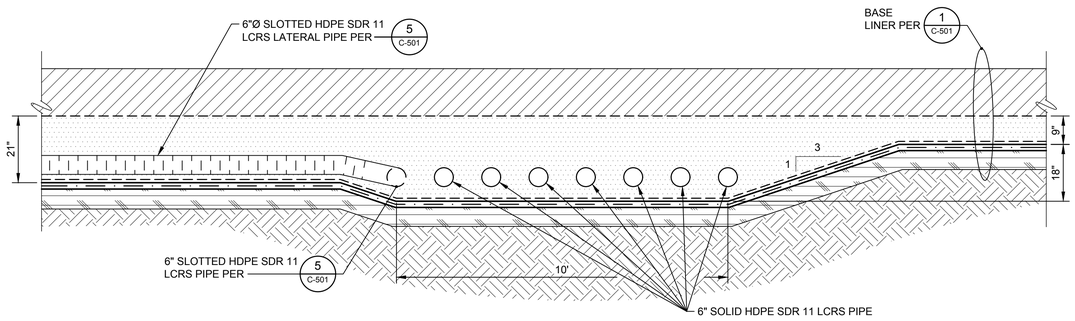


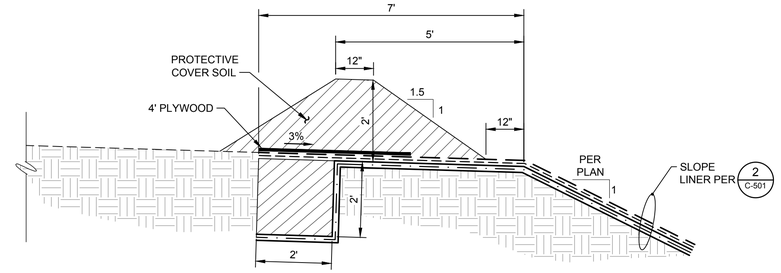
1	ACCESS ROAD AND TOP OF SLOPE LINER TERMINATION
NTS	REFERENCE SHEET: C-102, C-103 & C-104



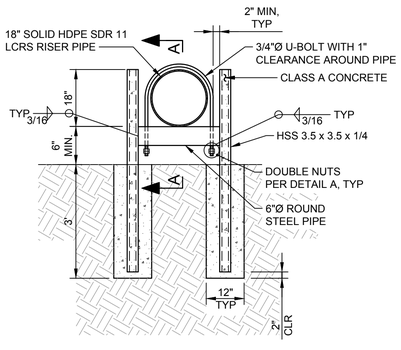
2	SIDE SLOPE LINER TERMINATION
NTS	REFERENCE SHEET: C-104

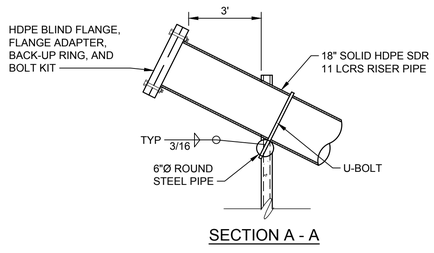


3	LATERAL MAINLINE CONNECTION
NTS	REFERENCE SHEET: C-104

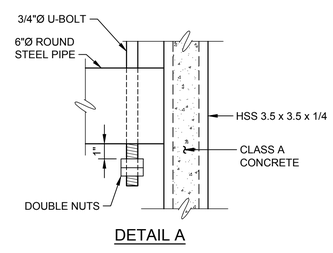


4	BENCH LINER TERMINATION
NTS	REFERENCE SHEET: C-103



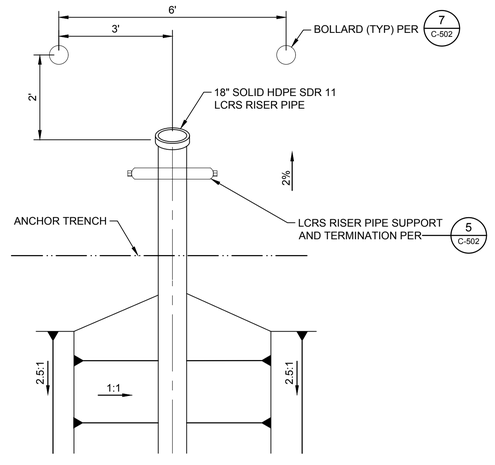


SECTION A - A

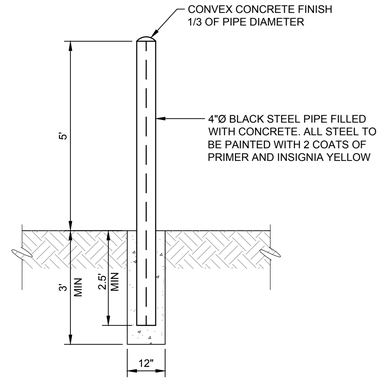


DETAIL A

5	LCRS RISER PIPE SUPPORT & TERMINATION
NTS	REFERENCE SHEET: C-103



6	LCRS RISER
NTS	REFERENCE SHEET: C-103



7	BOLLARD
NTS	REFERENCE SHEET: C-502

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NO.	REVISION DESCRIPTION	BY:

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DETAILS

DESIGNED BY :	D.L.L.	FILE : C-502 Details.dwg	
DRAWN BY :	A.N.P.	DATE : 10-2020	SCALE: AS SHOWN
CHECKED BY :	J.M.H.	DATE : 10-2020	
APPROVED BY :	C.H.M.	DATE : 10-2020	C-502

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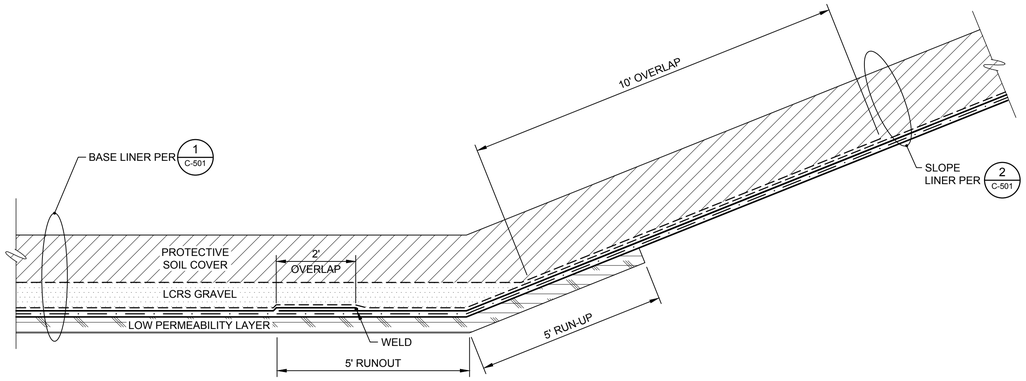
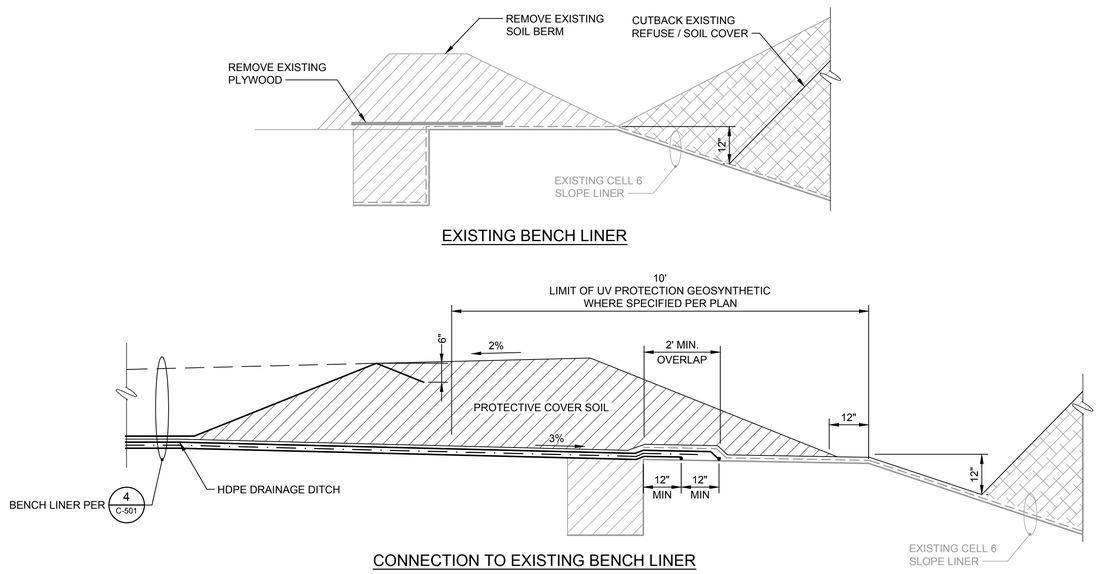
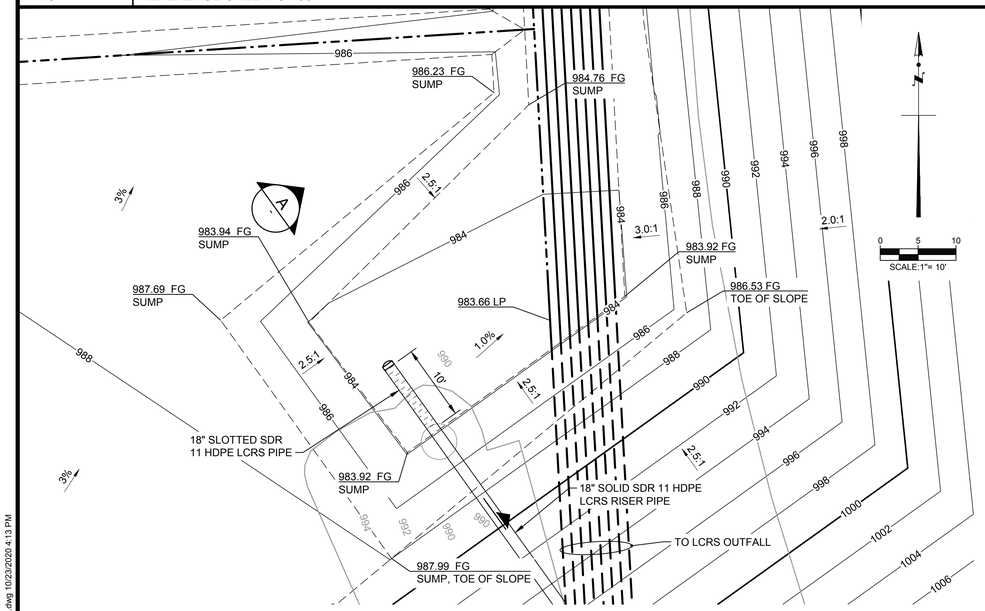
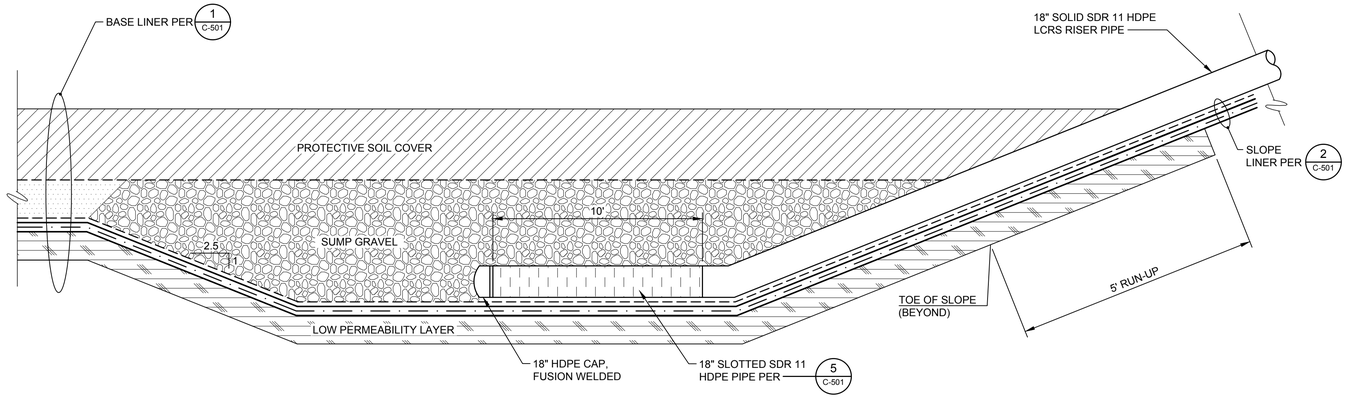


1	SLOPE LINER TO BASE TRANSITION
NTS	REFERENCE SHEET: C-103



2	BENCH LINER JOIN
NTS	REFERENCE SHEET: C-102 & C-104





3	SUMP
NTS	REFERENCE SHEET: C-103

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NO.	REVISION DESCRIPTION	BY:

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DETAILS

DESIGNED BY :	D.L.L.	FILE : C-503 Details.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020		C-503
APPROVED BY :	C.H.M.	DATE :	10-2020		

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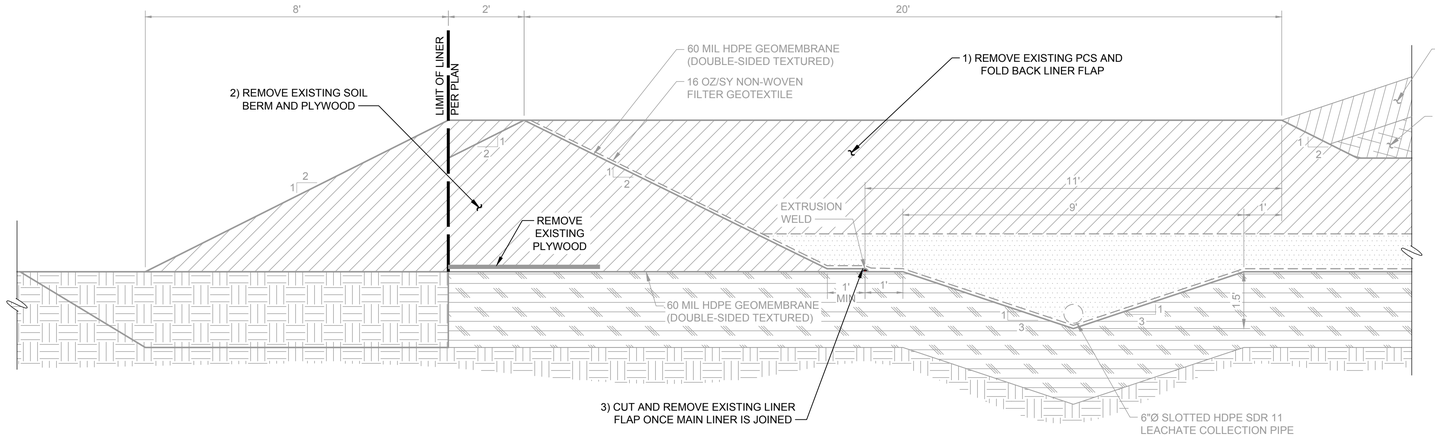
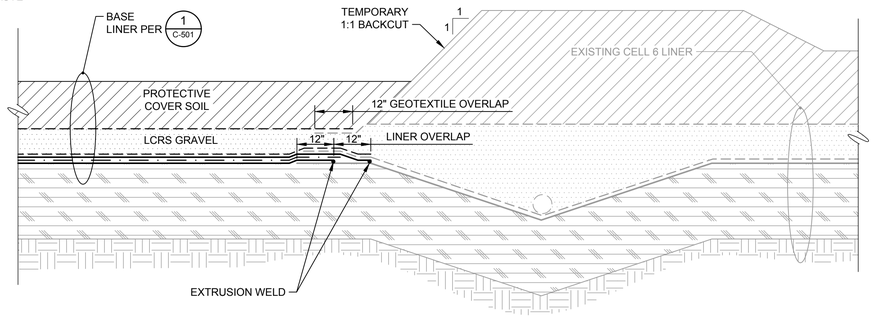
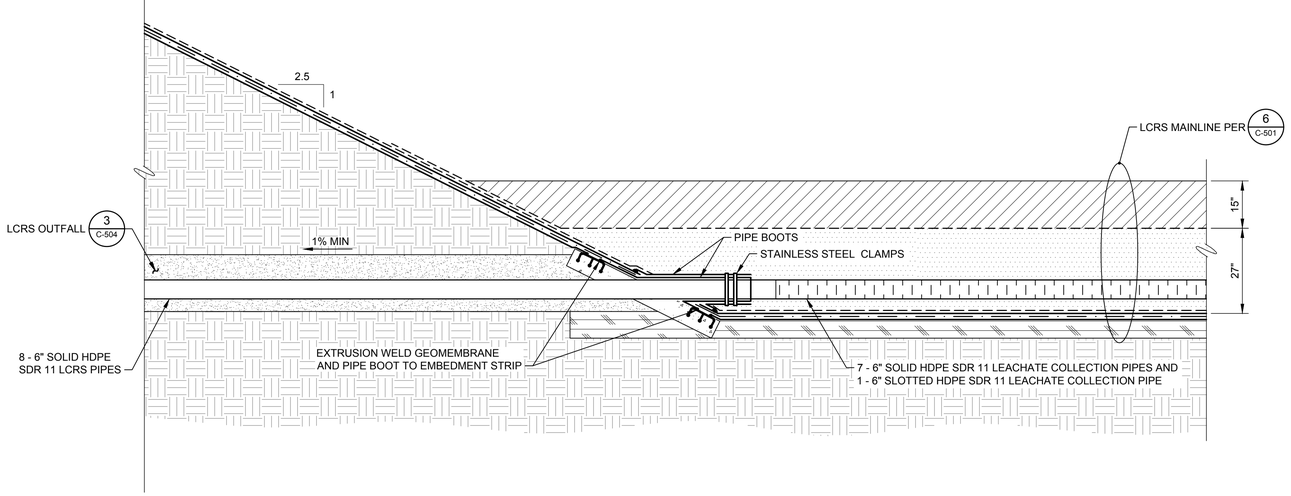


EXISTING BASE LINER

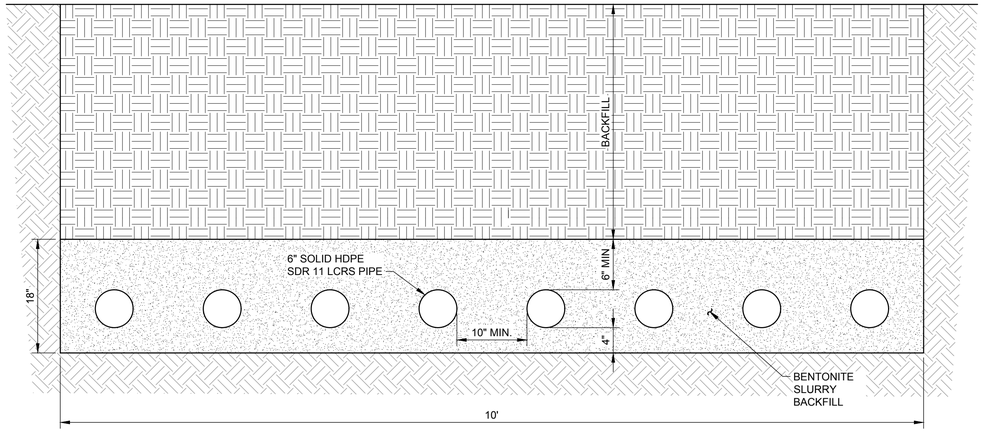


CONNECTION TO EXISTING BASE LINER

1	BASE LINER JOIN
NTS	REFERENCE SHEET: C-103



2	LCRS MAINLINE OUTLET
NTS	REFERENCE SHEET: C-103



3	LCRS OUTFALL
NTS	REFERENCE SHEET: C-103

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DETAILS

DESIGNED BY :	D.L.L.	FILE : C-504 Details.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020	C-504	
APPROVED BY :	C.H.M.	DATE :	10-2020		

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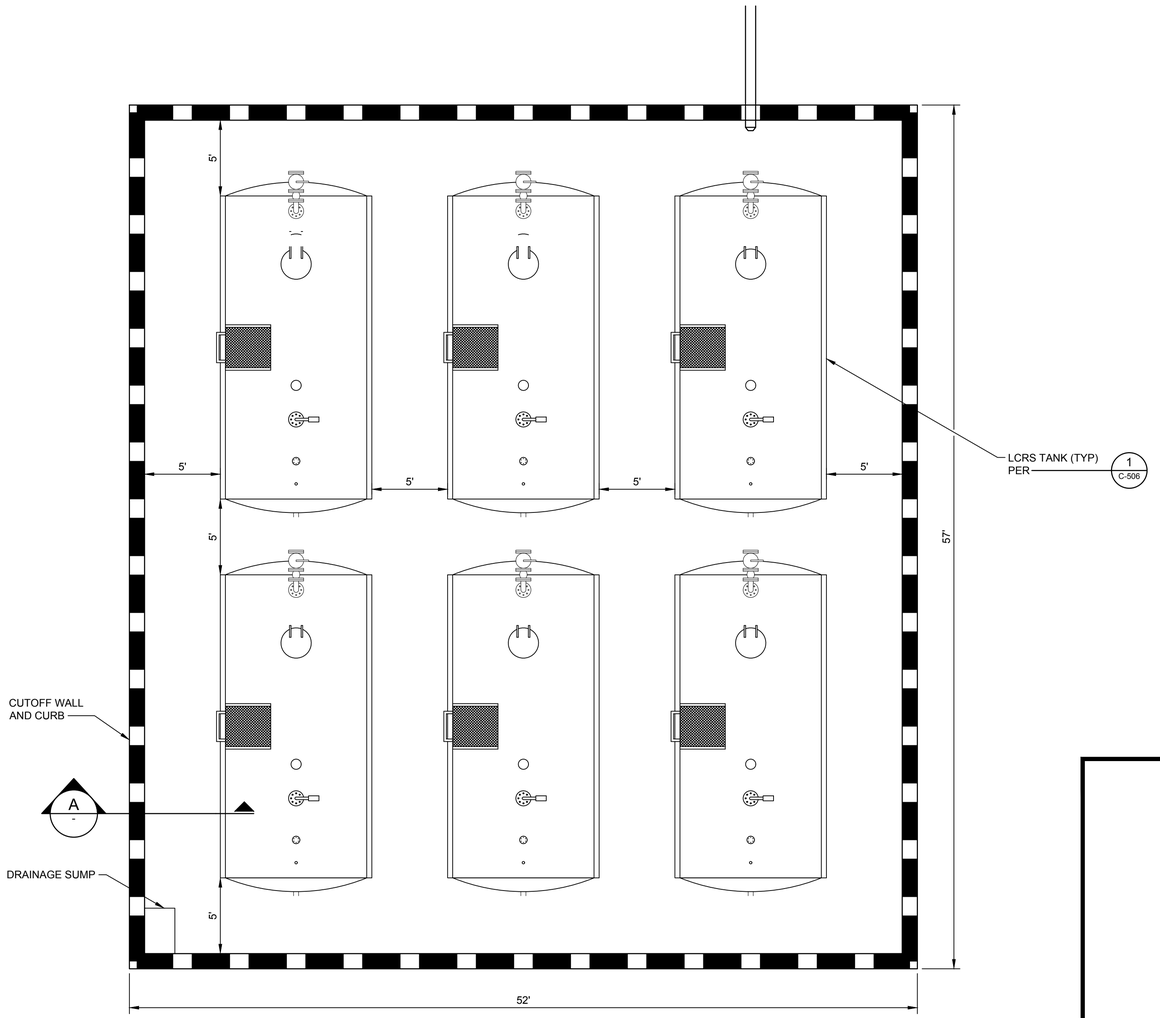
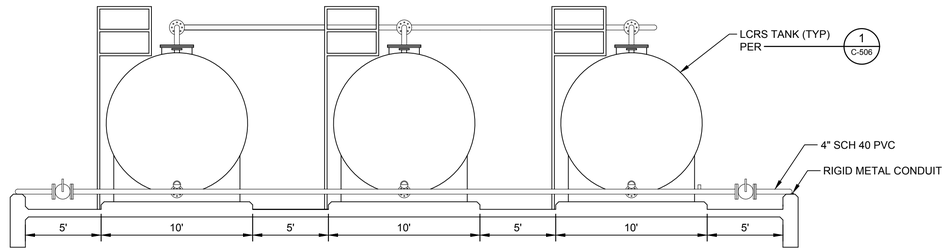
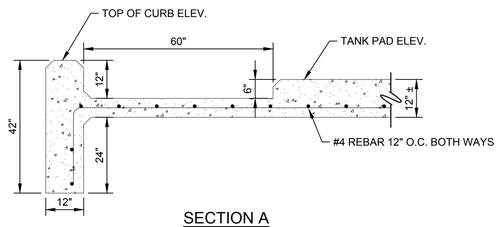


PLAN VIEW
SCALE: 1" = 5'

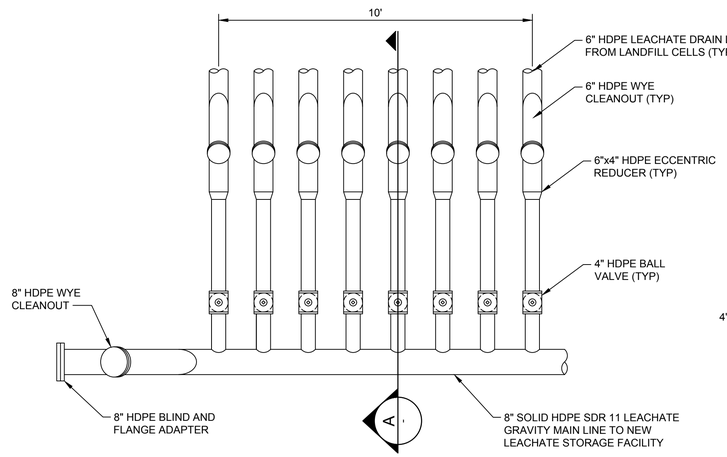


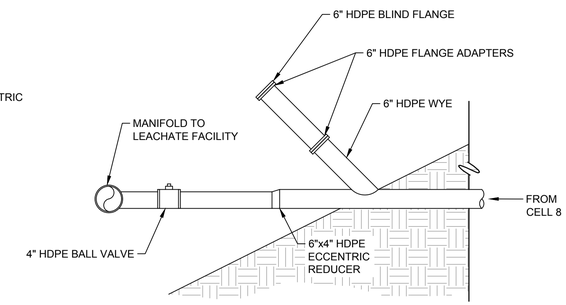
ELEVATION VIEW
SCALE: 1" = 5'



SECTION A
1" = 2'

CONCRETE SLAB TYPICAL EDGE





SECTION A
NTS

1	LEACHATE FACILITY
NTS	REFERENCE SHEET: C-103

2	LCRS DISCHARGE ASSEMBLY
NTS	REFERENCE SHEET: C-103

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NO.	REVISION DESCRIPTION	BY:

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DETAILS

DESIGNED BY :	D.L.L.	FILE : C-505 Details.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020	C-505	
APPROVED BY :	C.H.M.	DATE :	10-2020		

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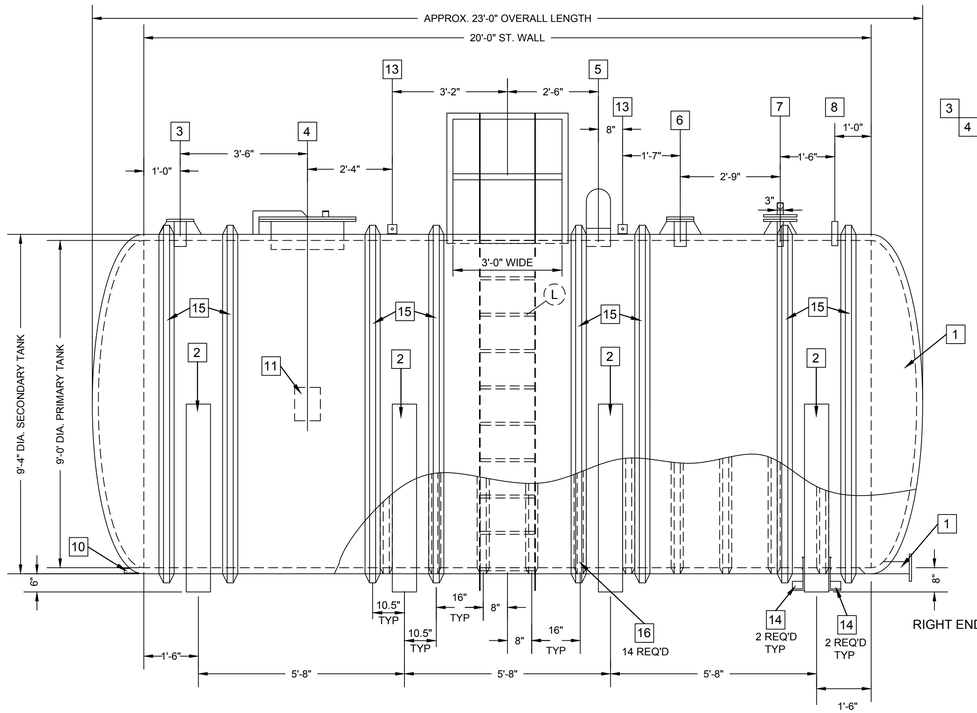
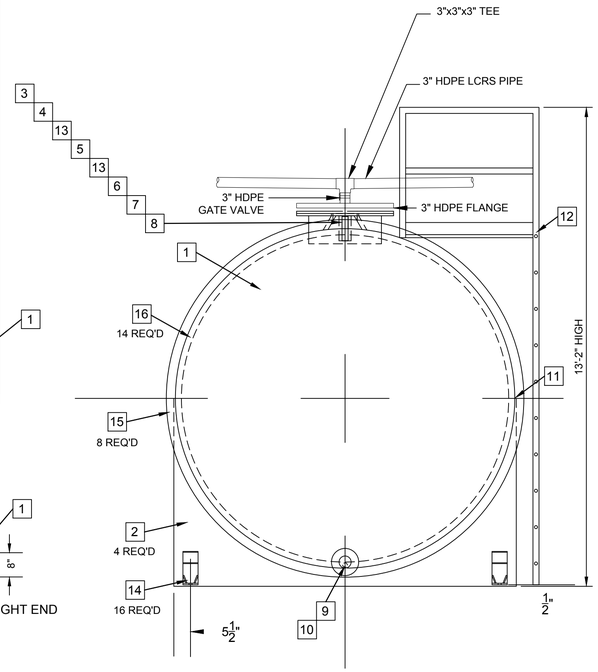


SIDE VIEW

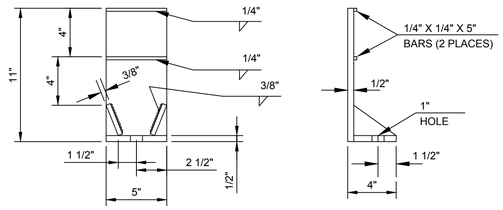


RIGHT END VIEW

CONSTRUCTION NOTES

1. 9'-0" DIA. X 20'-0" ST. WALL DOUBLE WALL FRP TANK WITH DOME ENDS
2. 8" WIDE 180° PLYWOOD SADDLES FRP ENCAPSULATED AND BONDED TO THE TANK
3. 4" FLANGED NOZZLE WITH GUSSETS - INLET
4. 24" TOP MANWAY WITH HINGED FRP COVER AND HANDLE
5. 8" FRP GOOSENECK VENT
6. 4" FLANGED NOZZLE WITH GUSSETS AND FRP BLIND - SPARE
7. 2" FLANGED NOZZLE WITH GUSSETS
8. 2" FRP FNPT FULL COUPLING - REVERSE LEVEL INDICATOR WITH GAUGE BOARD (LEVEL INDICATOR PROVIDED BY HAL MURPHREE & ASSOC.)
9. 4" FLANGED NOZZLE WITH GUSSETS - DISCHARGE
10. 1 1/2" FRP FNPT HALF COUPLING (PENETRATE SECONDARY TANK ONLY) - LEAK DETECTION
11. CERTIFICATION SHEET
12. STEEL LADDER WITH PLATFORM, HANDRAIL AND KICK PLATE (EPOXY PRIMED)
13. GALV. LIFTING LUGS
14. TYPE II HOLD DOWN LUGS (SEE DETAIL) WITH 0.31" ATTACHMENT
15. FOAM REINFORCEMENT RIB STIFFENERS 5" BASE X 3" HEIGHT X 2" CROWN WITH 0.39" OVERLAY
16. DOUBLE WALL FLOW THROUGH RIBS

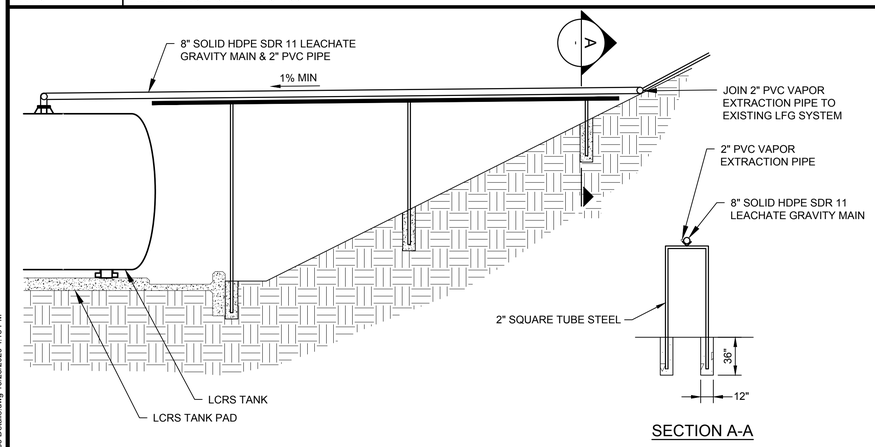
*TANK DESIGN BY EDWARDS FIBERGLASS



TYPE II HOLD DOWN

1 LCRS TANK

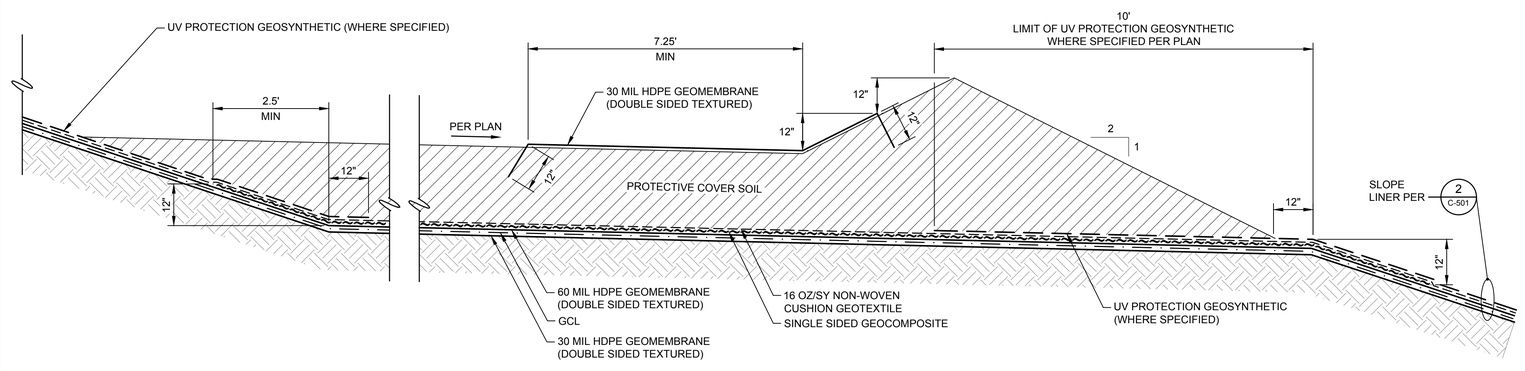
NTS | REFERENCE SHEET: C-103



SECTION A-A

2 LCRS OUTFALL PIPE SUPPORT

NTS | REFERENCE SHEET: C-103



3 STORMWATER DIVERSION BERM AND DECK LINER

NTS | REFERENCE SHEET: C-102

FOR PERMITTING PURPOSES ONLY - NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	BY:

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DETAILS

DESIGNED BY :	D.L.L.	FILE : C-506 Details.dwg			
DRAWN BY :	A.N.P.	DATE : 10-2020	SCALE:	AS SHOWN	
CHECKED BY :	J.M.H.	DATE : 10-2020			
APPROVED BY :	C.H.M.	DATE : 10-2020			C-506

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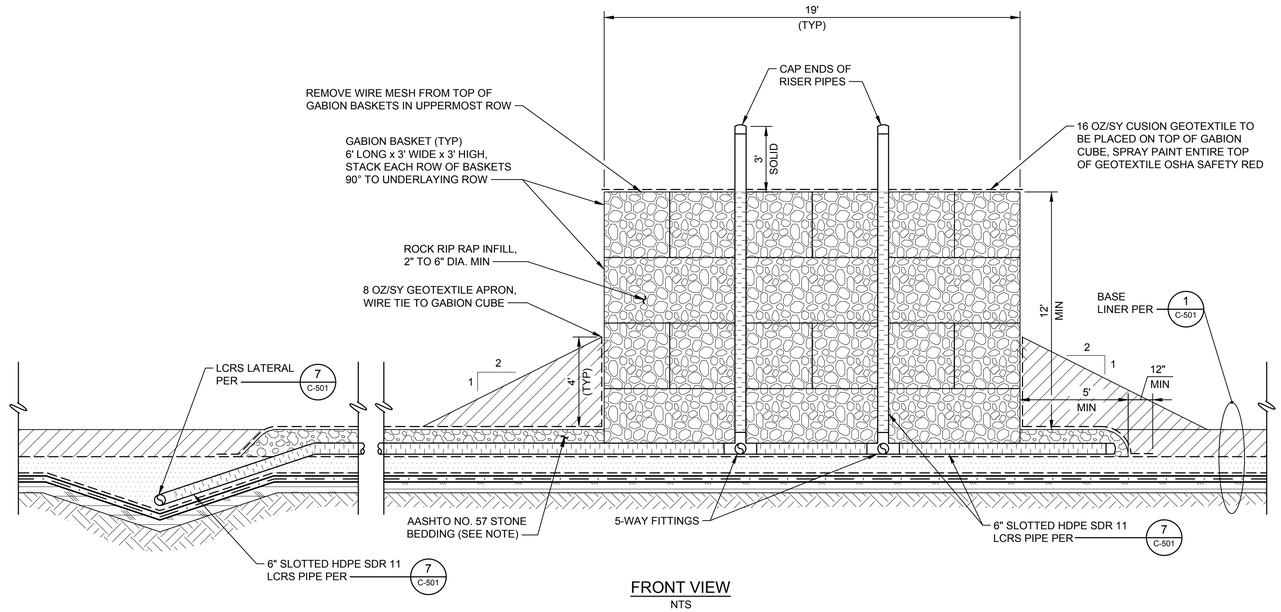
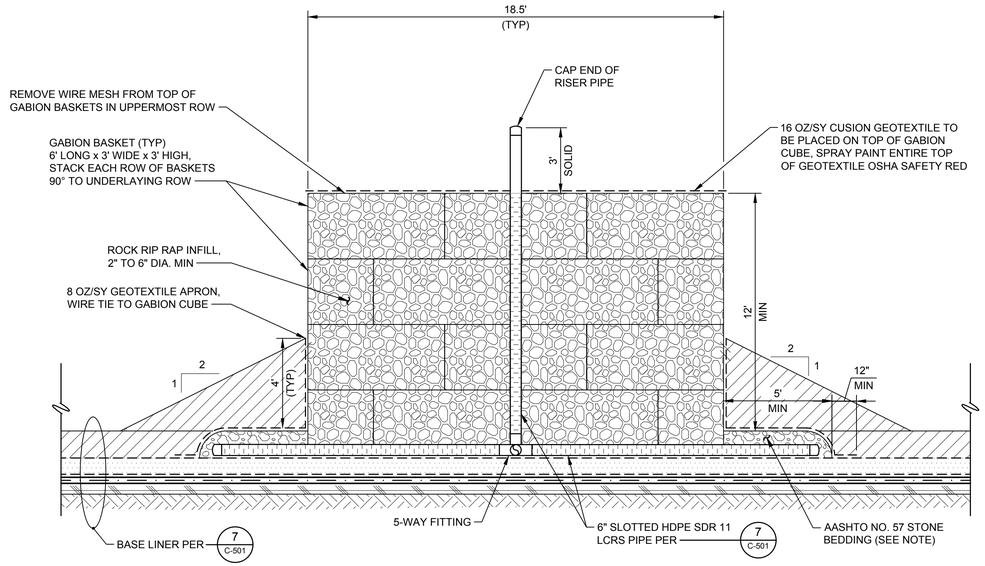
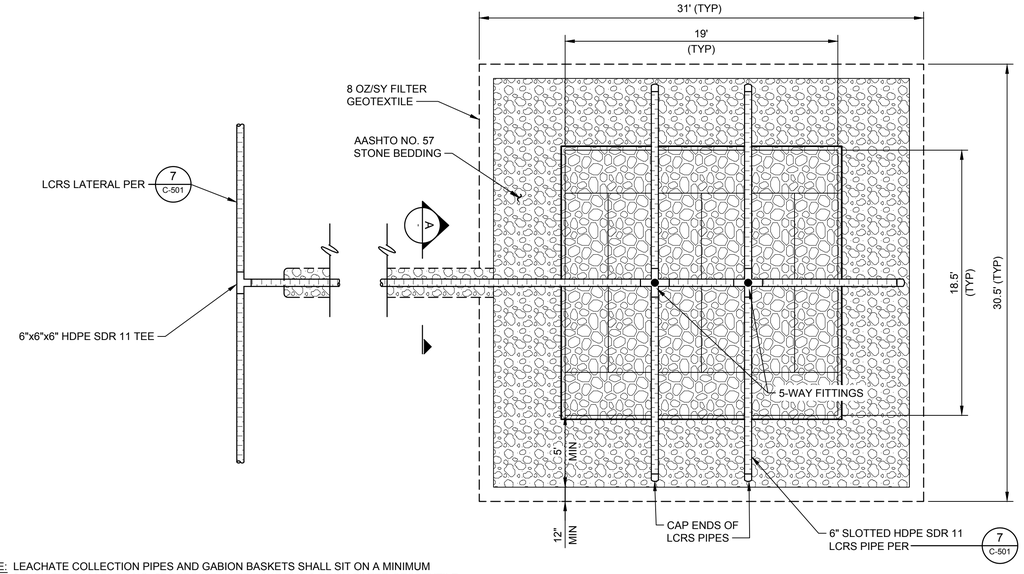


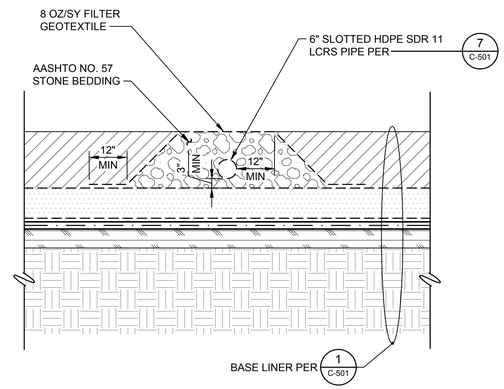
FRONT VIEW
NTS



SIDE VIEW
NTS



PLAN VIEW
NTS



SECTION A
NTS

NOTE: LEACHATE COLLECTION PIPES AND GABION BASKETS SHALL SIT ON A MINIMUM 3-INCH THICK AASHTO NO. 57 BEDDING OVERLYING THE 8 OZ/SY FILTER GEOTEXTILE.

1	GABION CUBE
NTS	REFERENCE SHEET: C-103

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CHIQUITA CANYON LANDFILL

DETAILS

DESIGNED BY :	D.L.L.	FILE : C-507 Details.dwg			
DRAWN BY :	A.N.P.	DATE :	10-2020	SCALE:	AS SHOWN
CHECKED BY :	J.M.H.	DATE :	10-2020		C-507
APPROVED BY :	C.H.M.	DATE :	10-2020		

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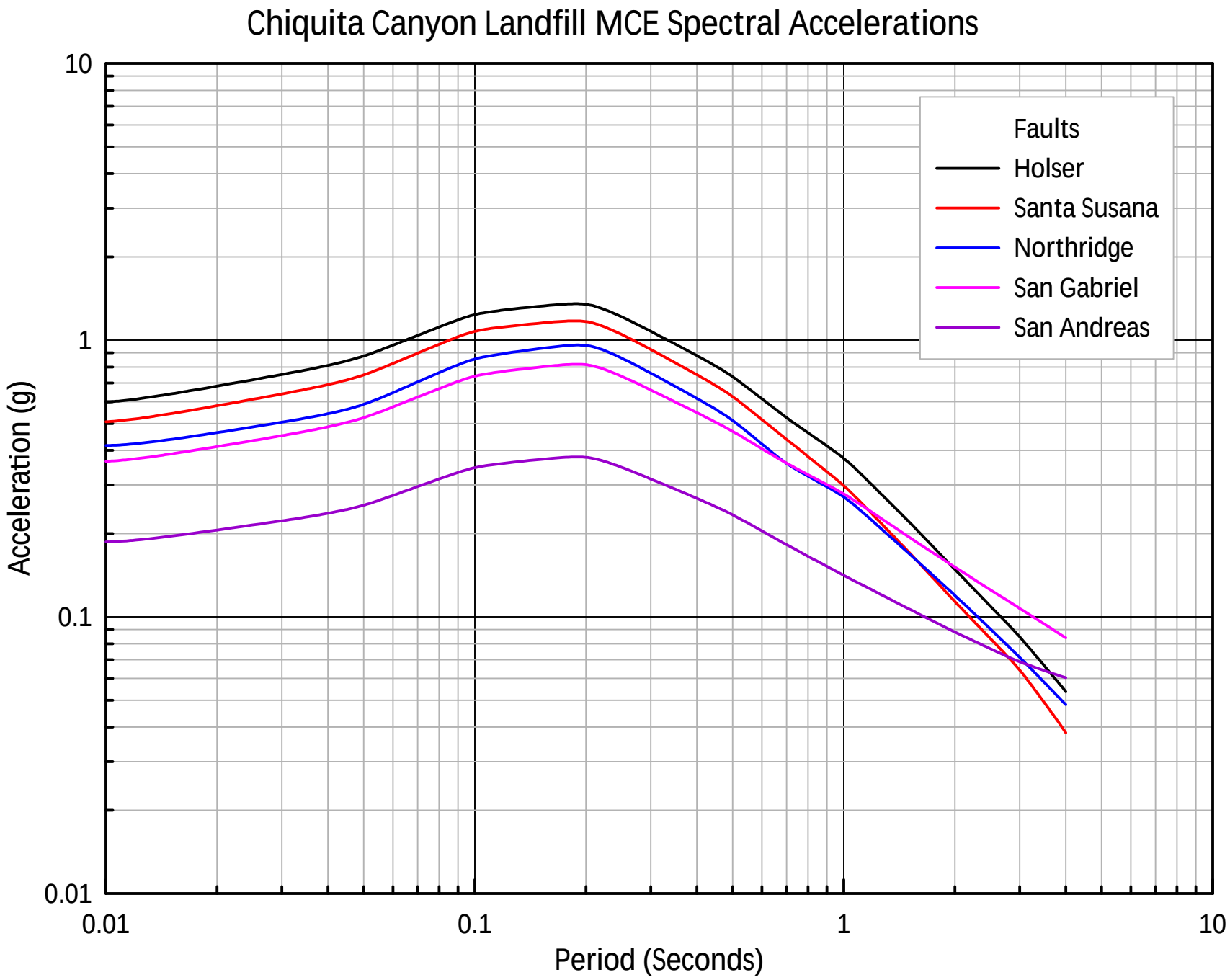
Attachment 2
SITE-SPECIFIC SEISMIC HAZARD EVALUATION


Chiquita Canyon Landfill MCE Spectral Accelerations
Acceleration (g)
10
1
0.1
0.01
0.01
0.1
1
10
Period (Seconds)
Faults
Holser
Santa Susana
Northridge
San Gabriel
San Andreas

Deterministic Spectra Results using EZ-FRISK 8.06 Build 037

Largest Amplitudes of Ground Motions Considering All Sources Calculated using Weighted Mean of Attenuation Equations

Amplitude Units: Acceleration (g)

Fractile: 0.5

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	5.977e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	8.772e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	1.237e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	1.348e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	7.374e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	5.248e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	3.742e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	2.210e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	1.514e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
3	1.073e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	8.401e-002	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.080e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	1.620e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	2.350e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	2.567e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	1.436e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	1.045e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1

1	7.511e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	4.435e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	2.966e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
3	2.070e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	1.588e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Largest Amplitudes of Ground Motions Considering Sources Calculated with Abrahamson-et al (2014) NGA West 2 USGS 2014

Amplitude Units: Acceleration (g)

Fractile: 0.5

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	6.299e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	7.648e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	1.189e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	1.446e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	5.552e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	3.650e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	2.554e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	1.538e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	1.088e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
3	7.678e-002	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	6.415e-002	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.189e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1

0.05	1.421e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	2.233e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	2.832e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	1.120e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	7.439e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	5.249e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	3.172e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	2.254e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
3	1.516e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	1.245e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Largest Amplitudes of Ground Motions Considering Sources Calculated with Boore-et al (2014) NGA West 2 USGS 2014

Amplitude Units: Acceleration (g)

Fractile: 0.5

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	4.428e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana, alt 1
0.05	5.979e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana, alt 1
0.1	9.217e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana, alt 1
0.2	1.071e+000	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana, alt 1
0.5	6.583e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana, alt 1
0.7	4.613e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,

alt 1						
1	3.272e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
1.5	2.074e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	
2	1.559e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	
3	1.130e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	
4	9.174e-002	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source	
PGA	8.095e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
0.05	1.178e+000	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
0.1	1.865e+000	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
0.2	1.987e+000	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
0.5	1.243e+000	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
0.7	8.982e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
1	6.471e-001	6.90 Mw	8.22	USGS 2008 California - 2014 Rates Excluded	Santa Susana,	
alt 1						
1.5	4.023e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	
2	3.014e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	
3	2.175e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	
4	1.749e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel	

Largest Amplitudes of Ground Motions Considering Sources Calculated with Campbell-Bozorgnia (2014) NGA West 2 USGS 2014

Amplitude Units: Acceleration (g)

Fractile: 0.5

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	6.974e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	1.208e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	1.435e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	1.381e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	8.256e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	6.331e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	4.647e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	2.782e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	1.877e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
3	1.398e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	1.096e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.234e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	2.188e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	2.720e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	2.628e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	1.600e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	1.275e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	9.450e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1

1.5	5.643e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	3.746e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
3	2.703e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	2.040e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Largest Amplitudes of Ground Motions Considering Sources Calculated with Chiou-Youngs (2014) NGA West 2 USGS 2014

Amplitude Units: Acceleration (g)

Fractile: 0.5

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	6.260e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	9.436e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.1	1.407e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	1.502e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	9.255e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	6.525e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	4.549e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	2.675e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	1.806e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
3	9.971e-002	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel
4	7.049e-002	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Fractile: 0.84

Period	Amplitude	Magnitude	Closest Distance(km)	Region	Controlling Source
PGA	1.098e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.05	1.705e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1

0.1	2.589e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.2	2.835e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.5	1.808e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
0.7	1.287e+000	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1	8.978e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
1.5	5.286e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
2	3.553e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
3	1.895e-001	6.80 Mw	1.75	USGS 2008 California - 2014 Rates Excluded	Holser, alt 1
4	1.316e-001	7.30 Mw	6.44	USGS 2008 California - 2014 Rates Excluded	San Gabriel

Largest Amplitudes of Ground Motions for Each Source

Source: Anacapa-Dume
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 36.47 km
Amplitude Units: Acceleration (g)
Magnitude: 7.20 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.087e-001	1.115e-001	1.017e-001	1.036e-001	1.181e-001
0.05	1.498e-001	1.400e-001	1.249e-001	1.580e-001	1.764e-001

0.1	2.125e-001	2.109e-001	1.900e-001	1.952e-001	2.538e-001
0.2	2.314e-001	2.483e-001	2.231e-001	1.915e-001	2.630e-001
0.5	1.343e-001	1.198e-001	1.370e-001	1.295e-001	1.511e-001
0.7	9.727e-002	8.520e-002	9.799e-002	9.643e-002	1.095e-001
1	6.672e-002	5.847e-002	6.666e-002	6.818e-002	7.359e-002
1.5	4.228e-002	3.622e-002	4.147e-002	4.646e-002	4.496e-002
2	3.044e-002	2.647e-002	2.841e-002	3.521e-002	3.166e-002
3	1.864e-002	1.636e-002	1.762e-002	2.275e-002	1.785e-002
4	1.340e-002	1.223e-002	1.301e-002	1.721e-002	1.113e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.970e-001	2.091e-001	1.860e-001	1.854e-001	2.074e-001
0.05	2.810e-001	2.632e-001	2.460e-001	2.957e-001	3.192e-001
0.1	4.096e-001	4.019e-001	3.844e-001	3.830e-001	4.690e-001
0.2	4.399e-001	4.833e-001	4.138e-001	3.645e-001	4.982e-001
0.5	2.614e-001	2.403e-001	2.587e-001	2.509e-001	2.956e-001
0.7	1.935e-001	1.727e-001	1.908e-001	1.942e-001	2.161e-001
1	1.347e-001	1.203e-001	1.327e-001	1.396e-001	1.463e-001
1.5	8.580e-002	7.518e-002	8.274e-002	9.536e-002	8.993e-002
2	6.178e-002	5.542e-002	5.699e-002	7.143e-002	6.329e-002
3	3.782e-002	3.395e-002	3.563e-002	4.622e-002	3.546e-002
4	2.687e-002	2.517e-002	2.631e-002	3.396e-002	2.203e-002

Source: Elysian Park (Upper)
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 47.94 km
Amplitude Units: Acceleration (g)
Magnitude: 6.70 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.135e-002	6.563e-002	5.657e-002	6.509e-002	5.811e-002
0.05	8.346e-002	8.222e-002	6.915e-002	9.612e-002	8.636e-002
0.1	1.193e-001	1.221e-001	1.090e-001	1.243e-001	1.219e-001
0.2	1.324e-001	1.405e-001	1.337e-001	1.294e-001	1.262e-001
0.5	7.583e-002	6.675e-002	7.930e-002	8.450e-002	7.274e-002
0.7	5.409e-002	4.542e-002	5.570e-002	6.246e-002	5.278e-002
1	3.634e-002	2.989e-002	3.694e-002	4.304e-002	3.551e-002
1.5	2.209e-002	1.794e-002	2.152e-002	2.723e-002	2.169e-002
2	1.527e-002	1.274e-002	1.399e-002	1.926e-002	1.509e-002
3	8.742e-003	7.207e-003	7.928e-003	1.167e-002	8.165e-003
4	5.845e-003	4.969e-003	5.446e-003	8.152e-003	4.813e-003

Fractile: 0.84

Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.116e-001	1.243e-001	1.034e-001	1.167e-001	1.021e-001
0.05	1.574e-001	1.563e-001	1.362e-001	1.807e-001	1.564e-001
0.1	2.317e-001	2.355e-001	2.206e-001	2.449e-001	2.258e-001
0.2	2.524e-001	2.760e-001	2.480e-001	2.462e-001	2.395e-001
0.5	1.477e-001	1.350e-001	1.498e-001	1.637e-001	1.424e-001
0.7	1.078e-001	9.285e-002	1.085e-001	1.258e-001	1.042e-001
1	7.356e-002	6.200e-002	7.354e-002	8.811e-002	7.059e-002
1.5	4.494e-002	3.753e-002	4.293e-002	5.589e-002	4.339e-002
2	3.105e-002	2.690e-002	2.807e-002	3.906e-002	3.017e-002
3	1.776e-002	1.508e-002	1.603e-002	2.371e-002	1.623e-002
4	1.173e-002	1.031e-002	1.101e-002	1.608e-002	9.531e-003

Source: Garlock
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 48.75 km
Amplitude Units: Acceleration (g)
Magnitude: 7.72 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations

Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.052e-001	1.152e-001	1.028e-001	9.786e-002	1.049e-001
0.05	1.418e-001	1.432e-001	1.263e-001	1.454e-001	1.525e-001
0.1	1.931e-001	2.118e-001	1.752e-001	1.690e-001	2.166e-001
0.2	2.108e-001	2.562e-001	2.004e-001	1.601e-001	2.263e-001
0.5	1.307e-001	1.389e-001	1.259e-001	1.214e-001	1.369e-001
0.7	9.910e-002	1.043e-001	9.500e-002	9.430e-002	1.028e-001
1	7.194e-002	7.614e-002	6.884e-002	6.982e-002	7.297e-002
1.5	5.008e-002	5.025e-002	4.865e-002	5.383e-002	4.757e-002
2	3.868e-002	3.863e-002	3.749e-002	4.334e-002	3.526e-002
3	2.711e-002	2.585e-002	2.847e-002	3.139e-002	2.274e-002
4	2.172e-002	2.046e-002	2.478e-002	2.577e-002	1.589e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.909e-001	2.160e-001	1.880e-001	1.753e-001	1.843e-001
0.05	2.666e-001	2.691e-001	2.488e-001	2.724e-001	2.760e-001
0.1	3.726e-001	4.035e-001	3.545e-001	3.318e-001	4.004e-001

0.2	4.011e-001	4.988e-001	3.718e-001	3.047e-001	4.289e-001
0.5	2.548e-001	2.785e-001	2.377e-001	2.352e-001	2.678e-001
0.7	1.970e-001	2.110e-001	1.847e-001	1.896e-001	2.027e-001
1	1.446e-001	1.558e-001	1.362e-001	1.421e-001	1.442e-001
1.5	1.007e-001	1.032e-001	9.604e-002	1.093e-001	9.415e-002
2	7.753e-002	7.975e-002	7.417e-002	8.670e-002	6.951e-002
3	5.403e-002	5.266e-002	5.652e-002	6.259e-002	4.435e-002
4	4.268e-002	4.119e-002	4.901e-002	4.973e-002	3.077e-002

Source: Hollywood
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 41.78 km
Amplitude Units: Acceleration (g)
Magnitude: 6.70 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.768e-002	6.489e-002	7.326e-002	7.494e-002	5.764e-002
0.05	9.376e-002	8.170e-002	9.457e-002	1.123e-001	8.645e-002
0.1	1.332e-001	1.224e-001	1.418e-001	1.453e-001	1.232e-001
0.2	1.471e-001	1.401e-001	1.712e-001	1.497e-001	1.272e-001
0.5	8.285e-002	6.695e-002	9.651e-002	9.597e-002	7.196e-002

0.7	6.088e-002	4.739e-002	7.086e-002	7.221e-002	5.306e-002
1	4.333e-002	3.354e-002	4.996e-002	5.243e-002	3.738e-002
1.5	2.810e-002	2.184e-002	3.133e-002	3.520e-002	2.402e-002
2	2.050e-002	1.644e-002	2.192e-002	2.630e-002	1.735e-002
3	1.289e-002	1.009e-002	1.409e-002	1.690e-002	1.046e-002
4	9.294e-003	7.390e-003	1.062e-002	1.243e-002	6.737e-003

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.231e-001	1.229e-001	1.339e-001	1.343e-001	1.013e-001
0.05	1.773e-001	1.553e-001	1.862e-001	2.109e-001	1.566e-001
0.1	2.593e-001	2.362e-001	2.869e-001	2.860e-001	2.282e-001
0.2	2.798e-001	2.752e-001	3.176e-001	2.849e-001	2.414e-001
0.5	1.611e-001	1.354e-001	1.823e-001	1.860e-001	1.409e-001
0.7	1.209e-001	9.659e-002	1.376e-001	1.450e-001	1.045e-001
1	8.683e-002	6.892e-002	9.852e-002	1.063e-001	7.359e-002
1.5	5.615e-002	4.491e-002	6.144e-002	7.101e-002	4.724e-002
2	4.075e-002	3.392e-002	4.299e-002	5.216e-002	3.392e-002
3	2.541e-002	2.049e-002	2.766e-002	3.331e-002	2.018e-002
4	1.801e-002	1.480e-002	2.072e-002	2.367e-002	1.287e-002

Source: Holser, alt 1
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 1.75 km
Amplitude Units: Acceleration (g)
Magnitude: 6.80 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.977e-001	6.299e-001	4.374e-001	6.974e-001	6.260e-001
0.05	8.772e-001	7.648e-001	5.927e-001	1.208e+000	9.436e-001
0.1	1.237e+000	1.189e+000	9.175e-001	1.435e+000	1.407e+000
0.2	1.348e+000	1.446e+000	1.064e+000	1.381e+000	1.502e+000
0.5	7.374e-001	5.552e-001	6.433e-001	8.256e-001	9.255e-001
0.7	5.248e-001	3.650e-001	4.485e-001	6.331e-001	6.525e-001
1	3.742e-001	2.554e-001	3.219e-001	4.647e-001	4.549e-001
1.5	2.210e-001	1.538e-001	1.845e-001	2.782e-001	2.675e-001
2	1.485e-001	1.088e-001	1.169e-001	1.876e-001	1.806e-001
3	8.457e-002	6.405e-002	6.495e-002	1.118e-001	9.743e-002
4	5.365e-002	4.438e-002	4.266e-002	6.870e-002	5.887e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014

Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.080e+000	1.189e+000	7.996e-001	1.234e+000	1.098e+000
0.05	1.620e+000	1.421e+000	1.167e+000	2.188e+000	1.705e+000
0.1	2.350e+000	2.233e+000	1.857e+000	2.720e+000	2.589e+000
0.2	2.567e+000	2.832e+000	1.974e+000	2.628e+000	2.835e+000
0.5	1.436e+000	1.120e+000	1.215e+000	1.600e+000	1.808e+000
0.7	1.045e+000	7.439e-001	8.733e-001	1.275e+000	1.287e+000
1	7.511e-001	5.249e-001	6.366e-001	9.450e-001	8.978e-001
1.5	4.435e-001	3.172e-001	3.637e-001	5.643e-001	5.286e-001
2	2.966e-001	2.254e-001	2.309e-001	3.746e-001	3.553e-001
3	1.679e-001	1.309e-001	1.286e-001	2.225e-001	1.895e-001
4	1.049e-001	8.959e-002	8.415e-002	1.322e-001	1.137e-001

Source: Malibu Coast
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 41.88 km
Amplitude Units: Acceleration (g)
Magnitude: 7.00 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014

Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	8.063e-002	8.033e-002	8.478e-002	8.455e-002	7.287e-002
0.05	1.111e-001	1.009e-001	1.083e-001	1.267e-001	1.086e-001
0.1	1.561e-001	1.510e-001	1.589e-001	1.594e-001	1.551e-001
0.2	1.714e-001	1.760e-001	1.886e-001	1.606e-001	1.605e-001
0.5	9.902e-002	8.712e-002	1.095e-001	1.075e-001	9.198e-002
0.7	7.230e-002	6.207e-002	7.982e-002	8.022e-002	6.707e-002
1	5.003e-002	4.297e-002	5.476e-002	5.670e-002	4.569e-002
1.5	3.189e-002	2.704e-002	3.413e-002	3.799e-002	2.841e-002
2	2.304e-002	1.996e-002	2.384e-002	2.816e-002	2.021e-002
3	1.446e-002	1.235e-002	1.545e-002	1.798e-002	1.207e-002
4	1.052e-002	9.240e-003	1.179e-002	1.324e-002	7.814e-003

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.463e-001	1.507e-001	1.550e-001	1.515e-001	1.280e-001
0.05	2.094e-001	1.899e-001	2.133e-001	2.376e-001	1.967e-001
0.1	3.026e-001	2.885e-001	3.215e-001	3.134e-001	2.870e-001
0.2	3.256e-001	3.427e-001	3.498e-001	3.056e-001	3.044e-001
0.5	1.924e-001	1.747e-001	2.068e-001	2.082e-001	1.800e-001
0.7	1.434e-001	1.255e-001	1.550e-001	1.611e-001	1.321e-001

1	1.001e-001	8.757e-002	1.080e-001	1.150e-001	8.995e-002
1.5	6.365e-002	5.518e-002	6.693e-002	7.665e-002	5.586e-002
2	4.574e-002	4.085e-002	4.677e-002	5.584e-002	3.951e-002
3	2.848e-002	2.487e-002	3.032e-002	3.544e-002	2.328e-002
4	2.038e-002	1.835e-002	2.300e-002	2.522e-002	1.494e-002

Source: Mission Ridge-Arroyo Parida-Santa Ana
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 46.61 km
Amplitude Units: Acceleration (g)
Magnitude: 6.90 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.674e-002	6.709e-002	6.571e-002	6.881e-002	6.535e-002
0.05	9.106e-002	8.413e-002	8.000e-002	1.032e-001	9.694e-002
0.1	1.291e-001	1.251e-001	1.242e-001	1.296e-001	1.374e-001
0.2	1.419e-001	1.454e-001	1.501e-001	1.297e-001	1.425e-001
0.5	8.328e-002	7.302e-002	9.049e-002	8.733e-002	8.229e-002
0.7	6.005e-002	5.152e-002	6.399e-002	6.478e-002	5.991e-002
1	4.084e-002	3.507e-002	4.283e-002	4.497e-002	4.049e-002
1.5	2.547e-002	2.173e-002	2.563e-002	2.957e-002	2.494e-002

2	1.807e-002	1.584e-002	1.703e-002	2.183e-002	1.757e-002
3	1.086e-002	9.579e-003	1.001e-002	1.364e-002	1.021e-002
4	7.606e-003	7.002e-003	7.087e-003	1.001e-002	6.326e-003

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.211e-001	1.262e-001	1.201e-001	1.234e-001	1.148e-001
0.05	1.715e-001	1.590e-001	1.576e-001	1.938e-001	1.756e-001
0.1	2.503e-001	2.400e-001	2.514e-001	2.553e-001	2.544e-001
0.2	2.699e-001	2.839e-001	2.785e-001	2.469e-001	2.702e-001
0.5	1.620e-001	1.468e-001	1.709e-001	1.692e-001	1.611e-001
0.7	1.195e-001	1.047e-001	1.246e-001	1.305e-001	1.183e-001
1	8.254e-002	7.236e-002	8.527e-002	9.206e-002	8.048e-002
1.5	5.173e-002	4.521e-002	5.113e-002	6.069e-002	4.989e-002
2	3.670e-002	3.324e-002	3.416e-002	4.428e-002	3.513e-002
3	2.204e-002	1.994e-002	2.024e-002	2.770e-002	2.029e-002
4	1.526e-002	1.445e-002	1.433e-002	1.975e-002	1.253e-002

Source: Newport-Inglewood
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 49.16 km

Amplitude Units: Acceleration (g)
Magnitude: 7.50 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	9.035e-002	9.646e-002	8.965e-002	8.712e-002	8.819e-002
0.05	1.224e-001	1.202e-001	1.109e-001	1.296e-001	1.288e-001
0.1	1.677e-001	1.778e-001	1.564e-001	1.537e-001	1.828e-001
0.2	1.832e-001	2.132e-001	1.816e-001	1.477e-001	1.904e-001
0.5	1.122e-001	1.147e-001	1.118e-001	1.088e-001	1.135e-001
0.7	8.445e-002	8.538e-002	8.369e-002	8.381e-002	8.492e-002
1	6.082e-002	6.192e-002	5.995e-002	6.142e-002	5.999e-002
1.5	4.162e-002	4.068e-002	4.104e-002	4.577e-002	3.899e-002
2	3.174e-002	3.112e-002	3.084e-002	3.620e-002	2.880e-002
3	2.173e-002	2.057e-002	2.245e-002	2.541e-002	1.850e-002
4	1.704e-002	1.613e-002	1.887e-002	2.036e-002	1.279e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.640e-001	1.809e-001	1.639e-001	1.561e-001	1.549e-001
0.05	2.302e-001	2.261e-001	2.183e-001	2.431e-001	2.333e-001
0.1	3.240e-001	3.393e-001	3.164e-001	3.021e-001	3.381e-001
0.2	3.485e-001	4.151e-001	3.369e-001	2.812e-001	3.609e-001
0.5	2.185e-001	2.299e-001	2.112e-001	2.108e-001	2.222e-001
0.7	1.678e-001	1.728e-001	1.627e-001	1.685e-001	1.674e-001
1	1.222e-001	1.267e-001	1.187e-001	1.250e-001	1.186e-001
1.5	8.370e-002	8.356e-002	8.105e-002	9.299e-002	7.719e-002
2	6.365e-002	6.428e-002	6.105e-002	7.245e-002	5.681e-002
3	4.333e-002	4.193e-002	4.460e-002	5.070e-002	3.611e-002
4	3.349e-002	3.250e-002	3.735e-002	3.932e-002	2.479e-002

Source: Northridge
Region: USGS 2008 California - 2014 Rates Excluded
  Closest Distance: 7.84 km
  Amplitude Units: Acceleration (g)
  Magnitude: 6.90 Mw
  Fractile: 0.50
  Column 1: Spectral Period
  Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
  Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
  Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
  Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
  Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6

PGA	4.165e-001	4.565e-001	3.994e-001	3.946e-001	4.153e-001
0.05	5.867e-001	5.615e-001	5.325e-001	6.246e-001	6.282e-001
0.1	8.550e-001	8.692e-001	8.201e-001	8.039e-001	9.268e-001
0.2	9.573e-001	1.044e+000	9.652e-001	8.374e-001	9.821e-001
0.5	5.152e-001	3.864e-001	5.995e-001	4.894e-001	5.854e-001
0.7	3.587e-001	2.473e-001	4.221e-001	3.503e-001	4.153e-001
1	2.712e-001	1.754e-001	3.192e-001	2.852e-001	3.048e-001
1.5	1.698e-001	1.073e-001	1.944e-001	1.864e-001	1.910e-001
2	1.197e-001	7.721e-002	1.287e-001	1.363e-001	1.366e-001
3	7.133e-002	4.749e-002	7.609e-002	9.092e-002	7.081e-002
4	4.815e-002	3.556e-002	5.240e-002	6.240e-002	4.225e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	7.548e-001	8.588e-001	7.302e-001	7.014e-001	7.288e-001
0.05	1.093e+000	1.045e+000	1.049e+000	1.145e+000	1.135e+000
0.1	1.636e+000	1.634e+000	1.659e+000	1.542e+000	1.707e+000
0.2	1.820e+000	2.039e+000	1.790e+000	1.594e+000	1.855e+000
0.5	1.000e+000	7.771e-001	1.132e+000	9.484e-001	1.144e+000
0.7	7.122e-001	5.026e-001	8.217e-001	7.054e-001	8.192e-001
1	5.431e-001	3.594e-001	6.313e-001	5.799e-001	6.017e-001
1.5	3.399e-001	2.208e-001	3.832e-001	3.782e-001	3.773e-001
2	2.386e-001	1.596e-001	2.543e-001	2.721e-001	2.686e-001

3	1.415e-001	9.680e-002	1.507e-001	1.809e-001	1.378e-001
4	9.418e-002	7.160e-002	1.034e-001	1.201e-001	8.163e-002

Source: Oak Ridge (Onshore)
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 7.80 km
Amplitude Units: Acceleration (g)
Magnitude: 7.20 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.497e-001	3.459e-001	2.899e-001	3.834e-001	3.796e-001
0.05	4.972e-001	4.309e-001	3.733e-001	6.168e-001	5.678e-001
0.1	7.139e-001	6.693e-001	5.668e-001	7.781e-001	8.413e-001
0.2	7.901e-001	8.017e-001	6.737e-001	7.850e-001	9.000e-001
0.5	4.500e-001	3.323e-001	4.374e-001	4.778e-001	5.526e-001
0.7	3.282e-001	2.327e-001	3.207e-001	3.527e-001	4.066e-001
1	2.307e-001	1.594e-001	2.242e-001	2.656e-001	2.738e-001
1.5	1.436e-001	9.803e-002	1.385e-001	1.742e-001	1.639e-001
2	1.018e-001	7.111e-002	9.329e-002	1.286e-001	1.141e-001
3	6.258e-002	4.469e-002	5.652e-002	8.515e-002	6.396e-002
4	4.364e-002	3.429e-002	4.021e-002	6.002e-002	4.004e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.316e-001	6.487e-001	5.299e-001	6.816e-001	6.662e-001
0.05	9.236e-001	8.020e-001	7.351e-001	1.131e+000	1.026e+000
0.1	1.363e+000	1.259e+000	1.147e+000	1.494e+000	1.550e+000
0.2	1.501e+000	1.561e+000	1.250e+000	1.494e+000	1.700e+000
0.5	8.745e-001	6.664e-001	8.261e-001	9.258e-001	1.080e+000
0.7	6.522e-001	4.716e-001	6.245e-001	7.103e-001	8.023e-001
1	4.655e-001	3.279e-001	4.464e-001	5.437e-001	5.439e-001
1.5	2.912e-001	2.035e-001	2.763e-001	3.575e-001	3.277e-001
2	2.062e-001	1.489e-001	1.872e-001	2.608e-001	2.279e-001
3	1.268e-001	9.275e-002	1.143e-001	1.730e-001	1.270e-001
4	8.739e-002	7.055e-002	8.129e-002	1.184e-001	7.929e-002

Source: Oak Ridge Connected
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 7.76 km
Amplitude Units: Acceleration (g)
Magnitude: 7.40 Mw
Fractile: 0.50

Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.574e-001	3.553e-001	3.050e-001	3.645e-001	4.047e-001
0.05	5.078e-001	4.421e-001	3.905e-001	5.976e-001	6.012e-001
0.1	7.263e-001	6.866e-001	5.870e-001	7.402e-001	8.913e-001
0.2	8.010e-001	8.295e-001	6.956e-001	7.209e-001	9.579e-001
0.5	4.670e-001	3.514e-001	4.643e-001	4.522e-001	6.003e-001
0.7	3.432e-001	2.497e-001	3.438e-001	3.345e-001	4.447e-001
1	2.431e-001	1.731e-001	2.435e-001	2.548e-001	3.009e-001
1.5	1.544e-001	1.075e-001	1.549e-001	1.746e-001	1.808e-001
2	1.117e-001	7.870e-002	1.067e-001	1.348e-001	1.264e-001
3	7.040e-002	5.043e-002	6.706e-002	9.234e-002	7.176e-002
4	5.074e-002	3.924e-002	4.915e-002	6.890e-002	4.567e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.456e-001	6.664e-001	5.576e-001	6.482e-001	7.103e-001

0.05	9.438e-001	8.227e-001	7.691e-001	1.097e+000	1.087e+000
0.1	1.386e+000	1.291e+000	1.188e+000	1.422e+000	1.642e+000
0.2	1.522e+000	1.615e+000	1.290e+000	1.372e+000	1.810e+000
0.5	9.077e-001	7.046e-001	8.769e-001	8.762e-001	1.173e+000
0.7	6.816e-001	5.060e-001	6.695e-001	6.737e-001	8.774e-001
1	4.901e-001	3.562e-001	4.847e-001	5.216e-001	5.978e-001
1.5	3.130e-001	2.232e-001	3.091e-001	3.583e-001	3.615e-001
2	2.262e-001	1.648e-001	2.140e-001	2.735e-001	2.526e-001
3	1.426e-001	1.047e-001	1.356e-001	1.876e-001	1.425e-001
4	1.016e-001	8.075e-002	9.939e-002	1.359e-001	9.043e-002

Source: Pitas Point Connected
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 46.26 km
Amplitude Units: Acceleration (g)
Magnitude: 7.30 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	8.925e-002	9.514e-002	8.207e-002	8.359e-002	9.621e-002
0.05	1.210e-001	1.188e-001	9.860e-002	1.250e-001	1.416e-001
0.1	1.694e-001	1.766e-001	1.486e-001	1.515e-001	2.011e-001

0.2	1.854e-001	2.097e-001	1.750e-001	1.477e-001	2.091e-001
0.5	1.113e-001	1.077e-001	1.095e-001	1.049e-001	1.231e-001
0.7	8.131e-002	7.747e-002	7.855e-002	7.892e-002	9.030e-002
1	5.607e-002	5.349e-002	5.357e-002	5.573e-002	6.149e-002
1.5	3.610e-002	3.336e-002	3.387e-002	3.887e-002	3.830e-002
2	2.626e-002	2.453e-002	2.350e-002	2.959e-002	2.740e-002
3	1.639e-002	1.528e-002	1.487e-002	1.953e-002	1.587e-002
4	1.192e-002	1.148e-002	1.120e-002	1.496e-002	1.005e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.618e-001	1.784e-001	1.500e-001	1.498e-001	1.690e-001
0.05	2.271e-001	2.235e-001	1.942e-001	2.345e-001	2.563e-001
0.1	3.269e-001	3.369e-001	3.007e-001	2.979e-001	3.719e-001
0.2	3.526e-001	4.083e-001	3.246e-001	2.811e-001	3.964e-001
0.5	2.167e-001	2.159e-001	2.069e-001	2.033e-001	2.408e-001
0.7	1.618e-001	1.570e-001	1.530e-001	1.589e-001	1.783e-001
1	1.133e-001	1.101e-001	1.067e-001	1.141e-001	1.222e-001
1.5	7.330e-002	6.923e-002	6.756e-002	7.978e-002	7.662e-002
2	5.333e-002	5.136e-002	4.715e-002	6.001e-002	5.478e-002
3	3.325e-002	3.171e-002	3.007e-002	3.968e-002	3.154e-002
4	2.392e-002	2.362e-002	2.264e-002	2.952e-002	1.990e-002

Source: Pleito
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 50.80 km
Amplitude Units: Acceleration (g)
Magnitude: 7.10 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	7.094e-002	7.048e-002	6.917e-002	7.081e-002	7.331e-002
0.05	9.626e-002	8.803e-002	8.327e-002	1.057e-001	1.080e-001
0.1	1.350e-001	1.301e-001	1.273e-001	1.299e-001	1.527e-001
0.2	1.480e-001	1.532e-001	1.524e-001	1.281e-001	1.581e-001
0.5	8.907e-002	8.038e-002	9.398e-002	8.953e-002	9.239e-002
0.7	6.487e-002	5.770e-002	6.695e-002	6.732e-002	6.753e-002
1	4.443e-002	3.978e-002	4.523e-002	4.685e-002	4.587e-002
1.5	2.823e-002	2.488e-002	2.784e-002	3.170e-002	2.849e-002
2	2.027e-002	1.831e-002	1.892e-002	2.362e-002	2.024e-002
3	1.243e-002	1.131e-002	1.154e-002	1.505e-002	1.184e-002
4	8.887e-003	8.439e-003	8.431e-003	1.123e-002	7.453e-003

Fractile: 0.84
Column 1: Spectral Period

Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.286e-001	1.322e-001	1.264e-001	1.269e-001	1.288e-001
0.05	1.810e-001	1.658e-001	1.640e-001	1.986e-001	1.956e-001
0.1	2.612e-001	2.487e-001	2.577e-001	2.558e-001	2.825e-001
0.2	2.812e-001	2.983e-001	2.827e-001	2.439e-001	2.998e-001
0.5	1.732e-001	1.612e-001	1.775e-001	1.735e-001	1.808e-001
0.7	1.291e-001	1.169e-001	1.304e-001	1.356e-001	1.334e-001
1	8.975e-002	8.184e-002	9.005e-002	9.590e-002	9.118e-002
1.5	5.731e-002	5.164e-002	5.555e-002	6.505e-002	5.699e-002
2	4.116e-002	3.834e-002	3.795e-002	4.791e-002	4.046e-002
3	2.522e-002	2.346e-002	2.333e-002	3.057e-002	2.353e-002
4	1.783e-002	1.736e-002	1.705e-002	2.215e-002	1.476e-002

Source: Puente Hills (LA)
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 49.80 km
Amplitude Units: Acceleration (g)
Magnitude: 7.00 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014

Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	7.176e-002	7.525e-002	6.588e-002	7.232e-002	7.359e-002
0.05	9.739e-002	9.401e-002	7.962e-002	1.072e-001	1.088e-001
0.1	1.374e-001	1.391e-001	1.227e-001	1.341e-001	1.537e-001
0.2	1.513e-001	1.631e-001	1.477e-001	1.355e-001	1.590e-001
0.5	8.936e-002	8.198e-002	9.021e-002	9.278e-002	9.248e-002
0.7	6.464e-002	5.759e-002	6.404e-002	6.954e-002	6.741e-002
1	4.396e-002	3.890e-002	4.307e-002	4.822e-002	4.566e-002
1.5	2.754e-002	2.384e-002	2.614e-002	3.192e-002	2.824e-002
2	1.950e-002	1.727e-002	1.757e-002	2.319e-002	1.996e-002
3	1.165e-002	1.039e-002	1.052e-002	1.454e-002	1.116e-002
4	8.133e-003	7.614e-003	7.569e-003	1.053e-002	6.822e-003

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.301e-001	1.411e-001	1.204e-001	1.296e-001	1.293e-001
0.05	1.830e-001	1.770e-001	1.568e-001	2.013e-001	1.970e-001
0.1	2.657e-001	2.658e-001	2.483e-001	2.641e-001	2.845e-001
0.2	2.878e-001	3.175e-001	2.740e-001	2.579e-001	3.016e-001

0.5	1.739e-001	1.644e-001	1.704e-001	1.798e-001	1.810e-001
0.7	1.286e-001	1.167e-001	1.247e-001	1.401e-001	1.331e-001
1	8.881e-002	8.003e-002	8.574e-002	9.872e-002	9.076e-002
1.5	5.591e-002	4.949e-002	5.216e-002	6.551e-002	5.649e-002
2	3.959e-002	3.616e-002	3.525e-002	4.703e-002	3.991e-002
3	2.364e-002	2.157e-002	2.127e-002	2.953e-002	2.217e-002
4	1.631e-002	1.567e-002	1.530e-002	2.077e-002	1.351e-002

Source: San Cayetano
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 10.47 km
Amplitude Units: Acceleration (g)
Magnitude: 7.20 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.819e-001	2.747e-001	2.450e-001	2.993e-001	3.085e-001
0.05	4.007e-001	3.444e-001	3.132e-001	4.824e-001	4.626e-001
0.1	5.759e-001	5.345e-001	4.759e-001	6.094e-001	6.840e-001
0.2	6.322e-001	6.343e-001	5.636e-001	6.029e-001	7.278e-001
0.5	3.600e-001	2.702e-001	3.615e-001	3.686e-001	4.397e-001
0.7	2.613e-001	1.908e-001	2.640e-001	2.684e-001	3.222e-001

1	1.829e-001	1.316e-001	1.838e-001	1.998e-001	2.165e-001
1.5	1.146e-001	8.162e-002	1.140e-001	1.331e-001	1.298e-001
2	8.226e-002	5.957e-002	7.727e-002	1.016e-001	9.053e-002
3	5.101e-002	3.759e-002	4.719e-002	6.744e-002	5.184e-002
4	3.632e-002	2.885e-002	3.390e-002	4.975e-002	3.278e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.094e-001	5.152e-001	4.479e-001	5.330e-001	5.415e-001
0.05	7.462e-001	6.427e-001	6.169e-001	8.889e-001	8.363e-001
0.1	1.102e+000	1.009e+000	9.631e-001	1.176e+000	1.261e+000
0.2	1.201e+000	1.235e+000	1.045e+000	1.148e+000	1.376e+000
0.5	6.996e-001	5.418e-001	6.828e-001	7.143e-001	8.595e-001
0.7	5.193e-001	3.866e-001	5.141e-001	5.406e-001	6.358e-001
1	3.689e-001	2.707e-001	3.659e-001	4.089e-001	4.301e-001
1.5	2.324e-001	1.694e-001	2.275e-001	2.731e-001	2.595e-001
2	1.667e-001	1.247e-001	1.550e-001	2.062e-001	1.809e-001
3	1.034e-001	7.803e-002	9.542e-002	1.370e-001	1.030e-001
4	7.274e-002	5.937e-002	6.854e-002	9.814e-002	6.490e-002

Source: San Gabriel

Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 6.44 km
Amplitude Units: Acceleration (g)
Magnitude: 7.30 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.651e-001	3.692e-001	3.348e-001	3.907e-001	3.654e-001
0.05	5.252e-001	4.592e-001	4.494e-001	6.482e-001	5.441e-001
0.1	7.413e-001	7.141e-001	6.456e-001	7.966e-001	8.090e-001
0.2	8.157e-001	8.607e-001	7.643e-001	7.681e-001	8.695e-001
0.5	4.680e-001	3.619e-001	4.866e-001	4.792e-001	5.441e-001
0.7	3.592e-001	2.664e-001	3.813e-001	3.707e-001	4.182e-001
1	2.784e-001	2.014e-001	2.958e-001	3.079e-001	3.085e-001
1.5	1.947e-001	1.384e-001	2.074e-001	2.288e-001	2.043e-001
2	1.514e-001	1.087e-001	1.559e-001	1.877e-001	1.531e-001
3	1.073e-001	7.678e-002	1.130e-001	1.398e-001	9.971e-002
4	8.401e-002	6.415e-002	9.174e-002	1.096e-001	7.049e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	6.601e-001	6.925e-001	6.120e-001	6.946e-001	6.413e-001
0.05	9.777e-001	8.541e-001	8.850e-001	1.188e+000	9.836e-001
0.1	1.417e+000	1.342e+000	1.306e+000	1.529e+000	1.491e+000
0.2	1.550e+000	1.676e+000	1.418e+000	1.462e+000	1.643e+000
0.5	9.092e-001	7.258e-001	9.192e-001	9.286e-001	1.063e+000
0.7	7.103e-001	5.374e-001	7.392e-001	7.431e-001	8.215e-001
1	5.529e-001	4.080e-001	5.798e-001	6.204e-001	6.033e-001
1.5	3.838e-001	2.793e-001	4.023e-001	4.564e-001	3.972e-001
2	2.956e-001	2.194e-001	3.014e-001	3.669e-001	2.948e-001
3	2.070e-001	1.516e-001	2.175e-001	2.703e-001	1.885e-001
4	1.588e-001	1.245e-001	1.749e-001	2.040e-001	1.316e-001

Source: Santa Monica
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 35.72 km
Amplitude Units: Acceleration (g)
Magnitude: 7.40 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.207e-001	1.234e-001	1.149e-001	1.178e-001	1.347e-001
0.05	1.657e-001	1.547e-001	1.413e-001	1.792e-001	2.000e-001
0.1	2.336e-001	2.329e-001	2.135e-001	2.210e-001	2.880e-001
0.2	2.541e-001	2.768e-001	2.490e-001	2.184e-001	2.995e-001
0.5	1.501e-001	1.365e-001	1.544e-001	1.483e-001	1.744e-001
0.7	1.072e-001	9.638e-002	1.085e-001	1.088e-001	1.243e-001
1	7.569e-002	6.833e-002	7.532e-002	7.845e-002	8.558e-002
1.5	4.871e-002	4.268e-002	4.719e-002	5.336e-002	5.242e-002
2	3.546e-002	3.143e-002	3.297e-002	4.040e-002	3.706e-002
3	2.223e-002	1.977e-002	2.119e-002	2.680e-002	2.116e-002
4	1.629e-002	1.498e-002	1.611e-002	2.068e-002	1.340e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.186e-001	2.315e-001	2.101e-001	2.109e-001	2.365e-001
0.05	3.106e-001	2.906e-001	2.783e-001	3.349e-001	3.620e-001
0.1	4.497e-001	4.434e-001	4.320e-001	4.330e-001	5.321e-001
0.2	4.831e-001	5.388e-001	4.618e-001	4.157e-001	5.673e-001
0.5	2.922e-001	2.738e-001	2.916e-001	2.874e-001	3.412e-001
0.7	2.132e-001	1.953e-001	2.112e-001	2.192e-001	2.453e-001
1	1.520e-001	1.399e-001	1.492e-001	1.597e-001	1.692e-001

1.5	9.794e-002	8.776e-002	9.325e-002	1.085e-001	1.039e-001
2	7.111e-002	6.499e-002	6.534e-002	8.094e-002	7.317e-002
3	4.436e-002	4.037e-002	4.216e-002	5.356e-002	4.136e-002
4	3.206e-002	3.023e-002	3.195e-002	4.003e-002	2.603e-002

Source: Santa Susana, alt 1
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 8.22 km
Amplitude Units: Acceleration (g)
Magnitude: 6.90 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	5.074e-001	4.854e-001	4.428e-001	5.996e-001	5.017e-001
0.05	7.496e-001	5.951e-001	5.979e-001	1.030e+000	7.755e-001
0.1	1.076e+000	9.201e-001	9.217e-001	1.303e+000	1.160e+000
0.2	1.168e+000	1.110e+000	1.071e+000	1.300e+000	1.190e+000
0.5	6.250e-001	4.383e-001	6.583e-001	7.380e-001	6.653e-001
0.7	4.379e-001	2.881e-001	4.613e-001	5.530e-001	4.490e-001
1	2.979e-001	1.961e-001	3.272e-001	3.705e-001	2.980e-001
1.5	1.716e-001	1.129e-001	1.876e-001	2.185e-001	1.676e-001
2	1.137e-001	7.694e-002	1.189e-001	1.504e-001	1.087e-001

3	6.042e-002	4.194e-002	6.628e-002	7.995e-002	5.350e-002
4	3.809e-002	2.670e-002	4.371e-002	5.084e-002	3.110e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	9.164e-001	9.133e-001	8.095e-001	1.062e+000	8.804e-001
0.05	1.389e+000	1.107e+000	1.178e+000	1.871e+000	1.401e+000
0.1	2.052e+000	1.728e+000	1.865e+000	2.478e+000	2.136e+000
0.2	2.219e+000	2.167e+000	1.987e+000	2.475e+000	2.247e+000
0.5	1.214e+000	8.815e-001	1.243e+000	1.430e+000	1.300e+000
0.7	8.707e-001	5.855e-001	8.982e-001	1.113e+000	8.858e-001
1	5.976e-001	4.019e-001	6.471e-001	7.534e-001	5.881e-001
1.5	3.441e-001	2.321e-001	3.698e-001	4.431e-001	3.312e-001
2	2.270e-001	1.590e-001	2.349e-001	3.003e-001	2.138e-001
3	1.200e-001	8.549e-002	1.313e-001	1.591e-001	1.041e-001
4	7.448e-002	5.375e-002	8.623e-002	9.787e-002	6.009e-002

Source: Santa Ynez (East)
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 27.85 km
Amplitude Units: Acceleration (g)

Magnitude: 7.20 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.325e-001	1.325e-001	1.367e-001	1.327e-001	1.281e-001
0.05	1.856e-001	1.670e-001	1.773e-001	2.055e-001	1.924e-001
0.1	2.619e-001	2.544e-001	2.566e-001	2.566e-001	2.799e-001
0.2	2.853e-001	2.986e-001	2.993e-001	2.522e-001	2.912e-001
0.5	1.623e-001	1.397e-001	1.773e-001	1.651e-001	1.670e-001
0.7	1.226e-001	1.035e-001	1.352e-001	1.262e-001	1.255e-001
1	9.250e-002	7.805e-002	1.017e-001	9.847e-002	9.173e-002
1.5	6.503e-002	5.378e-002	7.103e-002	7.386e-002	6.147e-002
2	5.080e-002	4.238e-002	5.382e-002	6.065e-002	4.635e-002
3	3.555e-002	2.919e-002	3.933e-002	4.348e-002	3.017e-002
4	2.821e-002	2.366e-002	3.267e-002	3.543e-002	2.110e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.402e-001	2.485e-001	2.499e-001	2.374e-001	2.249e-001
0.05	3.487e-001	3.135e-001	3.492e-001	3.836e-001	3.482e-001
0.1	5.056e-001	4.841e-001	5.192e-001	5.021e-001	5.170e-001
0.2	5.420e-001	5.812e-001	5.551e-001	4.800e-001	5.515e-001
0.5	3.154e-001	2.801e-001	3.350e-001	3.199e-001	3.267e-001
0.7	2.426e-001	2.087e-001	2.621e-001	2.531e-001	2.466e-001
1	1.838e-001	1.581e-001	1.994e-001	1.984e-001	1.795e-001
1.5	1.283e-001	1.085e-001	1.377e-001	1.474e-001	1.195e-001
2	9.932e-002	8.548e-002	1.040e-001	1.185e-001	8.925e-002
3	6.861e-002	5.765e-002	7.569e-002	8.405e-002	5.705e-002
4	5.338e-002	4.590e-002	6.229e-002	6.591e-002	3.941e-002

Source: Santa Ynez Connected
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 27.85 km
Amplitude Units: Acceleration (g)
Magnitude: 7.40 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.451e-001	1.477e-001	1.474e-001	1.417e-001	1.436e-001

0.05	2.023e-001	1.858e-001	1.899e-001	2.191e-001	2.144e-001
0.1	2.839e-001	2.829e-001	2.712e-001	2.696e-001	3.120e-001
0.2	3.092e-001	3.353e-001	3.133e-001	2.624e-001	3.259e-001
0.5	1.789e-001	1.595e-001	1.896e-001	1.765e-001	1.900e-001
0.7	1.362e-001	1.196e-001	1.457e-001	1.359e-001	1.436e-001
1	1.036e-001	9.108e-002	1.107e-001	1.072e-001	1.054e-001
1.5	7.414e-002	6.319e-002	7.950e-002	8.292e-002	7.096e-002
2	5.866e-002	5.013e-002	6.157e-002	6.915e-002	5.378e-002
3	4.210e-002	3.510e-002	4.669e-002	5.105e-002	3.554e-002
4	3.416e-002	2.878e-002	3.998e-002	4.256e-002	2.530e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.630e-001	2.770e-001	2.695e-001	2.535e-001	2.521e-001
0.05	3.798e-001	3.486e-001	3.741e-001	4.087e-001	3.879e-001
0.1	5.474e-001	5.377e-001	5.488e-001	5.269e-001	5.762e-001
0.2	5.876e-001	6.528e-001	5.811e-001	4.995e-001	6.172e-001
0.5	3.479e-001	3.199e-001	3.581e-001	3.419e-001	3.717e-001
0.7	2.696e-001	2.413e-001	2.824e-001	2.724e-001	2.822e-001
1	2.059e-001	1.845e-001	2.170e-001	2.160e-001	2.063e-001
1.5	1.463e-001	1.275e-001	1.542e-001	1.654e-001	1.380e-001
2	1.147e-001	1.011e-001	1.190e-001	1.351e-001	1.036e-001
3	8.126e-002	6.932e-002	8.984e-002	9.868e-002	6.720e-002

4	6.464e-002	5.586e-002	7.624e-002	7.920e-002	4.725e-002

Source: Sierra Madre
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 37.13 km
Amplitude Units: Acceleration (g)
Magnitude: 7.20 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.006e-001	1.027e-001	9.537e-002	9.894e-002	1.055e-001
0.05	1.381e-001	1.290e-001	1.166e-001	1.499e-001	1.569e-001
0.1	1.956e-001	1.943e-001	1.773e-001	1.853e-001	2.253e-001
0.2	2.135e-001	2.284e-001	2.086e-001	1.824e-001	2.344e-001
0.5	1.251e-001	1.124e-001	1.282e-001	1.240e-001	1.359e-001
0.7	9.084e-002	8.057e-002	9.167e-002	9.207e-002	9.903e-002
1	6.257e-002	5.575e-002	6.231e-002	6.531e-002	6.690e-002
1.5	3.987e-002	3.486e-002	3.878e-002	4.469e-002	4.117e-002
2	2.884e-002	2.565e-002	2.658e-002	3.394e-002	2.921e-002
3	1.795e-002	1.599e-002	1.649e-002	2.218e-002	1.712e-002
4	1.298e-002	1.204e-002	1.219e-002	1.684e-002	1.087e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.823e-001	1.926e-001	1.744e-001	1.772e-001	1.852e-001
0.05	2.593e-001	2.426e-001	2.297e-001	2.807e-001	2.841e-001
0.1	3.774e-001	3.704e-001	3.589e-001	3.638e-001	4.165e-001
0.2	4.058e-001	4.447e-001	3.869e-001	3.473e-001	4.442e-001
0.5	2.434e-001	2.253e-001	2.422e-001	2.403e-001	2.659e-001
0.7	1.807e-001	1.633e-001	1.785e-001	1.854e-001	1.955e-001
1	1.264e-001	1.147e-001	1.241e-001	1.337e-001	1.330e-001
1.5	8.095e-002	7.236e-002	7.737e-002	9.172e-002	8.234e-002
2	5.856e-002	5.370e-002	5.332e-002	6.883e-002	5.839e-002
3	3.640e-002	3.319e-002	3.335e-002	4.506e-002	3.401e-002
4	2.604e-002	2.477e-002	2.465e-002	3.322e-002	2.153e-002

Source: Sierra Madre (San Fernando)
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 21.06 km
Amplitude Units: Acceleration (g)
Magnitude: 6.70 Mw
Fractile: 0.50
Column 1: Spectral Period

Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.340e-001	1.408e-001	1.236e-001	1.434e-001	1.279e-001
0.05	1.889e-001	1.783e-001	1.574e-001	2.250e-001	1.948e-001
0.1	2.747e-001	2.742e-001	2.473e-001	2.928e-001	2.846e-001
0.2	2.999e-001	3.130e-001	2.961e-001	2.943e-001	2.961e-001
0.5	1.621e-001	1.330e-001	1.734e-001	1.757e-001	1.663e-001
0.7	1.144e-001	9.054e-002	1.224e-001	1.256e-001	1.191e-001
1	7.736e-002	6.030e-002	8.173e-002	8.862e-002	7.877e-002
1.5	4.649e-002	3.629e-002	4.735e-002	5.561e-002	4.671e-002
2	3.243e-002	2.574e-002	3.062e-002	4.139e-002	3.197e-002
3	1.880e-002	1.463e-002	1.726e-002	2.543e-002	1.788e-002
4	1.272e-002	1.004e-002	1.172e-002	1.832e-002	1.079e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.435e-001	2.666e-001	2.260e-001	2.565e-001	2.246e-001
0.05	3.550e-001	3.376e-001	3.101e-001	4.196e-001	3.526e-001

0.1	5.311e-001	5.259e-001	5.005e-001	5.722e-001	5.259e-001
0.2	5.713e-001	6.149e-001	5.492e-001	5.602e-001	5.608e-001
0.5	3.156e-001	2.689e-001	3.276e-001	3.404e-001	3.253e-001
0.7	2.279e-001	1.851e-001	2.384e-001	2.530e-001	2.352e-001
1	1.564e-001	1.251e-001	1.627e-001	1.814e-001	1.565e-001
1.5	9.450e-002	7.594e-002	9.447e-002	1.141e-001	9.343e-002
2	6.591e-002	5.432e-002	6.144e-002	8.396e-002	6.392e-002
3	3.818e-002	3.061e-002	3.491e-002	5.166e-002	3.554e-002
4	2.551e-002	2.084e-002	2.369e-002	3.614e-002	2.137e-002

Source: Sierra Madre Connected
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 21.07 km
Amplitude Units: Acceleration (g)
Magnitude: 7.30 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.786e-001	1.909e-001	1.593e-001	1.707e-001	1.937e-001
0.05	2.492e-001	2.400e-001	1.993e-001	2.673e-001	2.903e-001
0.1	3.571e-001	3.682e-001	3.012e-001	3.344e-001	4.246e-001
0.2	3.903e-001	4.359e-001	3.515e-001	3.278e-001	4.461e-001

0.5	2.227e-001	1.972e-001	2.203e-001	2.116e-001	2.617e-001
0.7	1.612e-001	1.404e-001	1.594e-001	1.545e-001	1.905e-001
1	1.118e-001	9.696e-002	1.100e-001	1.125e-001	1.279e-001
1.5	7.104e-002	5.983e-002	6.938e-002	7.749e-002	7.747e-002
2	5.156e-002	4.350e-002	4.791e-002	6.035e-002	5.446e-002
3	3.221e-002	2.686e-002	3.015e-002	4.038e-002	3.146e-002
4	2.338e-002	1.988e-002	2.240e-002	3.119e-002	2.003e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.236e-001	3.580e-001	2.911e-001	3.050e-001	3.401e-001
0.05	4.660e-001	4.494e-001	3.924e-001	4.974e-001	5.250e-001
0.1	6.857e-001	6.979e-001	6.096e-001	6.518e-001	7.835e-001
0.2	7.422e-001	8.487e-001	6.520e-001	6.240e-001	8.441e-001
0.5	4.333e-001	3.954e-001	4.161e-001	4.099e-001	5.117e-001
0.7	3.206e-001	2.846e-001	3.104e-001	3.111e-001	3.761e-001
1	2.257e-001	1.995e-001	2.189e-001	2.303e-001	2.542e-001
1.5	1.441e-001	1.242e-001	1.384e-001	1.591e-001	1.549e-001
2	1.046e-001	9.108e-002	9.611e-002	1.224e-001	1.088e-001
3	6.531e-002	5.574e-002	6.097e-002	8.203e-002	6.250e-002
4	4.685e-002	4.091e-002	4.529e-002	6.153e-002	3.966e-002

Source: Simi-Santa Rosa
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 13.95 km
Amplitude Units: Acceleration (g)
Magnitude: 6.90 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.398e-001	2.542e-001	2.305e-001	2.470e-001	2.275e-001
0.05	3.440e-001	3.187e-001	3.093e-001	4.006e-001	3.475e-001
0.1	4.935e-001	4.925e-001	4.542e-001	5.139e-001	5.134e-001
0.2	5.395e-001	5.765e-001	5.396e-001	5.078e-001	5.340e-001
0.5	2.898e-001	2.369e-001	3.202e-001	2.999e-001	3.024e-001
0.7	2.157e-001	1.680e-001	2.448e-001	2.261e-001	2.241e-001
1	1.604e-001	1.222e-001	1.841e-001	1.744e-001	1.609e-001
1.5	1.073e-001	8.038e-002	1.227e-001	1.219e-001	1.043e-001
2	8.098e-002	6.073e-002	8.917e-002	9.782e-002	7.620e-002
3	5.284e-002	3.889e-002	6.084e-002	6.602e-002	4.563e-002
4	3.932e-002	2.910e-002	4.726e-002	5.073e-002	3.019e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations

Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	4.348e-001	4.782e-001	4.213e-001	4.404e-001	3.994e-001
0.05	6.438e-001	5.969e-001	6.091e-001	7.408e-001	6.285e-001
0.1	9.486e-001	9.330e-001	9.192e-001	9.954e-001	9.470e-001
0.2	1.026e+000	1.126e+000	1.001e+000	9.665e-001	1.010e+000
0.5	5.634e-001	4.763e-001	6.047e-001	5.811e-001	5.913e-001
0.7	4.269e-001	3.398e-001	4.745e-001	4.533e-001	4.402e-001
1	3.188e-001	2.482e-001	3.608e-001	3.515e-001	3.148e-001
1.5	2.117e-001	1.626e-001	2.380e-001	2.433e-001	2.029e-001
2	1.583e-001	1.228e-001	1.723e-001	1.912e-001	1.467e-001
3	1.020e-001	7.702e-002	1.171e-001	1.276e-001	8.626e-002
4	7.438e-002	5.663e-002	9.012e-002	9.439e-002	5.637e-002

Source: Southern San Andreas
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 32.36 km
Amplitude Units: Acceleration (g)
Magnitude: 8.20 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014

Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.867e-001	2.073e-001	1.837e-001	1.652e-001	1.906e-001
0.05	2.534e-001	2.578e-001	2.285e-001	2.510e-001	2.762e-001
0.1	3.462e-001	3.888e-001	3.081e-001	2.878e-001	4.002e-001
0.2	3.774e-001	4.756e-001	3.409e-001	2.686e-001	4.246e-001
0.5	2.338e-001	2.408e-001	2.229e-001	2.053e-001	2.662e-001
0.7	1.823e-001	1.854e-001	1.754e-001	1.626e-001	2.057e-001
1	1.413e-001	1.434e-001	1.373e-001	1.316e-001	1.530e-001
1.5	1.070e-001	1.004e-001	1.093e-001	1.146e-001	1.038e-001
2	8.817e-002	8.048e-002	9.197e-002	1.008e-001	7.937e-002
3	6.882e-002	5.799e-002	8.029e-002	8.307e-002	5.395e-002
4	6.031e-002	4.852e-002	7.755e-002	7.542e-002	3.974e-002

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	3.386e-001	3.888e-001	3.358e-001	2.952e-001	3.346e-001
0.05	4.748e-001	4.824e-001	4.499e-001	4.672e-001	4.996e-001
0.1	6.650e-001	7.366e-001	6.235e-001	5.613e-001	7.386e-001
0.2	7.182e-001	9.259e-001	6.323e-001	5.112e-001	8.036e-001
0.5	4.556e-001	4.830e-001	4.210e-001	3.977e-001	5.205e-001

0.7	3.612e-001	3.742e-001	3.402e-001	3.261e-001	4.043e-001
1	2.813e-001	2.909e-001	2.694e-001	2.655e-001	2.996e-001
1.5	2.117e-001	2.029e-001	2.125e-001	2.292e-001	2.023e-001
2	1.730e-001	1.628e-001	1.783e-001	1.977e-001	1.533e-001
3	1.334e-001	1.150e-001	1.551e-001	1.612e-001	1.024e-001
4	1.147e-001	9.459e-002	1.486e-001	1.410e-001	7.456e-002

Source: Ventura-Pitas Point
Region: USGS 2008 California - 2014 Rates Excluded
Closest Distance: 46.26 km
Amplitude Units: Acceleration (g)
Magnitude: 7.00 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	7.379e-002	7.660e-002	6.918e-002	7.539e-002	7.397e-002
0.05	1.004e-001	9.593e-002	8.392e-002	1.120e-001	1.095e-001
0.1	1.420e-001	1.427e-001	1.293e-001	1.404e-001	1.554e-001
0.2	1.562e-001	1.668e-001	1.553e-001	1.416e-001	1.611e-001
0.5	9.193e-002	8.345e-002	9.454e-002	9.623e-002	9.349e-002
0.7	6.648e-002	5.893e-002	6.709e-002	7.169e-002	6.822e-002
1	4.537e-002	4.009e-002	4.512e-002	5.007e-002	4.622e-002

1.5	2.849e-002	2.475e-002	2.737e-002	3.324e-002	2.859e-002
2	2.026e-002	1.802e-002	1.839e-002	2.436e-002	2.026e-002
3	1.225e-002	1.093e-002	1.101e-002	1.542e-002	1.165e-002
4	8.616e-003	8.060e-003	7.915e-003	1.126e-002	7.226e-003

Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.338e-001	1.437e-001	1.265e-001	1.351e-001	1.300e-001
0.05	1.887e-001	1.806e-001	1.653e-001	2.104e-001	1.984e-001
0.1	2.746e-001	2.726e-001	2.617e-001	2.764e-001	2.875e-001
0.2	2.970e-001	3.248e-001	2.881e-001	2.696e-001	3.056e-001
0.5	1.788e-001	1.674e-001	1.786e-001	1.865e-001	1.830e-001
0.7	1.323e-001	1.194e-001	1.306e-001	1.444e-001	1.347e-001
1	9.167e-002	8.249e-002	8.982e-002	1.025e-001	9.186e-002
1.5	5.785e-002	5.138e-002	5.461e-002	6.822e-002	5.719e-002
2	4.114e-002	3.773e-002	3.689e-002	4.942e-002	4.051e-002
3	2.486e-002	2.269e-002	2.226e-002	3.132e-002	2.315e-002
4	1.728e-002	1.659e-002	1.600e-002	2.222e-002	1.431e-002

Source: Verdugo
Region: USGS 2008 California - 2014 Rates Excluded

Closest Distance: 28.03 km
Amplitude Units: Acceleration (g)
Magnitude: 6.90 Mw
Fractile: 0.50
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014
Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	1.122e-001	1.143e-001	1.059e-001	1.166e-001	1.118e-001
0.05	1.564e-001	1.445e-001	1.327e-001	1.796e-001	1.688e-001
0.1	2.252e-001	2.202e-001	2.061e-001	2.299e-001	2.447e-001
0.2	2.460e-001	2.542e-001	2.450e-001	2.307e-001	2.542e-001
0.5	1.376e-001	1.153e-001	1.459e-001	1.454e-001	1.440e-001
0.7	9.830e-002	8.040e-002	1.034e-001	1.056e-001	1.038e-001
1	6.696e-002	5.453e-002	6.947e-002	7.460e-002	6.923e-002
1.5	4.129e-002	3.348e-002	4.142e-002	4.848e-002	4.176e-002
2	2.923e-002	2.420e-002	2.743e-002	3.622e-002	2.907e-002
3	1.752e-002	1.458e-002	1.608e-002	2.279e-002	1.661e-002
4	1.223e-002	1.062e-002	1.131e-002	1.674e-002	1.025e-002

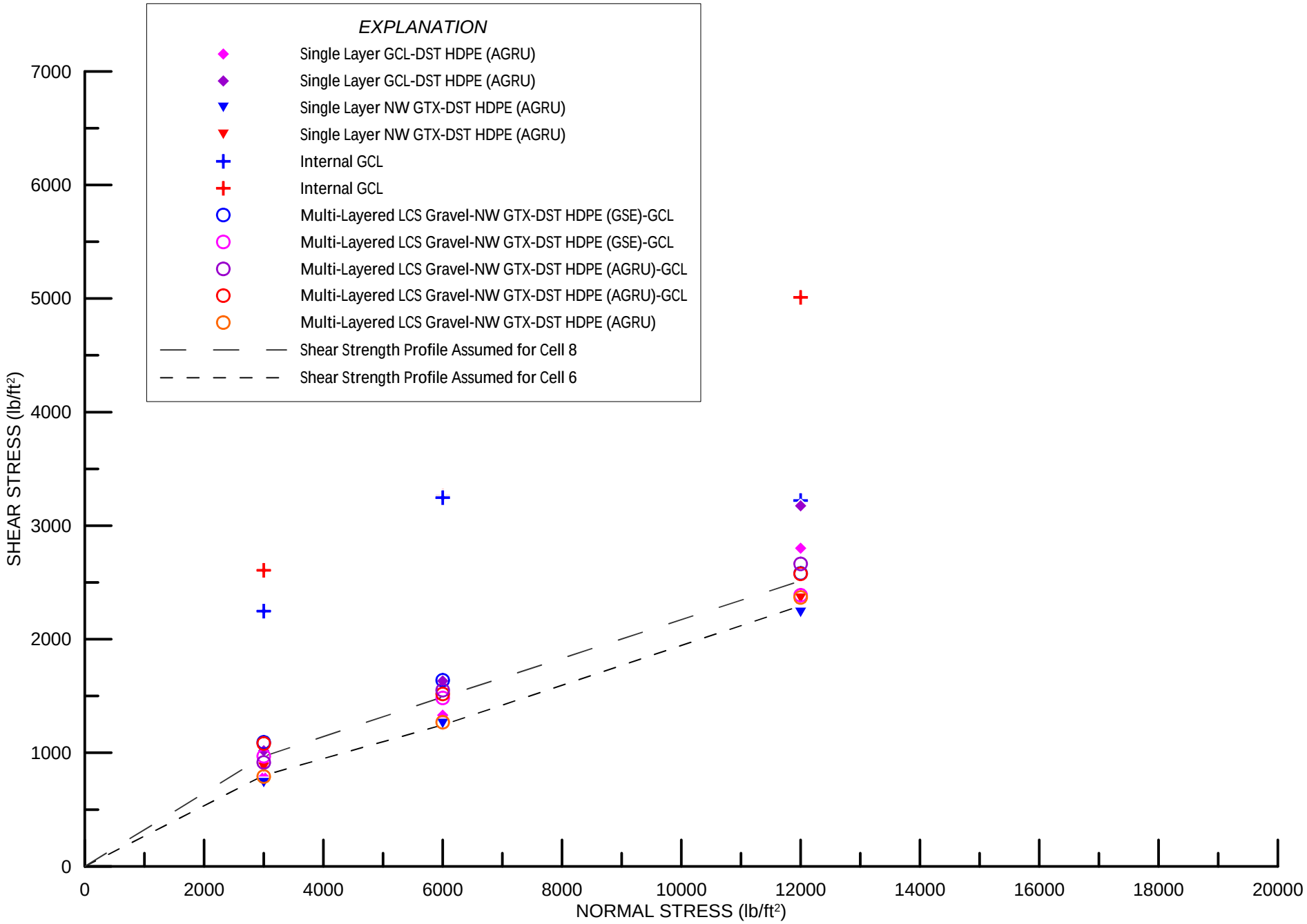
Fractile: 0.84
Column 1: Spectral Period
Column 2: Acceleration (g) for: Weighted Mean of Attenuation Equations
Column 3: Acceleration (g) for: Abrahamson-et al (2014) NGA West 2 USGS 2014
Column 4: Acceleration (g) for: Boore-et al (2014) NGA West 2 USGS 2014
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2014) NGA West 2 USGS 2014

Column 6: Acceleration (g) for: Chiou-Youngs (2014) NGA West 2 USGS 2014

1	2	3	4	5	6
PGA	2.035e-001	2.151e-001	1.937e-001	2.088e-001	1.963e-001
0.05	2.937e-001	2.723e-001	2.614e-001	3.359e-001	3.055e-001
0.1	4.352e-001	4.208e-001	4.170e-001	4.506e-001	4.523e-001
0.2	4.679e-001	4.964e-001	4.544e-001	4.391e-001	4.817e-001
0.5	2.677e-001	2.319e-001	2.755e-001	2.817e-001	2.817e-001
0.7	1.956e-001	1.634e-001	2.013e-001	2.127e-001	2.049e-001
1	1.353e-001	1.125e-001	1.383e-001	1.527e-001	1.376e-001
1.5	8.384e-002	6.969e-002	8.264e-002	9.951e-002	8.352e-002
2	5.935e-002	5.081e-002	5.503e-002	7.346e-002	5.811e-002
3	3.554e-002	3.035e-002	3.252e-002	4.629e-002	3.301e-002
4	2.452e-002	2.192e-002	2.286e-002	3.302e-002	2.030e-002

Attachment 3
SHEAR STRENGHT INFORMATION

CELL 8 STABILITY ANALYSIS
LARGE DISPLACEMENT SHEAR STRENGTH DATA



August 20, 2019

Mail To:

Scott Rudd
R.T. Frankian & Associates
1329 Scott Road
Burbank, CA 91504

email: srudd@rtfa.com
cc: arasplicka@rtfa.com

Dear Mr. Rudd:

Thank you for consulting TRI/Environmental, Inc. (TRI) - California for your geosynthetics testing needs.
TRI is pleased to submit this interface shear reports of the laboratory testing for the tests listed below.

Project:	**Chiquita Canyon Cell 6 Landfill**
TRI Job Reference Number:	G190919
Materials Tested:	GSE/Solmax 30mil DS Textured HDPE R# 102192441 (Representative Sample) GSE/Solmax 60mil DS Textured HDPE R# 108202752 (Representative Sample) GSE/Solmax Bentoliner NWL-60 GCL R# 135079076 (Representative Sample) SKAPS 16oz NW Geotextile (Representative Sample) Low Perm Soil/Compacted Clay Liner Subgrade Soil
Samples sent by:	GSE/Solmax SKAPS Industries R.T. Frankian & Associates

Test Configurations:

1. Low Perm Soil vs GSE/Solmax 60mil DS Textured
2. SKAPS 16oz NW Geotextile vs GSE/Solmax 60mil DS Textured
3. Subgrade Soil vs GSE/Solmax 30mil DS Textured
4. GSE/Solmax 30mil DS Textured vs GSE/Solmax Bentoliner NWL-60 GCL

Test Requested:
Interface Shear Strength of Geosynthetic-Geosynthetic by Direct Shear (ASTM D5321)
Interface Shear Strength of Soil-Geosynthetic by Direct Shear (ASTM D5321)
Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

If you have any questions or require any additional information, please call us at 1-800-522-4599.

Sincerely,

Cora Queja
TRI ENV-California Director

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

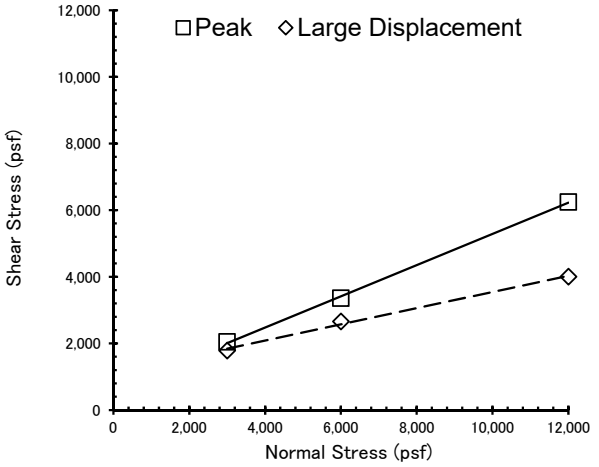
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

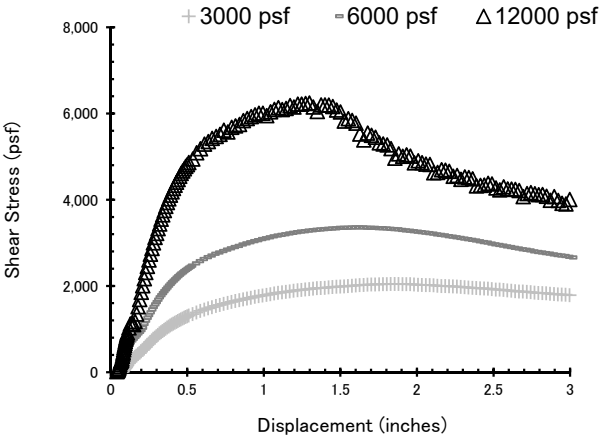
Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-1

Richard S. Lacey, P.E. 8/20/2019
Analysis & Quality Review/Date

Low Perm Soil/Clay Liner vs. GSE 60mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	25.1	13.7
Y-intercept or Adhesion	psf	602	1,112
Minimum Secant Angle	Degrees	27.5	18.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Low Perm Soil/Clay Liner ω = 17.5%, γ_d = 108.3 pcf	
Lower Box	GSE 60mil DS Textured HDPE (Representative Sample) Roll # 108202752	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses. Film of soil attached to the geomembrane after the tests.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	2,045	3,357	6,243
	Secant Angle	deg.	34.3	29.2	27.5
Large Displacement	Shear Stress	psf	1,785	2,658	4,004
	Secant Angle	deg.	30.8	23.9	18.5
Asperity Height, Avg. of 5 Meas.		mils	24	25	24
Post-test Soil Moisture Content		%	23.8	22.3	21.5

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

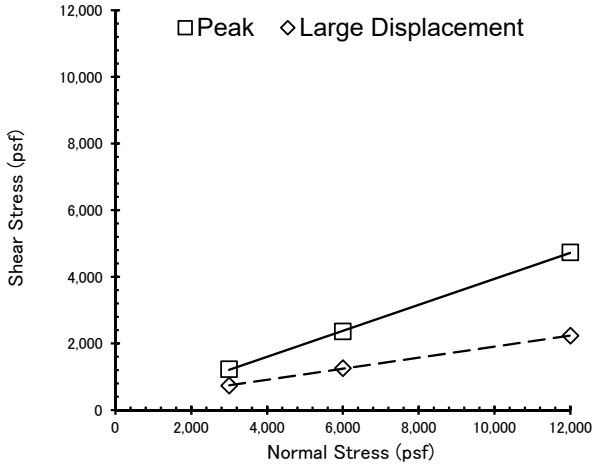
Shear Strength of Geosynthetic-Geosynthetic Interface by Direct Shear (ASTM D5321)

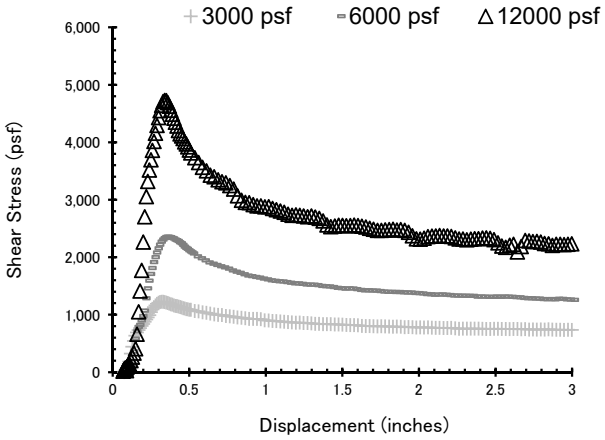
Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-2

Richard S. Lacey, P.E. 8/20/2019
Analysis & Quality Review/Date

SKAPS 16oz NW Geotextile vs. GSE 60mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	21.3	9.4
Y-intercept or Adhesion	psf	38	246
Minimum Secant Angle	Degrees	21.4	10.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	SKAPS 16oz NW Geotextile (less fuzzy/flatter side down against HDPE) (Representative Sample)	
Lower Box	GSE 60mil DS Textured HDPE (Representative Sample) Roll # 108202752	
Conditioning	Loading applied and interface flooded for 4 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,224	2,356	4,728
	Secant Angle	deg.	22.2	21.4	21.5
Large Displacement	Shear Stress	psf	734	1,255	2,232
	Secant Angle	deg.	13.7	11.8	10.5
Asperity Height, Avg. of 5 Meas.		mils	25	25	25

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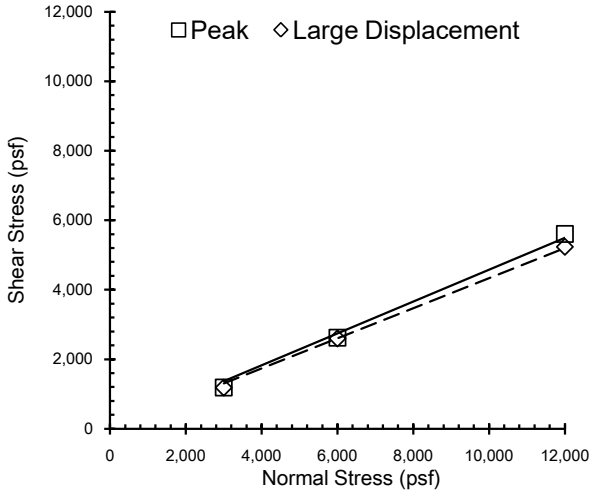
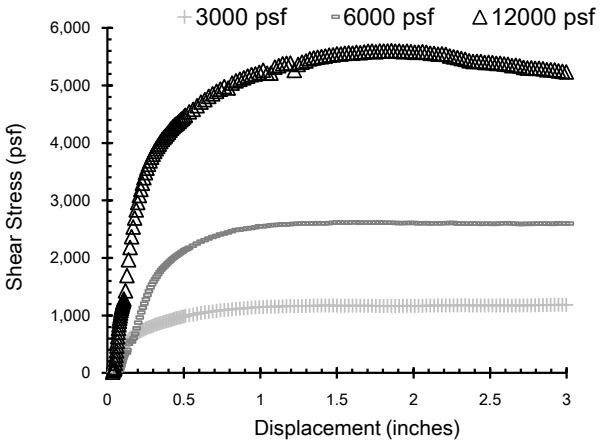
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-3
Richard S. Lacey, P.E. 8/20/2019
Analysis & Quality Review/Date

Subgrade Soil vs.
GSE 30mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	24.6	23.4
Y-intercept or Adhesion	psf	0 (Forced)	0 (Forced)
Minimum Secant Angle	Degrees	21.6	21.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Subgrade Soil ω = 12.0%, γ_d = 113.3 pcf	
Lower Box	GSE 30mil DS Textured HDPE (Representative Sample) Roll # 102192441	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses. Film of soil attached to the geomembrane after the tests.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,186	2,620	5,606
	Secant Angle	deg.	21.6	23.6	25.0
Large Displacement	Shear Stress	psf	1,184	2,598	5,235
	Secant Angle	deg.	21.5	23.4	23.6
Asperity Height, Avg. of 5 Meas.		mils	20	21	20
Post-test Soil Moisture Content		%	21.3	19.8	17.9

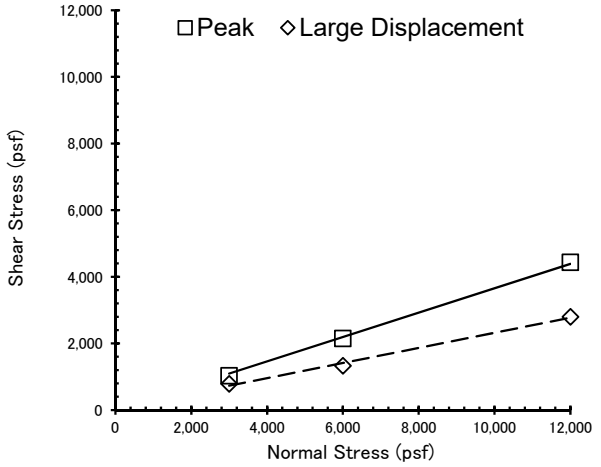
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

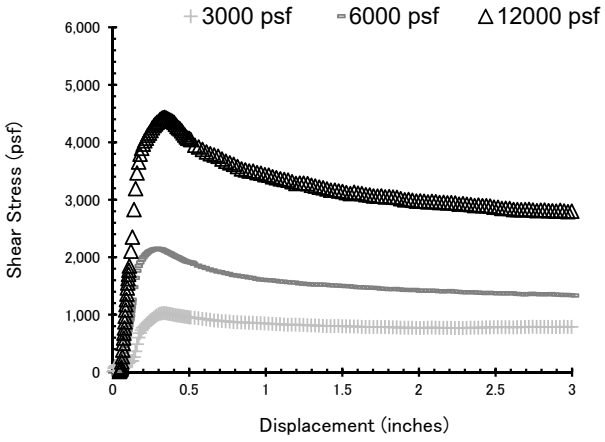
Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-4
Richard S. Lacey, P.E. 8/20/2019
Analysis & Quality Review/Date

GSE Bentoliner NWL-60 GCL vs. GSE 30mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	20.1	12.8
Y-intercept or Adhesion	psf	0 (Forced)	52
Minimum Secant Angle	Degrees	18.9	12.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	GSE Bentoliner NWL-60 GCL (non-woven/fuzzy side down against HDPE) Roll # 102192441 (Representative Sample)	
Lower Box	GSE 30mil DS Textured HDPE (Representative Sample) Roll # 102192441	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,026	2,144	4,432
	Secant Angle	deg.	18.9	19.7	20.3
Large Displacement	Shear Stress	psf	787	1,331	2,801
	Secant Angle	deg.	14.7	12.5	13.1
Asperity Height, Avg. of 5 Meas.		mils	20	21	20
As received GCL Moisture Content		%		8.9	
Post-test GCL Moisture Content		%	47.6	42.2	39.9

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

August 23, 2019

Mail To:

Scott Rudd
R.T. Frankian & Associates
1329 Scott Road
Burbank, CA 91504

email: srudd@rtfa.com
cc: arasplicka@rtfa.com

Dear Mr. Rudd:

Thank you for consulting TRI/Environmental, Inc. (TRI) - California for your geosynthetics testing needs.
TRI is pleased to submit this interface shear reports of the laboratory testing for the tests listed below.

Project:		**Chiquita Canyon Cell 6 Landfill**
TRI Job Reference Number:		G190919
Materials Tested:		GSE/Solmax Bentoliner NWL-60 GCL R# 135079076 (Representative Sample)
Samples sent by:		GSE/Solmax
Test Configurations:	5	GSE/Solmax Bentoliner NWL-60 GCL Internal Shear
Test Requested:		Internal Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

If you have any questions or require any additional information, please call us at 1-800-522-4599.

Sincerely,

Cora Queja
TRI ENV-California Director

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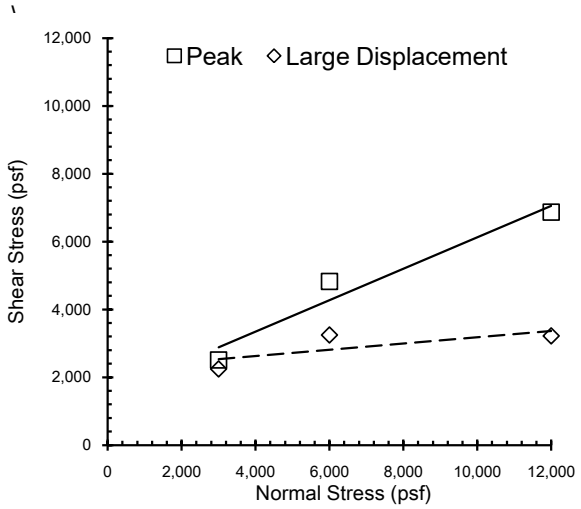
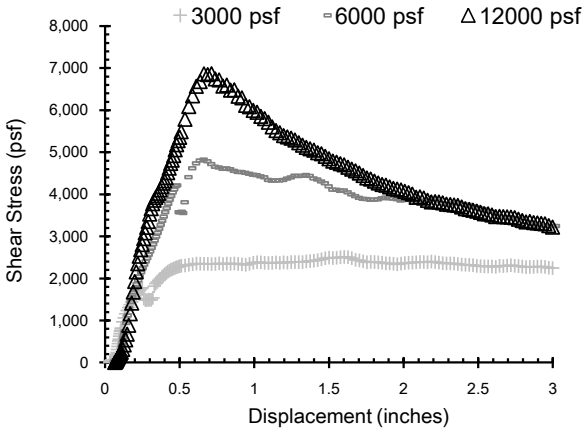
Internal Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-5
Richard S. Lacey, P.E. 8/22/2019
Analysis & Quality Review/Date

GSE Bentoliner NWL-60 GCL
GCL Internal Shear





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	24.9	Refer to the Secant Angles due to the different modes of shearing.
Y-intercept or Adhesion	psf	1,488	
Minimum Secant Angle	Degrees	29.8	15.0

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
	GSE Bentoliner NWL-60 GCL (Representative Sample) Roll # 135079076	
	Internal Shear	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

The GCL did not shear internally at 3,000 psf and 6,000 psf normal stresses. The GCL sheared internally at 12,000 psf normal stress.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	2,510	4,825	6,868
	Secant Angle	deg.	39.9	38.8	29.8
Large Displacement	Shear Stress	psf	2,246	3,246	3,220
	Secant Angle	deg.	36.8	28.4	15.0
As received GCL Moisture Content		%	8.9		
Post-test GCL Moisture Content		%	53.5	49.9	45.2

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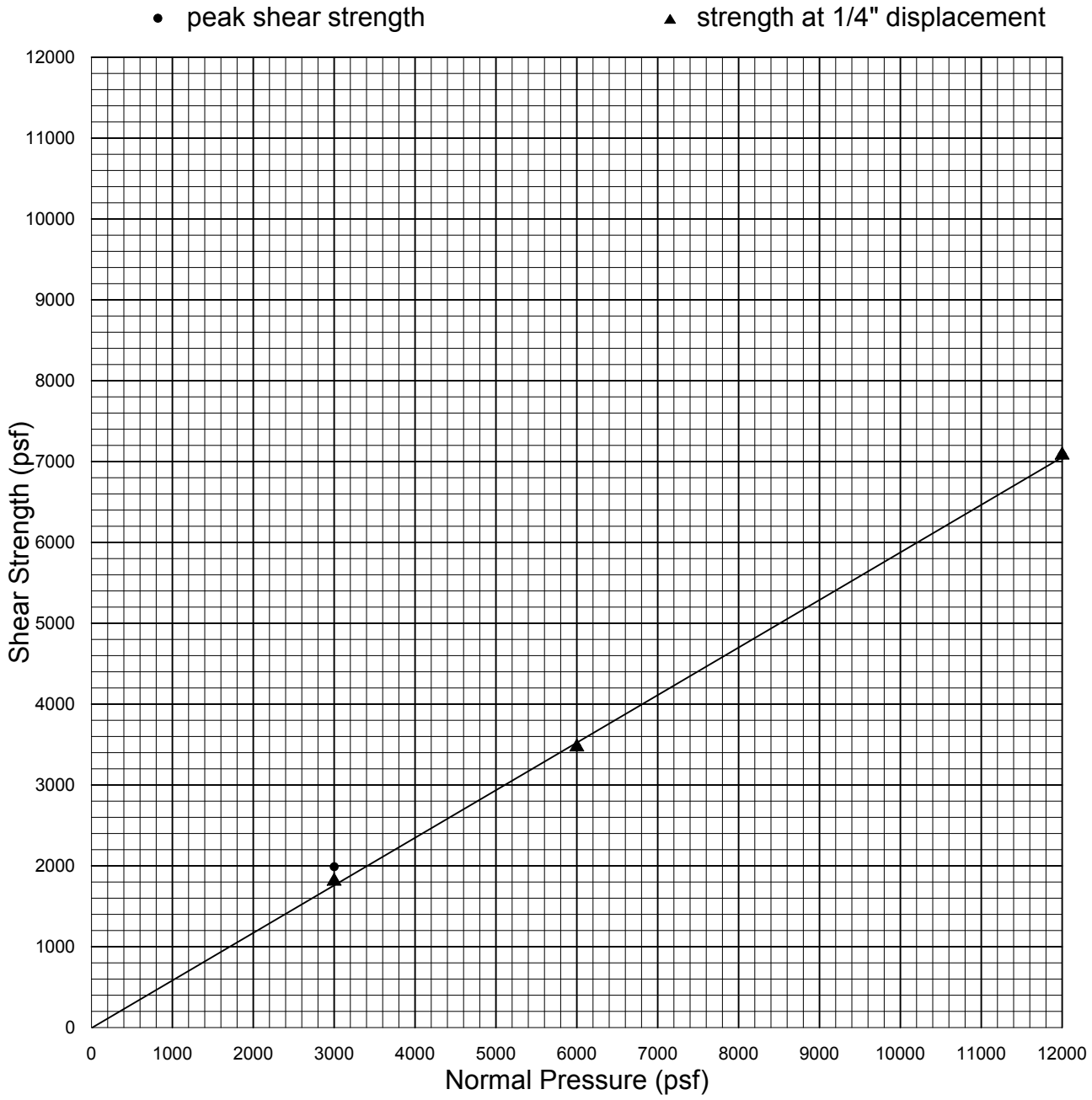
DIRECT SHEAR TEST - ASTM D-3080



Strain Rate: 0.0020 in. / min.

Sample	Type	Description	Dry Density (pcf)	Initial W.C. (%)	Final W.C. (%)
C#140062	Remolded & Saturated	Clay	109.5 (94% Max Density)	16.0	20.8

Normal Pressure (psf)	Peak Shear Strength (psf)	Ultimate Shear Strength (psf)
3000	1990 @ 0.0700"	1810
6000	3470 @ 0.2400"	3470
12000	7080 @ 0.2500"	7080
	C = 0 psf	C = 0 psf
	ϕ = 30 deg.	ϕ = 30 deg.

Date: 08-19-19

Geo**L**ogic **A**ssociates

September 9, 2019

Mail To:

Scott Rudd
R.T. Frankian & Associates
1329 Scott Road
Burbank, CA 91504

email: srudd@rtfa.com
cc: arasplicka@rtfa.com

Dear Mr. Rudd:

Thank you for consulting TRI/Environmental, Inc. (TRI) - California for your geosynthetics testing needs.
TRI is pleased to submit this interface shear reports of the laboratory testing for the tests listed below.

Project:		**Chiquita Canyon Cell 6 Landfill**
TRI Job Reference Number:		G190919
Materials Tested:		GSE/Solmax 30mil DS Textured HDPE R# 108203256 GSE/Solmax Bentoliner NWL-60 GCL R# 502335907 Subgrade Soil
Samples sent by:		TRI at GSE/Solmax R.T. Frankian & Associates
Test Configurations:	8	Subgrade Soil vs GSE/Solmax 30mil DS Textured
	9	GSE/Solmax 30mil DS Textured vs GSE/Solmax Bentoliner NWL-60 GCL
	10	GSE/Solmax Bentoliner NWL-60 GCL Internal Shear
Test Requested:		Interface Shear Strength of Soil-Geosynthetic by Direct Shear (ASTM D5321) Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243) Internal Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

If you have any questions or require any additional information, please call us at 1-800-522-4599.

Sincerely,

Cora Queja
TRI ENV-California Director

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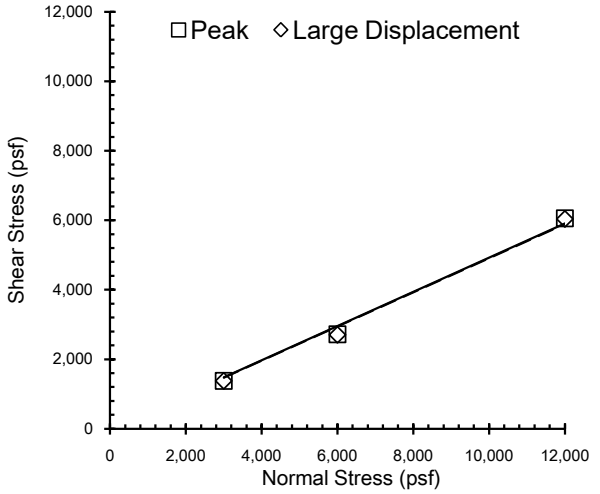
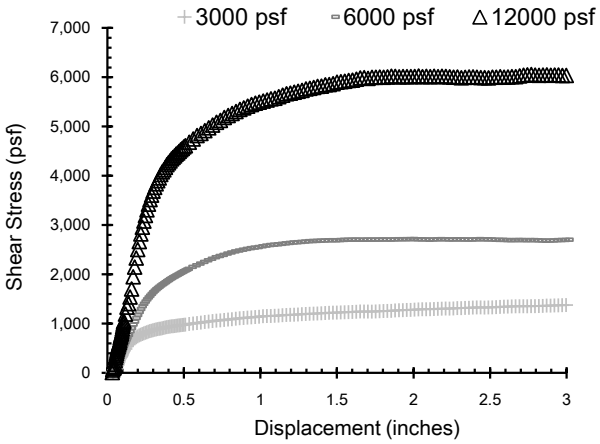
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-8
Richard S. Lacey, P.E. 9/9/2019
Analysis & Quality Review/Date

Subgrade Soil vs.
GSE 30mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	26.2	26.2
Y-intercept or Adhesion	psf	0 (Forced)	0 (Forced)
Minimum Secant Angle	Degrees	24.4	24.3

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Subgrade Soil ω = 12.0%, γ_d = 113.3 pcf	
Lower Box	GSE 30mil DS Textured HDPE Roll # 108203256	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses. Film of soil attached to the geomembrane after the tests.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,377	2,718	6,056
	Secant Angle	deg.	24.7	24.4	26.8
Large Displacement	Shear Stress	psf	1,377	2,704	6,037
	Secant Angle	deg.	24.7	24.3	26.7
Asperity Height, Avg. of 5 Meas.		mils	26	26	26
Post-test Soil Moisture Content		%	19.6	17.5	15.8

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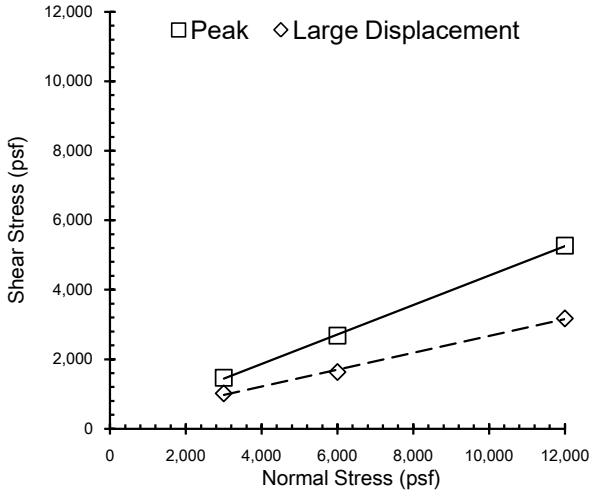
Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

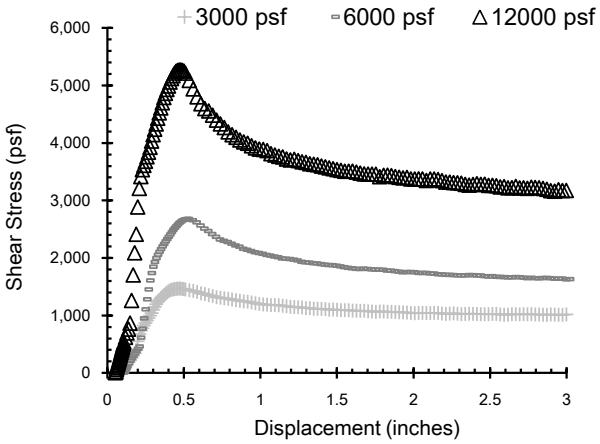
Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-9

Richard S. Lacey, P.E. 9/9/2019
Analysis & Quality Review/Date

GSE Bentoliner NWL-60 GCL vs. GSE 30mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	23.0	13.6
Y-intercept or Adhesion	psf	172	246
Minimum Secant Angle	Degrees	23.7	14.8

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	GSE Bentoliner NWL-60 GCL (non-woven/fuzzy side down against HDPE) Roll # 502335907	
Lower Box	GSE 30mil DS Textured HDPE Roll # 108203256	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,467	2,680	5,270
	Secant Angle	deg.	26.1	24.1	23.7
Large Displacement	Shear Stress	psf	1,017	1,632	3,174
	Secant Angle	deg.	18.7	15.2	14.8
Asperity Height, Avg. of 5 Meas.		mils	26	26	27
As received GCL Moisture Content		%		11.2	
Post-test GCL Moisture Content		%	51.7	48.4	43.5

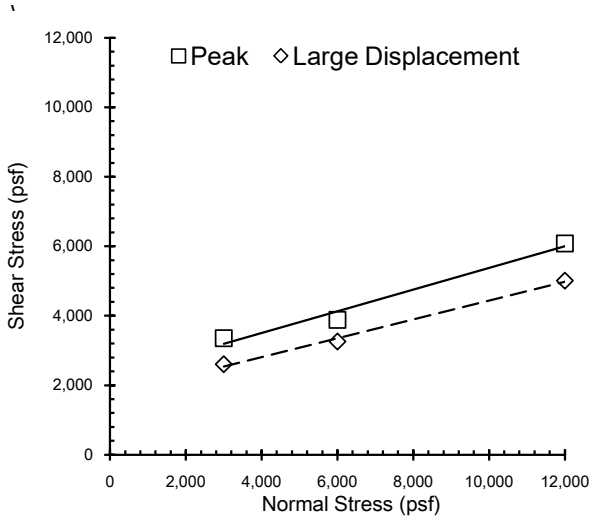
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

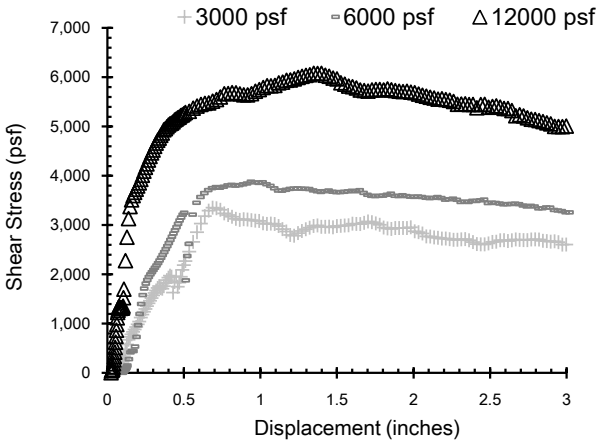
Internal Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-10
Richard S. Lacey, P.E. 8/29/2019
Analysis & Quality Review/Date

GSE Bentoliner NWL-60 GCL
GCL Internal Shear





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	17.3	15.1
Y-intercept or Adhesion	psf	2,254	1,730
Minimum Secant Angle	Degrees	26.9	22.7

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
	GSE Bentoliner NWL-60 GCL Roll # 502335907	
	Internal Shear	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

The GCL did not shear internally at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	3,354	3,881	6,080
	Secant Angle	deg.	48.2	32.9	26.9
Large Displacement	Shear Stress	psf	2,605	3,258	5,010
	Secant Angle	deg.	41.0	28.5	22.7
As received GCL Moisture Content		%	11.2		
Post-test GCL Moisture Content		%	50.5	46.0	43.0

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

September 17, 2019

Mail To:

Scott Rudd
R.T. Frankian & Associates
1329 Scott Road
Burbank, CA 91504

email: srudd@rtfa.com
cc: arasplicka@rtfa.com

Dear Mr. Rudd:

Thank you for consulting TRI/Environmental, Inc. (TRI) - California for your geosynthetics testing needs.
TRI is pleased to submit this interface shear reports of the laboratory testing for the tests listed below.

Project:		**Chiquita Canyon Cell 6 Landfill**
TRI Job Reference Number:		G190919
Materials Tested:		GSE/Solmax 60mil DS Textured HDPE R# 102194925 SKAPS 16oz NW Geotextile R# 574372.22 Low Perm Soil/Compacted Clay Liner
Samples sent by:		TRI at GSE/Solmax Texas TRI at SKAPS Industries Georgia R.T. Frankian & Associates
Test Configurations:	6	Low Perm Soil vs GSE/Solmax 60mil DS Textured
	7	SKAPS 16oz NW Geotextile vs GSE/Solmax 60mil DS Textured
Test Requested:		Interface Shear Strength of Geosynthetic-Geosynthetic by Direct Shear (ASTM D5321) Interface Shear Strength of Soil-Geosynthetic by Direct Shear (ASTM D5321)

If you have any questions or require any additional information, please call us at 1-800-522-4599.

Sincerely,

Cora Queja
TRI ENV-California Director

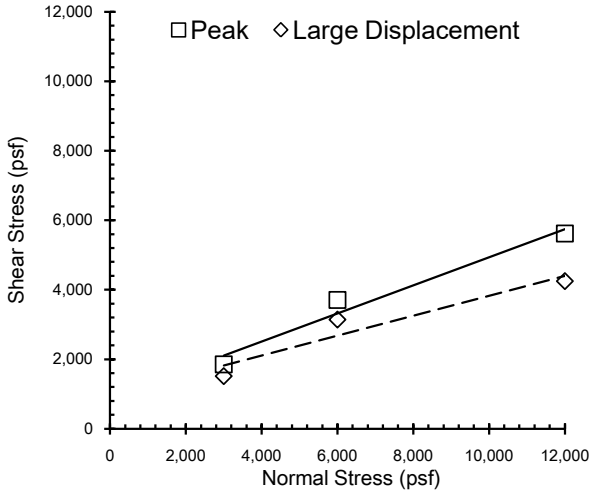
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

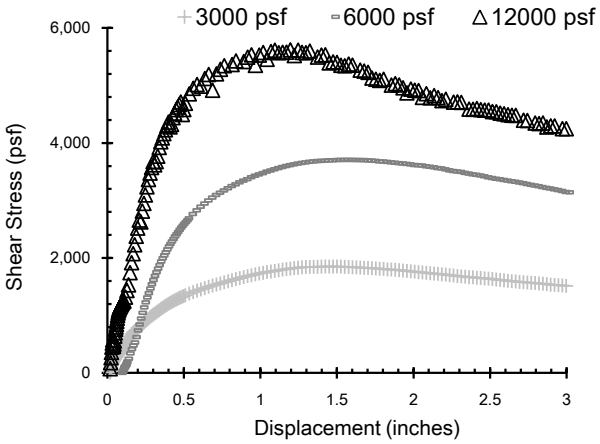
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190919-6
Richard S. Lacey, P.E. 9/17/2019
Analysis & Quality Review/Date

Low Perm Soil/Clay Liner vs. GSE 60mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	22.0	16.0
Y-intercept or Adhesion	psf	896	961
Minimum Secant Angle	Degrees	25.1	19.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Low Perm Soil/Clay Liner ω = 17.5%, γ_d = 108.3 pcf	
Lower Box	GSE 60mil DS Textured HDPE Roll # 102194925	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses. Film of soil attached to the geomembrane after the tests.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,852	3,707	5,618
	Secant Angle	deg.	31.7	31.7	25.1
Large Displacement	Shear Stress	psf	1,514	3,141	4,248
	Secant Angle	deg.	26.8	27.6	19.5
Asperity Height, Avg. of 5 Meas.		mils	27	28	27
Post-test Soil Moisture Content		%	19.6	18.4	17.7

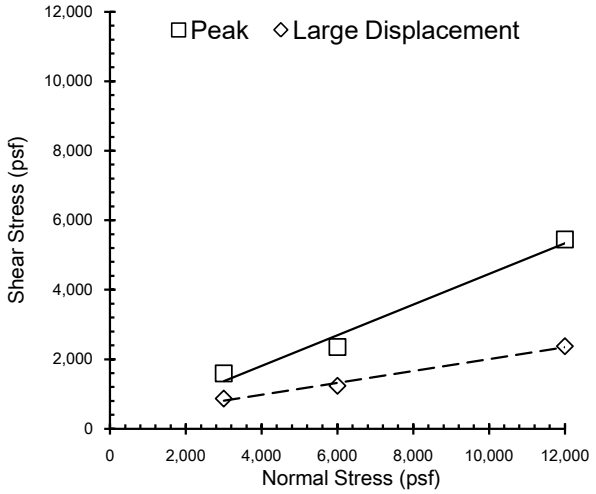
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

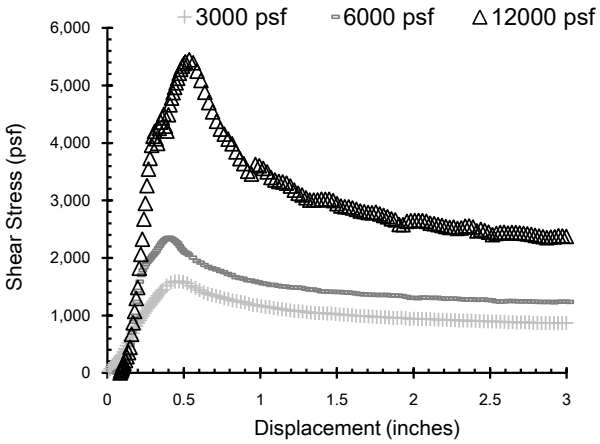
Shear Strength of Geosynthetic-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: R.T Frankian & Associates
Project: Chiquita Canyon

TRI Log #: G190991-7
Richard S. Lacey, P.E. 9/17/2019
Analysis & Quality Review/Date

SKAPS 16oz NW Geotextile vs. GSE 60mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	23.8	9.7
Y-intercept or Adhesion	psf	45	299
Minimum Secant Angle	Degrees	21.4	11.2

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	SKAPS 16oz NW Geotextile (less fuzzy/flatter side down against HDPE) Roll # 574372.22	
Lower Box	GSE 60mil DS Textured HDPE Roll # 102194925	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,593	2,352	5,447
	Secant Angle	deg.	28.0	21.4	24.4
Large Displacement	Shear Stress	psf	869	1,236	2,375
	Secant Angle	deg.	16.2	11.6	11.2
Asperity Height, Avg. of 5 Meas.		mils	28	28	27

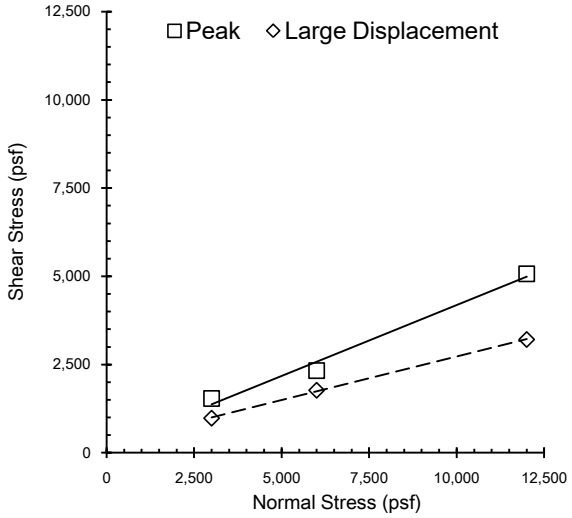
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

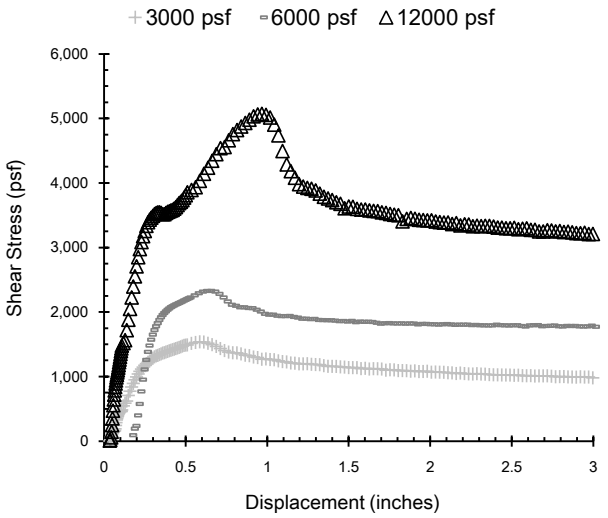
Multi-Layered Interface Friction Test (ASTM D5321 Modified)

Client: RMC Geoscience
Project: John Smith Landfill

TRI Log #: G180364-1
Richard S. Lacey, P.E. 6/7/2018
Analysis & Quality Review/Date

Compacted Clay Soil vs Bentomat DN GCL vs 60mil DS HDPE Microspike





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	21.9	13.9
Y-intercept or Adhesion	psf	166	261
Minimum Secant Angle	Degrees	21.2	15.0

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Compacted Clay (ω = 18.0%, γ_d =106.3 pcf)	
Floating	CETCO Bentomat DN (black side against HDPE) R# 2042	
	AGRU 60mil DS HDPE Microspike (shiny side against GCL) R# FNA000802002	
Conditioning	Interface soaked and loading applied for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the GCL/HDPE interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,538	2,328	5,071
	Secant Angle	deg.	27.1	21.2	22.9
Large Displacement	Shear Stress	psf	980	1,771	3,210
	Secant Angle	deg.	18.1	16.4	15.0
Asperity Height, Avg. of 5 Meas.		mils	32	32	32

NOTE: Observed behavior may be attributed to the non-standard, multi-layered method employed.

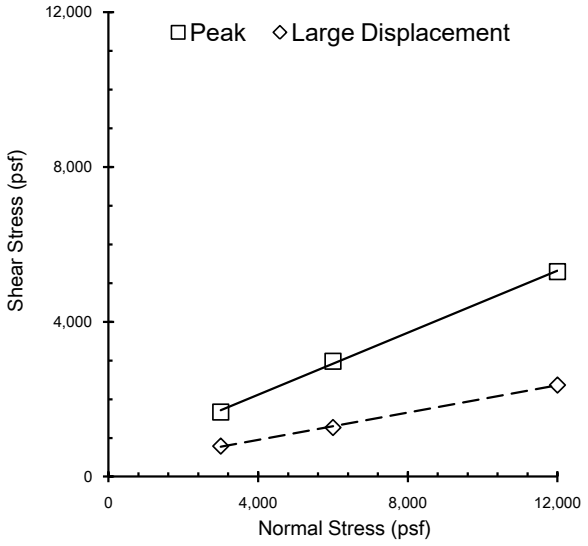
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.

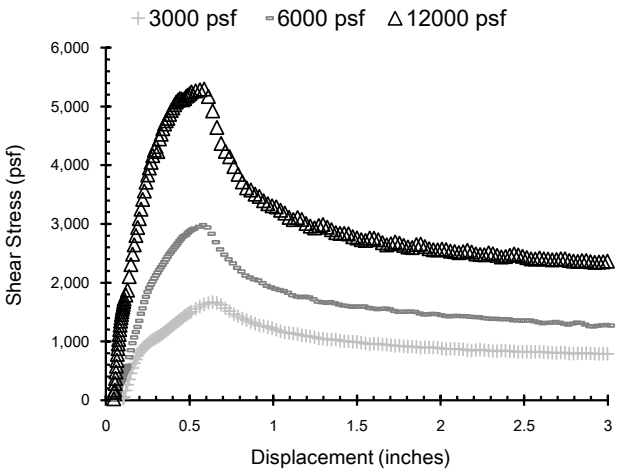
Multi-Layered Interface Friction Test (ASTM D5321 Modified)

Client: RMC Geoscience
Project: John Smith Landfill

TRI Log #: G180364-2
Richard S. Lacey, P.E. 6/6/2018
Analysis & Quality Review/Date

Drainage Gravel vs 12oz NW Geotextile vs 60mil DS HDPE Microspike





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	21.8	10.0
Y-intercept or Adhesion	psf	511	240
Minimum Secant Angle	Degrees	23.8	11.2

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Drainage Gravel (Tamped in place)	
Floating	SKAPS 12oz NW Geotextile R# 517021.17	
	AGRU 60mil DS HDPE Microspike (dull side against geotextile) R# FNA000802002	
Conditioning	Interface soaked and loading applied for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the geotextile/HDPE interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,669	2,981	5,296
	Secant Angle	deg.	29.1	26.4	23.8
Large Displacement	Shear Stress	psf	789	1,269	2,366
	Secant Angle	deg.	14.7	11.9	11.2
Asperity Height, Avg. of 5 Meas.		mils	26	26	26

NOTE: Observed behavior may be attributed to the non-standard, multi-layered method employed.

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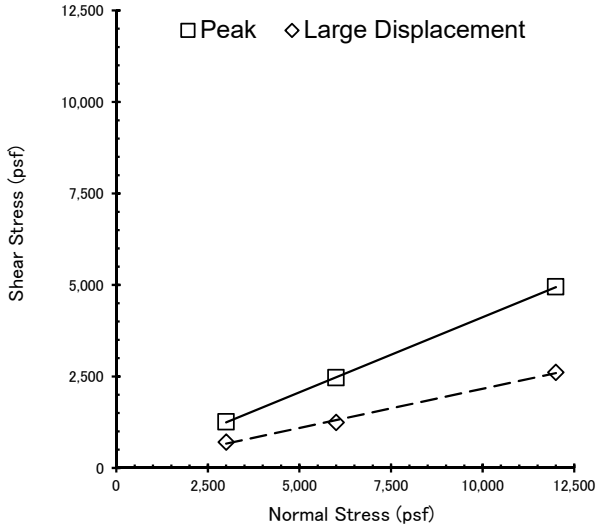
Multi-Layered Interface Friction Test (ASTM D5321 Modified)

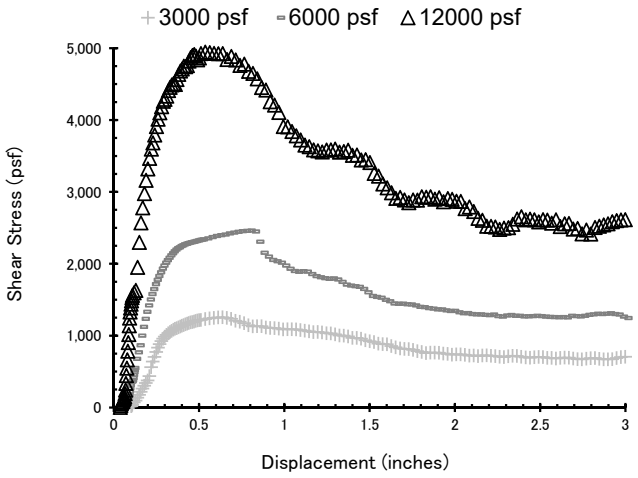
Client: RMC Geoscience
Project: John Smith Landfill

TRI Log #: G180364-3

Richard S. Lacey, P.E. 6/6/2018
Analysis & Quality Review/Date

60mil DS HDPE Microspike vs 270mil DS Geocomposite vs Operations Layer Soil





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	22.3	12.1
Y-intercept or Adhesion	psf	14	22
Minimum Secant Angle	Degrees	22.3	11.7

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions	
Floating	AGRU 60mil DS HDPE Microspike (dull side against geocomposite)
	R# FNA000802002
	SKAPS TN270-2-8 DS Geocomposite
	R# 81851010003
Lower Box	Operations Layer Soil
	(ω = 15.0%, γ_d =98.2 pcf)
Conditioning	Interface soaked and loading applied for 48 hours prior to shear.
Shearing Rate	inches/minute: 0.04

Test Notes

Shearing occurred at the HDPE vs Geocomposite interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,255	2,462	4,945
	Secant Angle	deg.	22.7	22.3	22.4
Large Displacement	Shear Stress	psf	707	1,244	2,614
	Secant Angle	deg.	13.3	11.7	12.3
Asperity Height, Avg. of 5 Meas.		mils	26	26	26

NOTE: Observed behavior may be attributed to the non-standard, multi-layered method employed.

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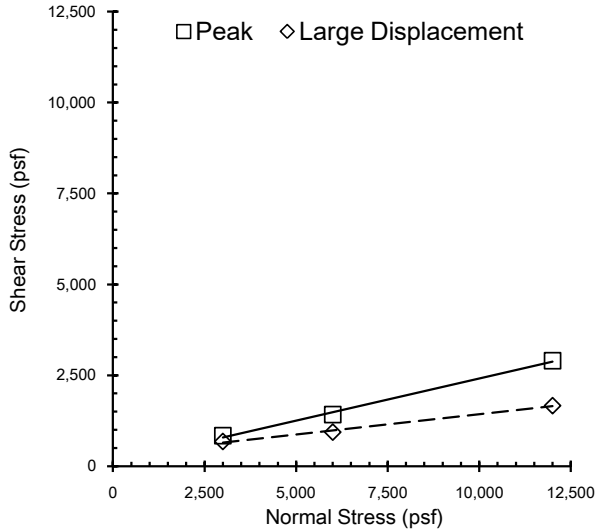
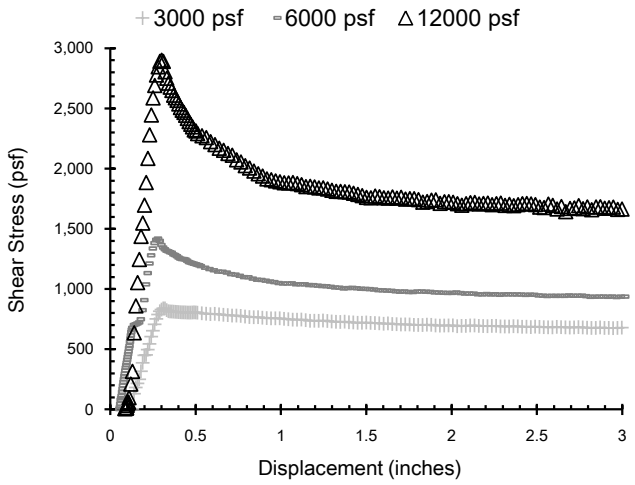
Shear Strength of Soil-Geosynthetic Interface by Direct Shear (ASTM D5321)

Client: RMC Geoscience
Project: John Smith Landfill

TRI Log #: G180364-4
Richard S. Lacey, P.E. 6/6/2018
Analysis & Quality Review/Date

Operations Layer Soil vs.
AGRU 60mil SS HDPE Microspike





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	13.0	6.3
Y-intercept or Adhesion	psf	98	316
Minimum Secant Angle	Degrees	13.3	7.9

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Operations Layer Soil vs. (ω = 15.0%, γ_d =98.2 pcf)	
Lower Box	AGRU 60mil SS HDPE Microspike (smooth side against soil) R# FNC0007410003	
Conditioning	Interface soaked and loading applied for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	839	1,419	2,901
	Secant Angle	deg.	15.6	13.3	13.6
Large Displacement	Shear Stress	psf	679	937	1,664
	Secant Angle	deg.	12.8	8.9	7.9

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April 3, 2019

Mail To:

Rick Mitchell
RMC GeoScience, Inc.
a Geo-Logic Company
405 East D St., Ste. 109
Petaluma, CA 94952

email: rmitchell@geo-logic.com

Dear Mr. Mitchell:

Thank you for consulting TRI/Environmental, Inc. (TRI) - California for your geosynthetics testing needs.
TRI is pleased to submit this interface shear reports of the laboratory testing for the tests listed below.

Project:		**John Smith Landfill Module 7-8B Pre-Construction Testing**
TRI Job Reference Number:		G190185
Materials Tested:		Pea Gravel SKAPS 12oz NW Geotextile AGRU 60mil DS HDPE Microspike GSE/Solmax 60mil DS Textured HDPE CETCO Bentomat DN GCL
Materials sent by:		GSE/Solmax, CETCO, AGRU, SKAPS & RMC Geoscience
Test Configurations:	1	Pea Gravel vs 12oz NW Geotextile vs 60mil DS **Microspike** HDPE vs Bentomat DN GCL
	2	Pea Gravel vs 12oz NW Geotextile vs 60mil DS **Textured** HDPE vs Bentomat DN GCL
Test Requested:		Multi-Layered Interface Friction Test (ASTM D6243 Modified)

If you have any questions or require any additional information, please call us at 1-800-522-4599.

Sincerely,

Cora Queja
TRI ENV-California Director

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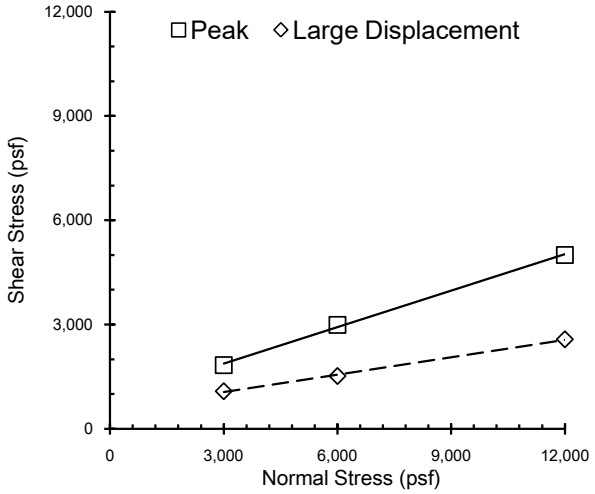
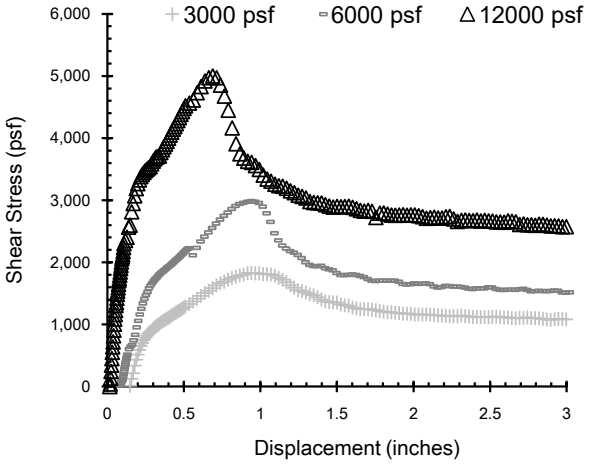
Multi-Layered Interface Friction Test (ASTM D6243 Modified)

Client: RMC Geoscience
Project: John Smith Landfill Module 7-8B Pre-Construction Testing

TRI Log #: G190185-1
Richard S. Lacey, P.E. 4/3/2019
Analysis & Quality Review/Date

Pea Gravel vs 12oz NW Geotextile vs 60mil DS HDPE Microspike vs Bentomat DN





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	19.3	9.5
Y-intercept or Adhesion	psf	824	552
Minimum Secant Angle	Degrees	22.6	12.1

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Pea Gravel (tamped in place)	
Floating	SKAPS 12oz NW Geotextile *(fuzzy side against gravel)*	
	AGRU 60mil DS HDPE Microspike *(shiny side against NWGT)*	
Lower Box	CETCO Bentomat DN GCL (clamped) *(white side against HDPE)*	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the geotextile/HDPE interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,830	2,988	4,999
	Secant Angle	deg.	31.4	26.5	22.6
Large Displacement	Shear Stress	psf	1,081	1,517	2,574
	Secant Angle	deg.	19.8	14.2	12.1
Pre-test Asperity Height (shiny side), Avg. of 5 Meas.		mils	33	34	34
Pre-test Asperity Height (dull side), Avg. of 5 Meas.		mils	25	25	25

NOTE: Observed behavior may be attributed to the non-standard, multi-layered method employed.

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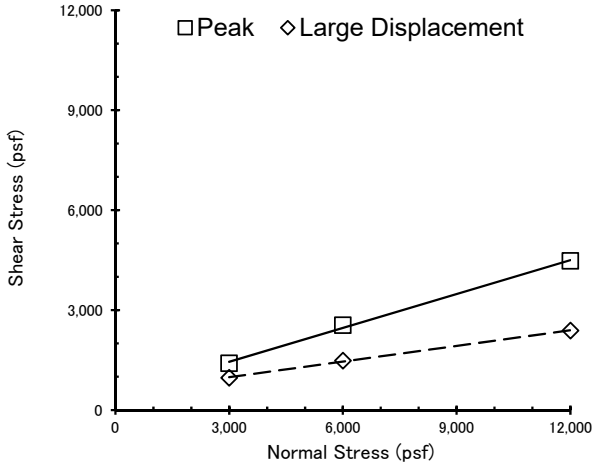
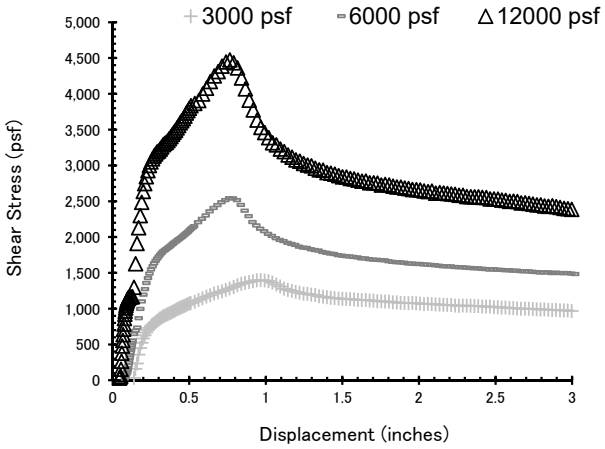
Multi-Layered Interface Friction Test (ASTM D6243 Modified)

Client: RMC Geoscience
Project: John Smith Landfill Module 7-8B Pre-Construction Testing

TRI Log #: G190185-2
Richard S. Lacey, P.E. 4/3/2019
Analysis & Quality Review/Date

Pea Gravel vs 12oz NW Geotextile vs 60mil DS Textured HDPE vs Bentomat DN





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	18.7	8.9
Y-intercept or Adhesion	psf	434	517
Minimum Secant Angle	Degrees	20.5	11.3

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Pea Gravel (tamped in place)	
Floating	SKAPS 12oz NW Geotextile *(fuzzy side against gravel)*	
	GSE/Solmax 60mil DS Textured HDPE	
Lower Box	CETCO Bentomat DN GCL (clamped) *(white side against HDPE)*	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the HDPE/GCL interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,400	2,543	4,475
	Secant Angle	deg.	25.0	23.0	20.5
Large Displacement	Shear Stress	psf	969	1,483	2,387
	Secant Angle	deg.	17.9	13.9	11.3
Pre-test Asperity Height (top side), Avg. of 5 Meas.		mils	19	20	20
Pre-test Asperity Height ((bottom side), Avg. of 5 Meas.		mils	20	20	20

NOTE: Observed behavior may be attributed to the non-standard, multi-layered method employed.

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August 6, 2019

Mail To:

Rick Mitchell
RMC GeoScience, Inc.
a Geo-Logic Company
405 East D St., Ste. 109
Petaluma, CA 94952

email: rmitchell@geo-logic.com

Dear Mr. Mitchell:

Thank you for consulting TRI/Environmental, Inc. (TRI) - California for your geosynthetics testing needs.
TRI is pleased to submit this interface shear reports of the laboratory testing for the tests listed below.

Project:		**John Smith Landfill Module 7-8B**
TRI Job Reference Number:		G190707
Materials Tested:		Pea Gravel SKAPS 12oz NW Geotextile Roll # 571881.3 GSE60mil DS Textured HDPE Roll # 102194291 GSE Bentoliner NWL-60 GCL Roll # 502332818
Materials sent by:		TRI at GSE/Solmax, TRI at SKAPS & RMC Geoscience/GLA
Test Configurations:	1	Pea Gravel vs 12oz NW Geotextile vs 60mil DS Textured HDPE vs Bentoliner NWL-60 GCL
	2	60mil DS Textured HDPE vs Bentoliner NWL-60 GCL
Test Requested:		Multi-Layered Interface Friction Test (ASTM D6243 Modified) Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

If you have any questions or require any additional information, please call us at 1-800-522-4599.

Sincerely,

Cora Queja
TRI ENV-California Director

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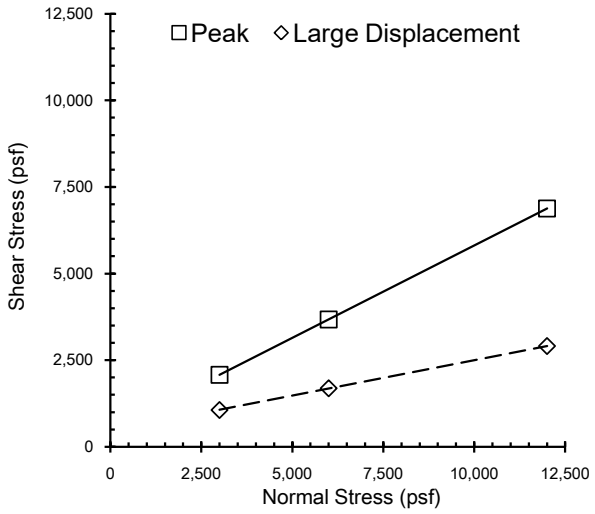
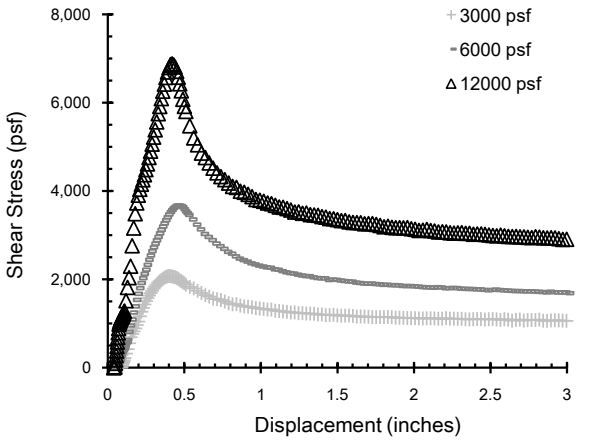
Interface Shear Strength of Geosynthetic Clay Liner by Direct Shear (ASTM D6243)

Client: RMC Geoscience
Project: John Smith Landfill Module 7-8B

TRI Log #: G190707-1
Jeffrey A. Kuhn, Ph.D., P.E., 8/6/2019
Analysis & Quality Review/Date

GSE Bentoliner NWL-60 GCL vs. GSE 60mil DS Textured HDPE





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	28.1	11.6
Y-intercept or Adhesion	psf	475	451
Minimum Secant Angle	Degrees	29.8	13.6

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	GSE Bentoliner NWL-60 GCL (scrim non-woven side against HDPE) Roll # 102194291	
Lower Box	GSE 60mil DS Textured HDPE R# 102194291	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	2,077	3,674	6,878
	Secant Angle	deg.	34.7	31.5	29.8
Large Displacement	Shear Stress	psf	1,061	1,688	2,908
	Secant Angle	deg.	19.5	15.7	13.6
Asperity Height, Avg. of 5 Meas.		mils	26	25	26

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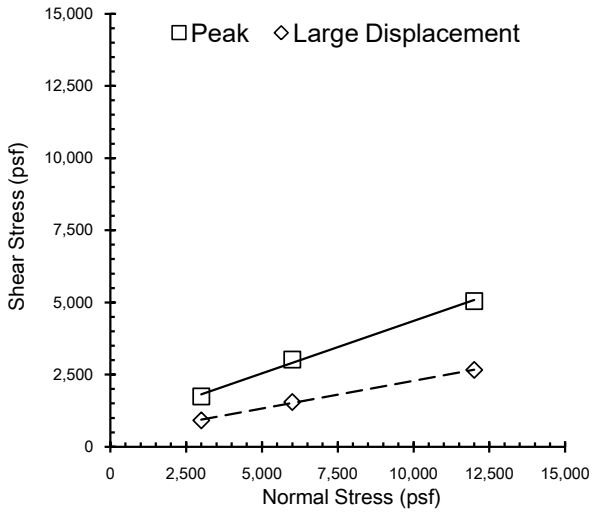
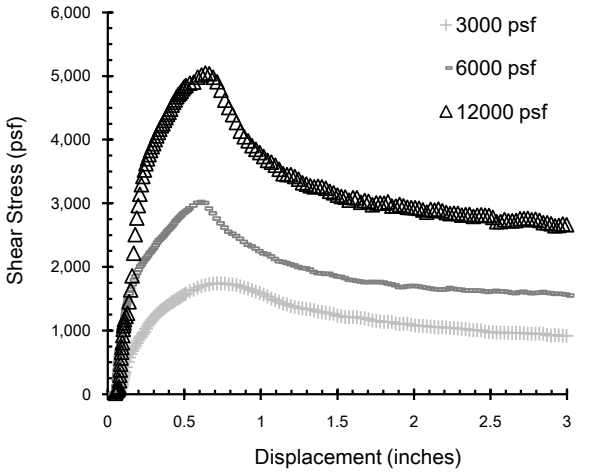
Multi-Layered Interface Friction Test (ASTM D6243 Modified)

Client: RMC Geoscience
Project: John Smith Landfill Module 7-8B

TRI Log #: G190707-2
Jeffrey A. Kuhn, Ph.D., P.E., 8/6/2019
Analysis & Quality Review/Date

Pea Gravel vs 12oz NW Geotextile vs 60mil DS Textured HDPE vs Bentoliner NWL-60 GCL





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	19.9	10.9
Y-intercept or Adhesion	psf	731	359
Minimum Secant Angle	Degrees	22.8	12.5

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Pea Gravel (tamped in place)	
Floating	SKAPS 12oz NW Geotextile R# 571881.3 *(fuzzy side against gravel)*	
	GSE 60mil DS Textured HDPE R# 102194291	
Lower Box (clamped)	GSE Bentoliner NWL-60 GCL R# 502332818 *scrim non-woven side against HDPE*	
Conditioning	Loading applied and interface flooded for 48 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

Shearing occurred at the geotextile/HDPE interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,743	3,021	5,046
	Secant Angle	deg.	30.2	26.7	22.8
Large Displacement	Shear Stress	psf	915	1,551	2,662
	Secant Angle	deg.	17.0	14.5	12.5
Pre-test Asperity Height (top side), Avg. of 5 Meas.		mils	26	26	26
Pre-test Asperity Height (bottom side), Avg. of 5 Meas.		mils	26	26	25

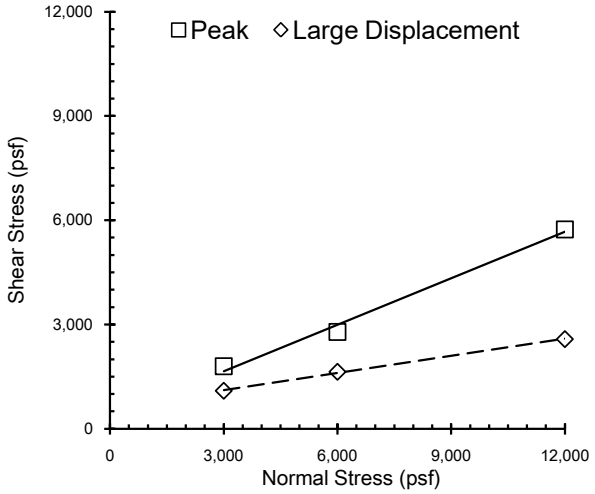
The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval

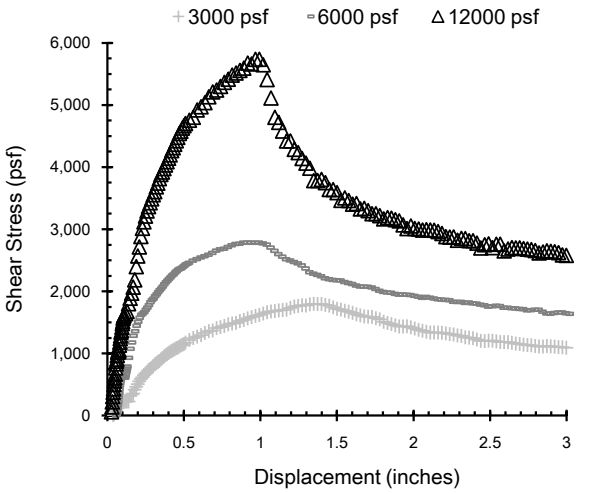
Multi-Layered Interface Friction Test (ASTM D6243 Modified)

Client: RMC Geoscience
Project: John Smith Landfill

TRI Log #: G200864-2
Richard S. Lacey, P.E. 8/24/2020
Analysis & Quality Review/Date

Granular Drainage Gravel vs Skaps 12oz NW Geotextile vs Solmax 60mil DS Textured HDPE vs Bentoliner NWL-60 GCL





Test Results, Linear Regression			
Mohr-Coulomb Parameters		Peak	Large Displacement
Friction Angle	Degrees	24.0	9.3
Y-intercept or Adhesion	psf	324	622
Minimum Secant Angle	Degrees	24.9	12.1

Note - Large Displacement Values Reported for 3.0 inches of Displacement

Test Conditions		
Upper Box	Granular Drainage Gravel (tamped in place)	
Floating	SKAPS 12oz NW Geotextile R# 623531.13 *(fuzzy side against gravel)*	
	Solmax 60mil DS Textured HDPE R# 102198751	
Lower Box (clamped)	Solmax Bentoliner NWL-60 GCL R# 0242-352008 *(scrim/heat-barnished side against HDPE)*	
Conditioning	Loading applied and interface flooded for 24 hours prior to shear.	
Shearing Rate	inches/minute	0.04

Test Notes

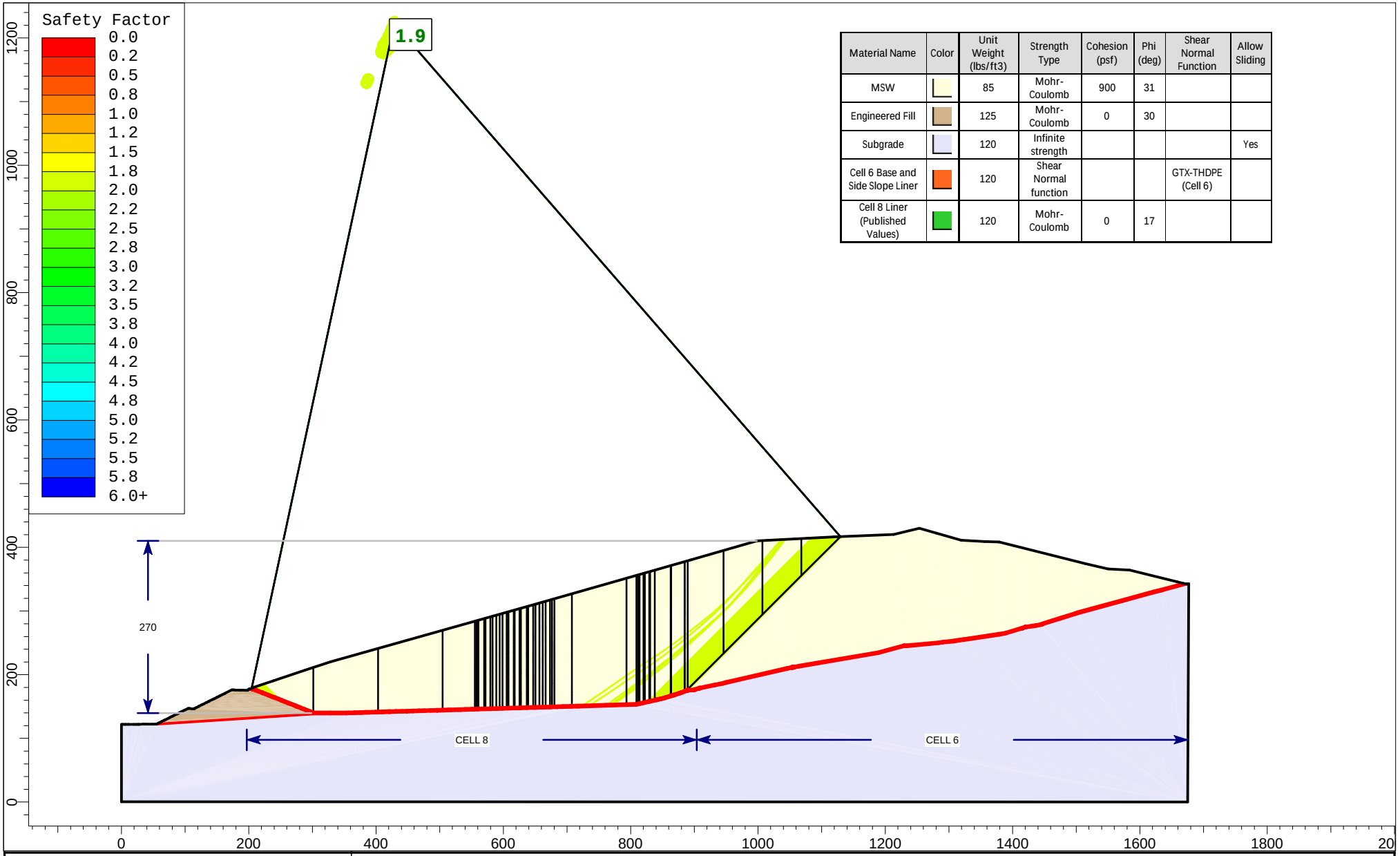
Shearing occurred at the Geotextile/HDPE interface at all stresses.

Specimen No.		-	1	2	3
Normal Stress		psf	3,000	6,000	12,000
Box Edge Dimension		in	12	12	12
Equivalent Bearing Slide Resist. Correction		psf	37	65	122
Peak	Shear Stress	psf	1,799	2,786	5,736
	Secant Angle	deg.	30.9	24.9	25.5
Large Displacement	Shear Stress	psf	1,092	1,638	2,579
	Secant Angle	deg.	20.0	15.3	12.1
Pre-test Asperity Height (top side), Avg. of 5 Meas.		mils	29	30	29
Pre-test Asperity Height (bottom side), Avg. of 5 Meas.		mils	28	29	29

NOTE: Observed behavior may be attributed to the non-standard, multi-layered method employed.

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior app

Attachment 4
STABILITY ANALYSIS OUTPUT



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding
MSW		85	Mohr-Coulomb	900	31		
Engineered Fill		125	Mohr-Coulomb	0	30		
Subgrade		120	Infinite strength				Yes
Cell 6 Base and Side Slope Liner		120	Shear Normal function			GTX-THDPE (Cell 6)	
Cell 8 Liner (Published Values)		120	Mohr-Coulomb	0	17		

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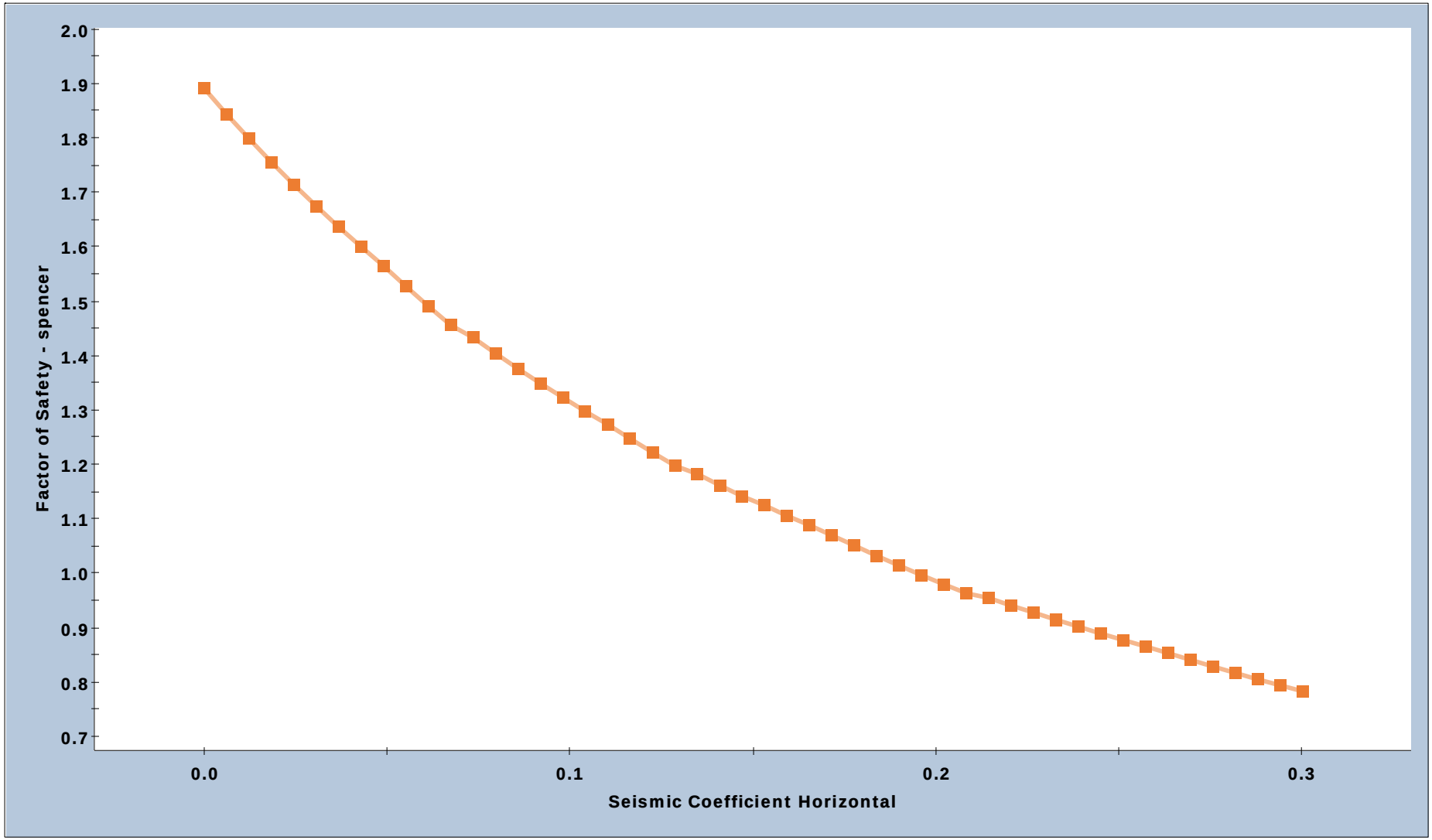
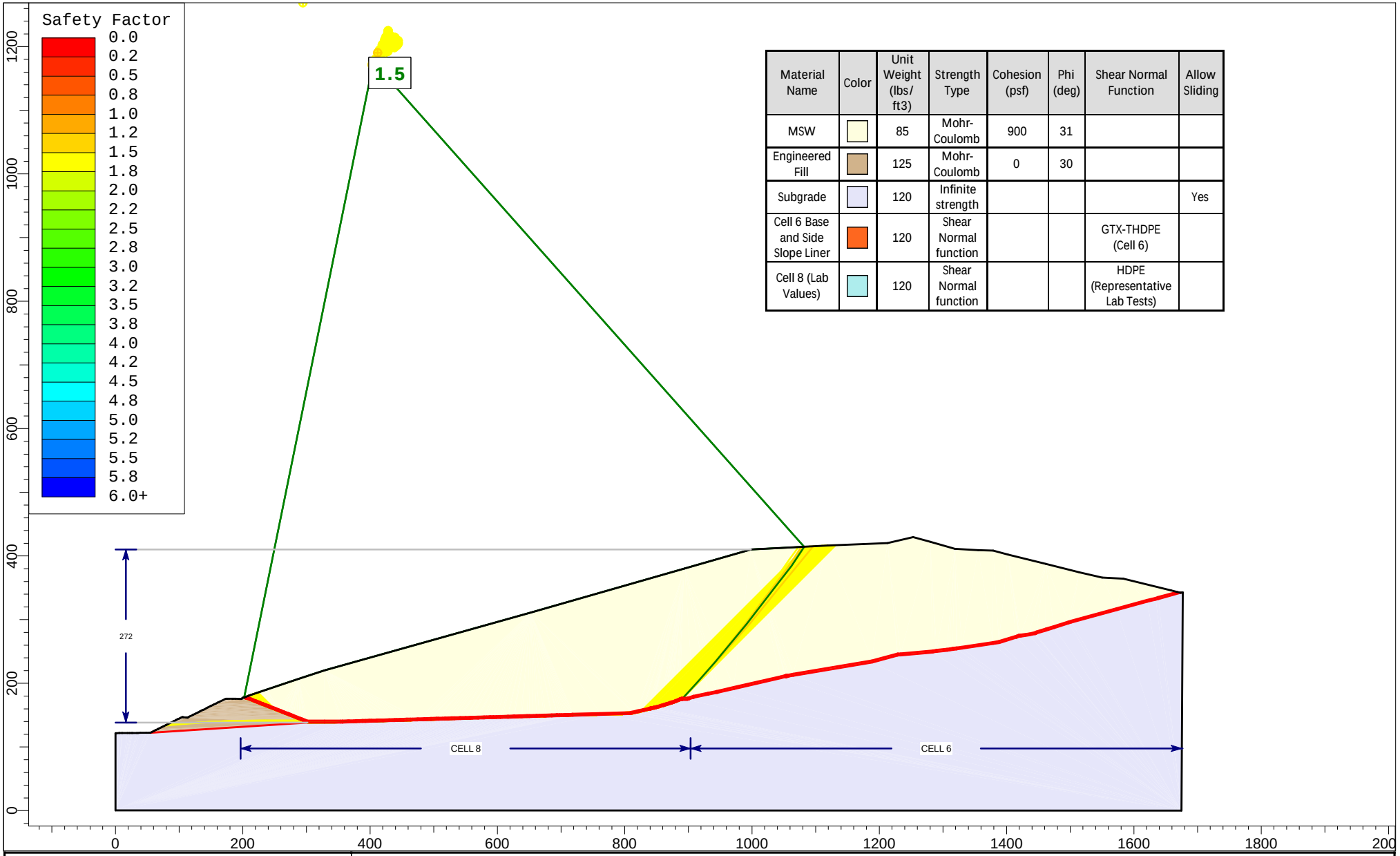
Project	MODULE 8 STABILITY		
Group	Profile Alignment A	*Scenario*	Static Analysis (Published Values)
Drawn By	R. Mitchell	*Company*	Geo-Logic Associates
Date	9/30/2020, 9:46:31 PM	*File Name*	Profile Alignment A.slmd



Seismic Coefficient Horizontal

rocscience	Project	MODULE 8 STABILITY	
	Group	Profile Alignment A	Scenario: Static Analysis (Published Values)
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	9/30/2020, 9:46:31 PM	File Name: Profile Alignment A.slmd

SLIDEINTERPRET 9.009



Material Name	Color	Unit Weight (lbs/ ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding
MSW		85	Mohr-Coulomb	900	31		
Engineered Fill		125	Mohr-Coulomb	0	30		
Subgrade		120	Infinite strength				Yes
Cell 6 Base and Side Slope Liner		120	Shear Normal function			GTX-THDPE (Cell 6)	
Cell 8 (Lab Values)		120	Shear Normal function			HDPE (Representative Lab Tests)	

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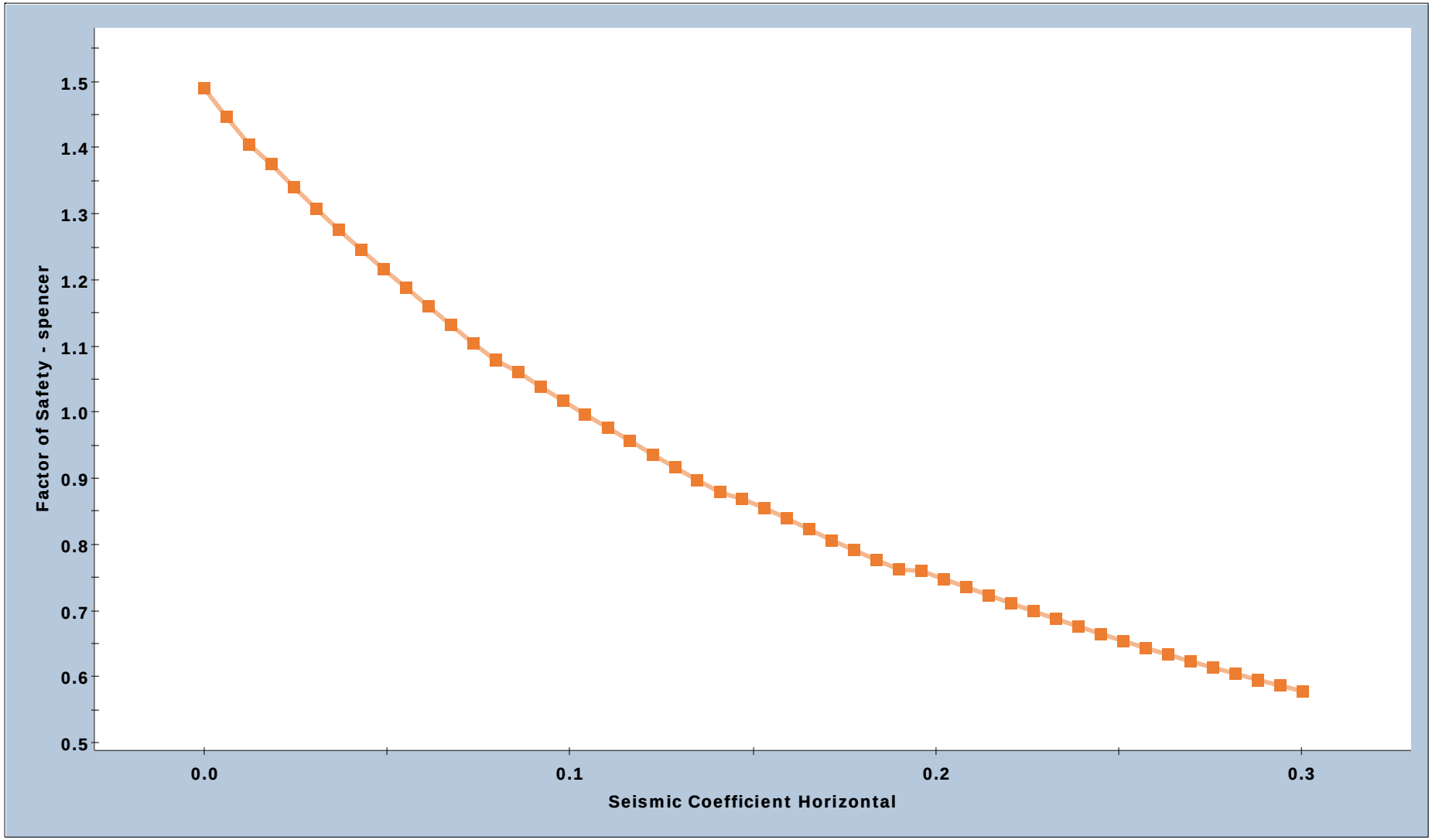
SLIDEINTERPRET 9.009

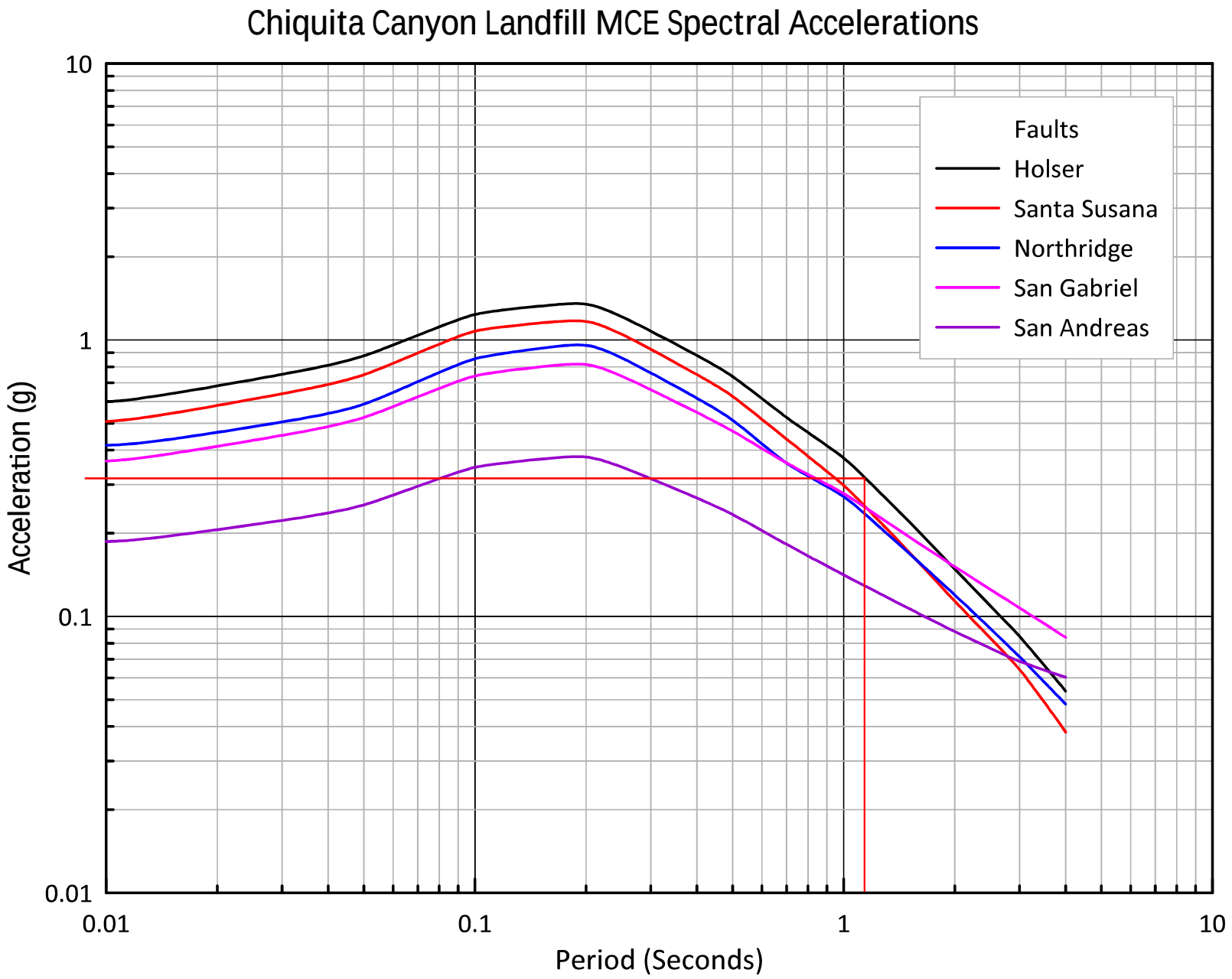
Project	MODULE 8 STABILITY		
Group	Profile Alignment A	*Scenario*	Static Analysis (JSRL Values)
Drawn By	R. Mitchell	*Company*	Geo-Logic Associates
Date	9/30/2020, 9:46:31 PM	*File Name*	Profile Alignment A.slmd



Seismic Coefficient Horizontal

rocscience	Project	MODULE 8 STABILITY	
	Group	Profile Alignment A	Scenario: Static Analysis (JSRL Values)
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	9/30/2020, 9:46:31 PM	File Name: Profile Alignment A.slmd

SLIDEINTERPRET 9.009


Chiquita Canyon Landfill MCE Spectral Accelerations
Acceleration (g)
10
1
0.1
0.01
0.01
0.1
1
10
Period (Seconds)
Faults
Holser
Santa Susana
Northridge
San Gabriel
San Andreas

Simplified Procedure for Estimating Earthquake Induced Deviatoric Slope Displacements
by Jonathan D. Bray and Thaleia Travasarou
Journal of Geotechnical and Geonvironmental Engineering, ASCE, V. 133(4), pp. 381-392, April 2007

SEE NOTES BELOW FOR GUIDANCE IN THE USE OF SPREADSHEET

Input Parameters			
Yield Coefficient (ky)	0.19		Based on pseudostatic analysis
Initial Fundamental Period (Ts)	0.81	seconds	1D: Ts=4H/Vs 2D: Ts=2.6H/Vs
Degraded Period (1.5Ts)	1.22	seconds	
Moment Magnitude (Mw)	6.8		
Spectral Acceleration (Sa(1.5Ts))	0.22	g	

Additional Input Parameters		
Probability of Exceedance #1 (P1)	84	%
Probability of Exceedance #2 (P2)	50	%
Probability of Exceedance #3 (P3)	16	%
Displacement Threshold (d_threshold)	30	cm

Intermediate Calculated Parameters			
Non-Zero Seismic Displacement Est (D)	1.11	cm	eq. (5) or (6)
Standard Deviation of Non-Zero Seismic D	0.66		

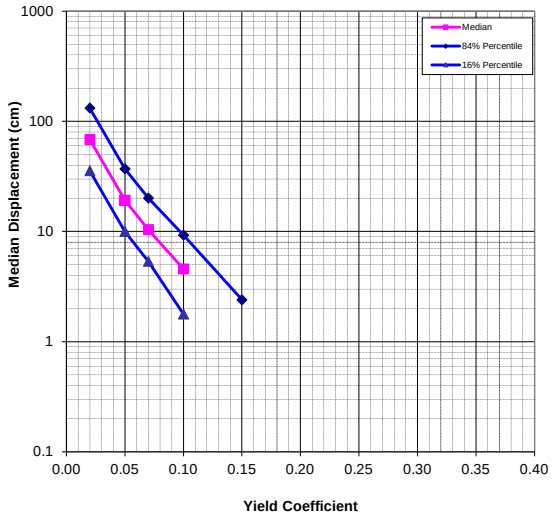
Results			
Probability of Negligible Displ. (P(D=0))	0.86		eq. (3)
D1	<1	cm	calc. using eq. (7)
D2	<1	cm	calc. using eq. (7)
D3	<1	cm	calc. using eq. (7)
P(D>d_threshold)	0.00		eq. (7)

Notes

1. Values highlighted in blue are input parameters, and results are presented in the table with the yellow heading.
2. Probability of Exceedance is the desired probability of exceeding a particular displacement value.
3. Displacements D1, D2, and D3 correspond to P1, P2, and P3, respectively.
   (e.g., the probability of exceeding displacement D1 is P1)
4. The 16%, 50%, and 84% percentile displacement values at selected ky values are shown to the right.
5. Calculated seismic displacements are due to deviatoric deformation only (add in volumetrically induced movement).
6. ky may range between 0.01 and 0.5, Ts between 0 and 2 s, Sa between 0.002 and 2.7 g, M between 4.5 and 9
7. Rigid slope is assumed for Ts < 0.05 s
8. When a value for D is not calculated, D is < 1cm
9. ky may be estimated using the simplified equations shown below.
10. Examples of how Ts is estimated are shown below.
11. Vs = weighted avg. shear wave velocity for the sliding mass, e.g., for 2 layers, Vs = [(h1)(Vs1) + (h2)(Vs2)]/(h1 + h2)

Dependence on ky

ky	P(D="0")	D (cm)	Dmedian (cm)	D-84% (cm)	D-16% (cm)
0.020	0.00	68.3	68.3	131.7	35.5
0.05	0.00	19.2	19.2	37.0	9.9
0.07	0.01	10.5	10.4	20.1	5.3
0.1	0.11	5.1	4.6	9.3	1.8
0.15	0.59	2.0	<1	2.4	<1
0.2	0.90	1.0	<1	<1	<1
0.3	1.00	0.3	<1	<1	<1
0.4	1.00	0.1	<1	<1	<1



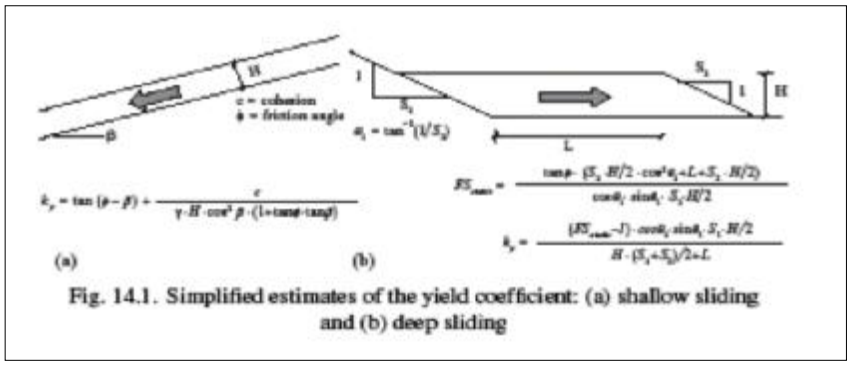


Fig. 14.1. Simplified estimates of the yield coefficient: (a) shallow sliding and (b) deep sliding

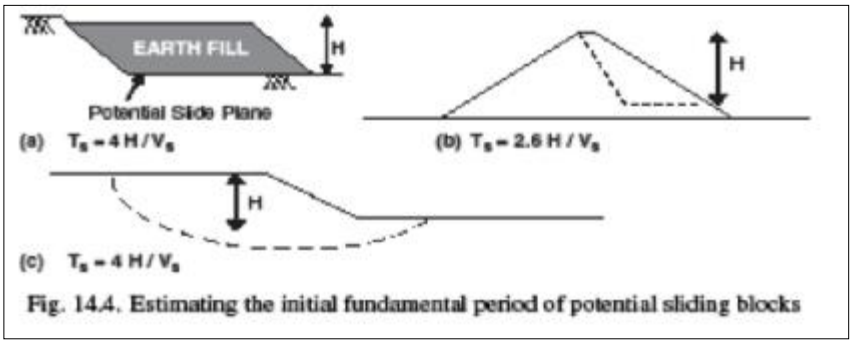


Fig. 14.4. Estimating the initial fundamental period of potential sliding blocks

Figures from Bray, J.D. (2007) "Chapter 14: Simplified Seismic Slope Displacement Procedures," Earthquake Geotechnical Engineering, 4th Inter. Conf. on Earthquake Geotechnical Engineering - Invited Lectures, in Geotechnical, Geological, and Earthquake Engineering Series, Vol. 6, Pitilakis, Kyriazis D., Ed., Springer, Vol. 6, pp. 327-353.

Simplified Procedure for Estimating Earthquake Induced Deviatoric Slope Displacements
by Jonathan D. Bray and Thaleia Travasarou
Journal of Geotechnical and Geonvironmental Engineering, ASCE, V. 133(4), pp. 381-392, April 2007

SEE NOTES BELOW FOR GUIDANCE IN THE USE OF SPREADSHEET

Input Parameters			
Yield Coefficient (ky)	0.1		Based on pseudostatic analysis
Initial Fundamental Period (Ts)	0.81	seconds	1D: Ts=4H/Vs 2D: Ts=2.6H/Vs
Degraded Period (1.5Ts)	1.22	seconds	
Moment Magnitude (Mw)	6.8		
Spectral Acceleration (Sa(1.5Ts))	0.22	g	

Additional Input Parameters		
Probability of Exceedance #1 (P1)	84	%
Probability of Exceedance #2 (P2)	50	%
Probability of Exceedance #3 (P3)	16	%
Displacement Threshold (d threshold)	30	cm

Intermediate Calculated Parameters			
Non-Zero Seismic Displacement Est (D)	5.06	cm	eq. (5) or (6)
Standard Deviation of Non-Zero Seismic D	0.66		

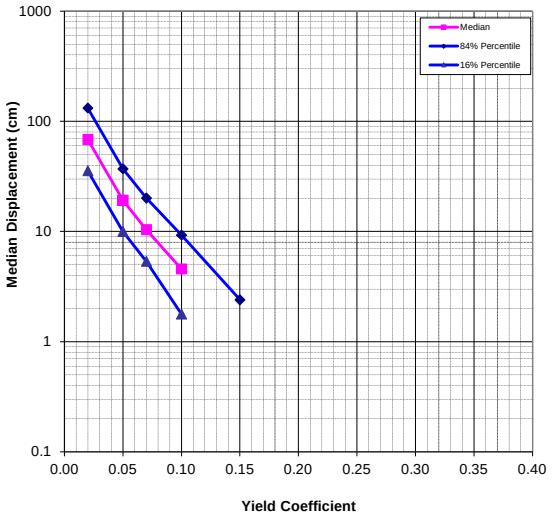
Results			
Probability of Negligible Displ. (P(D=0))	0.11		eq. (3)
D1	1.8	cm	calc. using eq. (7)
D2	4.6	cm	calc. using eq. (7)
D3	9.3	cm	calc. using eq. (7)
P(D>d threshold)	0.00		eq. (7)

Notes

1. Values highlighted in blue are input parameters, and results are presented in the table with the yellow heading.
2. Probability of Exceedance is the desired probability of exceeding a particular displacement value.
3. Displacements D1, D2, and D3 correspond to P1, P2, and P3, respectively.
   (e.g., the probability of exceeding displacement D1 is P1)
4. The 16%, 50%, and 84% percentile displacement values at selected ky values are shown to the right.
5. Calculated seismic displacements are due to deviatoric deformation only (add in volumetrically induced movement).
6. ky may range between 0.01 and 0.5, Ts between 0 and 2 s, Sa between 0.002 and 2.7 g, M between 4.5 and 9
7. Rigid slope is assumed for Ts < 0.05 s
8. When a value for D is not calculated, D is < 1cm
9. ky may be estimated using the simplified equations shown below.
10. Examples of how Ts is estimated are shown below.
11. Vs = weighted avg. shear wave velocity for the sliding mass, e.g., for 2 layers, Vs = [(h1)(Vs1) + (h2)(Vs2)]/(h1 + h2)

Dependence on ky

ky	P(D="0")	D (cm)	Dmedian (cm)	D-84% (cm)	D-16% (cm)
0.020	0.00	68.3	68.3	131.7	35.5
0.05	0.00	19.2	19.2	37.0	9.9
0.07	0.01	10.5	10.4	20.1	5.3
0.1	0.11	5.1	4.6	9.3	1.8
0.15	0.59	2.0	<1	2.4	<1
0.2	0.90	1.0	<1	<1	<1
0.3	1.00	0.3	<1	<1	<1
0.4	1.00	0.1	<1	<1	<1



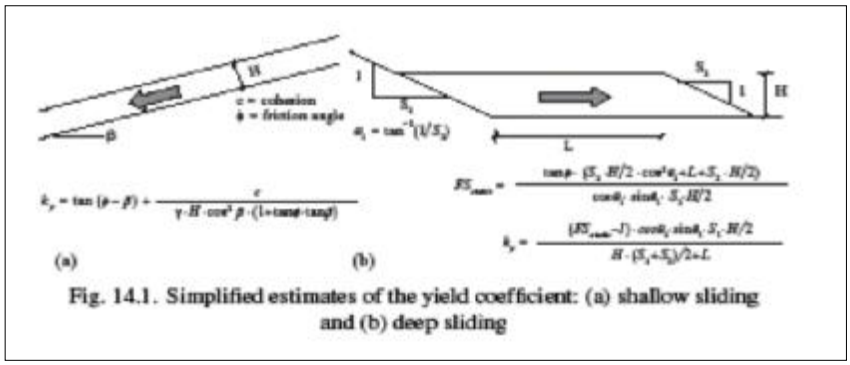


Fig. 14.1. Simplified estimates of the yield coefficient: (a) shallow sliding and (b) deep sliding

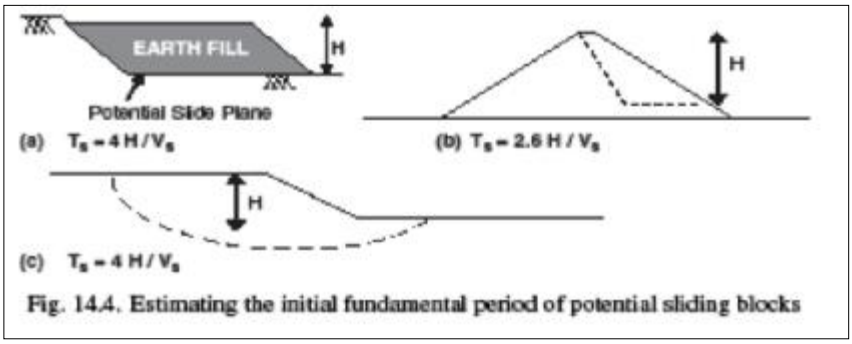
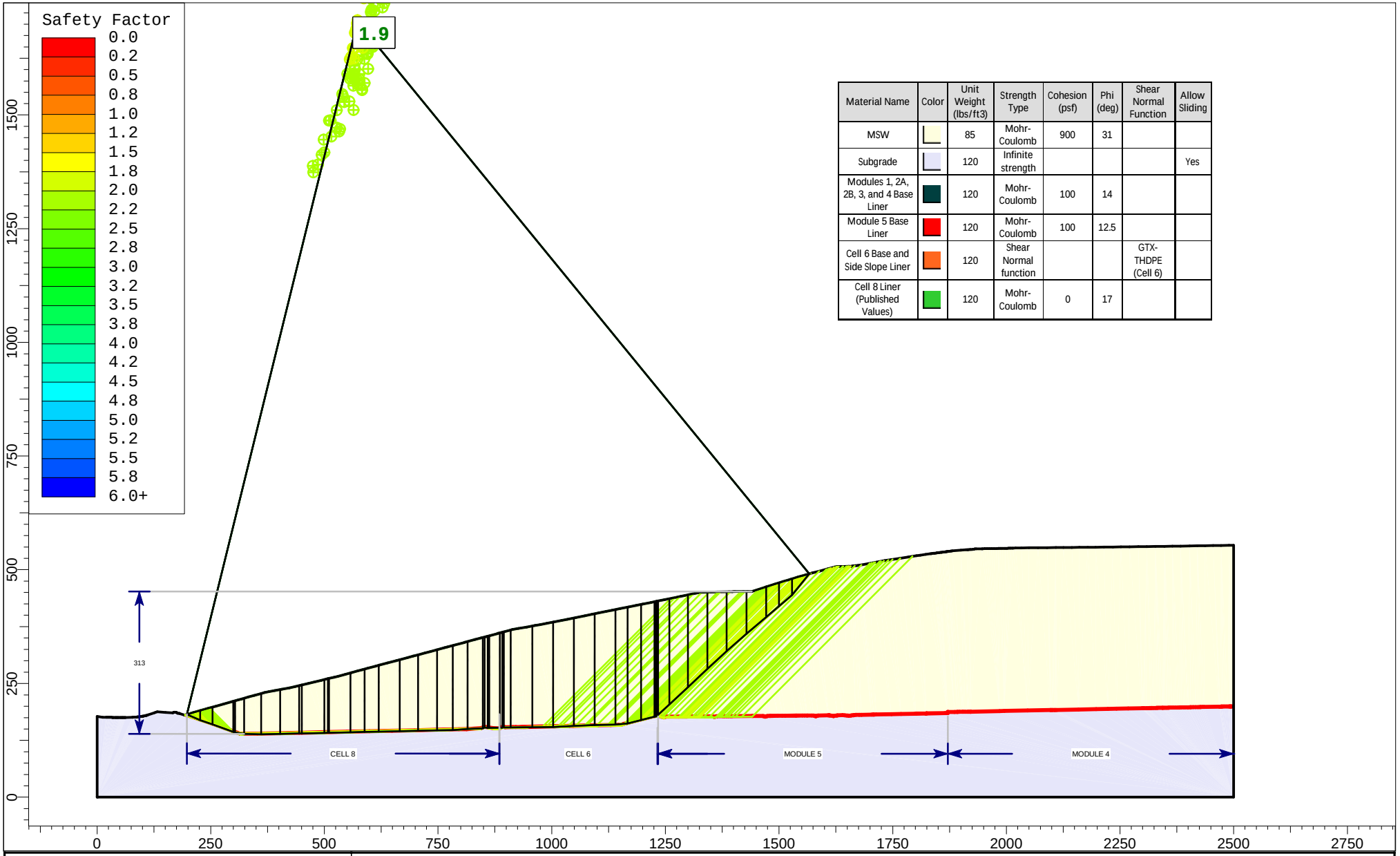


Fig. 14.4. Estimating the initial fundamental period of potential sliding blocks

Figures from Bray, J.D. (2007) "Chapter 14: Simplified Seismic Slope Displacement Procedures," Earthquake Geotechnical Engineering, 4th Inter. Conf. on Earthquake Geotechnical Engineering - Invited Lectures, in Geotechnical, Geological, and Earthquake Engineering Series, Vol. 6, Pitilakis, Kyriazis D., Ed., Springer, Vol. 6, pp. 327-353.



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding
MSW		85	Mohr-Coulomb	900	31		
Subgrade		120	Infinite strength				Yes
Modules 1, 2A, 2B, 3, and 4 Base Liner		120	Mohr-Coulomb	100	14		
Module 5 Base Liner		120	Mohr-Coulomb	100	12.5		
Cell 6 Base and Side Slope Liner		120	Shear Normal function			GTX-THDPE (Cell 6)	
Cell 8 Liner (Published Values)		120	Mohr-Coulomb	0	17		

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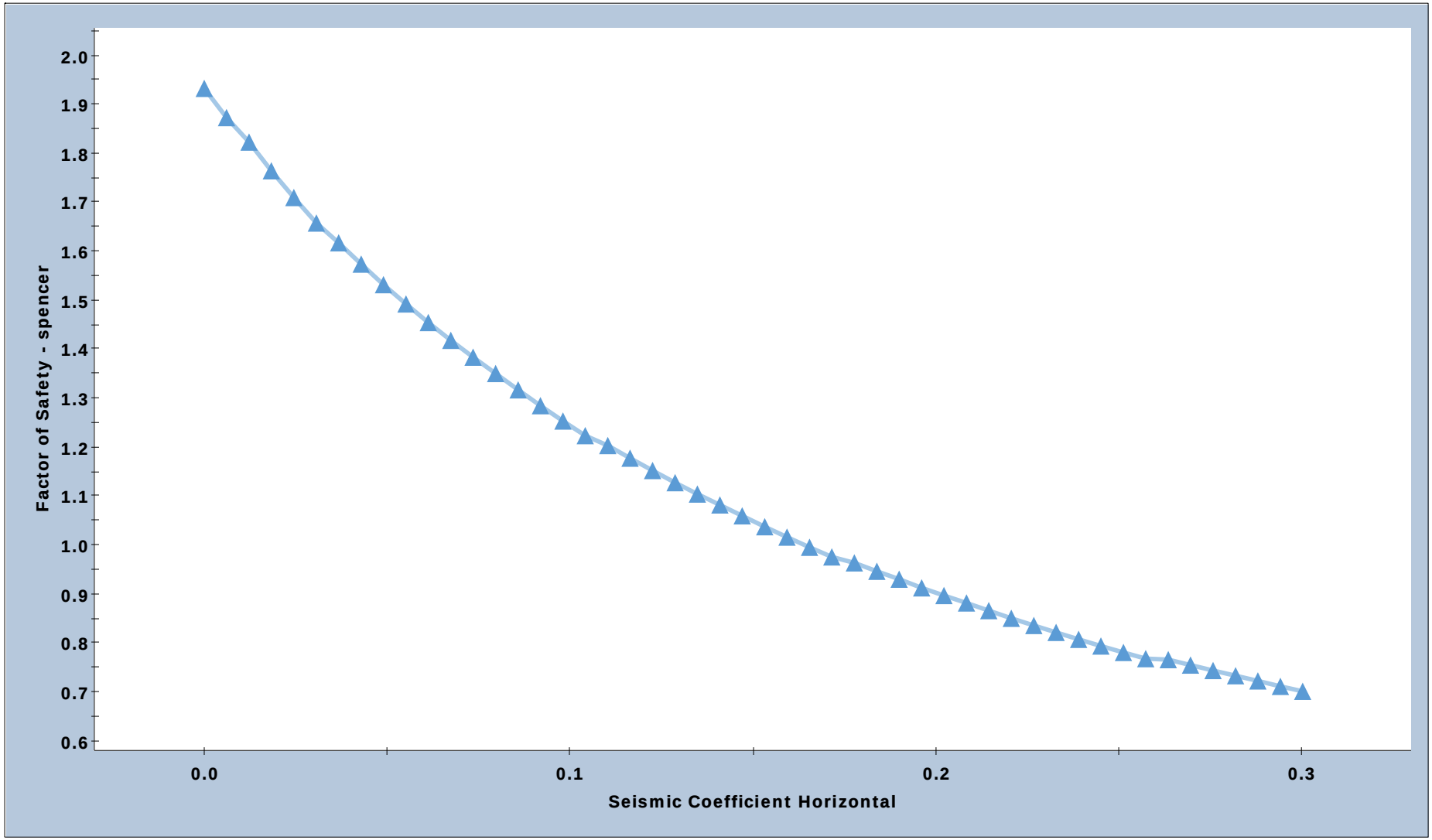
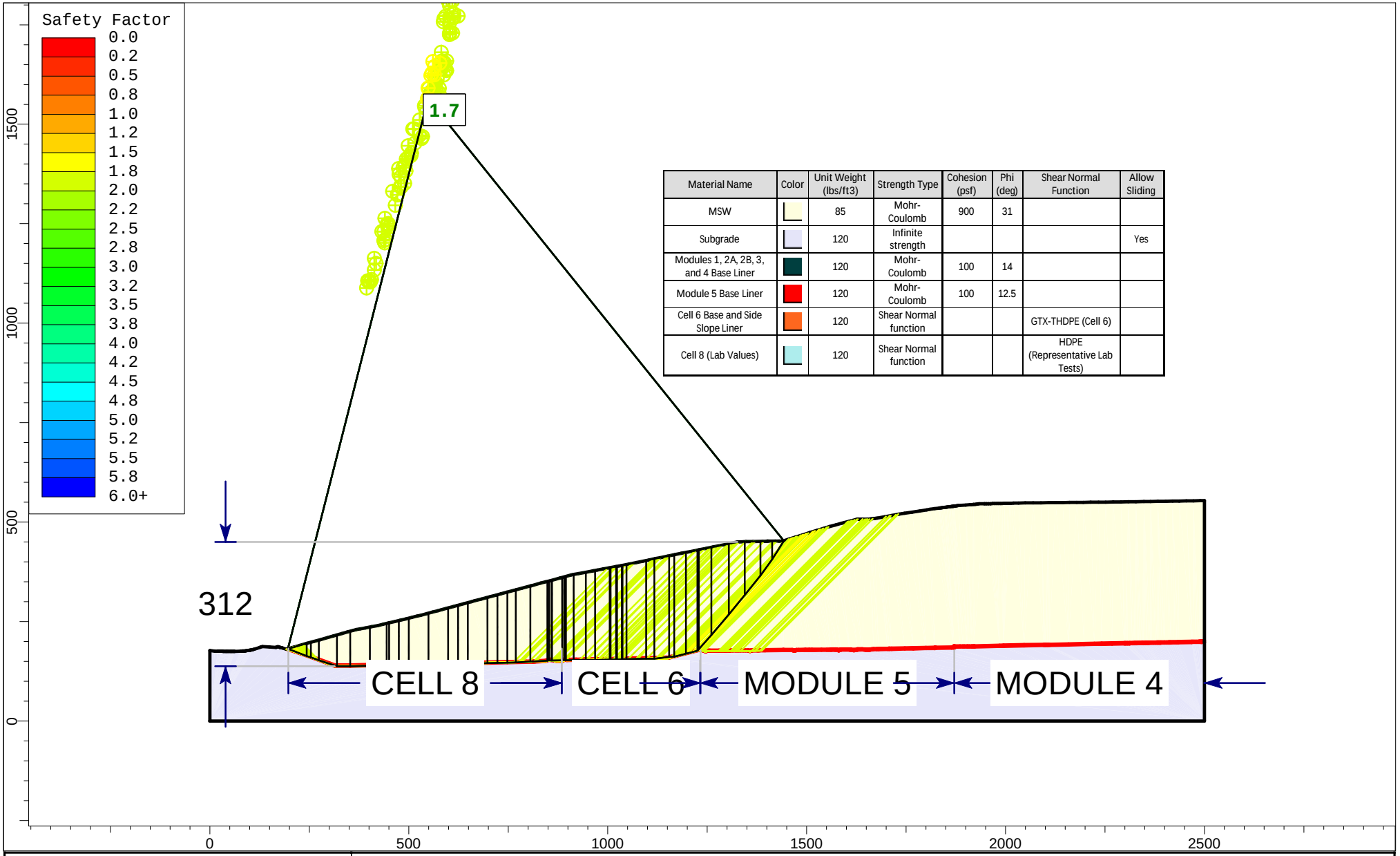
Project	CELL 8 PROFILE ALIGNMENT B		
Group	Profile Alignment B	*Scenario*	Static Analysis (Published Values)
Drawn By	R. Mitchell	*Company*	GLA
Date	10/4/2020	*File Name*	Profile Alignment B.slmd



rocscience	Project	CELL 8 PROFILE ALIGNMENT B	
	Group	Profile Alignment B	Scenario: Static Analysis (Published Values)
	Drawn By	R. Mitchell	Company: GLA
	Date	10/4/2020	File Name: Profile Alignment B.slmd

SLIDEINTERPRET 9.009



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Shear Normal Function	Allow Sliding
MSW		85	Mohr-Coulomb	900	31		
Subgrade		120	Infinite strength				Yes
Modules 1, 2A, 2B, 3, and 4 Base Liner		120	Mohr-Coulomb	100	14		
Module 5 Base Liner		120	Mohr-Coulomb	100	12.5		
Cell 6 Base and Side Slope Liner		120	Shear Normal function			GTX-THDPE (Cell 6)	
Cell 8 (Lab Values)		120	Shear Normal function			HDPE (Representative Lab Tests)	

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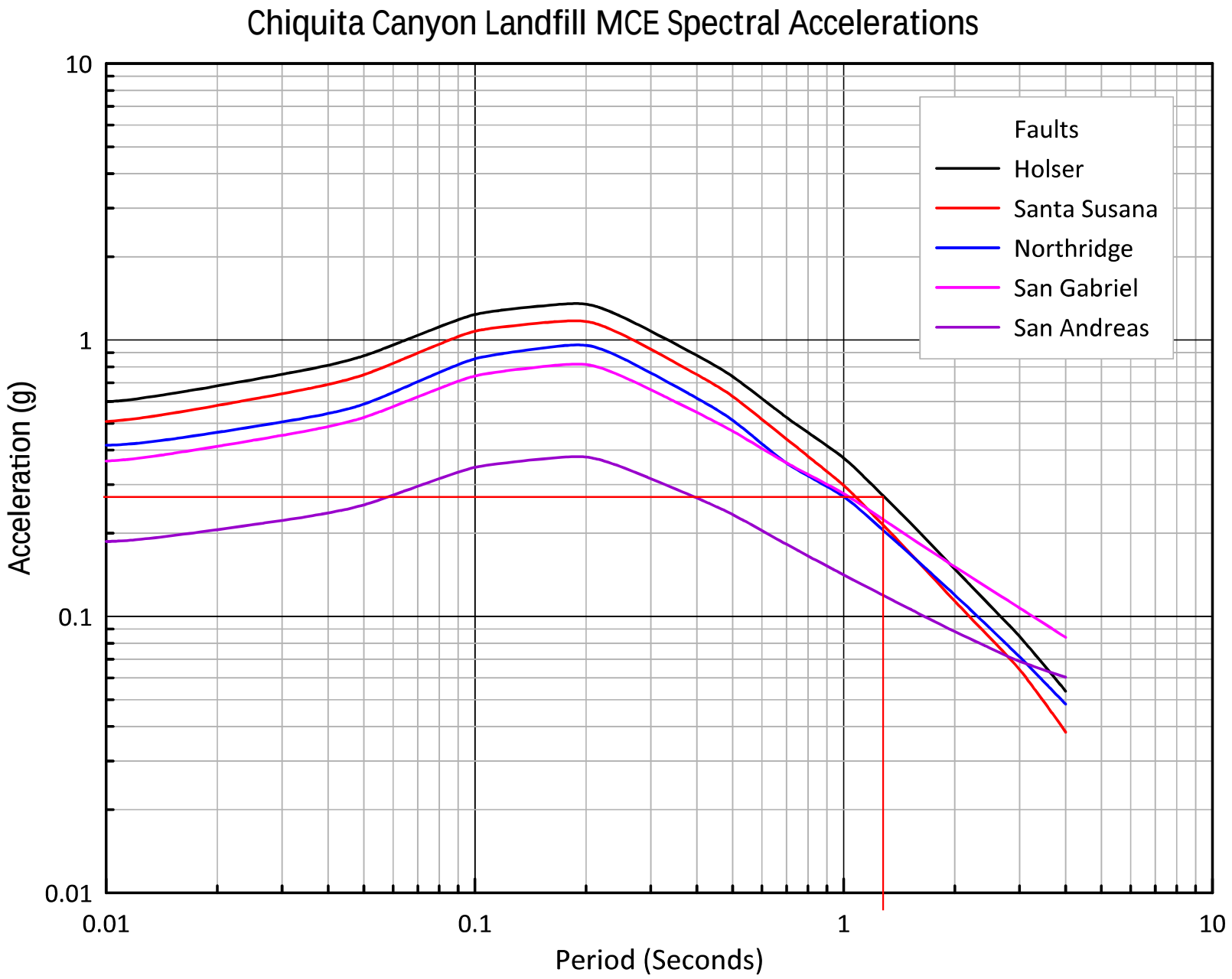
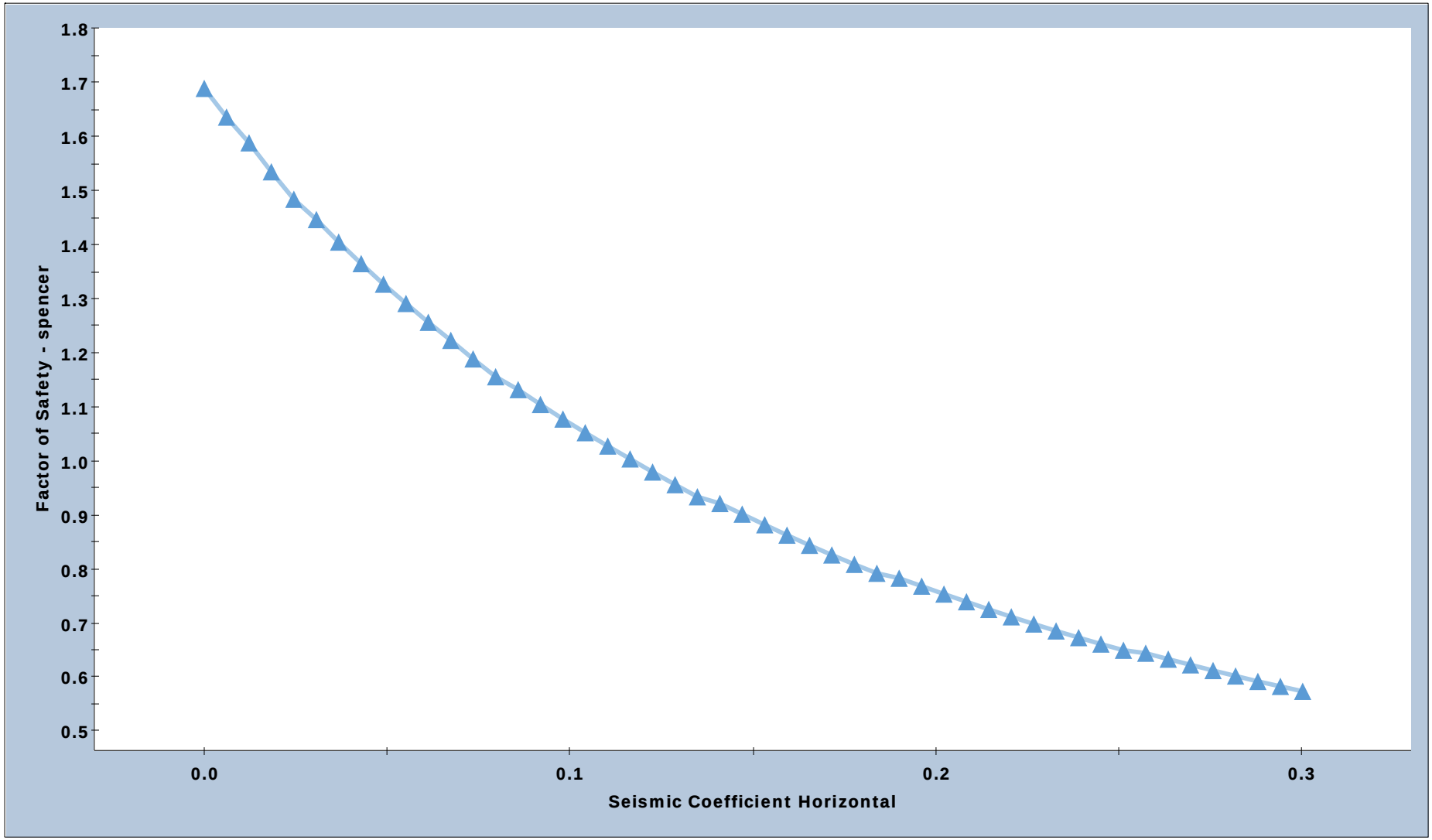
SLIDEINTERPRET 9.009

Project	CELL 8 PROFILE ALIGNMENT B		
Group	Profile Alignment B	*Scenario*	Static Analysis (JSRL Values)
Drawn By	R. Mitchell	*Company*	GLA
Date	10/4/2020	*File Name*	Profile Alignment B.slmd


Chiquita Canyon Landfill MCE Spectral Accelerations
Acceleration (g)
Period (Seconds)
10
1
0.1
0.01
0.01
0.1
1
10
Faults
Holser
Santa Susana
Northridge
San Gabriel
San Andreas



rocscience	Project	CELL 8 PROFILE ALIGNMENT B	
	Group	Profile Alignment B	Scenario: Static Analysis (JSRL Values)
	Drawn By	R. Mitchell	Company: GLA
	Date	10/4/2020	File Name: Profile Alignment B.slmd

SLIDEINTERPRET 9.009

Simplified Procedure for Estimating Earthquake Induced Deviatoric Slope Displacements
by Jonathan D. Bray and Thaleia Travasarou
Journal of Geotechnical and Geonvironmental Engineering, ASCE, V. 133(4), pp. 381-392, April 2007

SEE NOTES BELOW FOR GUIDANCE IN THE USE OF SPREADSHEET

Input Parameters			
Yield Coefficient (ky)	0.17		Based on pseudostatic analysis
Initial Fundamental Period (Ts)	0.88	seconds	1D: Ts=4H/Vs 2D: Ts=2.6H/Vs
Degraded Period (1.5Ts)	1.32	seconds	
Moment Magnitude (Mw)	6.8		
Spectral Acceleration (Sa(1.5Ts))	0.18	g	

Additional Input Parameters		
Probability of Exceedance #1 (P1)	84	%
Probability of Exceedance #2 (P2)	50	%
Probability of Exceedance #3 (P3)	16	%
Displacement Threshold (d threshold)	30	cm

Intermediate Calculated Parameters			
Non-Zero Seismic Displacement Est (D)	0.93	cm	eq. (5) or (6)
Standard Deviation of Non-Zero Seismic D	0.66		

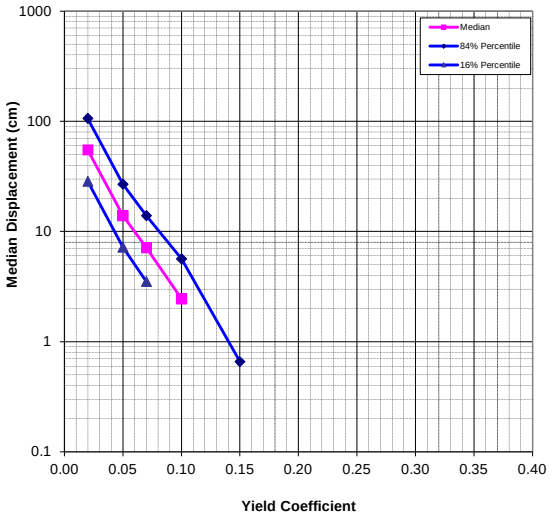
Results			
Probability of Negligible Displ. (P(D=0))	0.91		eq. (3)
D1	<1	cm	calc. using eq. (7)
D2	<1	cm	calc. using eq. (7)
D3	<1	cm	calc. using eq. (7)
P(D>d threshold)	0.00		eq. (7)

Notes

1. Values highlighted in blue are input parameters, and results are presented in the table with the yellow heading.
2. Probability of Exceedance is the desired probability of exceeding a particular displacement value.
3. Displacements D1, D2, and D3 correspond to P1, P2, and P3, respectively.
   (e.g., the probability of exceeding displacement D1 is P1)
4. The 16%, 50%, and 84% percentile displacement values at selected ky values are shown to the right.
5. Calculated seismic displacements are due to deviatoric deformation only (add in volumetrically induced movement).
6. ky may range between 0.01 and 0.5, Ts between 0 and 2 s, Sa between 0.002 and 2.7 g, M between 4.5 and 9
7. Rigid slope is assumed for Ts < 0.05 s
8. When a value for D is not calculated, D is < 1cm
9. ky may be estimated using the simplified equations shown below.
10. Examples of how Ts is estimated are shown below.
11. Vs = weighted avg. shear wave velocity for the sliding mass, e.g., for 2 layers, Vs = [(h1)(Vs1) + (h2)(Vs2)]/(h1 + h2)

Dependence on ky

ky	P(D="0")	D (cm)	Dmedian (cm)	D-84% (cm)	D-16% (cm)
0.020	0.00	54.9	54.9	105.8	28.5
0.05	0.00	13.9	13.9	26.8	7.2
0.07	0.03	7.3	7.1	13.9	3.5
0.1	0.27	3.4	2.4	5.6	<1
0.15	0.81	1.3	<1	0.7	<1
0.2	0.97	0.6	<1	<1	<1
0.3	1.00	0.2	<1	<1	<1
0.4	1.00	0.1	<1	<1	<1



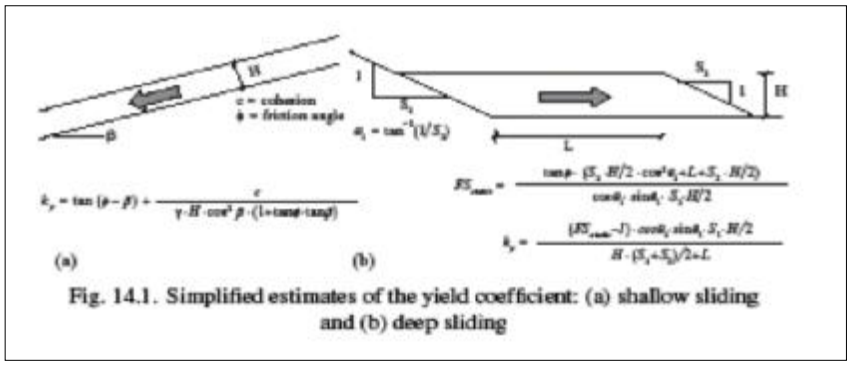


Fig. 14.1. Simplified estimates of the yield coefficient: (a) shallow sliding and (b) deep sliding

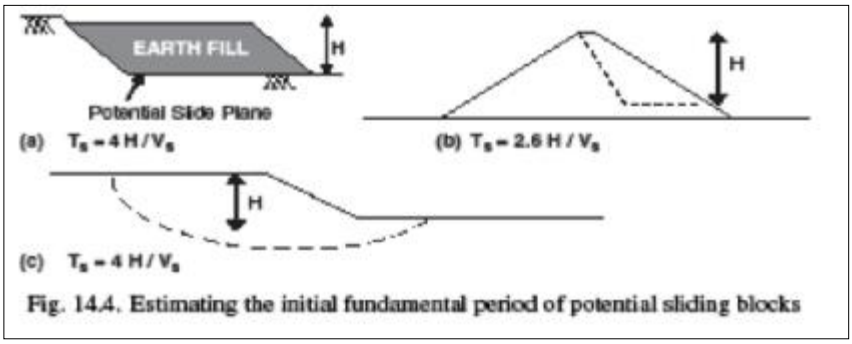


Fig. 14.4. Estimating the initial fundamental period of potential sliding blocks

Figures from Bray, J.D. (2007) "Chapter 14: Simplified Seismic Slope Displacement Procedures," Earthquake Geotechnical Engineering, 4th Inter. Conf. on Earthquake Geotechnical Engineering - Invited Lectures, in Geotechnical, Geological, and Earthquake Engineering Series, Vol. 6, Pitilakis, Kyriazis D., Ed., Springer, Vol. 6, pp. 327-353.

Simplified Procedure for Estimating Earthquake Induced Deviatoric Slope Displacements
by Jonathan D. Bray and Thaleia Travasarou
Journal of Geotechnical and Geonvironmental Engineering, ASCE, V. 133(4), pp. 381-392, April 2007

SEE NOTES BELOW FOR GUIDANCE IN THE USE OF SPREADSHEET

Input Parameters			
Yield Coefficient (ky)	0.12		Based on pseudostatic analysis
Initial Fundamental Period (Ts)	0.88	seconds	1D: Ts=4H/Vs 2D: Ts=2.6H/Vs
Degraded Period (1.5Ts)	1.32	seconds	
Moment Magnitude (Mw)	6.8		
Spectral Acceleration (Sa(1.5Ts))	0.18	g	

Additional Input Parameters		
Probability of Exceedance #1 (P1)	84	%
Probability of Exceedance #2 (P2)	50	%
Probability of Exceedance #3 (P3)	16	%
Displacement Threshold (d_threshold)	30	cm

Intermediate Calculated Parameters			
Non-Zero Seismic Displacement Est (D)	2.21	cm	eq. (5) or (6)
Standard Deviation of Non-Zero Seismic D	0.66		

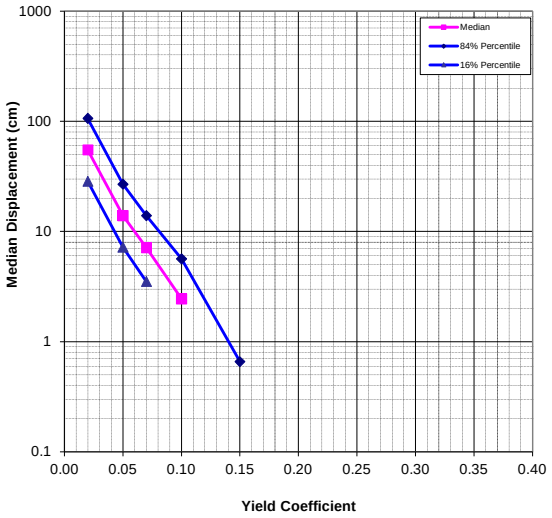
Results			
Probability of Negligible Displ. (P(D=0))	0.53		eq. (3)
D1	<1	cm	calc. using eq. (7)
D2	<1	cm	calc. using eq. (7)
D3	2.9	cm	calc. using eq. (7)
P(D>d_threshold)	0.00		eq. (7)

Notes

1. Values highlighted in blue are input parameters, and results are presented in the table with the yellow heading.
2. Probability of Exceedance is the desired probability of exceeding a particular displacement value.
3. Displacements D1, D2, and D3 correspond to P1, P2, and P3, respectively.
   (e.g., the probability of exceeding displacement D1 is P1)
4. The 16%, 50%, and 84% percentile displacement values at selected ky values are shown to the right.
5. Calculated seismic displacements are due to deviatoric deformation only (add in volumetrically induced movement).
6. ky may range between 0.01 and 0.5, Ts between 0 and 2 s, Sa between 0.002 and 2.7 g, M between 4.5 and 9
7. Rigid slope is assumed for Ts < 0.05 s
8. When a value for D is not calculated, D is < 1cm
9. ky may be estimated using the simplified equations shown below.
10. Examples of how Ts is estimated are shown below.
11. Vs = weighted avg. shear wave velocity for the sliding mass, e.g., for 2 layers, Vs = [(h1)(Vs1) + (h2)(Vs2)]/(h1 + h2)

Dependence on ky

ky	P(D="0")	D (cm)	Dmedian (cm)	D-84% (cm)	D-16% (cm)
0.020	0.00	54.9	54.9	105.8	28.5
0.05	0.00	13.9	13.9	26.8	7.2
0.07	0.03	7.3	7.1	13.9	3.5
0.1	0.27	3.4	2.4	5.6	<1
0.15	0.81	1.3	<1	0.7	<1
0.2	0.97	0.6	<1	<1	<1
0.3	1.00	0.2	<1	<1	<1
0.4	1.00	0.1	<1	<1	<1



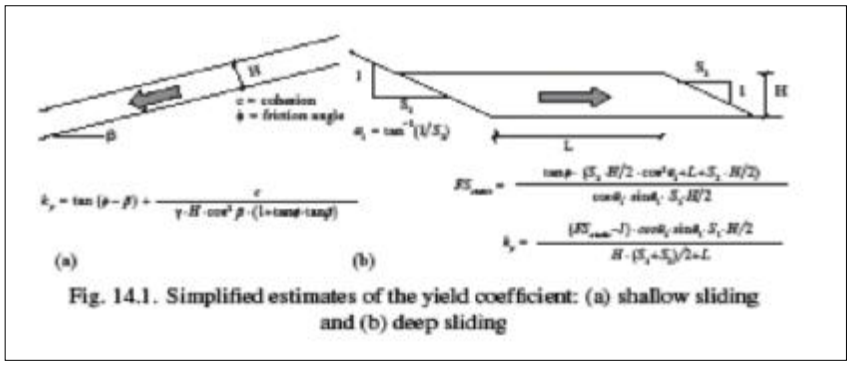


Fig. 14.1. Simplified estimates of the yield coefficient: (a) shallow sliding and (b) deep sliding

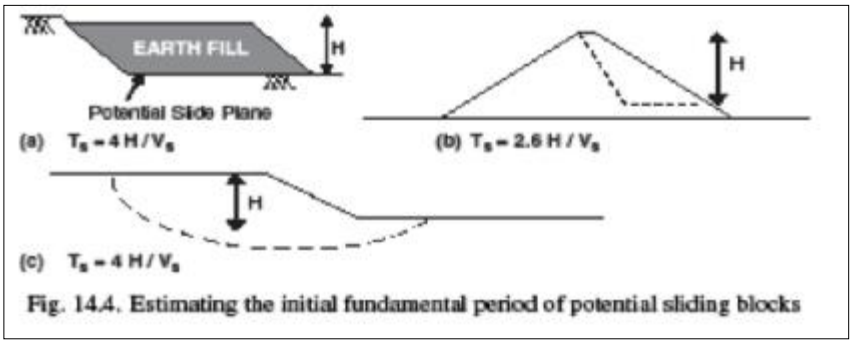
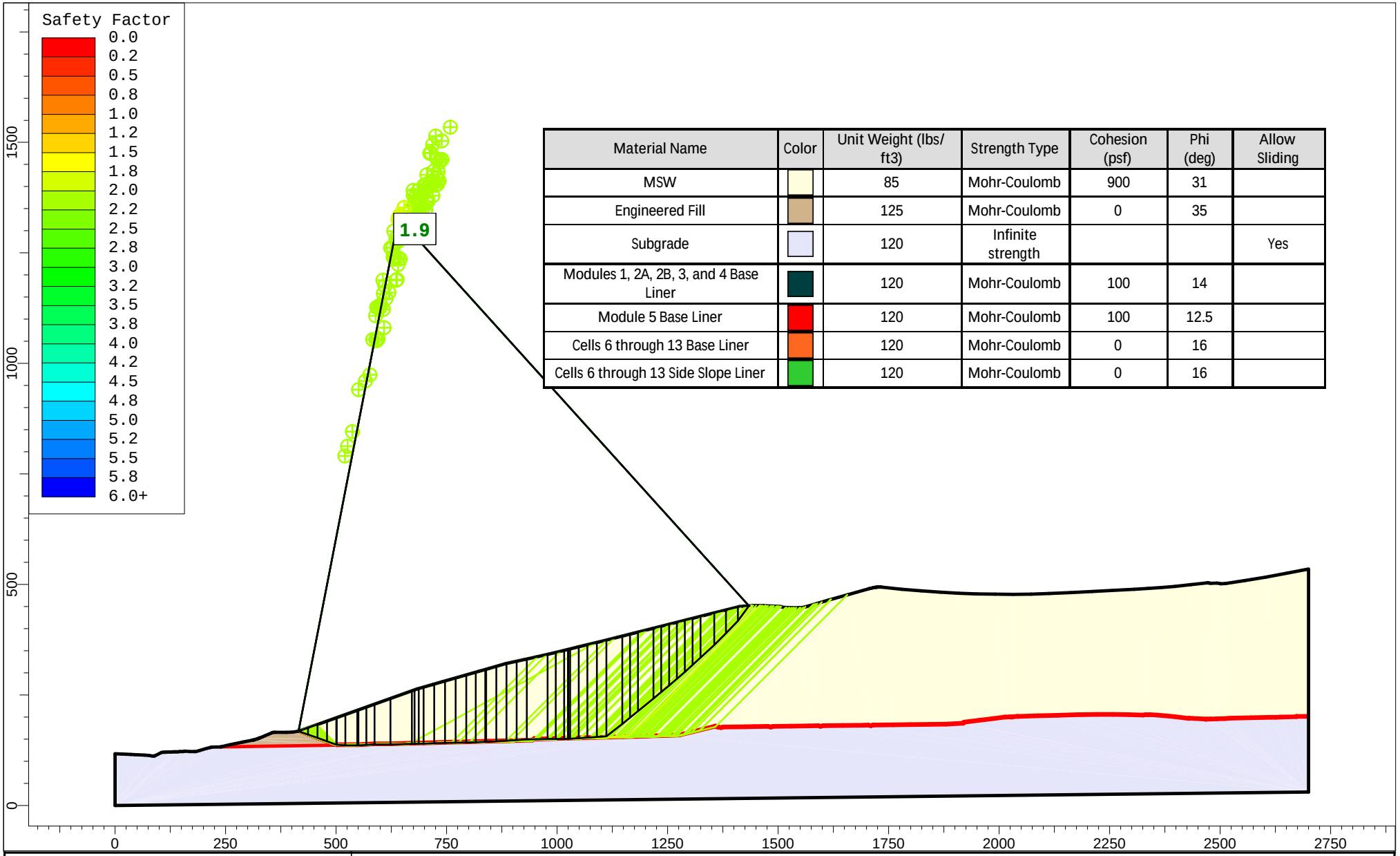


Fig. 14.4. Estimating the initial fundamental period of potential sliding blocks

Figures from Bray, J.D. (2007) "Chapter 14: Simplified Seismic Slope Displacement Procedures," Earthquake Geotechnical Engineering, 4th Inter. Conf. on Earthquake Geotechnical Engineering - Invited Lectures, in Geotechnical, Geological, and Earthquake Engineering Series, Vol. 6, Pitilakis, Kyriazis D., Ed., Springer, Vol. 6, pp. 327-353.

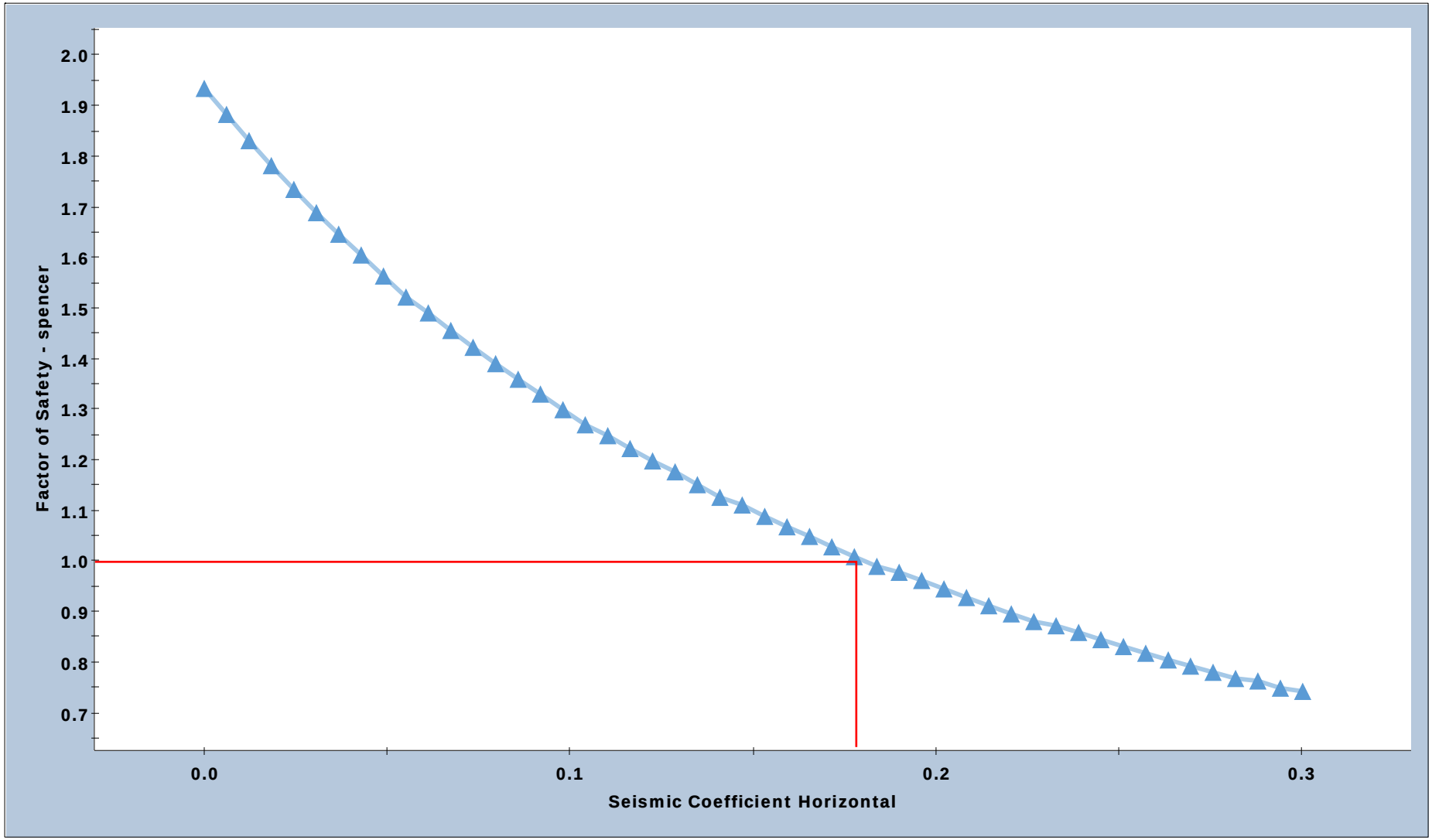


Material Name	Color	Unit Weight (lbs/ ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Allow Sliding
MSW		85	Mohr-Coulomb	900	31	
Engineered Fill		125	Mohr-Coulomb	0	35	
Subgrade		120	Infinite strength			Yes
Modules 1, 2A, 2B, 3, and 4 Base Liner		120	Mohr-Coulomb	100	14	
Module 5 Base Liner		120	Mohr-Coulomb	100	12.5	
Cells 6 through 13 Base Liner		120	Mohr-Coulomb	0	16	
Cells 6 through 13 Side Slope Liner		120	Mohr-Coulomb	0	16	

rocscience

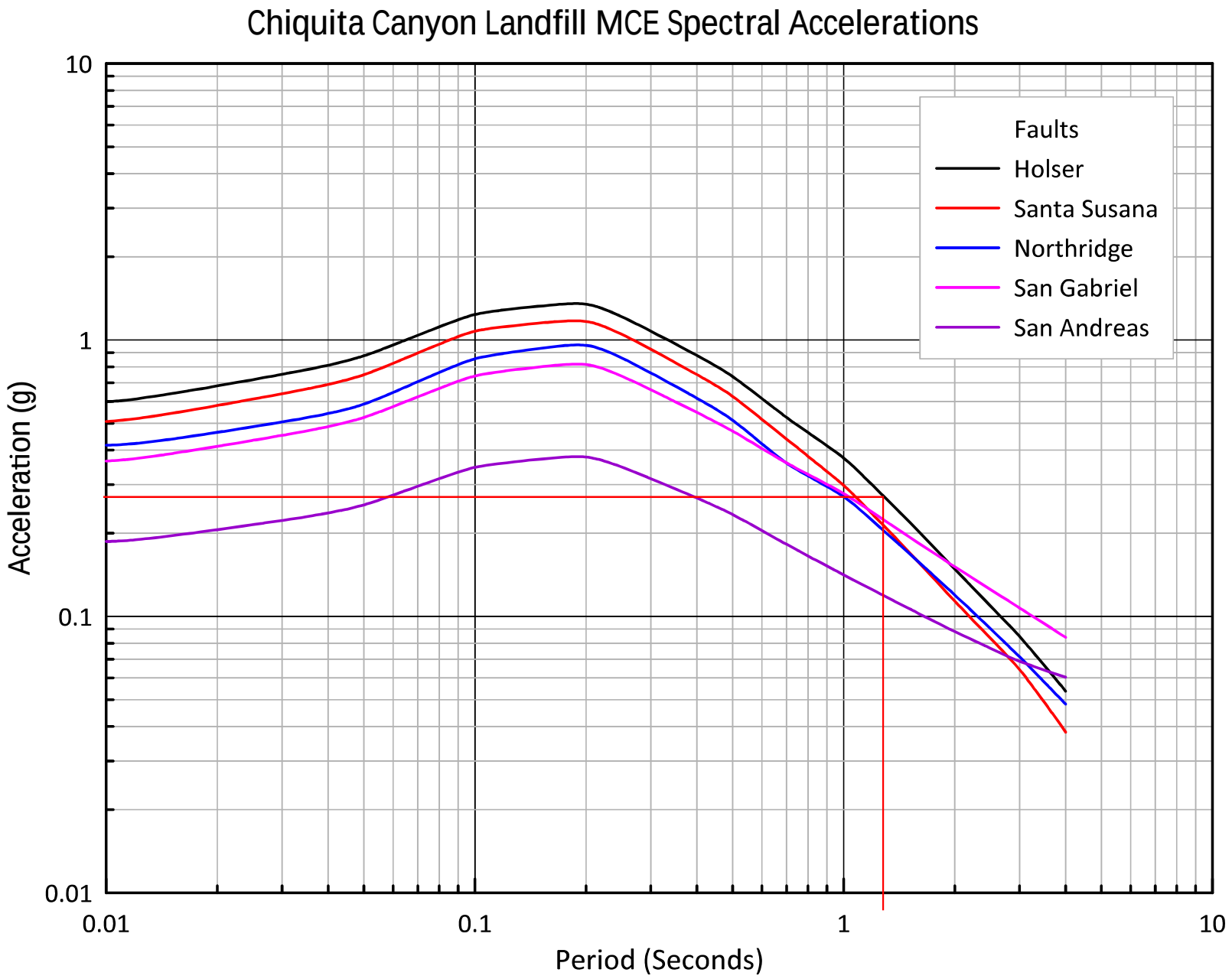
SLIDEINTERPRET 9.009

Project	CELL 8 PROFILE ALIGNMENT C		
Group	Group 1	*Scenario*	Static Analysis
Drawn By	R. Mitchell	*Company*	GLA
Date	10/4/2020	*File Name*	Profile Alignment C.slmd



rocscience	Project	CELL 8 PROFILE ALIGNMENT C	
	Group	Group 1	Scenario: Seismic Analysis
	Drawn By	R. Mitchell	Company: GLA
	Date	10/4/2020	File Name: Profile Alignment C.slmd

SLIDEINTERPRET 9.009


Chiquita Canyon Landfill MCE Spectral Accelerations
Acceleration (g)
Period (Seconds)
10
1
0.1
0.01
0.01
0.1
1
10
Faults
Holser
Santa Susana
Northridge
San Gabriel
San Andreas

Geo-Logic ASSOCIATES

May 15, 2020

Mr. Steve Cassulo
District Manager
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic CA 91384-2705

INFORMATION REQUESTED BY COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

Dear Mr. Cassulo:

This letter provides information requested under "Plans General Comments" in the January 29, 2020 County of Los Angeles Department of Public Works (LADPW) letter to Chiquita Canyon Landfill (CCL) regarding the October 1, 2019 Fill Sequencing Plan for the landfill. The letter requested that cross sections be provided for the Cell 11, Cell 12, and Cell 13 Fill Plans that were included in the Fill Sequencing Plan.

Cross sections for these cells are included in Attachment 1. At Waste Connection's request, stability analyses were performed for these sections using substantially the same methods of analysis and material properties that were used for the November 2017 Master Development Plan Fill Sequence Stability Analyses.[1] The different liner sections that underlies the landfill are summarized in Table 1 and the material properties assumed for the different liner configurations that underlie each section are summarized in Table 2 The results of the analyses are summarized in Table 3. As indicated in this table, the static safety factors for failure surfaces that pass through the Cells 11, 12, and 13 refuse fills are higher than failure surfaces that pass through other portions of the cross sections.

Geo-Logic Associates, Inc. prepared the cross sections shown in Attachment 1 and completed the analyses included in Attachment 2 under the direction of Richard Mitchell, PG, CEG. The analyses were reviewed by Neven Matasovic, Ph.D., PE, GE. The evaluations were based on limited laboratory test results and professional judgment. We have employed accepted geotechnical engineering and engineering geologic procedures and our professional opinions and conclusions are made in accordance with these principles and practices. This standard is

[1] Geo-Logic Associates, Inc. (2017) Master Development Plan Fill Sequence Stability Analyses, Chiquita Canyon Landfill, County of Los Angeles, California, November 2017.

in lieu of all warranties, either expressed or implied. Please contact the undersigned at (415) 699-8073 if you have questions or need additional information.

Very truly yours,
Geo-Logic Associates, Inc.



Richard A. Mitchell, PG, CEG
Principal Engineering Geologist

Attachments:

Attachment 1 Grading Plans and Cross Sections
Attachment 2 Static Stability Analysis Results
Attachment 3 References

Table 1
SUMMARY OF BASE AND SIDE SLOPE LINER SYSTEM CONFIGURATIONS
FILL SEQUENCE PLAN STABILITY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

Base Liner	Side Slope Liner
CANYON A	
· Subgrade · 2 ft Bentonite Admixture	· Subgrade · Smooth HDPE · Operations Layer Soil (Assumed)
CANYON C – CELL 1	
· Subgrade · 2 ft Bentonite Admixture · Single-Side Textured HDPE (Down) · Granular LCS · Operations Layer Soil (Assumed)	· Subgrade · Smooth HDPE · Operations Layer Soil (Assumed)
CANYON C – CELL II (PHASE 1)	
· Subgrade · GCL (Claymax) · Double-Side Textured HDPE · Granular LCS · Operations Layer Soil (Assumed)	· Subgrade · GCL (Claymax) · Single-Side Textured HDPE (Down) · Operations Layer Soil (Assumed)
CANYON C – CELL II (PHASES 2A AND 2B)	
· Subgrade · GCL (Bentomat) · Double-Side Textured HDPE · Granular LCS · Operations Layer Soil (Assumed)	· Subgrade · GCL (Bentomat) · Single-Side Textured HDPE (Down) · Geotextile (Upper 1/3 of Slope) · Operations Layer Soil (Assumed)
MODULES 1, 2A, 2B, 3, AND 4	
· Subgrade · GCL (Reinforced) · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)	· Subgrade · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)
MODULE 5	
· Subgrade · Compacted Clay · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)	· Subgrade · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)
CELLS 6 THROUGH 13	
· Subgrade · Compacted Clay · Double-Side Textured HDPE · Cushion Geotextile · Granular Drainage Layer · Filter Geotextile · Operations Layer Soil (Assumed)	· Subgrade · Double-Side Textured HDPE · Cushion Geotextile · Operations Layer Soil (Assumed)

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
Municipal Solid Waste (MSW)	75	900	31	NA	NA	Bilinear strength envelope based on published data (Kavazanjian et al., 2013).	MSW (Kavazanjian, 2013)	75	900	31
Toe Berm/Buttress	125	0	35	0	35	Emcon 1997 values. No laboratory test data available. No reported difference between peak and post-peak strength.	Engineered Fill	125	0	35
Subgrade	120	0	32	0	32	Emcon 1997 values. No laboratory test data available. No reported difference between peak and post-peak strength.	Subgrade	120	0	32
CANYONS A AND D *Base Liner*										
2 ft Thick Admixture Layer	120			0	18	Emcon 1997 Stability Analysis Table 1 reports data for Canyons A and D. Emcon notes value is assumed based on direct shear test data for admixture/textured HDPE; test data not available and peak vs. post-peak conditions not known.	Canyons A and D Base Liner	120	0	18
CANYONS A AND D *Side Slope Liner*										
Side Slope Liner Strength Used in Previous Analysis (Smooth HDPE on Subgrade)	N/A			0	22	Emcon 1997 Stability Analysis Table 1 indicates value is for smooth HDPE on subgrade. The Emcon table references an earlier (1994) report that is not currently available. Test data not found; It is not know if results represent peak or post-peak conditions.	Canyons A and D Side Slope Liner	NA	0	17
Smooth HDPE/Granular LCS	N/A	0	21	0	17	Subgrade and LCS layer assumed to be granular based on information in site geologic reports and JTD (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL 1 *Base Liner*										
2 ft Thick Admixture Layer	120			0	18	Emcon 1997 Stability Analysis Table 1 reports data for Canyons A and D. Emcon notes value is assumed based on direct shear test data for admixture/textured HDPE; test data not available and It is not know if results represent peak or post-peak conditions.	Canyon C Cell I Base Liner	NA	0	17
Admixture/Textured HDPE Liner Strength Used in Previous Analysis	N/A			0	18	Emcon 1997 Stability Analysis Table 1. Test data not found It is not know if results represent peak or post-peak conditions.				
Smooth HDPE/Granular LCS	N/A	0	21	0	17	Subgrade and LCS layer assumed to be granular based on information in site geologic reports and JTD (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL I *Side Slope Liner*										
Side Slope Liner Strength Used in Previous Analysis	N/A			0	22	Emcon 1997 Stability Analysis Table 1 indicates value is for smooth HDPE on subgrade. The Emcon table references an earlier (1994) report that is not currently available. Test data not found It is not know if results represent peak or post-peak conditions.	Canyon C Cell I Side Slope Liner	NA	0	17
Subgrade/Smooth HDPE/Operations Soil	N/A	0	21	0	17	Subgrade and LCS layer assumed to be granular based on information in site geologic reports and JTD (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION							CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT		UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
CANYON C - CELL II (PHASE 1) *Base Liner*										
Value used in Previous Analysis	N/A	Shear-Normal Function (2 point - Bilinear)				Emcon 1997 Stability Analysis Table 1. The Emcon table references an earlier (1996) report that is not available. Test data not found It is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 1 Base Liner	NA	0	10
Textured HDPE/GCL (Claymax)	N/A	0	13	0	10	McCartney et al. (2001), Figure 5.16.				
Textured HDPE/Granular LCS	N/A	0	21	0	17	Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL II (PHASE 1) *Side Slope Liner*										
Previous Analysis	N/A			0	22	Emcon 1997 Stability Analysis Table 1 (May be Unconservative). Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 1 Side Slope Liner	NA	0	10
Internal Unreinforced GCL Strength (Clayma	120	100	5.7	73	5.3	Zornberg et al. (2005), Table 3.				
Textured HDPE/GCL (Claymax)	N/A	0	13	0	10	McCartney et al. (2001), Figure 5.16.				
Smooth HDPE/Granular Operations Soil	N/A	0	21	0	17	Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL II (PHASE 2A AND 2B) *Base Liner*										
Previous Analysis	N/A	Shear-Normal Function (3 point - Trilinear)				Emcon 1997 Stability Analysis Table 1, Figure 4. Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 2A and 2B Base Liner	NA	0	12.7
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.				
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
Textured HDPE/Granular LCS	N/A	0	34	0	31	LCS assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.				
CANYON C - CELL II (PHASE 2A AND 2B) *Lower 2/3 Side Slope Liner*										
Previous Analysis	N/A	Shear-Normal Function (3 point - Trilinear)				Emcon 1997 Stability Analysis Table 1. Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 2A and 2B Side Slope Liner (Lower 2/3)	NA	0	12.7
Internal GCL (Needle-Punched)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.				
GCL/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
Smooth HDPE/LCS or Operations Soil	N/A	0	21	0	17	LCS and operations layer assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL 11 (PHASE 2A AND 2B) *Upper 1/3 Side Slope Liner*										
Previous Analysis	N/A			0	8	Emcon 1997 Stability Analysis Table 1. Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 2A and 2B Side Slope Liner (Upper 1/3)	NA	0	9
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.				
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
Smooth HDPE/Non-Woven Geotextile	N/A	0	11	0	9	Interface strength based on Koerner & Narejo (2005) Figures 1e and 1f.				
Non-Woven Geotextile/Operations Soil		0	33	0	33	Interface strength based on Koerner & Narejo (2005) Figures 8a and 8b.				

Table 2
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FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
MODULES 1, 2A, 2B, 3 AND 4 *Base Liner*										
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.	Modules 1, 2A, 2B, 3, and 4 Base Liner	NA	100	14
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
	N/A	420	21	820	10	Interface Direct Shear Test Results (Project Testing)				
	N/A	510	20	560	14	Interface Direct Shear Test Results (Project Testing)				
	N/A	610	22	335	16	Interface Direct Shear Test Results (Project Testing)				
	N/A	475	23	230	17	Interface Direct Shear Test Results (Project Testing)				
	N/A	720	23	435	17	Golder 1999 - Basis of Design Report, Excavation Cell #1 and 2A				
	N/A	1120	19	710	3	Golder 1999 - Basis of Design Report, Excavation Cell #1 and 2A				
Textured HDPE/Geocomposite	N/A	0	26	0	15	Koerner & Narejo (2005) Figures 2i and 2j. Assmumes textured HDPE against NW-NP geotextile on a geocomposite.				
	N/A	235	25	100	14	Interface Direct Shear Test Results (Project Testing)				
Geocomposite/Operations Layer Soil	N/A	104	30	0	21	Koerner & Narejo(2005) Figures 9a and 9B. Assumed cohesive soil and non-woven geotextile on geocomposite.				
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) figures 2a and 2b.				
EXPANSION AREA MODULES 1, 2A, 2B, 3 AND 4 *Side Slope Liner*										
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.	Modules 1, 2A, 2B, 3, and 4 Base Liner	NA	100	14
Textured HDPE/Geocomposite	N/A	0	26	0	15	Koerner & Narejo (2005) Figures 2i and 2j. Assmumes textured HDPE against NW-NP geotextile on a geocomposite.				
	N/A	235	25	100	14	Interface Direct Shear Test Results (Project Testing)				
Geocomposite/Operations Layer Soil	N/A	104	30	0	21	Koerner & Narejo(2005) Figures 9a and 9B. Assumed cohesive soil and non-woven geotextile on geocomposite.				
MODULE 5 *Base Liner*										
2-A Textured HDPE/Compacted Clay	126	0	34.3	0	25.1	Interface Direct Shear Test Results (Project Testing)	Module 5 Base and Side Slope Liner	NA	100	12.5
2-B Textured HDPE/Compacted Clay	126	0	35.1	0	24.5	Interface Direct Shear Test Results (Project Testing)				
1-A Textured HDPE/Compacted Clay	126	0	34.6	0	23.7	Interface Direct Shear Test Results (Project Testing)				
1-B Textured HDPE/Compacted Clay	126	0	35	0	23.6	Interface Direct Shear Test Results (Project Testing)				
1-A NW Geotextile/Textured HDPE	NA	15	37.9	105	12.5	Interface Direct Shear Test Results (Project Testing)				
1-B NW Geotextile/Textured HDPE	NA	179	27.1	326	11.1	Interface Direct Shear Test Results (Project Testing)				
Cells 6 through 13 *Side Slope Liner*										
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.	Cells 6-13 Side Slope Liner	NA	0	16[a]
Textured HDPE/NW Geotextile	N/A	0	25	0	17	Koerner & Narejo (2005) Figures 2e and 2f.				
NW/Geotextile/Granular Soil	N/A	0	33	0	33	Koerner & Narejo(2005) Figures 8a and 8b.				

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
Cells 6 through 13 *Base Liner*										
Compacted Clay Liner/Textured HDPE	N/A	0	18	0	16	Koerner & Narejo (2005) Figures 2c and 2d. Assumes CCL compacted wet of optimum	Cells 6-13 Base Liner	NA	0	16
Textured HDPE/NW Geotextile	N/A	0	25	0	17	Koerner & Narejo (2005) Figures 2e and 2f.				
NW/Geotextile/Granular Soil	N/A	0	33	0	33	Koerner & Narejo(2005) Figures 8a and 8b.				

[a]Use 16° (conservative) to simplify model.

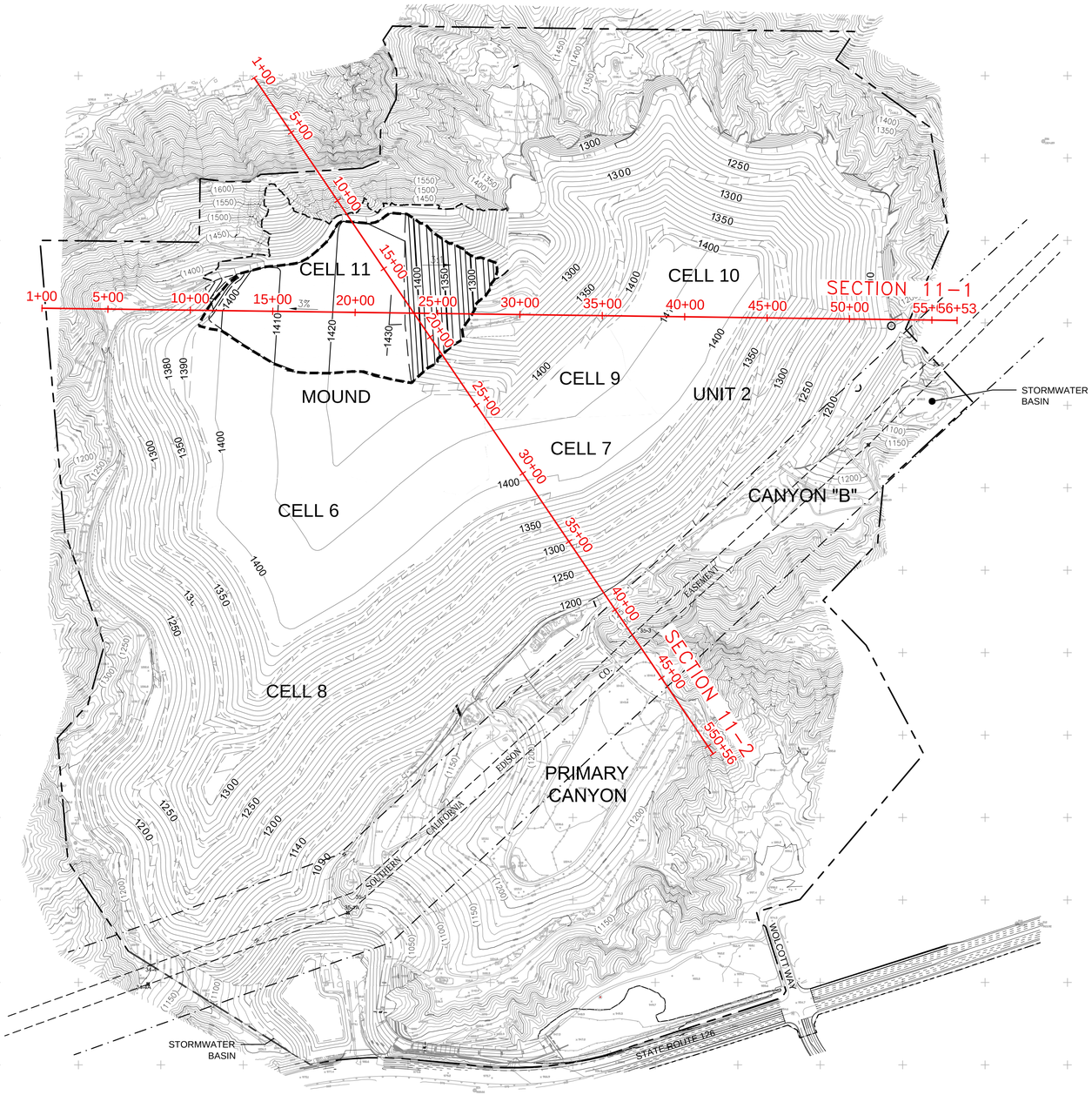
Table 3
SECTIONS 11-13 COMPARATIVE STABILITY ANALYSIS RESULTS
Chiquita Canyon Landfill
Los Angeles County, California

SECTION	CONDITION	STATIC SAFETY FACTOR
11-1	Section Minimum	2.1
	Forced Cell 11 Sliding	3.3
11-2	Section Minimum	2.4
	Forced Cell 11 Sliding	4.5
12-1	Section Minimum	2.6
	Forced Cell 12 Sliding	3.0
12-2	Section Minimum	2.6
	Forced Cell 12 Sliding	2.9
13-1	Section Minimum	2.5
	Forced Cell 13 Sliding	3.0
13-2	Section Minimum	2.9
	Forced Cell 13 Sliding	4.9

NOTES:

1. See Table 1 for material properties assumed for analysis.
2. See Attachment 1 for fill plans, cross sections, and liner configurations underlying each section.
3. See Attachment 2 for static analysis results.
4. "Section Minimum" analyses incorporated search routines that incorporated the entire section.
5. "Forced Cell Sliding" analyses only allowed failure surfaces that passed through the analyzed section refuse fill.

Attachment 1
CELLS 11 – 13 FILL PLANS AND CROSS SECTIONS



LEGEND

- PROPERTY BOUNDARY
- LOR LOR ..... LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL

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DRAWN BY: J AMAYA
CHECKED BY: R JOHNSON
APPROVED BY: R JOHNSON

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CASTAIC ,CA 91384

CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS
CELL 11 FILL PLAN

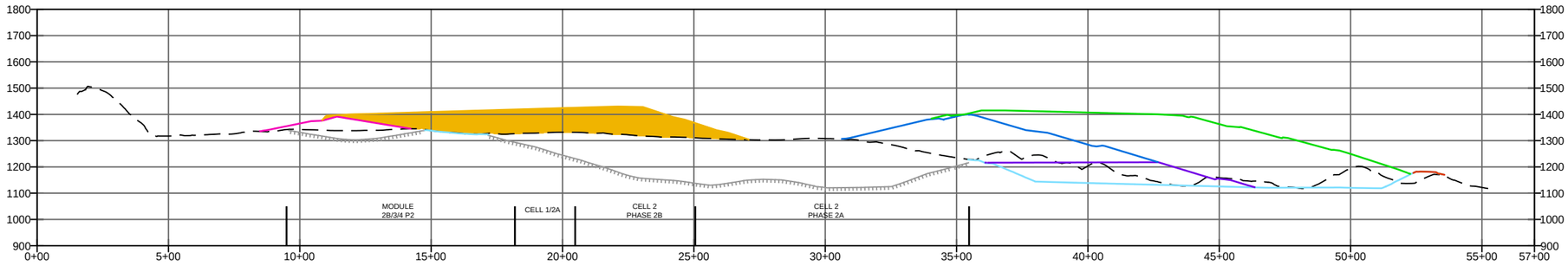
FIGURE NO. 4.6

PROJECT NO. SO17.1235

P:\SITES\CHIQUITA CYN. LF\FILL SEQUENCE PLANS - 2019\DWG SETS\STABILITY BUTTRESS SET\FIGURE 4.6 - CELL 11 FILL PLAN.DWG February 27, 2020 - 5:19 PM BY: CLA-USER

P:\SITES\CHIQUITA CYN LF\FILL SEQUENCE PLANS - 2019\DWG SETS\STABILITY BUTTRESS SET\FIGURE 4.6 - CELL 11 FILL PLAN-XSCT.DWG April 28, 2020 - 10:07 AM BY: JORGE AMAYA

SECTION 11-1



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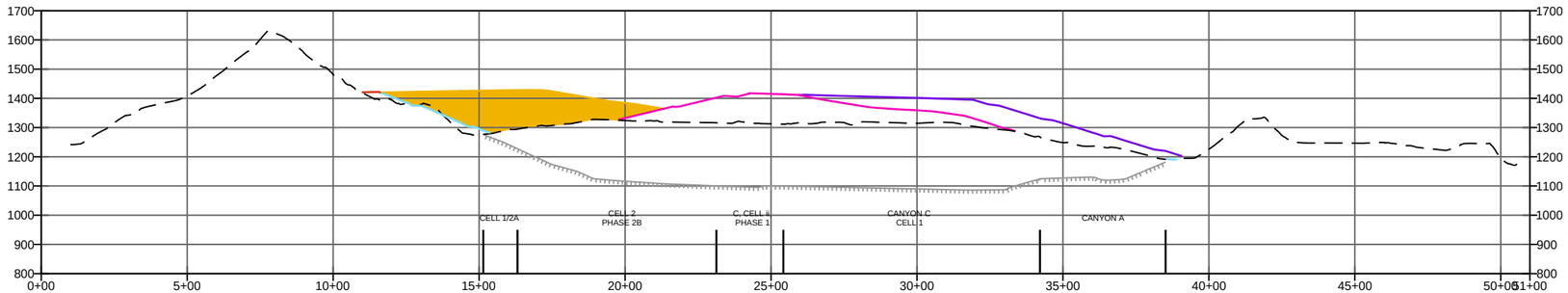


LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500' 0' 250' 500'

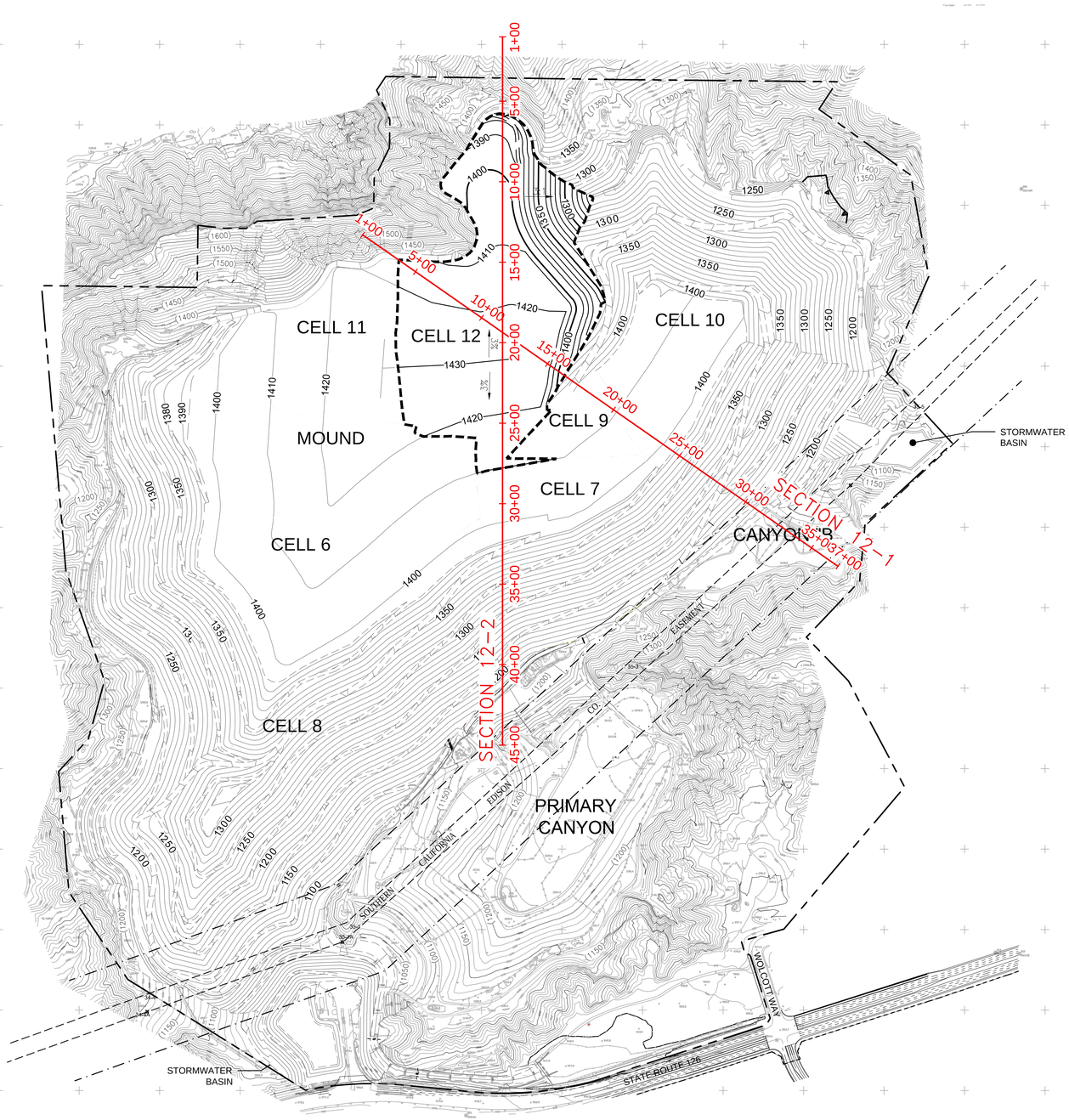
SCALE: 1" = 500'

FILL CELL 11 X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: FEBRUARY 2020	JOB NO. 2013.0094



LEGEND

- PROPERTY BOUNDARY
- LOR LOR LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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CASTAIC ,CA 91384

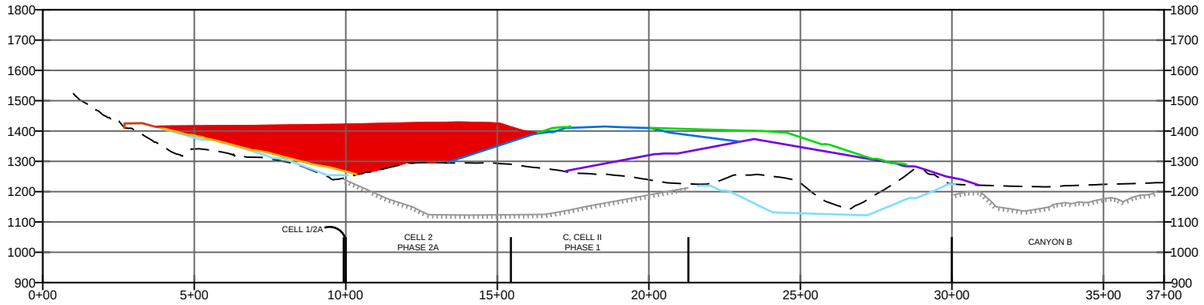
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS
CELL 12 FILL PLAN

FIGURE NO. 4.7

PROJECT NO. SO17.1235

P:\SITES\CHIQUITA CYN. LF\FILL SEQUENCE PLANS - 2019\DWG SETS\STABILITY BUTTRESS SET\FIGURE 4.7 - CELL 12 FILL PLAN.DWG February 27, 2020 - 5:07 PM BY: GLA-USER

SECTION 12-1



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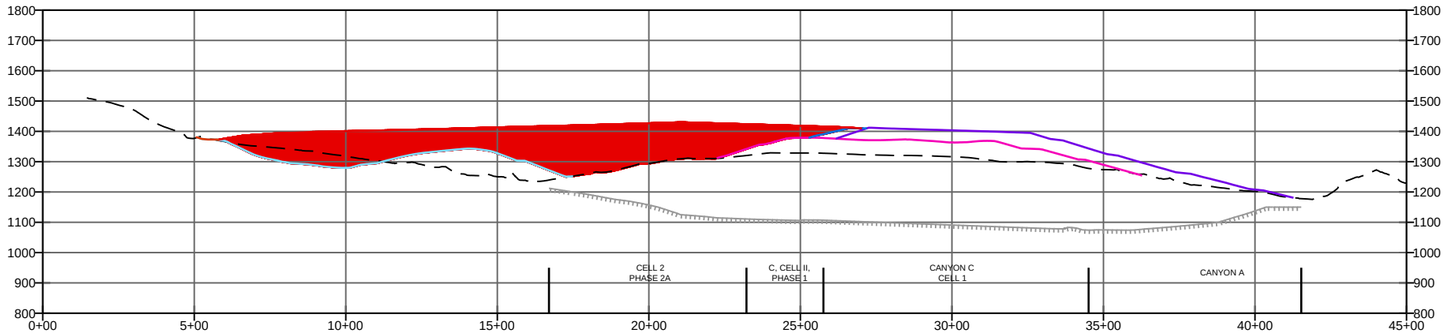


LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500' 0' 250' 500'

SCALE: 1" = 500'

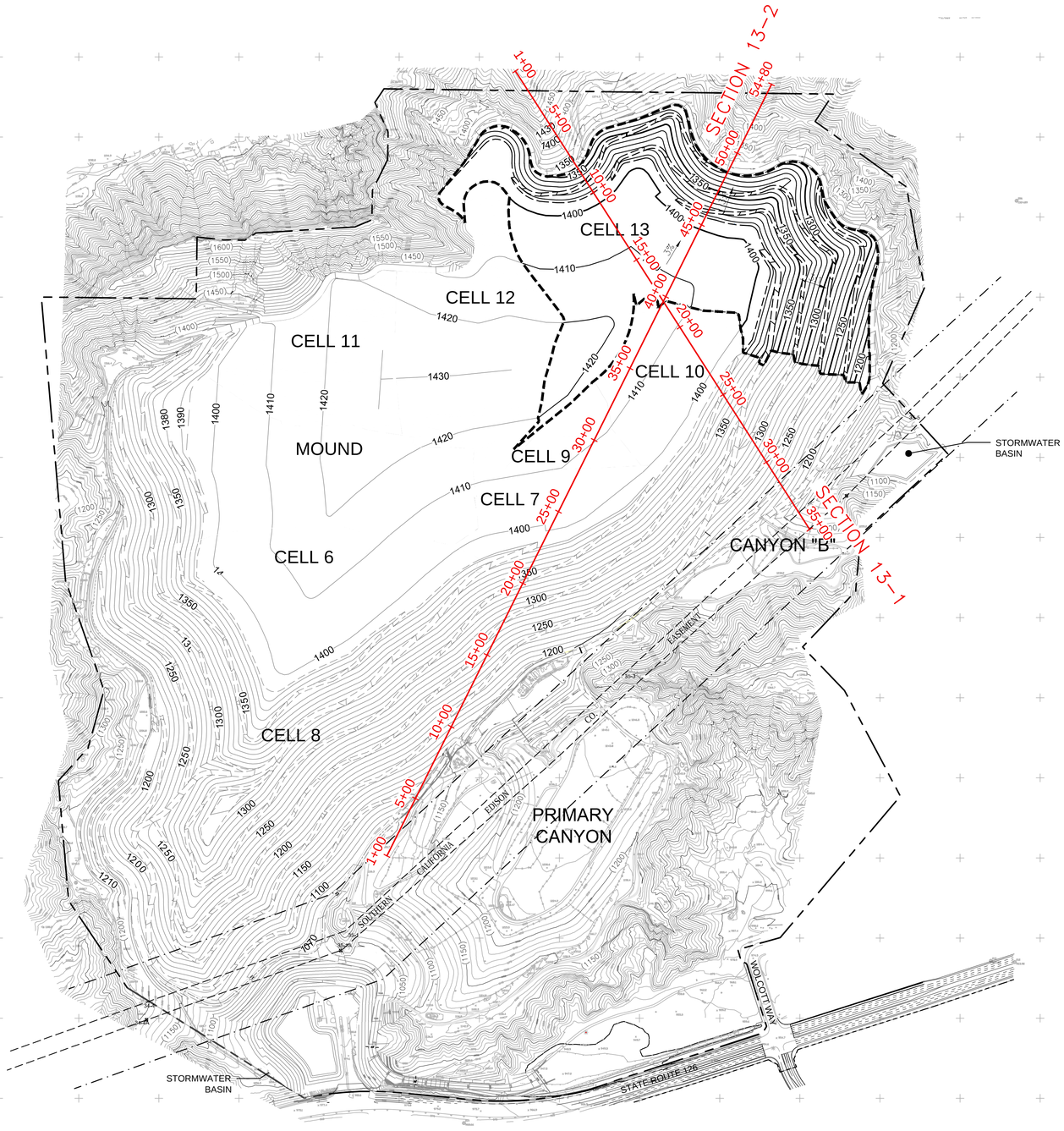
FILL CELL 12 X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: FEBRUARY 2020	JOB NO. 2013.0094

P:\SITES\CHIQUITA CYN LF\FILL SEQUENCE PLANS - 2019\DWG SETS\STABILITY BUITRESS SET\FIGURE 4.7 - CELL 12 FILL PLAN-XSCT.DWG April 28, 2020 - 10:42 AM BY: JORGE AMAYA



LEGEND

- PROPERTY BOUNDARY
- LOR — LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL — LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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STABILITY BUTTRESS ANALYSIS

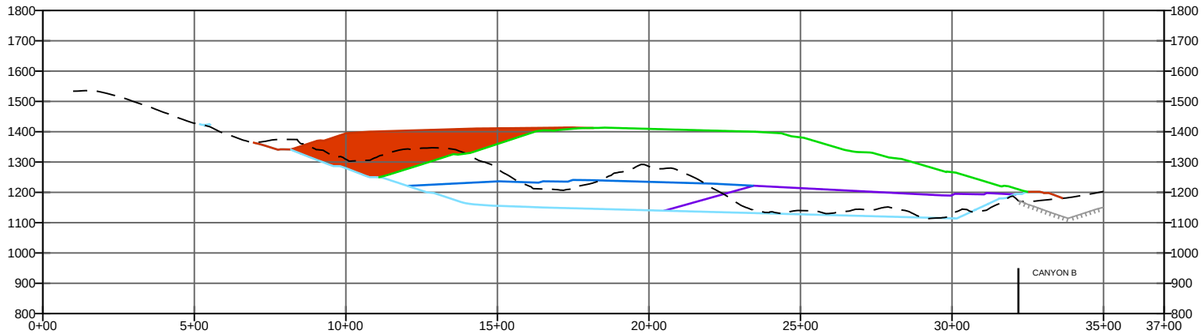
CELL 13 FILL PLAN

FIGURE NO. 4.8

PROJECT NO. SO17.1235

P:\SITES\CHIQUITA CYN LF\FILL SEQUENCE PLANS – 2019\DWG SETS\STABILITY BUTTRESS SET\FIGURE 4.8 – CELL 13 FILL PLAN.DWG February 27, 2020 – 4:54 PM BY: GLA-USER

SECTION 13-1



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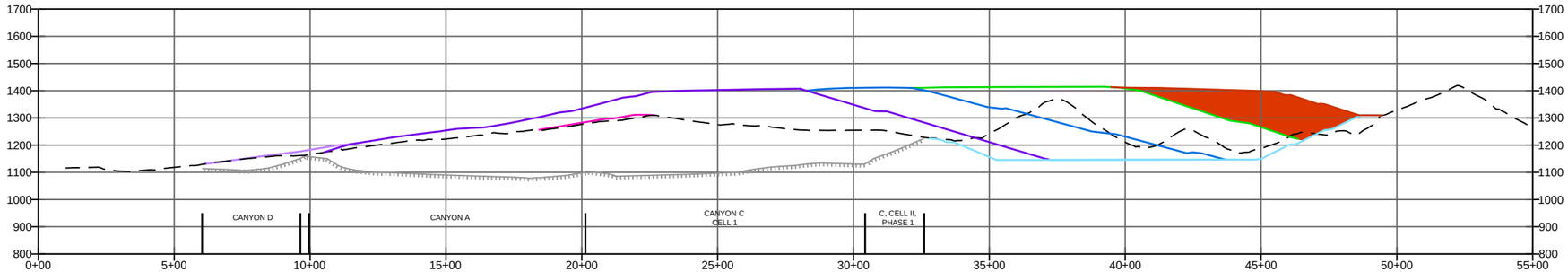

LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- CELL 13 FILL
- EXISTING GROUND

500' 0' 250' 500'

SCALE: 1" = 500'

FILL CELL 13 X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

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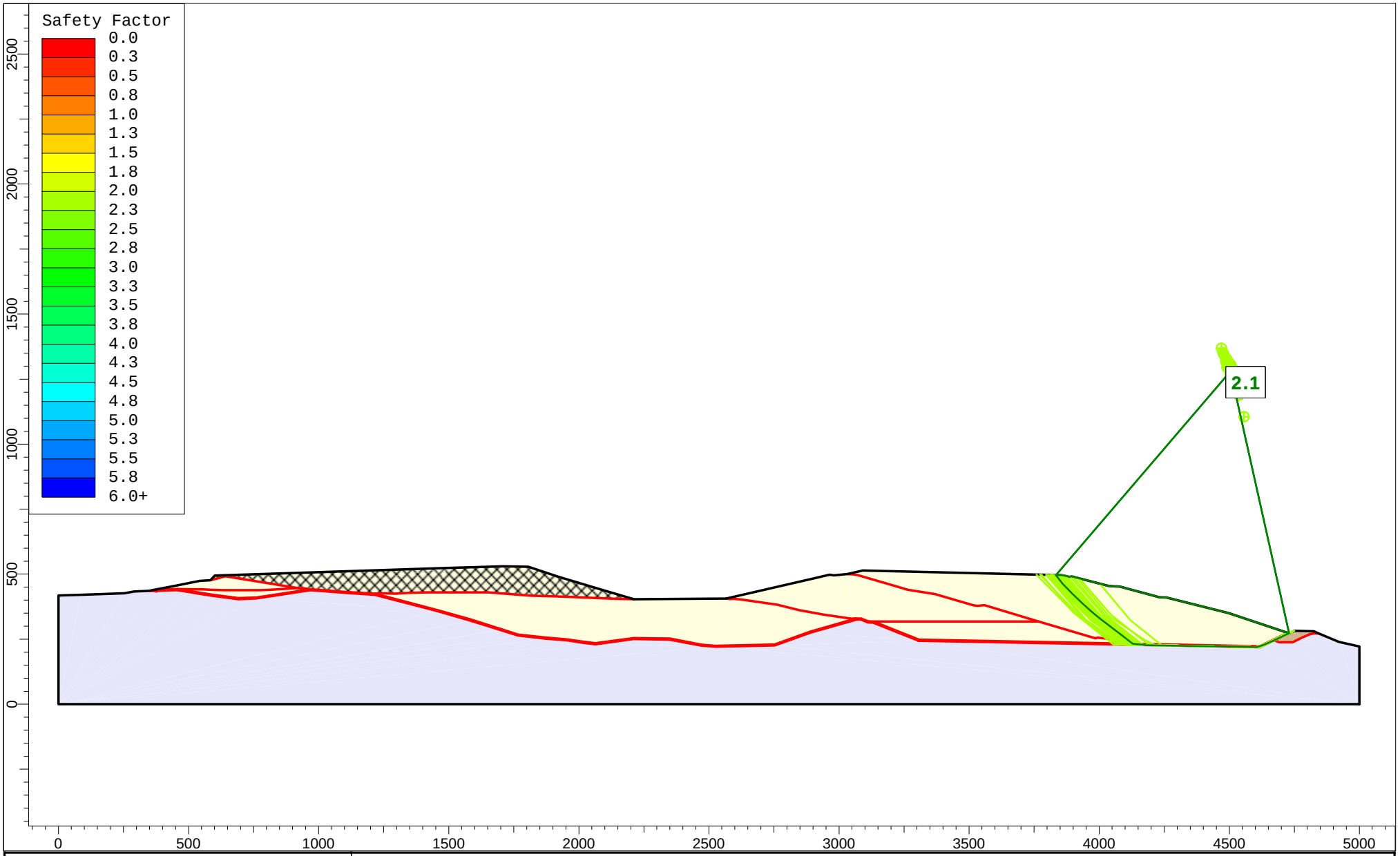
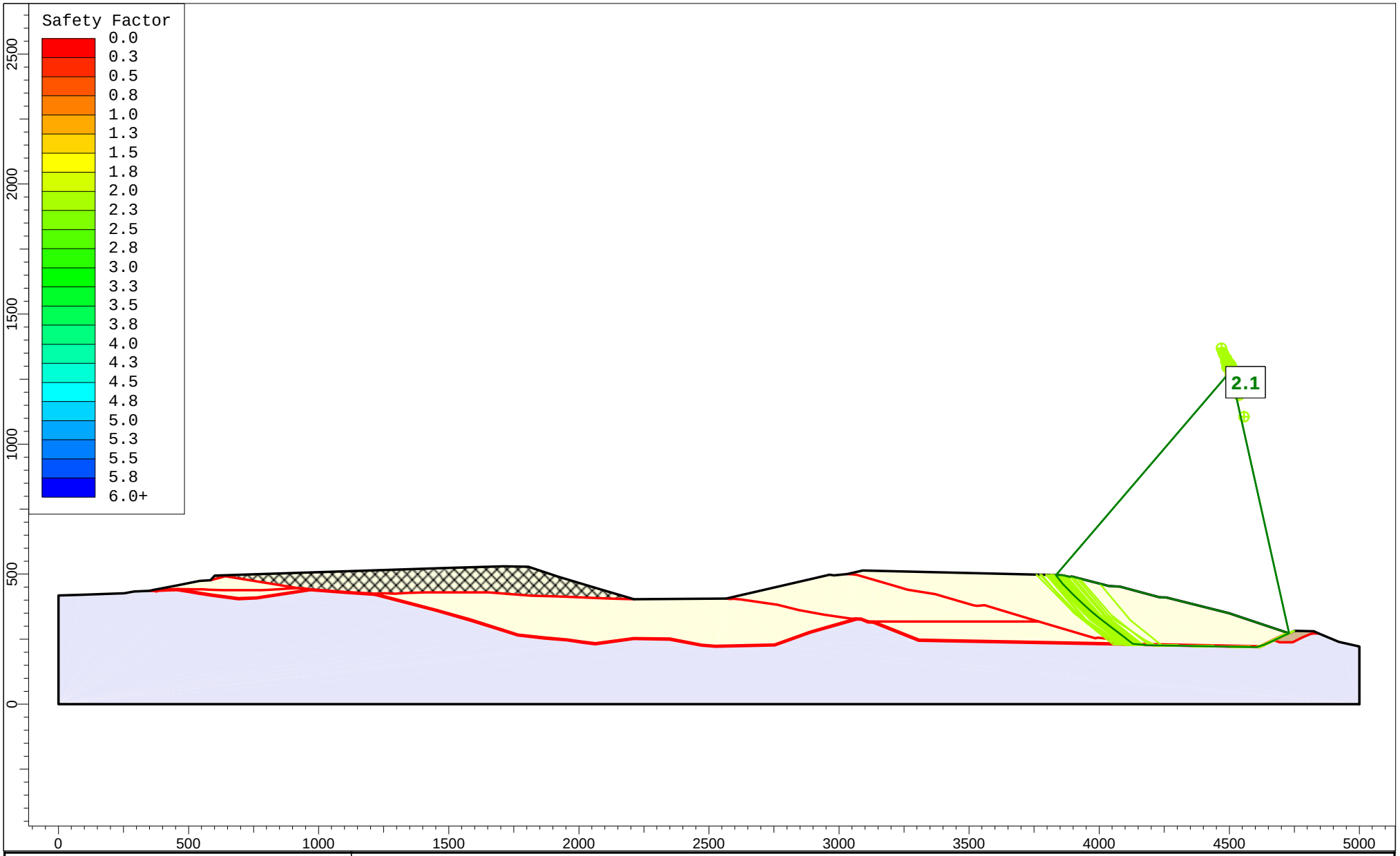
P:\SITES\CHIQUITA CYN LF\FILL SEQUENCE PLANS - 2019\DWG SETS\STABILITY BUITRESS SET\FIGURE 4.8 - CELL 13 FILL PLAN-XSCT.DWG April 28, 2020 - 11:04 AM BY: JORGE AMAYA

Attachment 2
COMPARATIVE STABILITY ANALYSIS OUTPUT



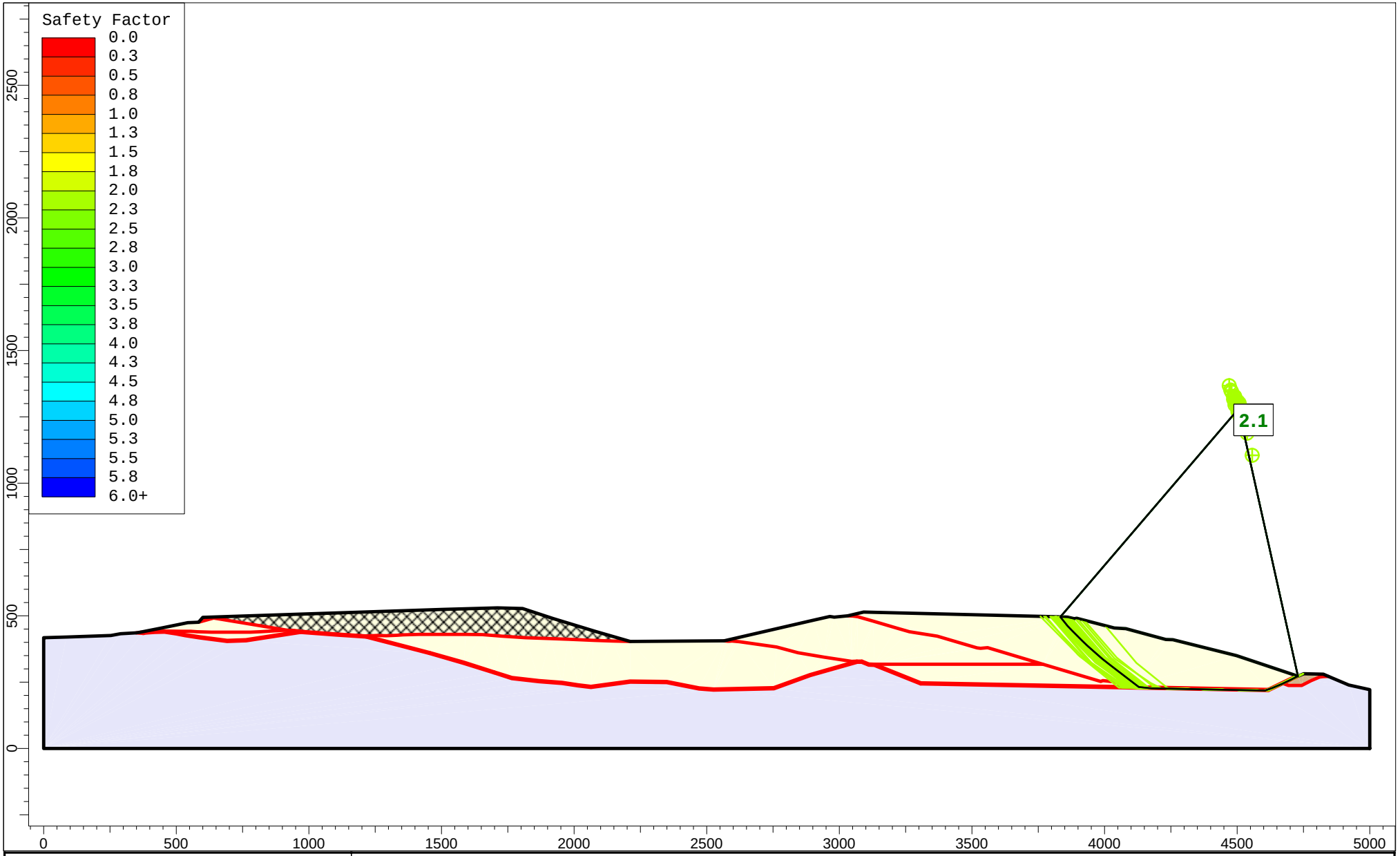
rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Cell 11-1 Unconstrained Sliding
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	4/15/2020	File Name: Section 11-1.slmd

SLIDEINTERPRET 9.005



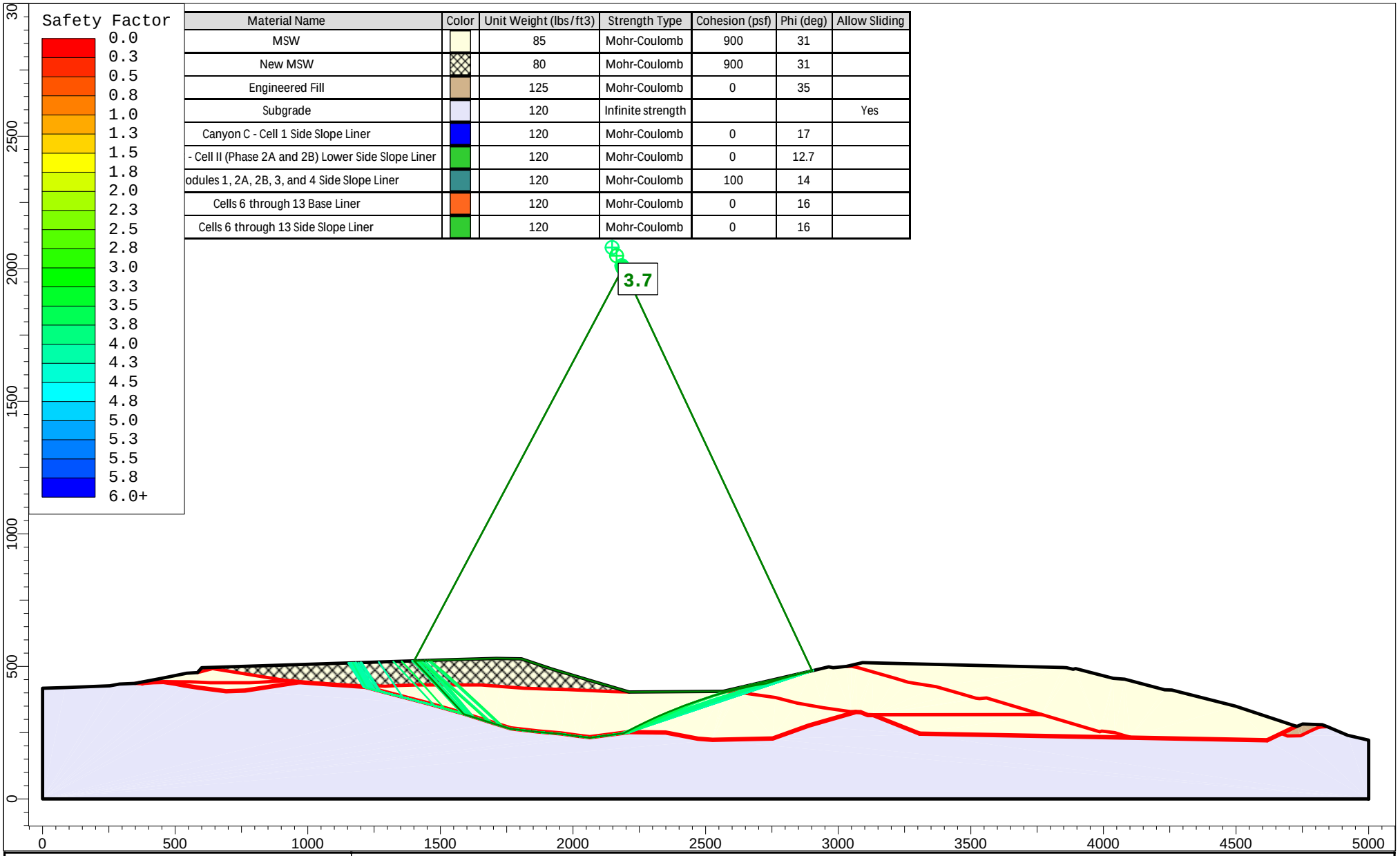
rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Cell 11-1 Unconstrained Sliding
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	4/15/2020	File Name: Section 11-1.slmd

SLIDEINTERPRET 9.005



rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: All Surfaces
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	4/15/2020	File Name: Cell 11-1.slmd

SLIDEINTERPRET 9.005



Material Name	Color	Unit Weight (lbs/ft3)	Strength Type	Cohesion (psf)	Phi (deg)	Allow Sliding
MSW		85	Mohr-Coulomb	900	31	
New MSW		80	Mohr-Coulomb	900	31	
Engineered Fill		125	Mohr-Coulomb	0	35	
Subgrade		120	Infinite strength			Yes
Canyon C - Cell 1 Side Slope Liner		120	Mohr-Coulomb	0	17	
- Cell II (Phase 2A and 2B) Lower Side Slope Liner		120	Mohr-Coulomb	0	12.7	
odules 1, 2A, 2B, 3, and 4 Side Slope Liner		120	Mohr-Coulomb	100	14	
Cells 6 through 13 Base Liner		120	Mohr-Coulomb	0	16	
Cells 6 through 13 Side Slope Liner		120	Mohr-Coulomb	0	16	

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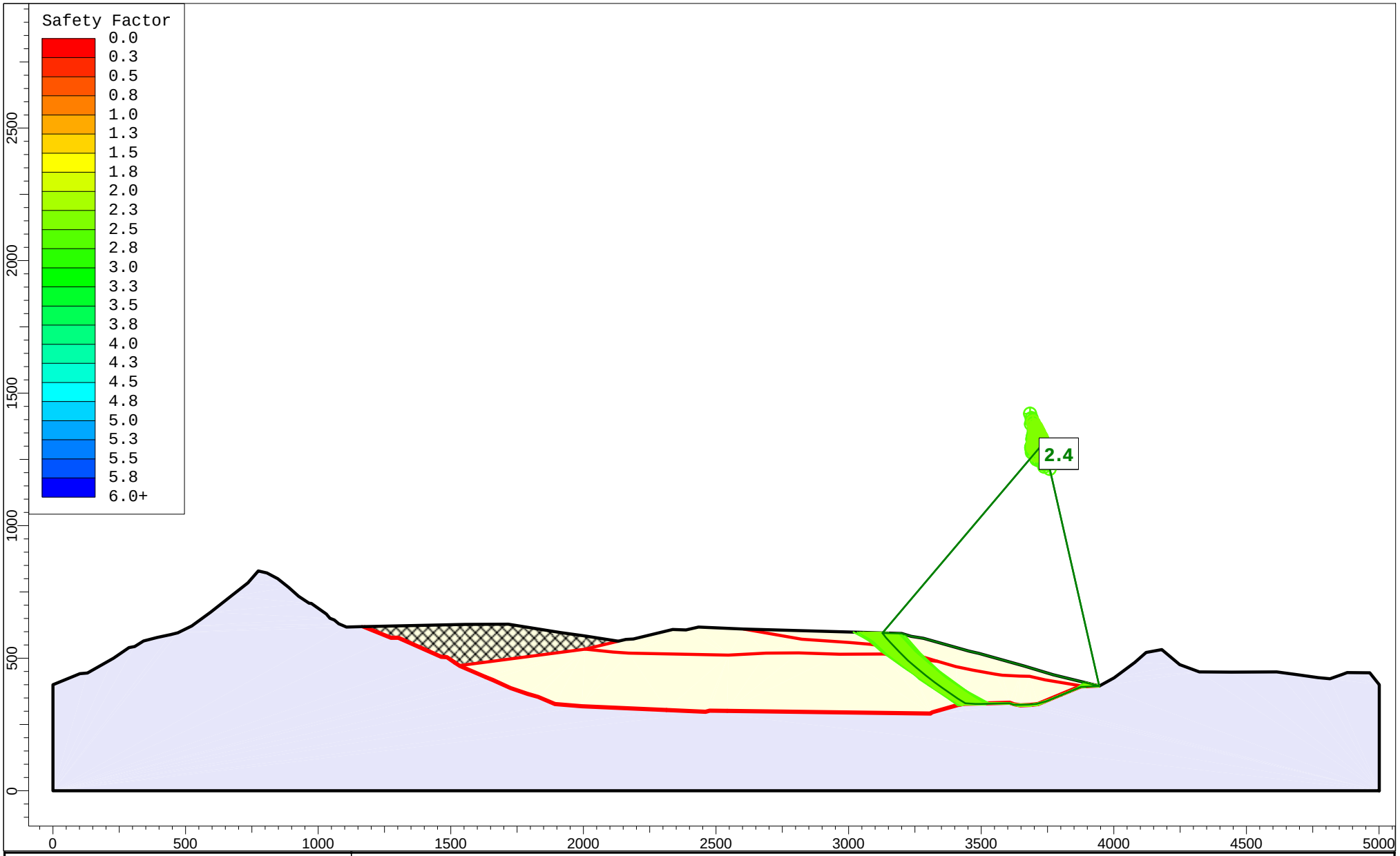
SLIDEINTERPRET 9.005

Project	CHIQUITA CANYON LANDFILL		
Group	Group 1	*Scenario*	Cell 11-1 Constrained Surfaces
Drawn By	R. Mitchell	*Company*	Geo-Logic Associates
Date	4/15/2020	*File Name*	Cell 11-1.slmd



rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Unconstrained Sliding
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	Date	4/15/2020	File Name: Section 11-2.slmd

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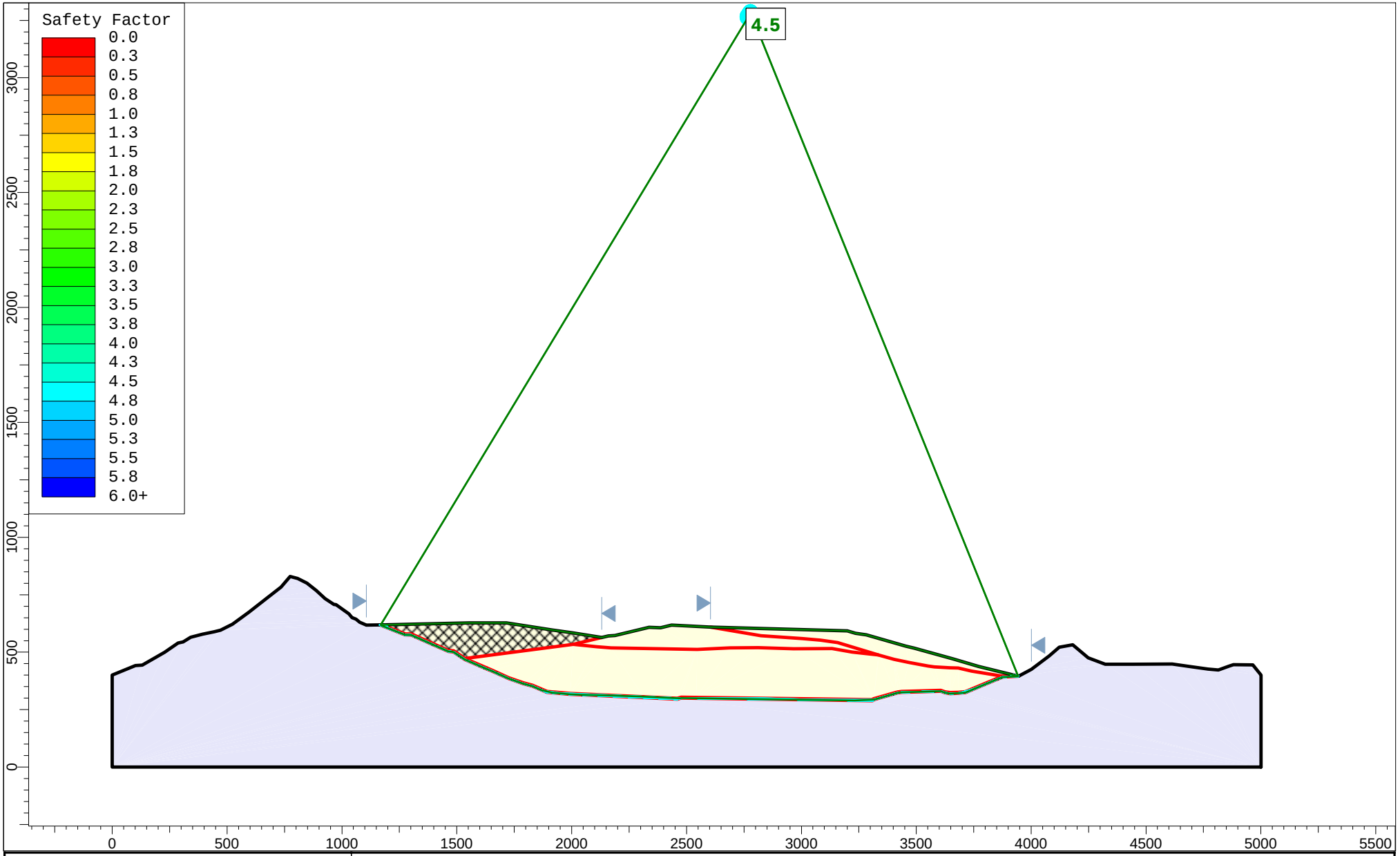

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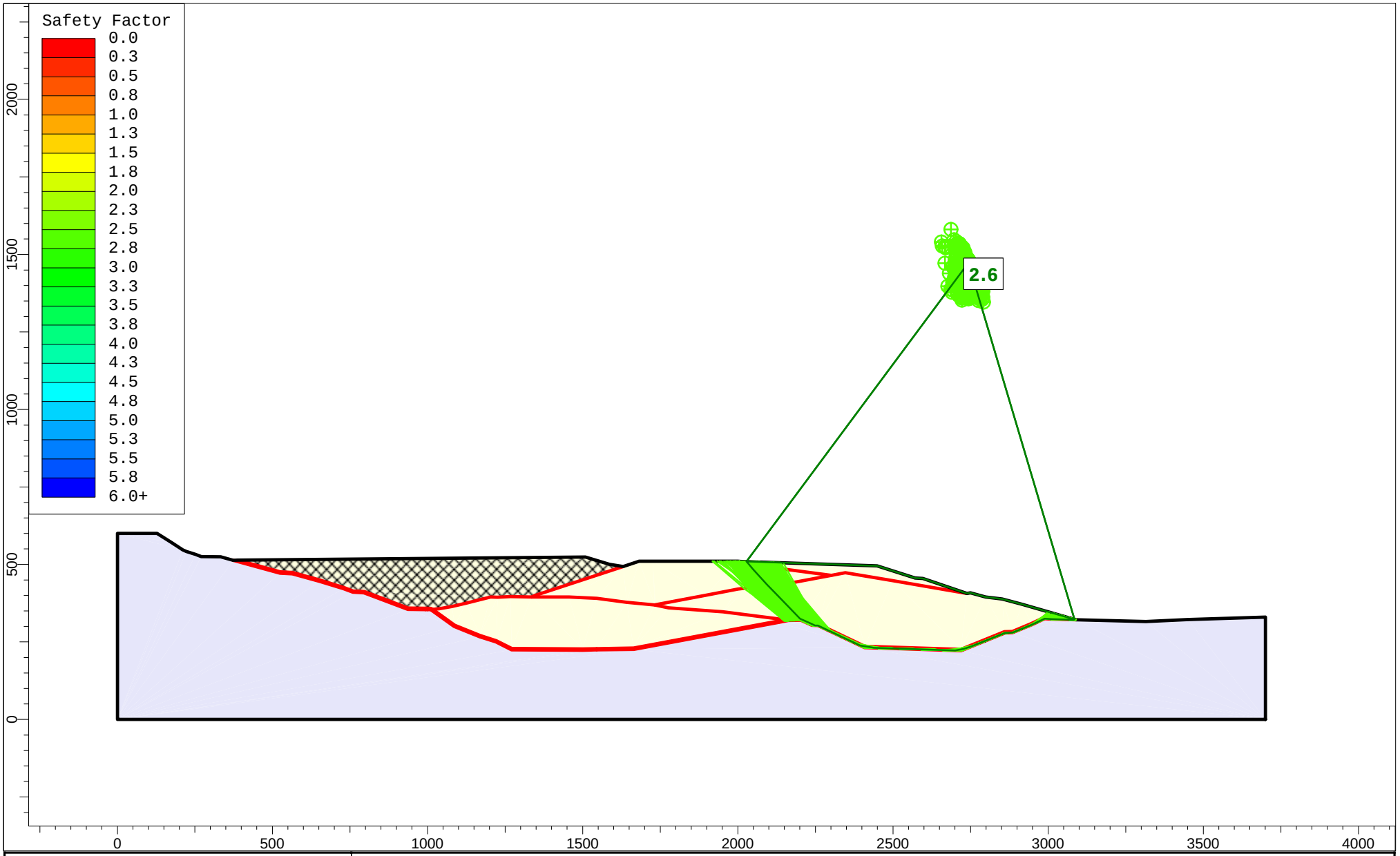
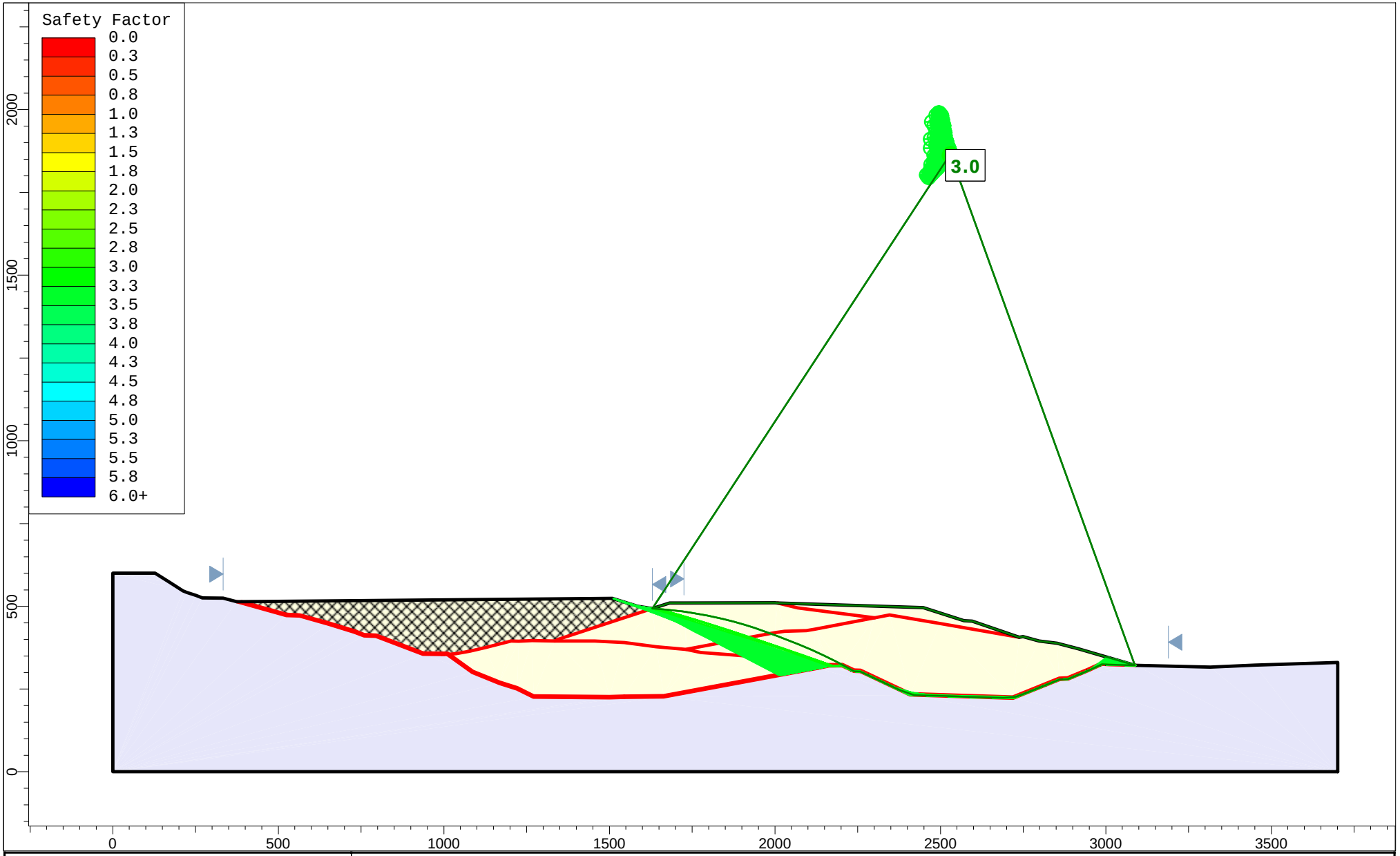
SLIDEINTERPRET 9.005

Project	CHIQUITA CANYON LANDFILL		
Group	Group 1	*Scenario*	Cell 11 Constrained Sliding
Drawn By	R. Mitchell	*Company*	Geo-Logic Associates
Date	4/15/2020	*File Name*	Section 11-2.slmd



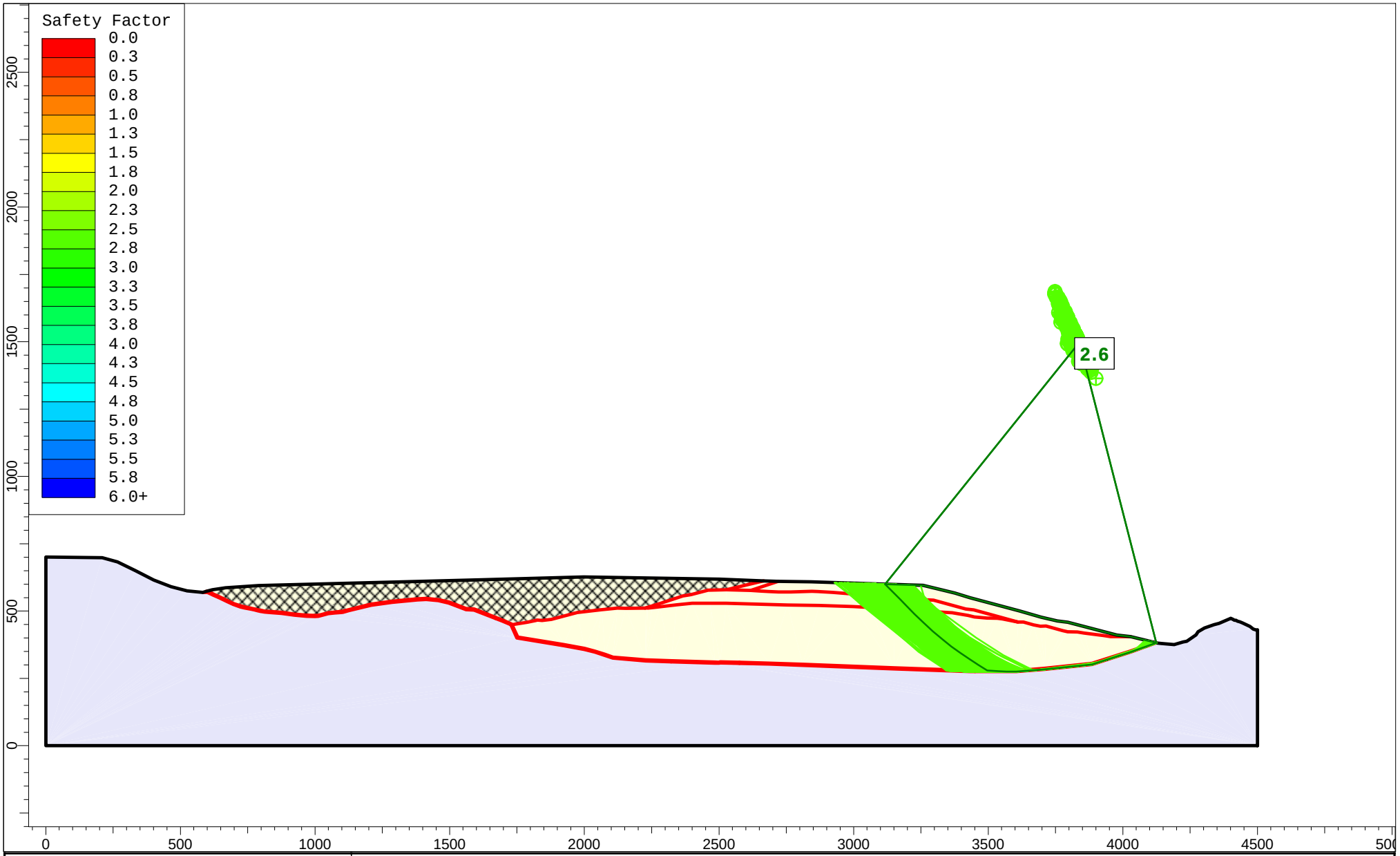
rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Uncontrained Sliding
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	5/12/2020, 11:20:39 AM	File Name: Section 12-1.slmd

SLIDEINTERPRET 9.005



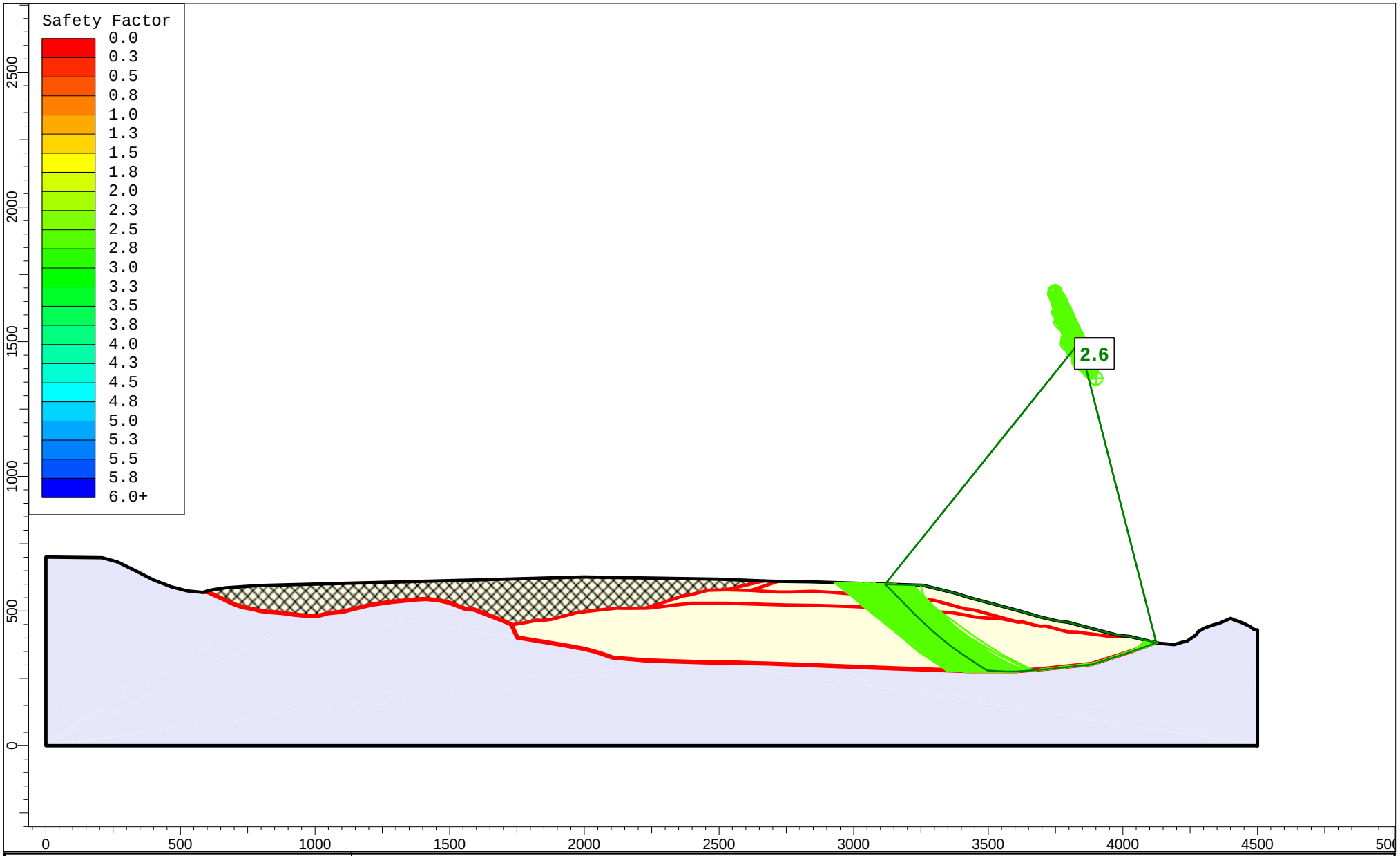
rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Cell 12 Constrained Sliding
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	5/12/2020	File Name: Section 12-1.slmd

SLIDEINTERPRET 9.005



rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Unconstrained Sliding
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	5/12/2020	File Name: Section 12-2.slmd

SLIDEINTERPRET 9.005



rocscience	Project	CHIQUITA CANYON LANDFILL	
	Group	Group 1	Scenario: Unconstrained Sliding
	Drawn By	R. Mitchell	Company: Geo-Logic Associates
	Date	5/12/2020	File Name: Section 12-2.slmd

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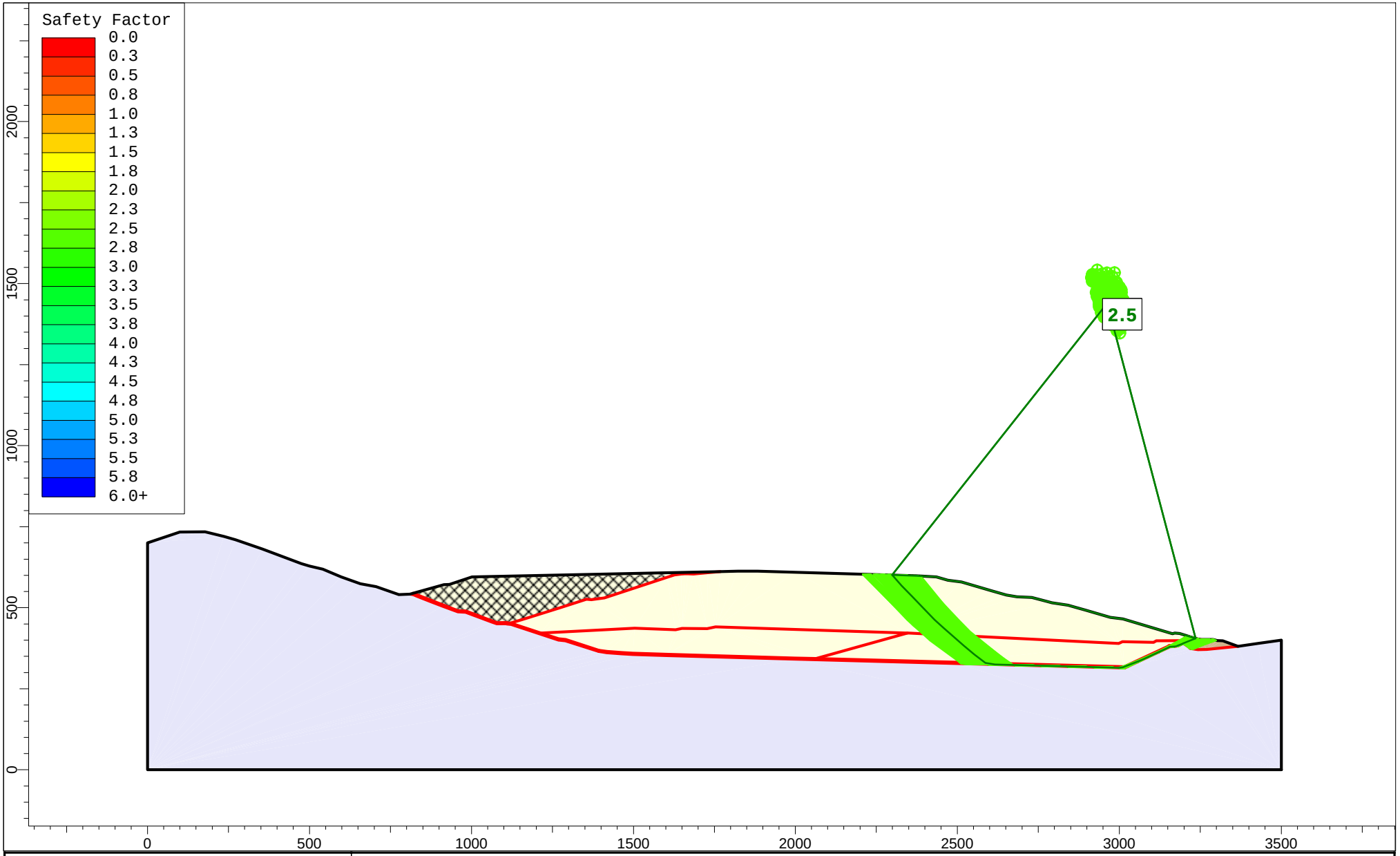

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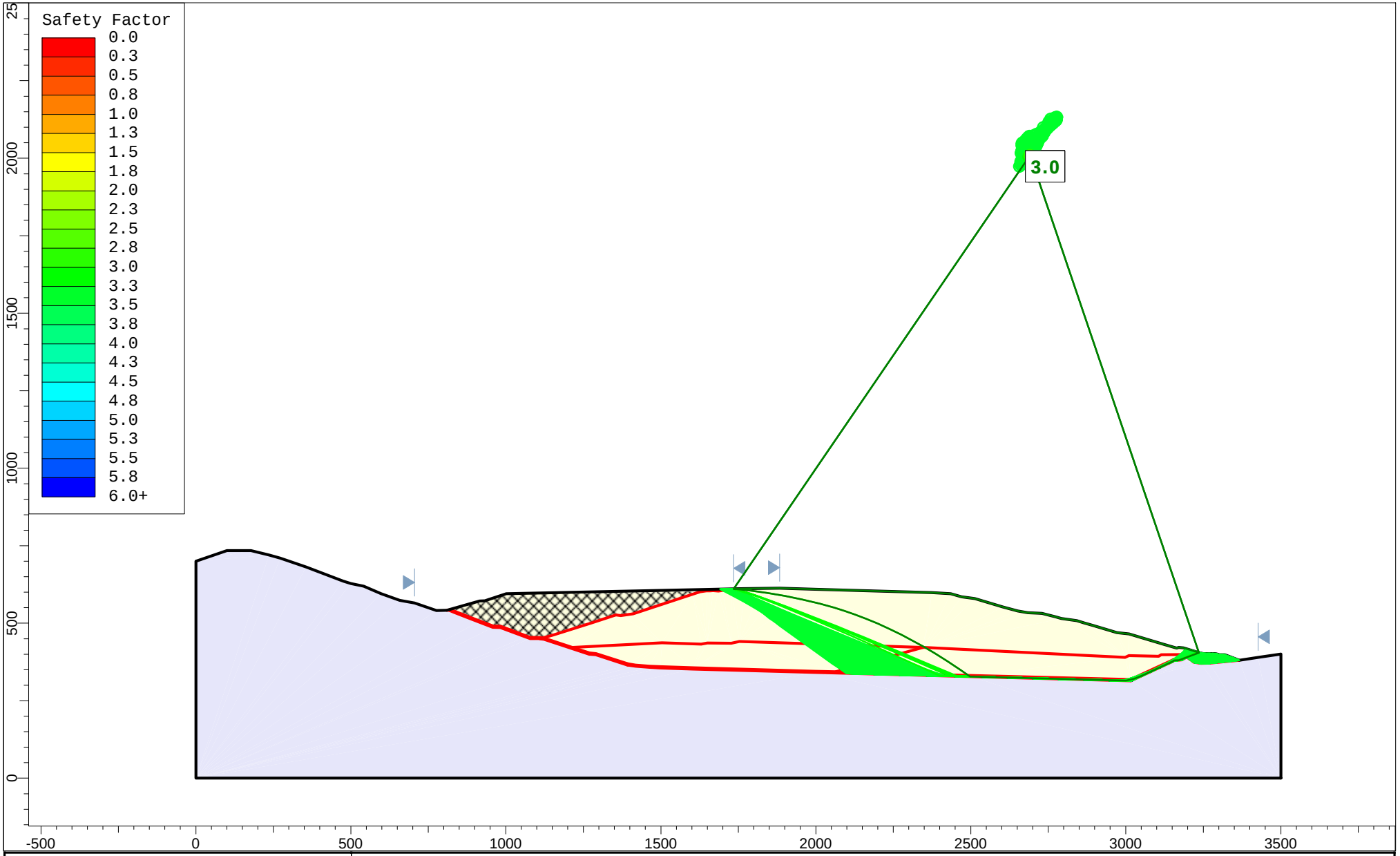

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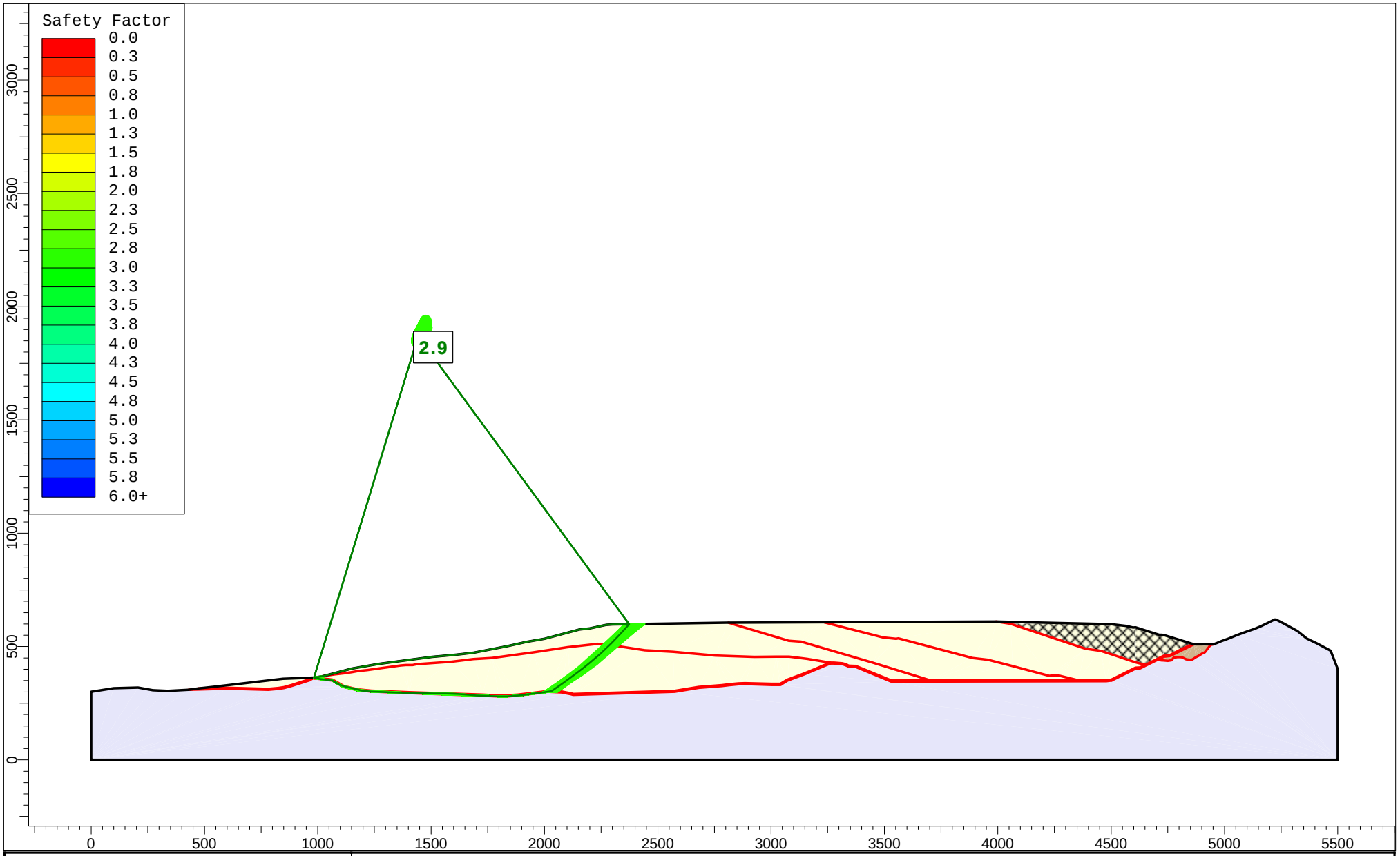

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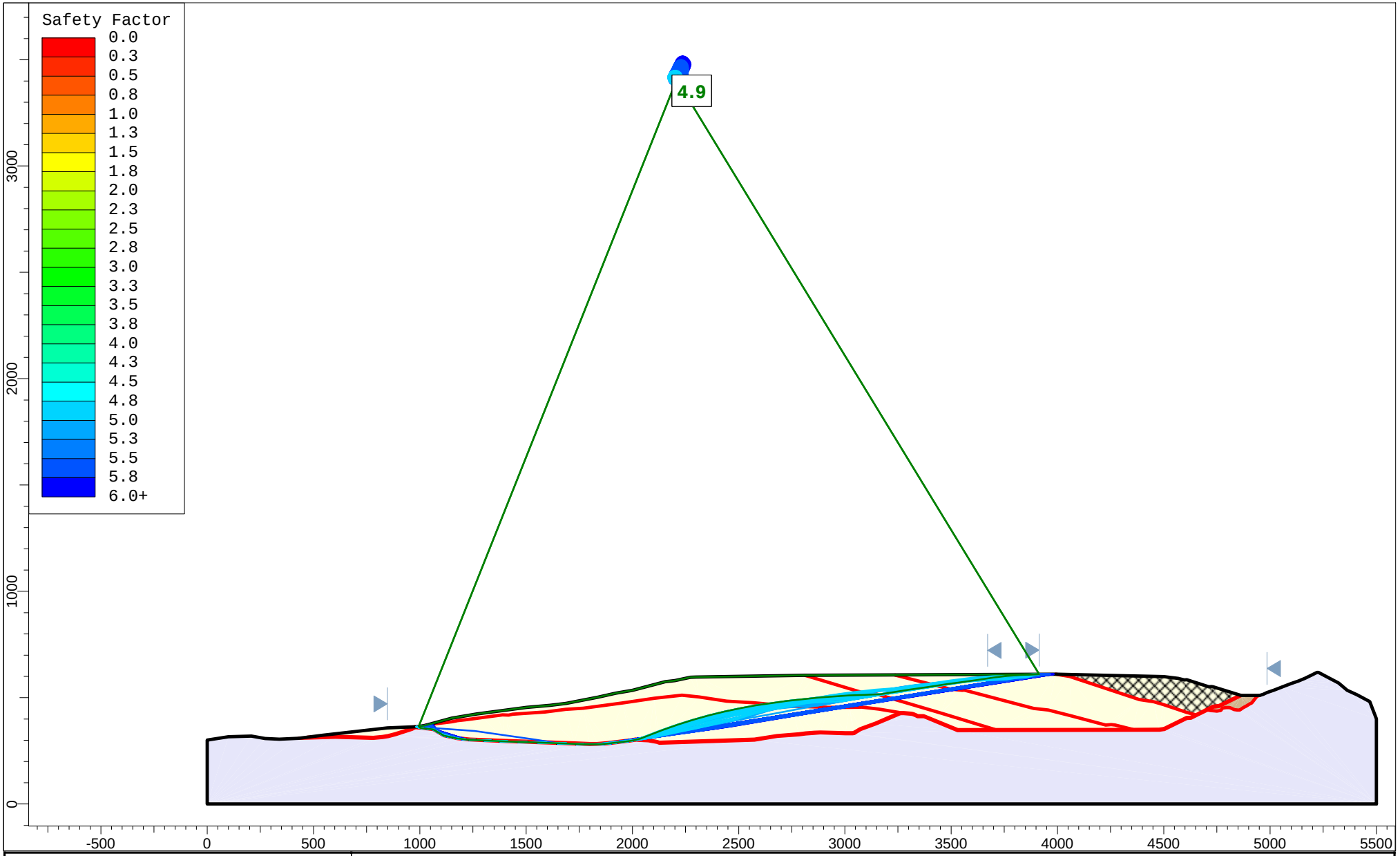

rocscience

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Project	CHIQUITA CANYON LANDFILL		
Group	Group 1	Scenario	Cell 13 Constrained Sliding
Drawn By	R. Mitchell	Company	Geo-Logic Associates
Date	5/12/2020, 2:43:39 PM	File Name	Section 13-2.slmd

Attachment 3
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MASTER DEVELOPMENT PLAN
FILL SEQUENCE STABILITY ANALYSES

CHIQUITA CANYON LANDFILL
COUNTY OF LOS ANGELES, CALIFORNIA

NOVEMBER 2017
PROJECT NO. 2016.A027

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1 INTRODUCTION

This report summarizes the results of evaluations performed to assess the static and seismic stability of the interim and final waste fill grading plans associated with proposed Cells 6 through 13 of the Master Development Plan at the Chiquita Canyon Landfill (CCL). The CCL is a Class III solid waste disposal facility approximately three miles west of Castaic Junction in Los Angeles County, California (Figure 1). Current permitted landfill operations at the waste management facility encompass approximately 257 acres of the 639-acre site.

The waste management facility is comprised of three waste management units: the primary canyon landfill area; Canyon B; and Canyons A, C, and D. The primary canyon and Canyon B have been filled and Canyon C is currently being filled. Existing conditions at CCL are shown in Figure 2 and Figure 3 shows base grading for existing and future cells at the landfill. The minimum floor elevations of all disposal areas range from 1,025 feet to 1,092 feet above mean sea level (MSL). The current maximum elevation of the site is about 1,430 feet MSL. Cells 6 through 13 will be developed sequentially and represent future phases of development of the landfill. Construction of Cells 6 through 13 will increase the existing waste footprint from about 257 acres to 400 acres. Interim waste fill grades for Cells 6 through 13 have been developed by Geo-Logic Associates (GLA) and are included in Appendix A.

The purpose of the analyses summarized below was to complete a preliminary assessment of the stability of interim grading plans for the new cells and for the final fill configuration of the landfill. The scope of work completed for this evaluation was intended to address this objective included:

- Review of the planned base grading and interim grading plans for Cells 6 through 13;
- Review of site data to characterize geologic and groundwater conditions at the site;
- Review of base grading plans for previous waste disposal cells and modules at the landfill;
- Review of the interim grading plans for Cells 6 through 13;
- Evaluation and identification of cross sections for analysis;
- Review of site reports to identify applicable seismic design criteria for analysis;
- Completion of static and seismic stability analyses; and
- Preparation of this report.

These analyses are intended to evaluate compliance with stability requirements specified in the landfill Waste Discharge Requirements (WDRs) and Title 27 of the California Code of Regulations (Title 27 CCR) and are preliminary. Additional design-level evaluations will be required during design for each new cell as it is developed.

2 SITE CHARACTERISTICS

2.1 Regional Geology

CCL is located at the eastern end of the Ventura Basin within the Transverse Ranges geomorphic province. The site is in the eastern portion of the Santa Clara River drainage basin, immediately west of the confluence with Castaic Creek. Regional topography ranges from resistant dip-slope ridges to rounded hills and elevated, gently inclined alluvial terraces. Sedimentary rock units at and near the site are the Pliocene age Pico Formation and the Plio-Pleistocene age Saugus Formation. Other geologic materials exposed near the site include terrace deposits of Pleistocene age and Holocene alluvium mantling the valley floor. Three landslide-related deposits that range from about 5- to 40-feet thick have been identified at the site, including debris flows, recent landslides, and older landslide deposits (EMCON Associates, 1997).

2.2 Site Geology

Geologic units mapped at the site include (Shaw Environmental, Inc.):

- Alluvial Deposits. Holocene alluvial deposits are associated with ephemeral-stream drainages that transect the site and consist of poorly stratified and unconsolidated gravel, sand, silt, and clay occurring within channels and on floodplains of active streams. Older alluvial deposits have soil types similar to the younger Holocene alluvium but occur as isolated terraces along the southern and eastern margins of the project site.
- Slope Failure Deposits. Slope failure deposits identified at the site include: debris flow deposits, recent landslides, and older landslides. The debris flow deposits are a mixture of rock fragments within a matrix of unconsolidated sand, silt, and clay and generally occur within ravines and on slopes steeper than approximately 2:1 (horizontal:vertical). Recent landslide deposits occur throughout the project site and appear to be primarily associated with poorly indurated stratigraphic intervals of the Saugus and Pico Formations. These deposits are range from about 5 to 120 feet thick and are usually identified by relatively well-defined scarps, hummocky topography, or fissures within the slump mass. Older landslide deposits typically occur near the base of slopes and are similar to recent landslides, with the exception of being more deeply weathered.
- Saugus Formation. The upper Pliocene to Pleistocene Saugus Formation comprises approximately 80 percent of the bedrock exposures at the site. The formation is characterized by rolling hills in the west, to steep cliffs in the southeast portion of the study area. Upper portions of the formation have been removed by erosion throughout the area, with a maximum remaining thickness of approximately 1,800 feet. The formation consists of poorly-to moderately-indurated, interbedded sandstone, conglomerate, siltstone, and mudstone. Sandstone strata are principally planar-bedded

to cross-bedded, fine- to medium-grained, and contain 10 to 50 percent fines. These beds have a low hardness or are friable, yet local calcite-cemented strata produce hard, well-defined ledges. Conglomerate strata occur primarily in the southern half of the site as lenticular, discontinuous beds encapsulated within fine- to medium-grained sandstone. Mudstone intervals typically have soft to low hardness, are locally highly plastic, and individual beds are massive- to finely-laminated.

- Pico Formation. The Pliocene Pico Formation is exposed in the northern portion of the site as steep, resistant dip slopes and cliffs. Soft, interbedded offshore-marine siltstone and mudstone, which locally contain thin stringers of sandstone, characterize the upper 200 to 300 feet of the formation. Three laterally continuous beds of coquina (fossil-rich limestone), containing abundant bivalve and echinoid fossils, form ridge capping ledges beneath the siltstone and mudstone interval. Fine- to coarse-grained sandstone is interbedded with the coquina limestone ledges and characterizes the lower half of the exposed Pico Formation stratigraphy. These sandstone beds, which contain some mudstone and siltstone intervals, are of low to moderate hardness and represent nearshore-marine to nonmarine depositional settings. Laterally discontinuous boulder and cobble conglomerate lenses are found locally near the top of the sandstone units.

2.3 Hydrogeology

The low-permeability Saugus and Pico Formations and the higher-permeability valley floor alluvium of the Santa Clara River valley form two distinctive hydrogeologic systems near the CCL. The two systems are interconnected where saturated alluvium directly overlies the bedrock although at the landfill, groundwater has only been encountered in the bedrock (Shaw Environmental 2009). Recharge to the aquifer systems occurs primarily through precipitation. During periods of precipitation, the higher-permeability alluvial aquifer system is recharged from hillside runoff. Recharging the alluvial aquifer, in turn, slowly recharges the underlying bedrock aquifer. The quantity of bedrock recharge is low, however, because of the regionally high evapotranspiration and subsurface outflow rates. More groundwater flows down canyon through the alluvium than infiltrates the underlying bedrock.

Groundwater is found beneath the site in the sedimentary bedrock of the Saugus and Pico formations but is not present in the relatively thin alluvial deposits that are restricted to canyon floors (RTFA, 2016). The Pico Formation lies stratigraphically beneath the Saugus Formation and the Pico Formation groundwater is under confined conditions due to the low permeability of the overlying mudstone and siltstone sequences. Beneath most of the site, the uppermost water-bearing unit is the Saugus Formation and the depths to groundwater range from approximately 33 feet to 345 feet below the ground surface in site monitoring wells. Groundwater in the Pico

Formation ranges from about 72 feet to 335 feet below the ground surface on the slope of the northwest ridgeline (RTFA, 2016).

2.4 Faulting and Seismicity

No major through-going faults occur within or are immediately adjacent to the landfill. The Chiquita Canyon Landfill is located about 1 km from the Holocene-active Holser and Del Valle faults in Southern California. Other significant faults within approximately 20 km of the site: Oakridge, San Cayetano, Sierra Madre, Santa Susana, Northridge, San Gabriel, and Simi-Santa Rosa. The San Andreas is located about 33 km east of the site. These faults are described in the site-specific seismic hazard evaluation included in Appendix A. As described in this appendix, general fault characteristics of the faults include:

- Holser, Del Valle, and Santa Fellicia Faults. The Holser fault is closest to the Chiquita Canyon Landfill site with a surface outcrop located approximately 1 km northwest of the site. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Holser, Del Valle, and Santa Fellicia faults. The Holser fault has a maximum credible moment magnitude of 6.5.
- San Gabriel Fault. The San Gabriel fault is located approximately 7 km northeast of the site and has a total length of about 73 km with predominately strike-slip and reverse slip motion dipping to the northeast (away from the site). There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the San Gabriel fault. The maximum credible moment magnitude earthquake associated with this fault is 7.0.
- Oakridge Fault. The Oakridge fault is located approximately 4 km west of the site and has a total length of about 97 km with oblique slip motion dipping to the north. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Oakridge fault. The maximum credible earthquake is estimated to have a moment magnitude of 7.1.
- San Cayetano Fault. The San Cayetano fault is located approximately 6 km west of the site and has a total length of about 45 km with oblique slip motion dipping to the north. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the San Cayetano fault. The maximum credible earthquake magnitude associated with this fault is 6.8.
- Santa Susana Fault. The surface trace of the Santa Susana fault is located approximately 5 km south of the site and has a total length of about 32 km with oblique slip motion dipping to the north (toward the site). There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Santa Susana fault. This fault has a maximum credible earthquake moment magnitude of 6.7.

- Simi Fault. The Simi fault is part of the Simi-Springfield-Camarillo fault system and is located approximately 12 km south of the site. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Simi-Springfield-Camarillo fault system and it has a maximum credible earthquake moment magnitude of 6.7.
- Sierra Madre Thrust Zone. The Sierra Madre Thrust zone consists of several east-west trending thrust faults, including the San Fernando fault, Dunsmore fault, Sierra Madre fault, Duarte fault, Claremont fault, and Cucamonga fault. The site is located closest to the San Fernando segment which is about 21 km to the southeast. The largest historical earthquake on the Sierra Madre Thrust zone was the 1971 San Fernando earthquake with magnitude 6.6. The maximum credible earthquake for the Sierra Madre Thrust Zone is 7.0.
- 1994 Northridge Event (Blind Thrust). The 1994 Northridge earthquake (moment magnitude 6.7) occurred on a blind thrust fault east of the Chiquita Canyon Landfill site. The rupture occurred at a depth of 20 km at the southeast end and at a depth of 6 km at the north end which resulted in a site-to-rupture distance of about 10 km. The maximum credible earthquake associated with the Northridge blind thrust is 6.8.
- San Andreas Fault. The Carrizo Plain Segment of the San Andreas fault is located approximately 32 km north-east of the site. The largest historical earthquake on the Carrizo Plain segment was the 1857, Fort Tejon Earthquake with a moment magnitude of 7.9 and resulted from simultaneous rupture of the Parkfield, Cholame, Carrizo, and Mohave segments. The estimated maximum credible earthquake magnitude associated with this segment of the San Andreas fault is 8.0.

3 STABILITY ANALYSES

3.1 Conditions Analyzed

Site conditions based on the site 2017 topographic map are shown in Figure 2. This figure also shows the approximate limits of previous phases of development in this portion of the facility. As shown, these phases include:

- Canyon D;
- Canyon A;
- Canyon C, Cell I;
- Canyon C, Cell II, Phase 1;
- Canyon C, Cell II, Phases 2A and 2B; and
- Expansion Area Modules 1, 2A, 2B, 3, 4, and 5.

Table 1 summarizes the different base and side slope liner systems that are associated with each phase of development. Final base liner system details for Cells 6 through 13 have not be designed but are expected to include (from bottom to top):

- Prepared subgrade;
- A compacted clay liner;
- A textured HDPE geomembrane;
- A 16-oz/yd^2 cushion geotextile;
- A granular leachate collection layer;
- An overlying geotextile; and
- Operations layer soil.

The side slope liner system for these cells will not include a compacted clay liner and the textured HDPE will be placed on prepared subgrade. Excavations for the different cells are assumed to remove overlying unconsolidated deposits (i.e., alluvium and landslide material) and that the subgrade for new cells will include Saugus or Pico Formation sediments. The interim grading plans for Cells 6 through 13 and the cross sections that were selected for analysis are shown in Figures 4.1 through 4.8.[1] The final grading plan for the landfill is shown in Figure 5. Generalized

[1] It should be noted that stability analyses were not performed for the interim fill configurations associated with Cells 11, 12, and 13 because they are interior fill areas and the outboard slopes are associated with other cells that were analyzed.

plots of the cross sections that were analyzed are shown in Figures 4 and 5 and in the analysis output in Appendix D.

3.2 Leachate and Groundwater Conditions

Review of site data (Shaw Environmental, 2009; RTFA, 2016) indicates groundwater occurs at depth below the base of Canyon C, Phase 2, and Modules 1 through 5. As shown below, comparison of the minimum base grades for the new cells with the recent groundwater elevation information for the site (RTFA, 2017) indicates groundwater occurs about 30 to more than 200 feet below the lowest points associated with the new cells:

Cell	Minimum Base Grade Elevation (ft MSL)	Groundwater Elevation (ft MSL)	Depth of Groundwater Below Base Grade (ft)
6	1000	950	50
7	1100	1030	70
8	1000	940	60
9	1140	1110	30
10	1110	1040	70
11	1320	1104	216
12	1270	1120	150
13	1225	1060	165

In accordance with this information, a water table or piezometric surface was not included in the stability analyses because the most critical failure surfaces are associated with translational sliding along the landfill liner system. Site data (Shaw Environmental, 2009) also indicate that the existing base liner systems include Subtitle D-compliant leachate collection system (LCS) layers that consist of either granular drain rock or a geocomposite and the liner systems planned for Cells 6 through 13 will also include Subtitle D LCS layers. Therefore, a leachate surface to represent saturated waste at the base of the fill was not incorporated into the analyses.

3.3 Material Properties Assumed for Analysis

As indicated in Table 1 and Figure 2, different base and side slope liner systems are associated with the landfill. Because stability of the fill is largely dependent on the strength of the liner system, site data and published information were reviewed to evaluate representative strength properties for the materials and material interfaces in the different systems underlying the landfill. The results of this review are summarized in Table 2 and supporting data are included in Appendix B. The strengths assumed for analysis are summarized in Table 2. Post-peak strengths were assumed for analysis which is generally conservative for base liner systems (Stark and Choi,

2004). The strength of refuse was based on recent information published by Kavazanjian et al. (2013).

3.4 Analysis Methods

3.4.1 Static Analyses

Static stability analyses were based on Spencer's Method of Analysis using the computer program SLOPE/W. Search routines were used to evaluate rotational and non-circular failure mechanisms. The analyses considered translational sliding along the proposed liner systems and general, circular failure surface within the waste mass. Failure surfaces that penetrate the landfill and extend into the underlying bedrock were not allowed based on analyses that showed this failure mechanism is less critical (i.e., has higher safety factors) than translational sliding along the liner or failures within the waste mass when using the subgrade and engineered fill strength properties assumed for these materials (Table 2).

3.4.2 Seismic Analyses

In accordance with Regional Water Quality Control Board direction (EMCON, 1997), different design earthquakes are used to evaluate long-term and interim stability at the landfill. These include:

- Interim slope seismic stability is based on the probabilistic peak horizontal bedrock acceleration (PHGA) associated with an earthquake having a 10 percent probability of being exceeded in a 5-year period. Dr. Norman A. Abrahamson completed a site-specific probabilistic and deterministic ground motion study that is included in Appendix C and shows that the PHGA associated with an earthquake having a 10 percent in 5-year hazard level is 0.295g. This acceleration is not based on an earthquake on a specific fault, but rather on an earthquake occurring on any of the faults in the site vicinity. For a given probability of exceedance, the hazard can be broken down (or deaggregated) into the contributions from distinct earthquake magnitude and distance ranges. For the case of Chiquita Canyon Landfill, the deaggregated hazard for a 10 percent in 5 years chance of being exceeded is dominated by earthquakes with moment magnitudes ranging from 6.5 to 7.0 that occur at short distances (5 to 20 km) from the landfill. The interim fill seismic stability analyses assumed a 7.0 moment magnitude earthquake.
- Long-term global seismic stability at the CCL is based on the PHGA associated with the maximum credible earthquake (MCE).[2] The MCE is defined in Title 27 CCR as the

[2] Title 27 CCR requires that Class III landfills be designed for the maximum probable earthquake (MPE). The ground shaking associated with the MPE is lower than the ground shaking associated with the MCE. The CCL seismic design criteria of the MCE plus one-half standard deviation was required by the Los Angeles Regional Water Quality Control Board (EMCON, 1997) and has been incorporated in the current analyses.

maximum earthquake that appears capable of occurring under the currently known geologic framework. Using the deterministic method to determine the MCE, little regard is given to its probability of occurrence except that its likelihood of occurring is great enough to be a concern. In accordance with CVRWQCB direction, the PHGA used for analysis was calculated as the median PHGA plus one-half standard deviation (EMCON, 1997). The site-specific analyses included in Appendix C indicate the design earthquake for the final grading plan is represented by a MCE magnitude 6.5 earthquake that occurs on the Holser fault and has an associated median plus one-half standard deviation PHGA of 0.96g. The Holser fault outcrops approximately 1 km northwest of the site.

Seismic stability was evaluated using the simplified Bray and Travasarou (2007) analysis procedure to calculate potential deformations associated with the earthquakes summarized above. The spectral acceleration values used in the analyses were based on the information included in Appendix C.

4 RESULTS AND DISCUSSION

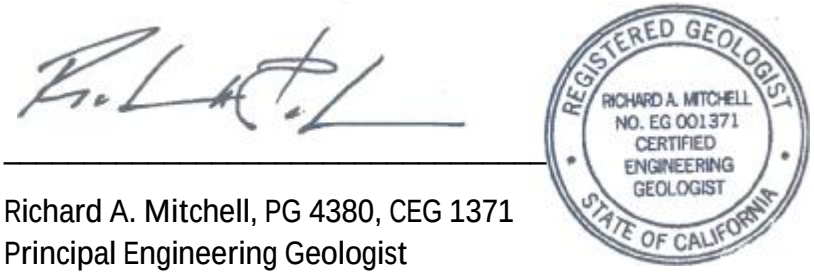
The results of the analyses are included in Appendix D and are summarized in Table 3 and show that the static safety factors associated with each interim fill conditions are at least 1.5 and seismic deformations associated interim and final fill configuration slopes are less than 6 inches. These static safety factors and deformations meet the requirements of Title 27 CCR and generally accepted standards of practice and indicate the proposed interim and final grading plans for Cells 6 through 13 are statically and seismically stable. The following should be noted with respect to these results:

- The analyses were based largely on assumed base and side slope liner configurations for Cells 6 through 13 and the material properties associated with these configurations were also assumed (see Tables 1 and 2). Therefore, a reanalysis for individual cell stability is recommended when final liner configurations, base grades, and interim fill plans have been developed;
- Site-specific testing of geologic and geosynthetic materials that will be associated with the expansion area subgrade and liner materials is recommended. Because there can be significant design and cost implications associated with test results that do not meet the assumed values used for analysis, a two-phase testing approach is recommended, whereby: (i) a first phase is performed prior to preparing bid documents and includes interface shear tests using site soils and representative geosynthetic materials the validate the design assumptions; and (ii) a second phase is performed during early in the construction process using samples of site soils and actual geosynthetic materials that will be used for the project to verify that the project materials will meet the project requirements;
- The analyses assumed that excavations into native materials will remove existing unconsolidated alluvium, colluvium, and landslide deposits underlying and adjacent to the new cell(s). This assumption should be verified during design. Additionally, available data (e.g. EMCON, 1997) indicates the geologic structure of the bedrock may affect cut slope stability. Data are not currently available to perform a structural analysis of cut slopes and the final cut slopes have not been designed. Therefore, additional geologic mapping and evaluation is recommended during design to verify that the cut slopes will be stable; and
- Available data indicate that groundwater occurs below the base grades of existing and proposed future cells. Groundwater elevations can change with time and the current groundwater elevation information should be verified during final design and provisions

to manage groundwater should be incorporated into final grading and liner designs if necessary.

5 LIMITATIONS

Geo-Logic Associates prepared this report under the direction of Richard Mitchell, PG, CEG and with support from Aaron Ogorzalek, PE. The report was peer reviewed by Neven Matasovic, Ph.D., PE, GE. The conclusions and recommendations of this report are based largely on assumed material properties, preliminary interim fill grading plans, and professional judgment. Therefore, the results of the analyses presented in this report should be reviewed and modified when design-level grading and fill plans are prepared. Additionally, site-specific testing of materials that will be used for the expansion cell liner systems is essential and we recommend that some of this testing be performed prior to the preparation of construction documents and the start of construction. Additional testing should be performed during construction to confirm that the materials used for construction will meet project requirements. We have employed accepted geotechnical engineering and engineering geologic procedures and our professional opinions and conclusions are made in accordance with these principles and practices. This standard is in lieu of all warranties, either expressed or implied.



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Tables

Table 1
SUMMARY OF BASE AND SIDE SLOPE LINER SYSTEM CONFIGURATIONS
FILL SEQUENCE PLAN STABILITY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

Base Liner	Side Slope Liner
CANYON A	
· Subgrade · 2 ft Bentonite Admixture	· Subgrade · Smooth HDPE · Operations Layer Soil (Assumed)
CANYON C – CELL 1	
· Subgrade · 2 ft Bentonite Admixture · Single-Side Textured HDPE (Down) · Granular LCS · Operations Layer Soil (Assumed)	· Subgrade · Smooth HDPE · Operations Layer Soil (Assumed)
CANYON C – CELL II (PHASE 1)	
· Subgrade · GCL (Claymax) · Double-Side Textured HDPE · Granular LCS · Operations Layer Soil (Assumed)	· Subgrade · GCL (Claymax) · Single-Side Textured HDPE (Down) · Operations Layer Soil (Assumed)
CANYON C – CELL II (PHASES 2A AND 2B)	
· Subgrade · GCL (Bentomat) · Double-Side Textured HDPE · Granular LCS · Operations Layer Soil (Assumed)	· Subgrade · GCL (Bentomat) · Single-Side Textured HDPE (Down) · Geotextile (Upper 1/3 of Slope) · Operations Layer Soil (Assumed)
MODULES 1, 2A, 2B, 3, AND 4	
· Subgrade · GCL (Reinforced) · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)	· Subgrade · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)
MODULE 5	
· Subgrade · Compacted Clay · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)	· Subgrade · Double-Side Textured HDPE · Geocomposite · Operations Layer Soil (Assumed)
CELLS 6 THROUGH 13	
· Subgrade · Compacted Clay · Double-Side Textured HDPE · Cushion Geotextile · Granular Drainage Layer · Filter Geotextile · Operations Layer Soil (Assumed)	· Subgrade · Double-Side Textured HDPE · Cushion Geotextile · Operations Layer Soil (Assumed)

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
Municipal Solid Waste (MSW)	75	900	31	NA	NA	Bilinear strength envelope based on published data (Kavazanjian et al., 2013).	MSW (Kavazanjian, 2013)	75	900	31
Toe Berm/Buttress	125	0	35	0	35	Emcon 1997 values. No laboratory test data available. No reported difference between peak and post-peak strength.	Engineered Fill	125	0	35
Subgrade	120	0	32	0	32	Emcon 1997 values. No laboratory test data available. No reported difference between peak and post-peak strength.	Subgrade	120	0	32
CANYONS A AND D *Base Liner*										
2 ft Thick Admixture Layer	120			0	18	Emcon 1997 Stability Analysis Table 1 reports data for Canyons A and D. Emcon notes value is assumed based on direct shear test data for admixture/textured HDPE; test data not available and peak vs. post-peak conditions not known.	Canyons A and D Base Liner	120	0	18
CANYONS A AND D *Side Slope Liner*										
Side Slope Liner Strength Used in Previous Analysis (Smooth HDPE on Subgrade)	N/A			0	22	Emcon 1997 Stability Analysis Table 1 indicates value is for smooth HDPE on subgrade. The Emcon table references an earlier (1994) report that is not currently available. Test data not found; It is not know if results represent peak or post-peak conditions.	Canyons A and D Side Slope Liner	NA	0	17
Smooth HDPE/Granular LCS	N/A	0	21	0	17	Subgrade and LCS layer assumed to be granular based on information in site geologic reports and JTD (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL 1 *Base Liner*										
2 ft Thick Admixture Layer	120			0	18	Emcon 1997 Stability Analysis Table 1 reports data for Canyons A and D. Emcon notes value is assumed based on direct shear test data for admixture/textured HDPE; test data not available and It is not know if results represent peak or post-peak conditions.	Canyon C Cell I Base Liner	NA	0	17
Admixture/Textured HDPE Liner Strength Used in Previous Analysis	N/A			0	18	Emcon 1997 Stability Analysis Table 1. Test data not found It is not know if results represent peak or post-peak conditions.				
Smooth HDPE/Granular LCS	N/A	0	21	0	17	Subgrade and LCS layer assumed to be granular based on information in site geologic reports and JTD (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL I *Side Slope Liner*										
Side Slope Liner Strength Used in Previous Analysis	N/A			0	22	Emcon 1997 Stability Analysis Table 1 indicates value is for smooth HDPE on subgrade. The Emcon table references an earlier (1994) report that is not currently available. Test data not found It is not know if results represent peak or post-peak conditions.	Canyon C Cell I Side Slope Liner	NA	0	17
Subgrade/Smooth HDPE/Operations Soil	N/A	0	21	0	17	Subgrade and LCS layer assumed to be granular based on information in site geologic reports and JTD (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION							CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT		UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
CANYON C - CELL II (PHASE 1) *Base Liner*										
Value used in Previous Analysis	N/A	Shear-Normal Function (2 point - Bilinear)				Emcon 1997 Stability Analysis Table 1. The Emcon table references an earlier (1996) report that is not available. Test data not found It is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 1 Base Liner	NA	0	10
Textured HDPE/GCL (Claymax)	N/A	0	13	0	10	McCartney et al. (2001), Figure 5.16.				
Textured HDPE/Granular LCS	N/A	0	21	0	17	Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL II (PHASE 1) *Side Slope Liner*										
Previous Analysis	N/A			0	22	Emcon 1997 Stability Analysis Table 1 (May be Unconservative). Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 1 Side Slope Liner	NA	0	10
Internal Unreinforced GCL Strength (Clayma	120	100	5.7	73	5.3	Zornberg et al. (2005), Table 3.				
Textured HDPE/GCL (Claymax)	N/A	0	13	0	10	McCartney et al. (2001), Figure 5.16.				
Smooth HDPE/Granular Operations Soil	N/A	0	21	0	17	Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL II (PHASE 2A AND 2B) *Base Liner*										
Previous Analysis	N/A	Shear-Normal Function (3 point - Trilinear)				Emcon 1997 Stability Analysis Table 1, Figure 4. Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 2A and 2B Base Liner	NA	0	12.7
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.				
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
Textured HDPE/Granular LCS	N/A	0	34	0	31	LCS assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.				
CANYON C - CELL II (PHASE 2A AND 2B) *Lower 2/3 Side Slope Liner*										
Previous Analysis	N/A	Shear-Normal Function (3 point - Trilinear)				Emcon 1997 Stability Analysis Table 1. Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 2A and 2B Side Slope Liner (Lower 2/3)	NA	0	12.7
Internal GCL (Needle-Punched)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.				
GCL/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
Smooth HDPE/LCS or Operations Soil	N/A	0	21	0	17	LCS and operations layer assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 1a and 1b.				
CANYON C - CELL 11 (PHASE 2A AND 2B) *Upper 1/3 Side Slope Liner*										
Previous Analysis	N/A			0	8	Emcon 1997 Stability Analysis Table 1. Test data not found and it is not know if results represent peak or post-peak conditions.	Canyon C Cell II Phase 2A and 2B Side Slope Liner (Upper 1/3)	NA	0	9
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.				
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
Smooth HDPE/Non-Woven Geotextile	N/A	0	11	0	9	Interface strength based on Koerner & Narejo (2005) Figures 1e and 1f.				
Non-Woven Geotextile/Operations Soil		0	33	0	33	Interface strength based on Koerner & Narejo (2005) Figures 8a and 8b.				

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

MATERIAL OR INTERFACE FROM PREVIOUS SITE STUDIES OR ANALYSES	AVAILABLE DATA AND INFORMATION						CONDITIONS ASSUMED FOR ANALYSIS			
	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
MODULES 1, 2A, 2B, 3 AND 4 *Base Liner*										
Internal GCL (Bentomat)	120	416	39.7	375	8.0	Zornberg et al. (2005), Table 3.	Modules 1, 2A, 2B, 3, and 4 Base Liner	NA	100	14
GCL (Bentomat)/Textured HDPE	N/A	0	21	0	12.7	McCartney et al. (2001), Figure 5.10. Assumes equivalent strength values.				
	N/A	420	21	820	10	Interface Direct Shear Test Results (Project Testing)				
	N/A	510	20	560	14	Interface Direct Shear Test Results (Project Testing)				
	N/A	610	22	335	16	Interface Direct Shear Test Results (Project Testing)				
	N/A	475	23	230	17	Interface Direct Shear Test Results (Project Testing)				
	N/A	720	23	435	17	Golder 1999 - Basis of Design Report, Excavation Cell #1 and 2A				
	N/A	1120	19	710	3	Golder 1999 - Basis of Design Report, Excavation Cell #1 and 2A				
Textured HDPE/Geocomposite	N/A	0	26	0	15	Koerner & Narejo (2005) Figures 2i and 2j. Assmumes textured HDPE against NW-NP geotextile on a geocomposite.				
	N/A	235	25	100	14	Interface Direct Shear Test Results (Project Testing)				
Geocomposite/Operations Layer Soil	N/A	104	30	0	21	Koerner & Narejo(2005) Figures 9a and 9B. Assumed cohesive soil and non-woven geotextile on geocomposite.				
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) figures 2a and 2b.				
EXPANSION AREA MODULES 1, 2A, 2B, 3 AND 4 *Side Slope Liner*										
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.	Modules 1, 2A, 2B, 3, and 4 Base Liner	NA	100	14
Textured HDPE/Geocomposite	N/A	0	26	0	15	Koerner & Narejo (2005) Figures 2i and 2j. Assmumes textured HDPE against NW-NP geotextile on a geocomposite.				
	N/A	235	25	100	14	Interface Direct Shear Test Results (Project Testing)				
Geocomposite/Operations Layer Soil	N/A	104	30	0	21	Koerner & Narejo(2005) Figures 9a and 9B. Assumed cohesive soil and non-woven geotextile on geocomposite.				
MODULE 5 *Base Liner*										
2-A Textured HDPE/Compacted Clay	126	0	34.3	0	25.1	Interface Direct Shear Test Results (Project Testing)	Module 5 Base and Side Slope Liner	NA	100	12.5
2-B Textured HDPE/Compacted Clay	126	0	35.1	0	24.5	Interface Direct Shear Test Results (Project Testing)				
1-A Textured HDPE/Compacted Clay	126	0	34.6	0	23.7	Interface Direct Shear Test Results (Project Testing)				
1-B Textured HDPE/Compacted Clay	126	0	35	0	23.6	Interface Direct Shear Test Results (Project Testing)				
1-A NW Geotextile/Textured HDPE	NA	15	37.9	105	12.5	Interface Direct Shear Test Results (Project Testing)				
1-B NW Geotextile/Textured HDPE	NA	179	27.1	326	11.1	Interface Direct Shear Test Results (Project Testing)				
Cells 6 through 13 *Side Slope Liner*										
Subgrade/Textured HDPE	N/A	0	34	0	31	Subgrade assumed to be granular based on information in site geologic reports (no test data available). Interface strength based on Koerner & Narejo (2005) Figures 2a and 2b.	Cells 6-13 Side Slope Liner	NA	0	16[a]
Textured HDPE/NW Geotextile	N/A	0	25	0	17	Koerner & Narejo (2005) Figures 2e and 2f.				
NW/Geotextile/Granular Soil	N/A	0	33	0	33	Koerner & Narejo(2005) Figures 8a and 8b.				

Table 2
SUMMARY OF AVAILABLE MATERIAL PROPERTY INFORMATION AND VALUES ASSUMED FOR ANALYSIS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

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	UNIT WEIGHT (lb/ft^3)	PEAK STRENGTH		POST-PEAK STRENGTH		COMMENT	MATERIAL OR LINER	UNIT WEIGHT (lb/ft^3)	SHEAR STRENGTH	
		c' (psf)	Ø' (degrees)	c' (psf)	Ø' (degrees)				c' (psf)	Ø' (degrees)
Cells 6 through 13 *Base Liner*										
Compacted Clay Liner/Textured HDPE	N/A	0	18	0	16	Koerner & Narejo (2005) Figures 2c and 2d. Assumes CCL compacted wet of optimum	Cells 6-13 Base Liner	NA	0	16
Textured HDPE/NW Geotextile	N/A	0	25	0	17	Koerner & Narejo (2005) Figures 2e and 2f.				
NW/Geotextile/Granular Soil	N/A	0	33	0	33	Koerner & Narejo(2005) Figures 8a and 8b.				

[a]Use 16° (conservative) to simplify model.

Table 3
SUMMARY OF INTERIM FILL STABILITY ANALYSIS RESULTS
FILL SEQUENCE PLAN STABILITIY ANALYSES
Chiquita Canyon Landfill, Los Angeles County, California

CELL	SECTION	FAILURE MODE	STATIC SAFETY FACTOR	YIELD ACCELERATION (g)	SEISMIC DISPLACEMENT							
					Height of Sliding Surface (m)	Shear Wave Velocity of Waste Mass (m/sec)	Site Period (T_s, sec)	1.5 T_s	Spectral Acceleration @ 1.5T_s (g)	Magnitude	Estimated Displacment (cm)	Estimated Displacment (in)
6	6-1	Liner	1.80	0.18	122	318	1.53	2.30	0.08	7.0	0.2	0.1
		Rotational	2.92									
7	7-1	Liner	1.83	0.16	87	276	1.26	1.89	0.11	7.0	0.5	0.2
		Rotational	2.70									
	7-2	Liner	2.69	0.30	50	231	0.87	1.31	0.18	7.0	0.2	0.1
		Rotational	3.15									
	7-3	Liner (Right)	2.60	0.29	65	249	1.04	1.56	0.14	7.0	0.1	0.0
		Rotational	3.02									
8	8-1	Liner	2.04	0.24	95	286	1.33	1.99	0.11	7.0	0.2	0.1
		Rotational	2.84									
	8-2	Liner	2.28	0.24	54	236	0.91	1.36	0.17	7.0	0.3	0.1
		Rotational	3.14									
9	9-1	Liner	1.64	0.15	81	269	1.20	1.80	0.12	7.0	0.7	0.3
		Rotational	2.75									
10	10-1	Liner	2.07	0.23	69	254	1.08	1.62	0.14	7.0	0.3	0.1
		Rotational	3.07									
FG	FG-1	Liner	2.25	0.23	72	258	1.12	1.67	0.36	6.5	3.9	1.5
		Rotational	3.10									
	FG-2	Liner	2.63	0.22	65	249	1.04	1.56	0.39	6.5	4.8	1.9
		Rotational	3.05									
	FG-3	Liner	2.13	0.22	68	253	1.07	1.60	0.38	6.5	4.7	1.9
		Rotational	2.93									

NOTES:

1. Seismic displacement based on Bray and Travasarou (2007).
2. See Figures 4 and 5 for section locations
3. See Appendix C for earthquake magnitude and spectral acceleration information.
3. See Appendix D for analysis output and cross section information.
4. Interim fill seismic displacement analyses based on probabilistic earthquake with a 5-year 10 percent probability of exceedance.
5. Final grading seismic displacement analyses based on a MCE moment magnitude 6.5 earthquake on the Holser fault with a median + 0.5σ PHGA of 0.96g.

Figures

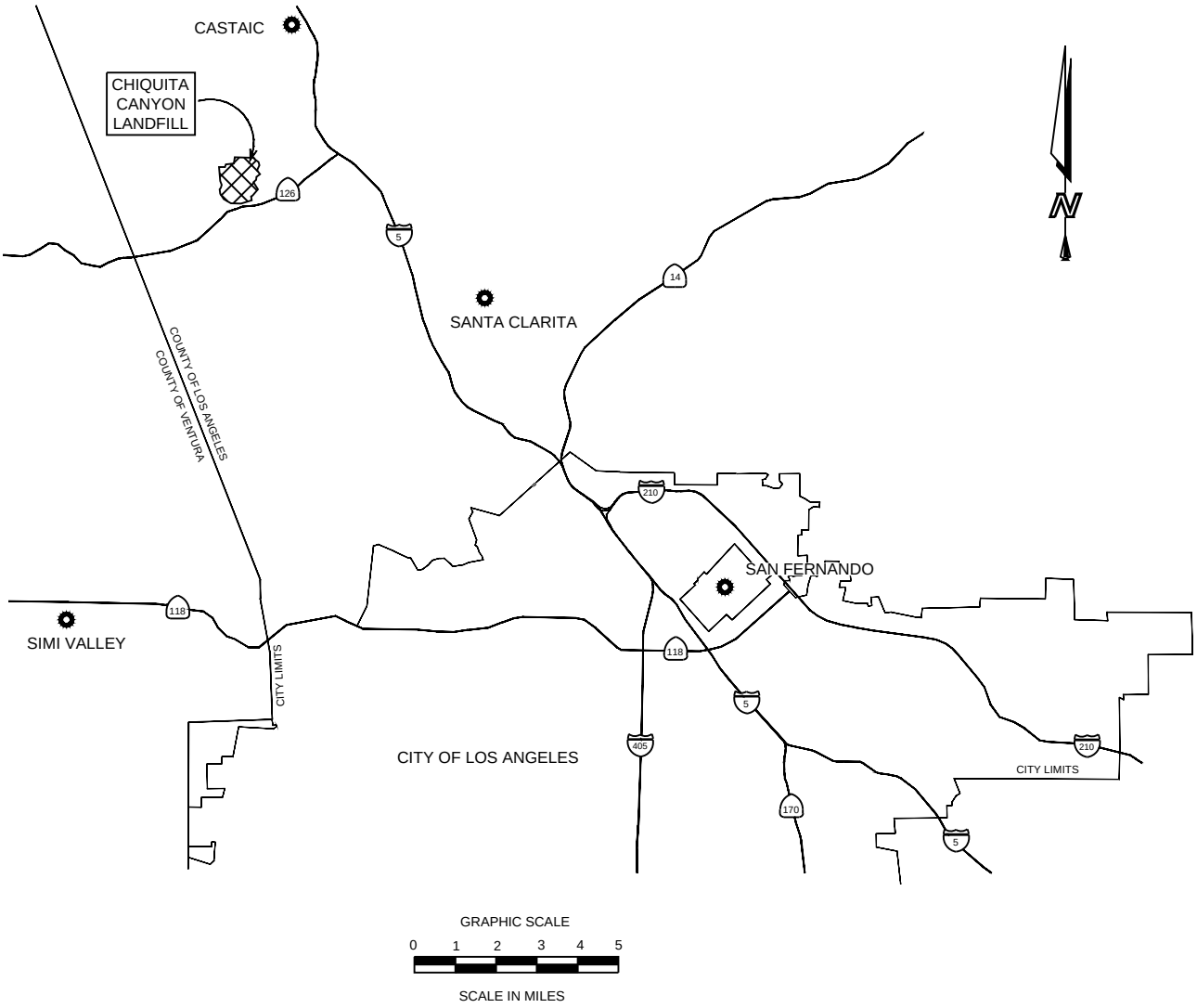

FIGURE 1

LOCATION MAP

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: NOVEMBER 2017	JOB NO. 2017.1235

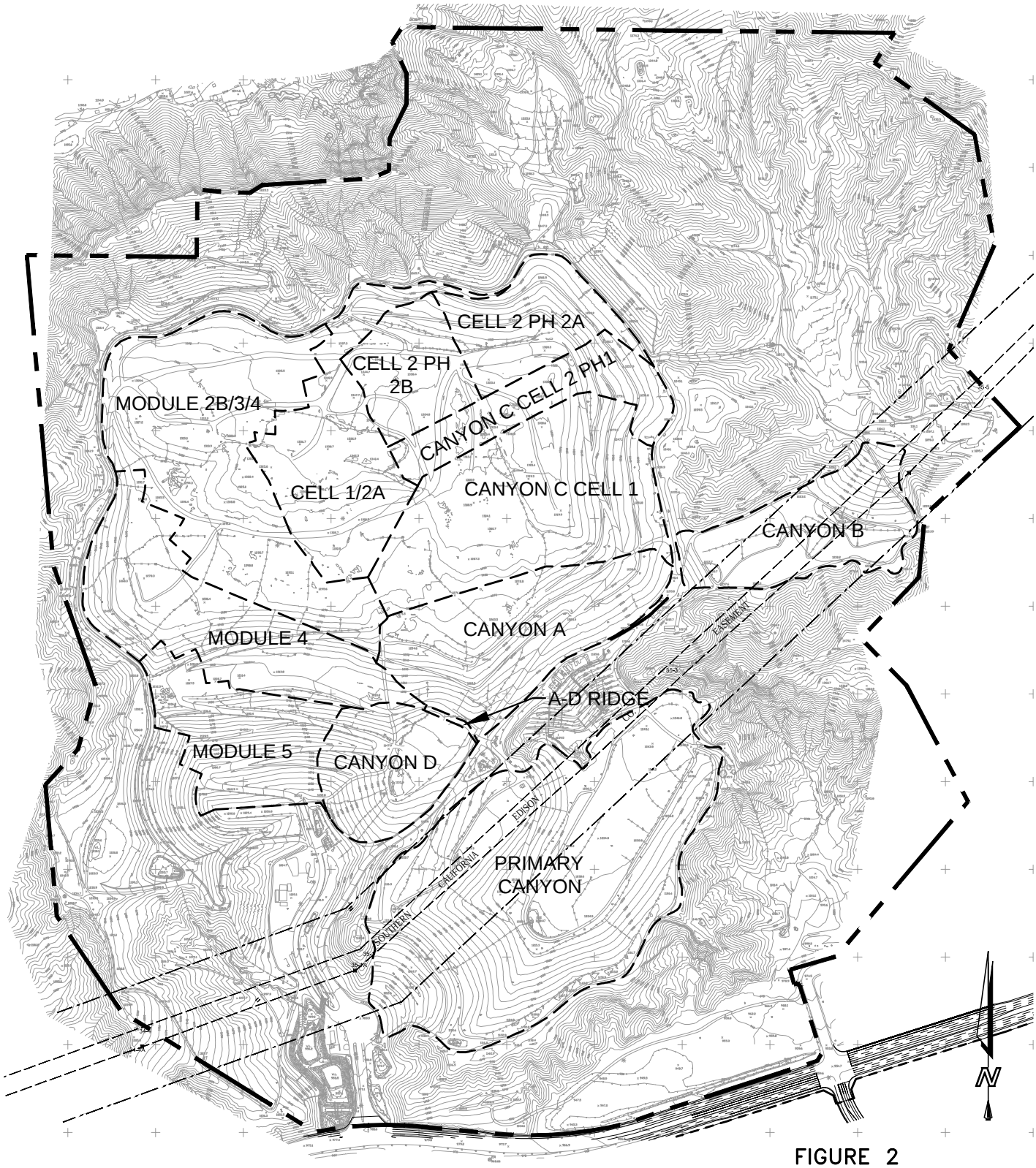

FIGURE 2

800' 0' 400' 800'

SCALE: 1" = 800'

EXISTING CONDITIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: NOVEMBER 2017	JOB NO. 2017.1235

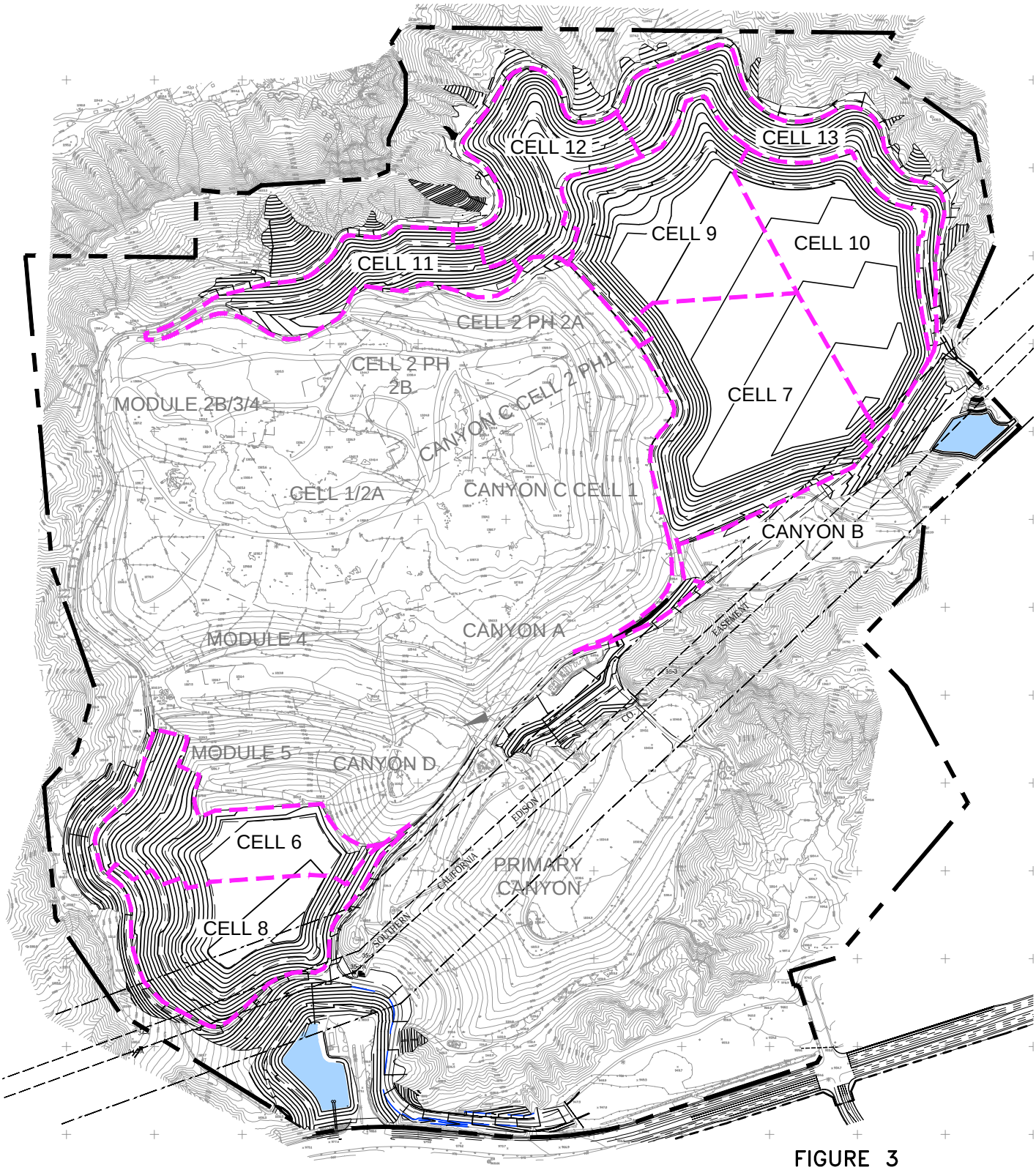

FIGURE 3

800' 0' 400' 800'

SCALE: 1" = 800'

N

EXISTING AND PROPOSED BASE GRADING

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

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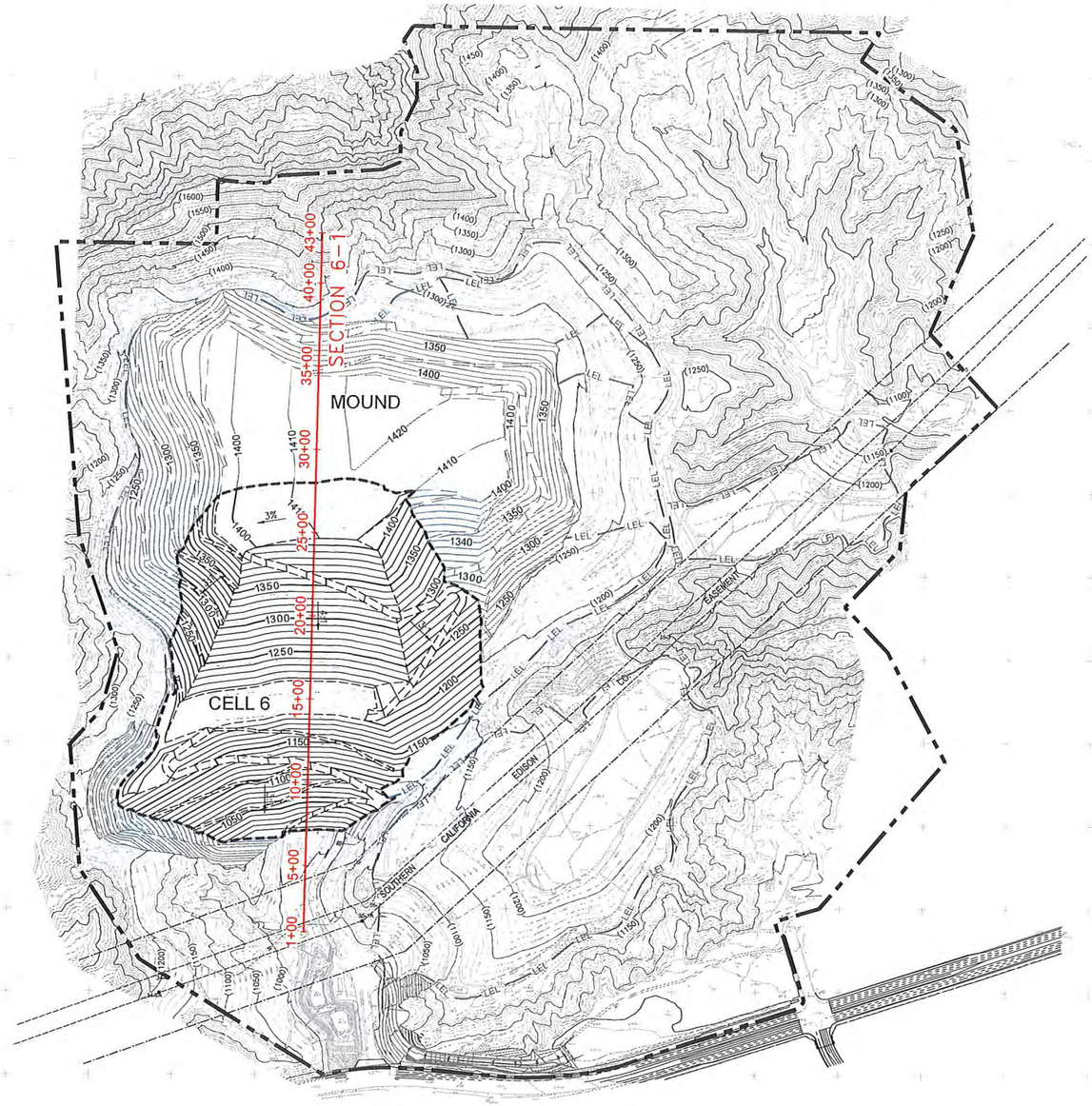

LEGEND

- PROPERTY BOUNDARY
- LOR LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL

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CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS

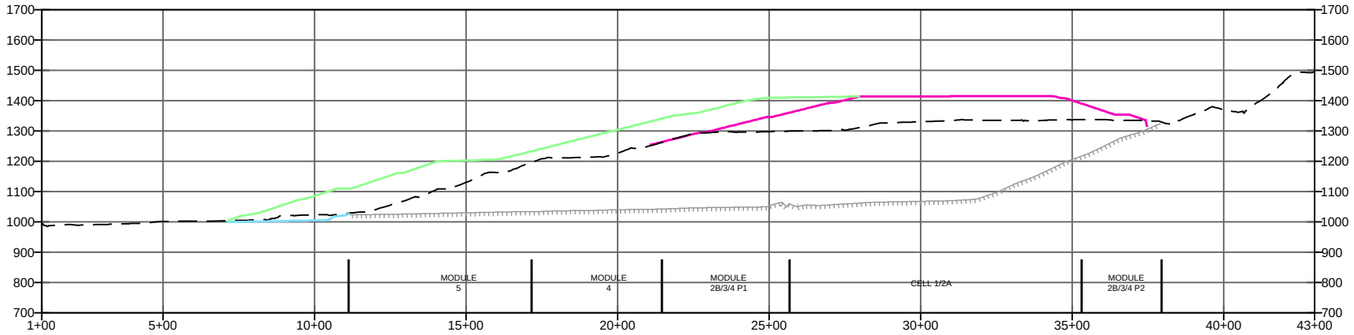
CELL 6 FILL PLAN

FIGURE NO. 4.1

PROJECT NO. S017.1235

D:\Projects\2013\2013.0094\01_CAD\12_GLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.1 - CELL 6 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By glo-user

SECTION 6-1



LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500' 0' 250' 500'

SCALE: 1" = 500'

FILL CELL 6 X-SECTION

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: OCTOBER 2017	JOB NO. 2013.0094

LEGEND

- PROPERTY BOUNDARY
- LOR LOR LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY



N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL

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DATE OF ISSUE: NOVEMBER 2017
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CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS

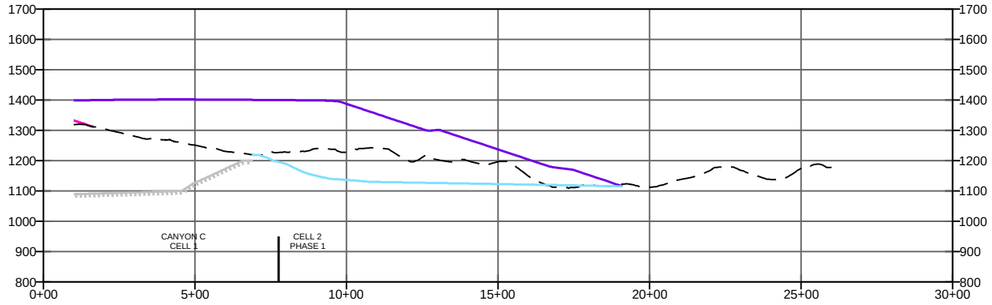
CELL 7 FILL PLAN

FIGURE NO. 4.2

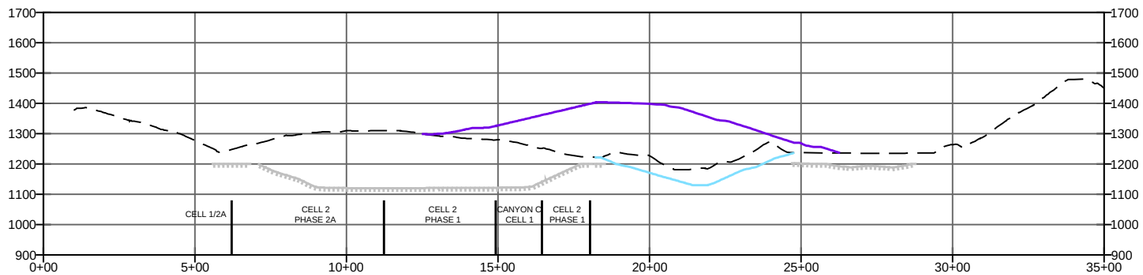
PROJECT NO. S017.1235

D:\Projects\2013\2013.0084\01_CAD\B_DLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.2 - CELL 7 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By: gla-user

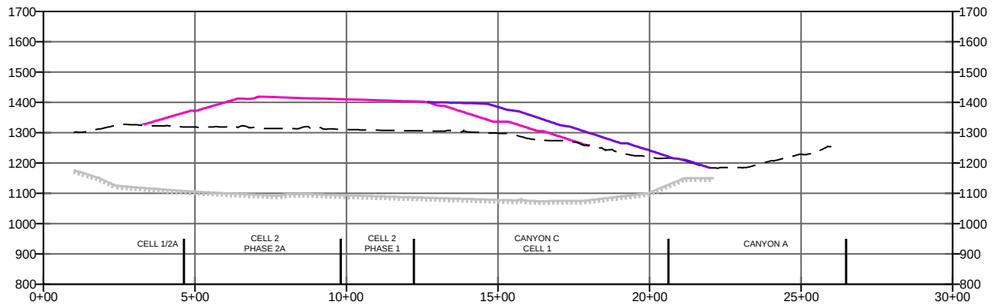
SECTION 7-1



SECTION 7-2



SECTION 7-3



LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500' 0' 250' 500'

SCALE: 1" = 500'

FILL CELL 7 X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

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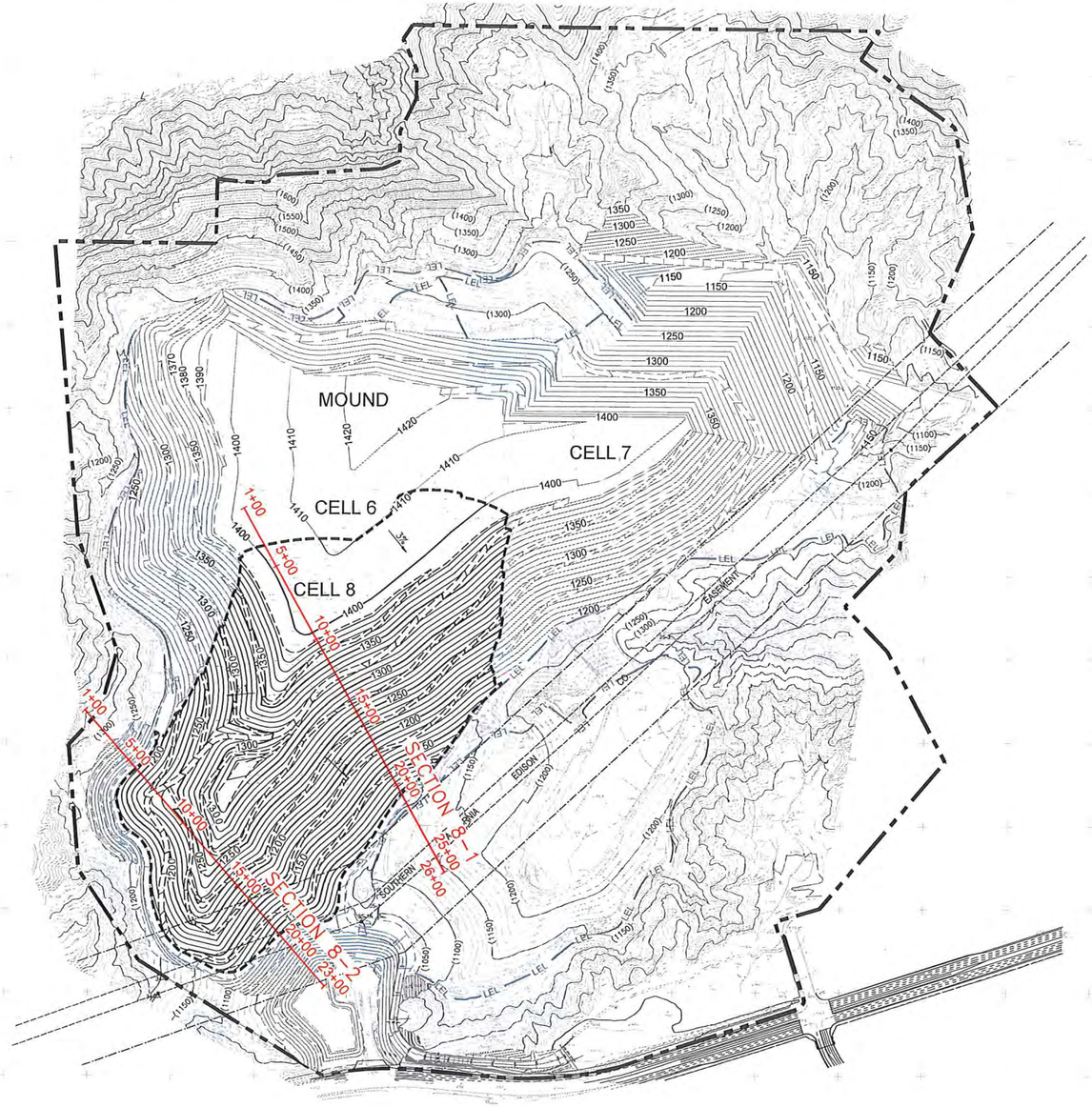

LEGEND

- PROPERTY BOUNDARY
- LOR LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL

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APPROVED BY: R JOHNSON

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(909) 626-2282
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A Waste Connections Company
29210 HENRY MAYO DR.
CASTAIC ,CA 91384

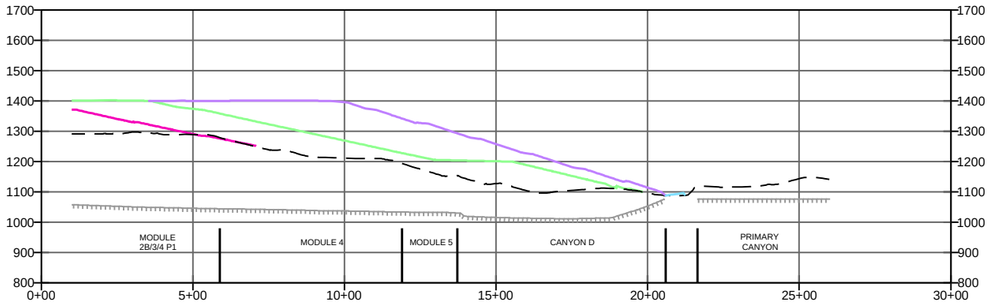
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS
CELL 8 FILL PLAN

FIGURE NO. 4.3

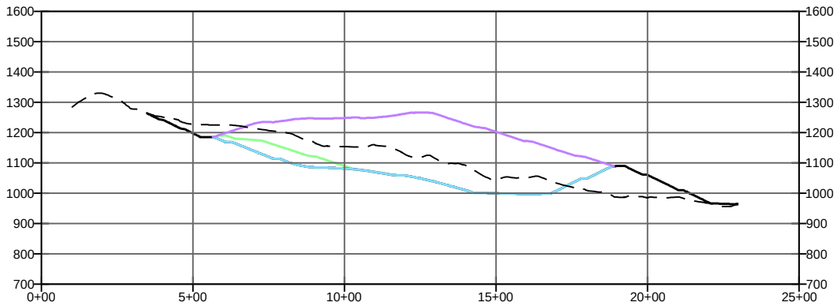
PROJECT NO. S017.1235

D:\Projects\2013\2013.0094\01_CAD\18_GLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.3 - CELL 8 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By: gio-user

SECTION 8-1



SECTION 8-2



LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500' 0' 250' 500'

SCALE: 1" = 500'

FILL CELL 8 X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

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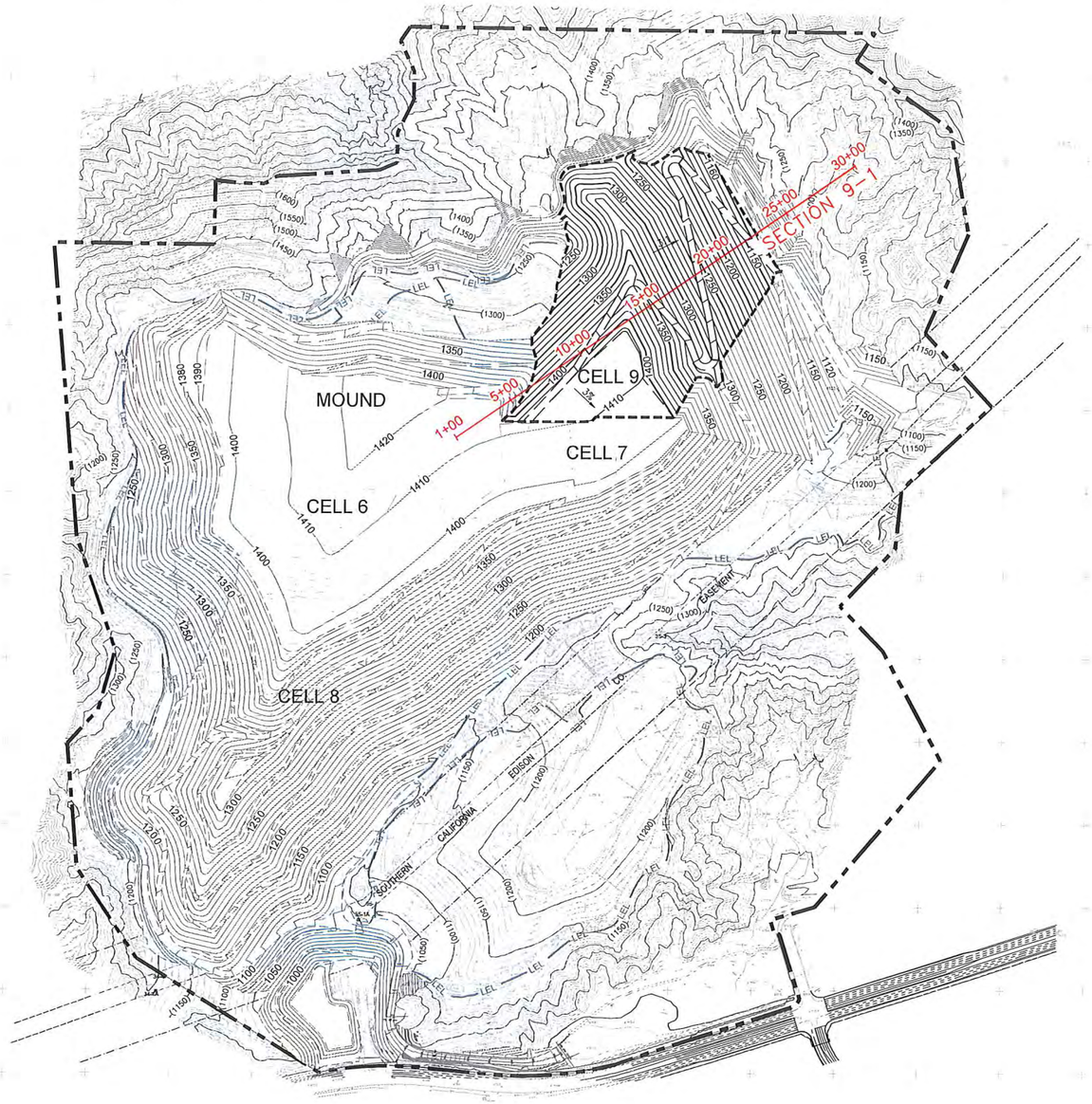

LEGEND

- PROPERTY BOUNDARY
- LOR LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS

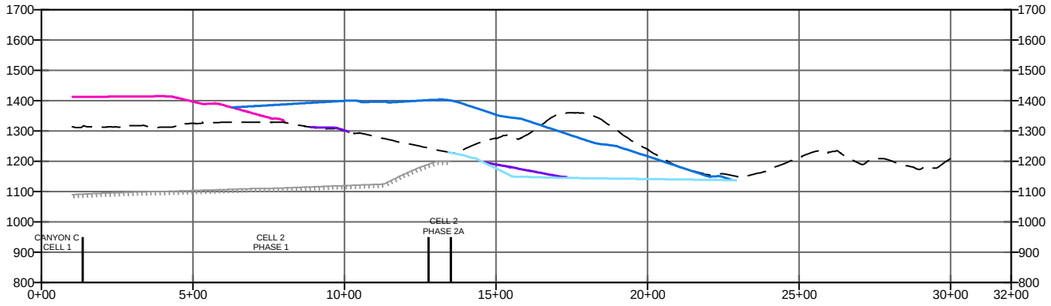
CELL 9 FILL PLAN

FIGURE NO. 4.4

PROJECT NO. SO17.1235

D:\Projects\2013\2013.0094\01_CAD\B_CLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.4 - CELL 9 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By: glo-user

SECTION 9-1



LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500’ 0’ 250’ 500’

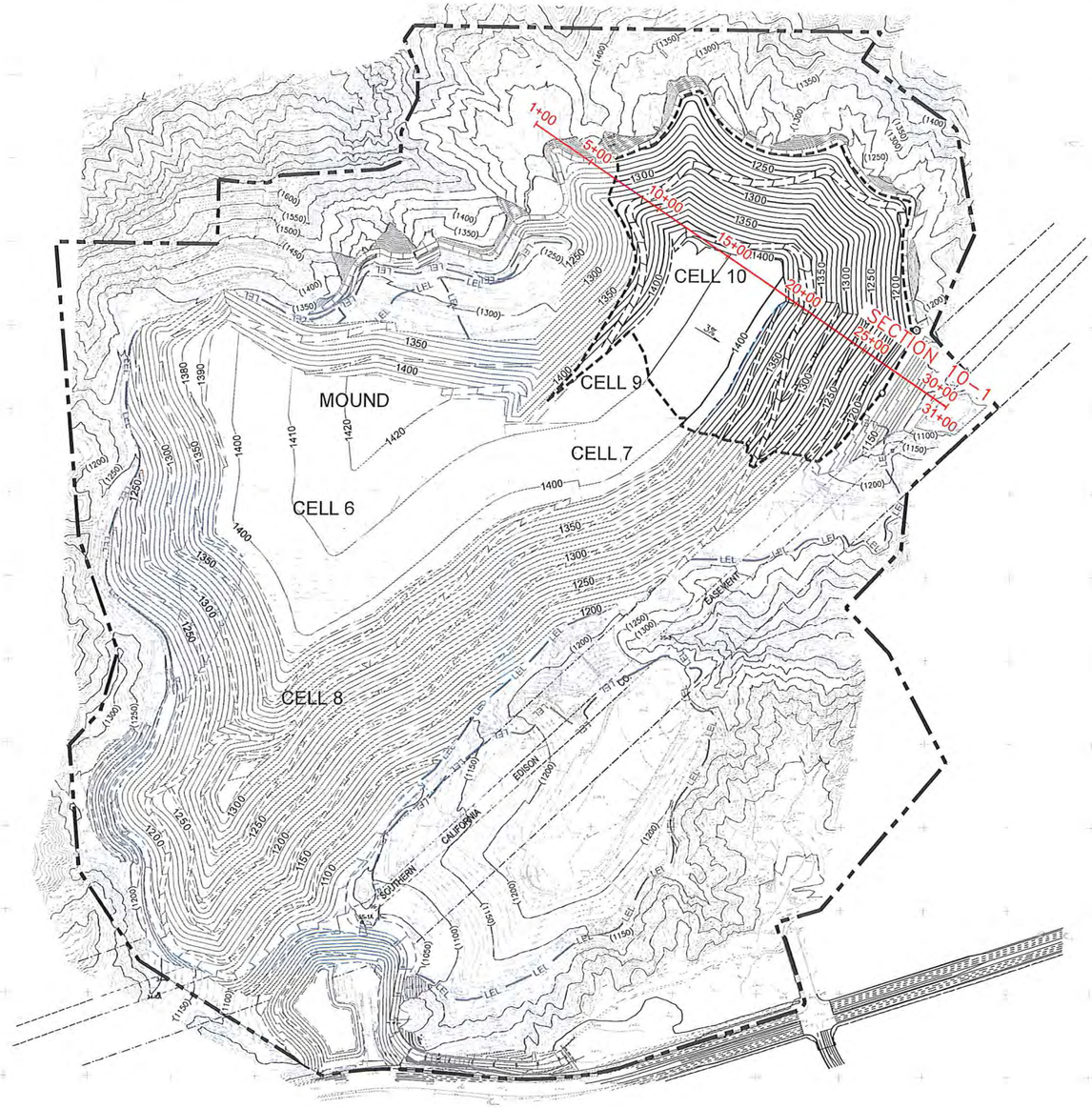
SCALE: 1” = 500’

FILL CELL 9 X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: OCTOBER 2017	JOB NO. 2013.0094



LEGEND

- PROPERTY BOUNDARY
- LOR LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS

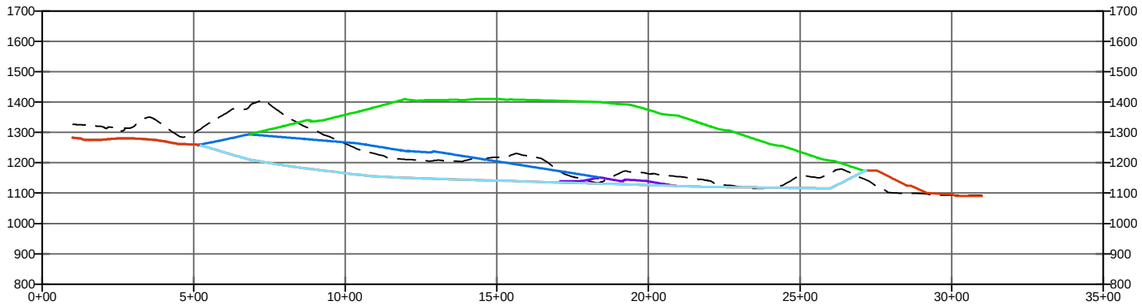
CELL 10 FILL PLAN

FIGURE NO. 4.5

PROJECT NO. SO17.1235

D:\Projects\2013\2013.009\01_CAD\B_GLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.5 - CELL 10 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By: gla-user

SECTION 10-1



LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500’ 0’ 250’ 500’

SCALE: 1” = 500’

FILL CELL 10 X-SECTION

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

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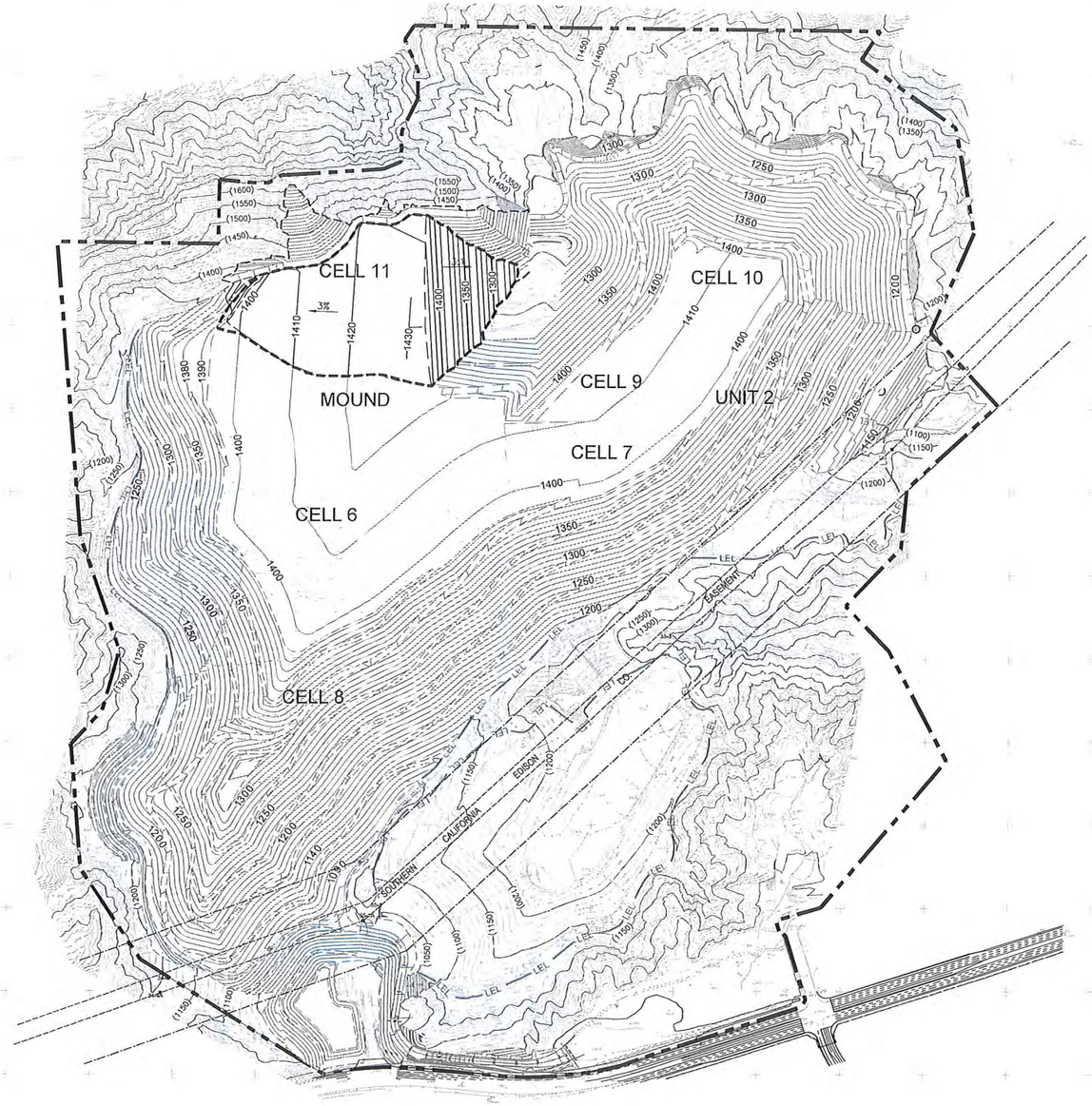

LEGEND

- PROPERTY BOUNDARY
- LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- PROPOSED 50 FEET CONTOUR WITH ELEVATION
- PROPOSED 10 FEET CONTOUR WITH ELEVATION
- EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL

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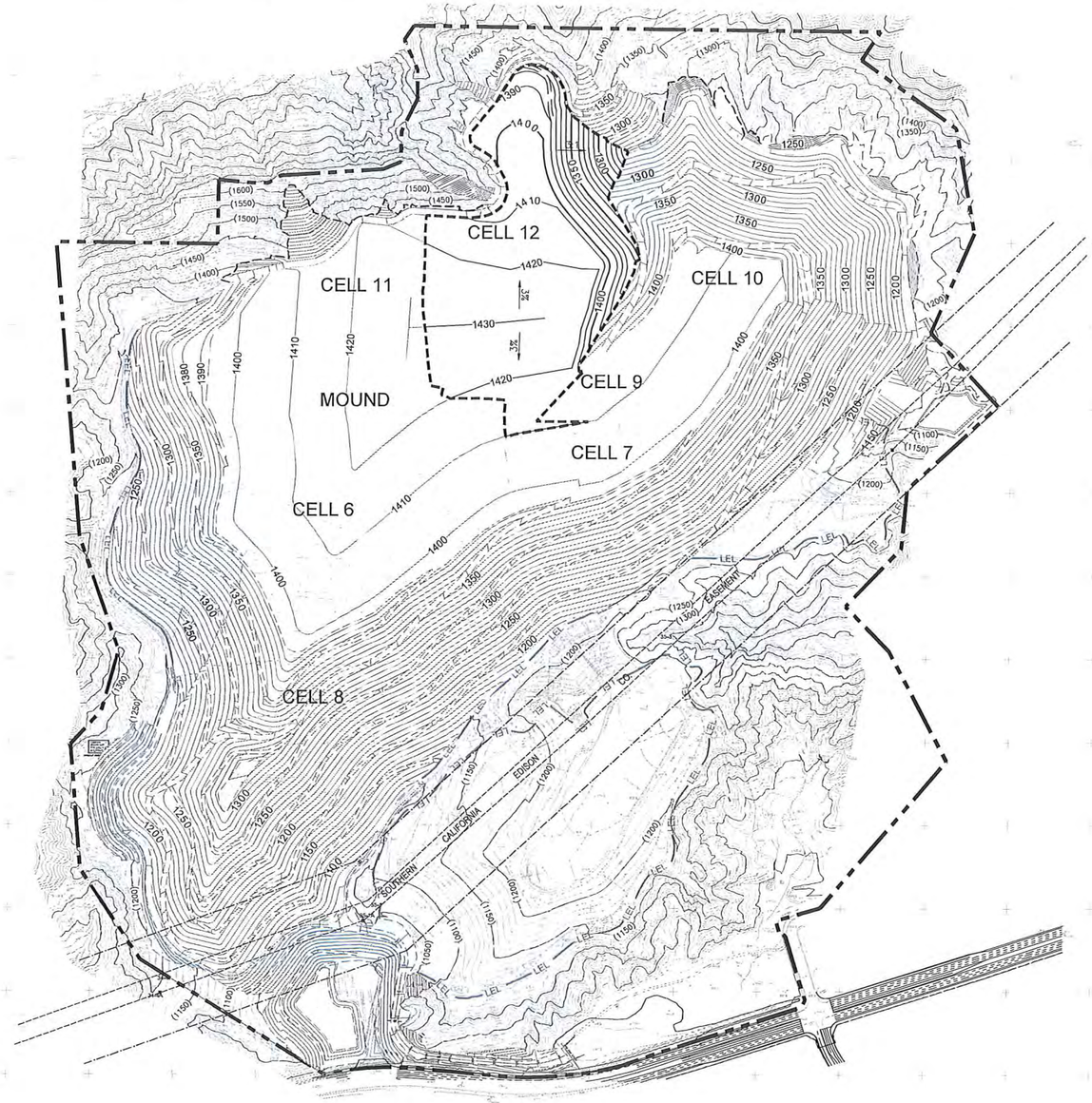
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS

CELL 11 FILL PLAN

FIGURE NO. 4.6

PROJECT NO. S017.1235

D:\Projects\2013\2013.0094\01_CAD\EL_GLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.6 - CELL 11 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By glo-user



LEGEND

- PROPERTY BOUNDARY
- LOR LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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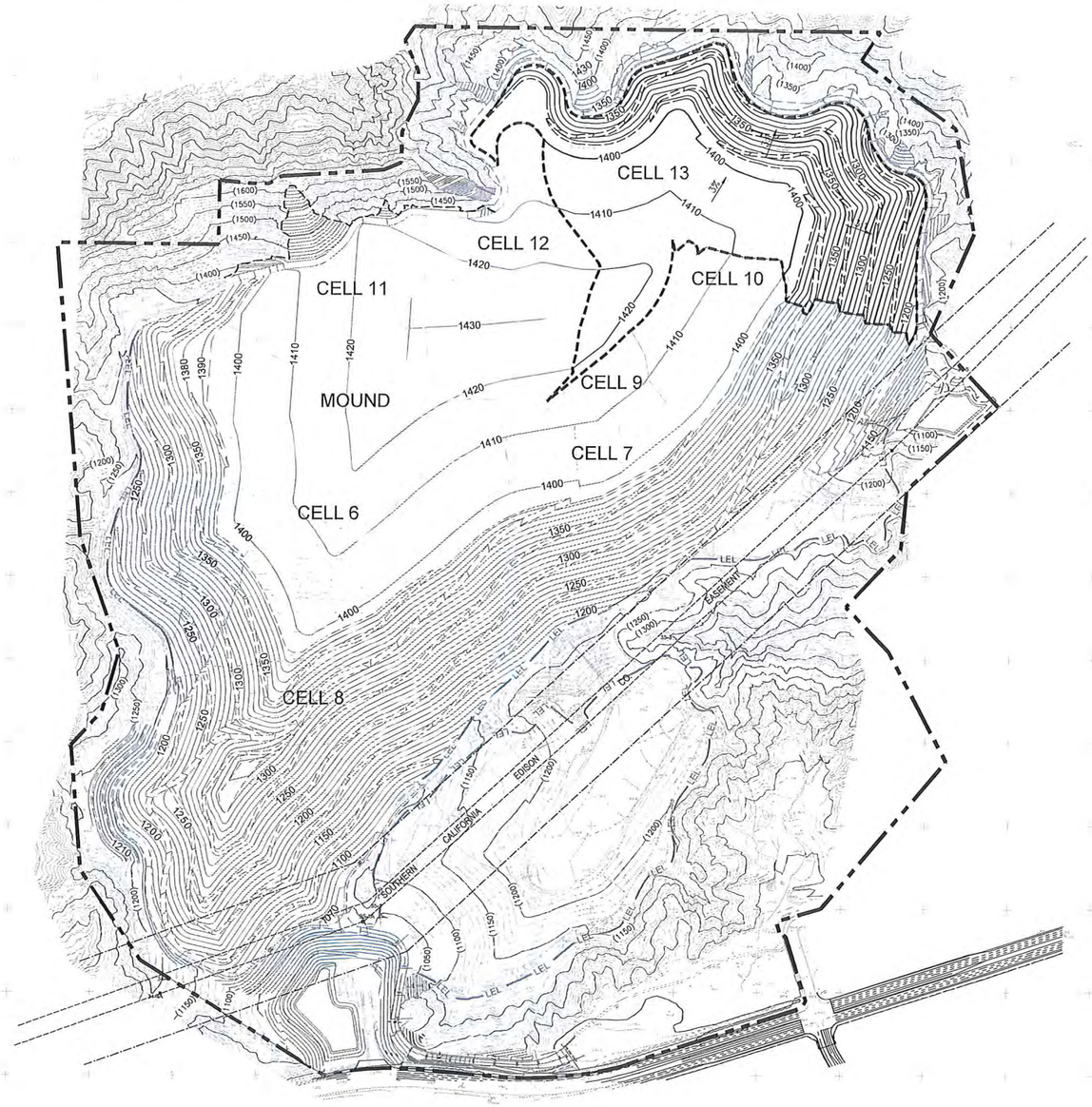
CELL 12 FILL PLAN

FIGURE NO. 4.7

PROJECT NO. S017.1235

D:\Projects\2013\2013.0094\01_CAD\B_CLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.7 - CELL 12 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By: glo-user



LEGEND

- PROPERTY BOUNDARY
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- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

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SCALE: 1" = 800'

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CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS

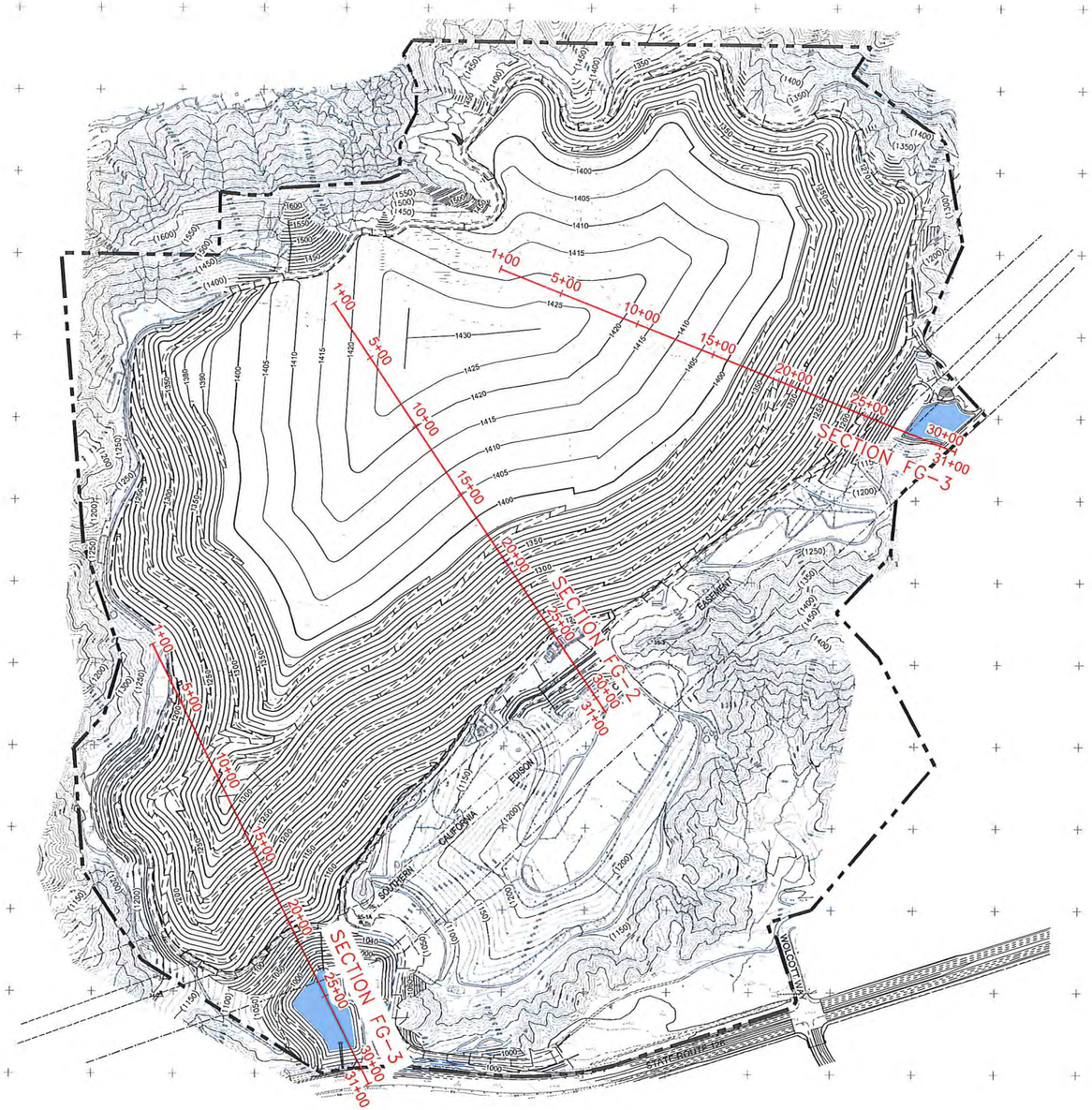
CELL 13 FILL PLAN

FIGURE NO.
4.8
PROJECT NO.
S017.1235

D:\Projects\2013\2013.0094\01_CAD\B_GLA-DWGS\STABILITY BUTTRESS SET\FIGURE 4.8 - CELL 13 FILL PLAN.dwg Nov 12, 2017 - 8:11pm By gla-user

LEGEND

- PROPERTY BOUNDARY
- LOR LOR LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 PROPOSED CONTOUR WITH ELEVATION
- LEL LEL EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY



800' 0' 400' 800' 1600'

SCALE: 1" = 800'

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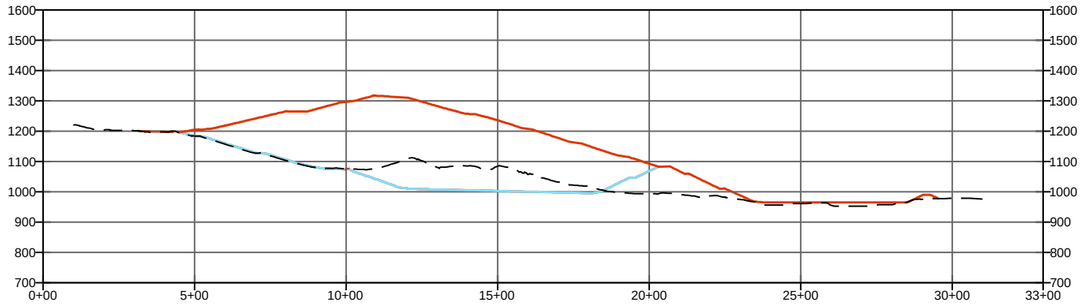
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA
STABILITY BUTTRESS ANALYSIS
FINAL GRADING PLAN

FIGURE NO. 5

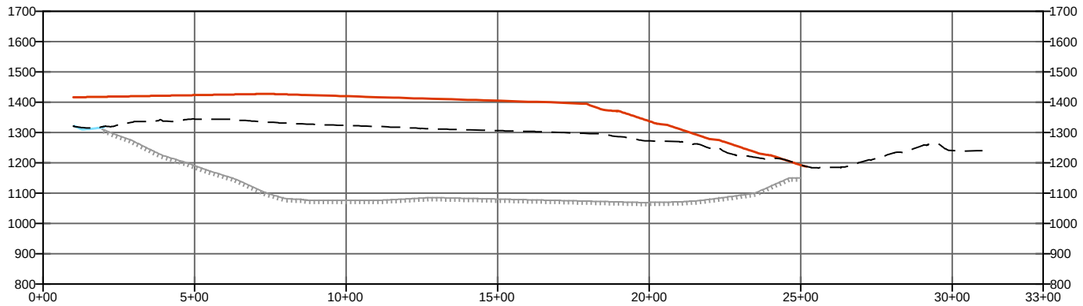
PROJECT NO. S017.1235

D:\Projects\2013\2013.0094\01_CAD\2_GLA-DWGS\STABILITY BUTTRESS SET\FIGURE 5 - FINAL GRADING PLAN.dwg Nov 12, 2017 - 8:11am By glo-user

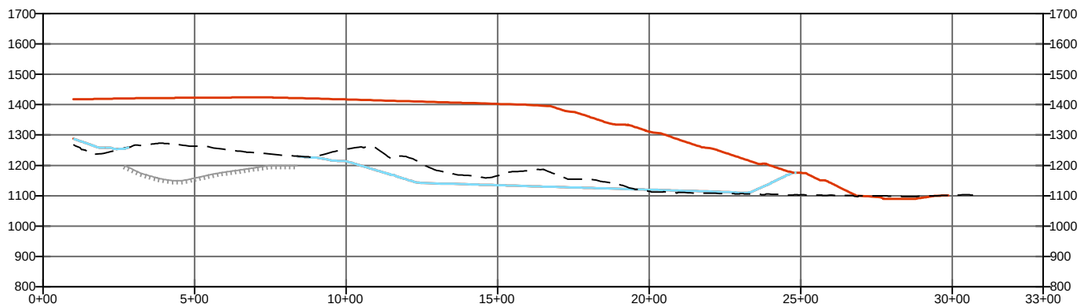
SECTION FG-1



SECTION FG-2



SECTION FG-3



LEGEND

- LINER EXISTING
- LINER PROPOSED
- MOUND FILL
- CELL 6 FILL
- CELL 7 FILL
- CELL 8 FILL
- CELL 9 FILL
- CELL 10 FILL
- CELL 11 FILL
- CELL 12 FILL
- EXISTING GROUND

500' 0' 250' 500'

SCALE: 1" = 500'

FINAL GRADING X-SECTIONS

CHIQUITA CANYON LANDFILL
FILL SEQUENCE PLANS
COUNTY OF LOS ANGELES, CA

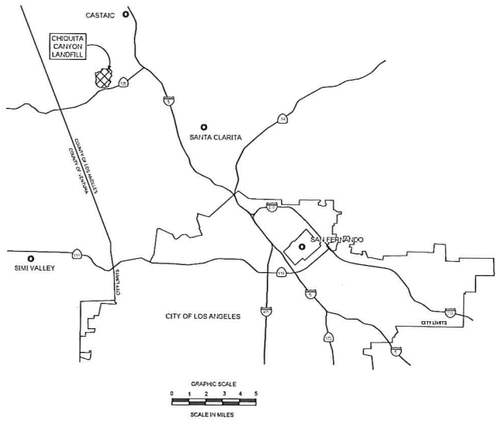
Geo-Logic ASSOCIATES

DRAWN BY: JA	DATE: OCTOBER 2017	JOB NO. 2013.0094

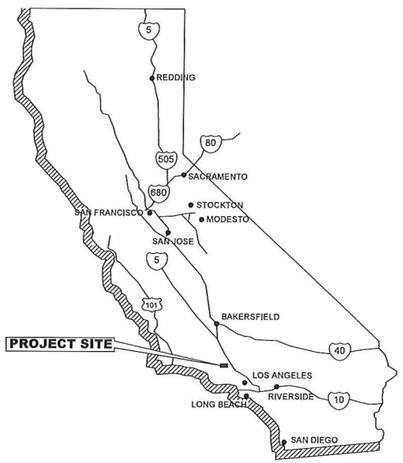
Appendix A
FILL SEQUENCE PLAN DRAWINGS

MASTER DEVELOPMENT PLAN
FILL SEQUENCE PLANS

CHIQUITA CANYON LANDFILL
29201 HENRY MAYO DR. CASTAIC CA 91384
OCTOBER 2017



VICINITY MAP



STATE LOCATION MAP
N.T.S.



600' 0' 300' 600' 1200'
SCALE: 1" = 600'

INDEX TO SHEETS

SHEET	TITLE
T1	TITLE SHEET
01	EXISTING TOPOGRAPHY
02	PROPOSED PHASING LIMITS
03	MASTER EXCAVATION PLAN
04	CURRENT MOUND FILL PLAN
05	CELL 6 LINER PLAN
06	CELL 6 FILL PLAN
07	CELL 7 LINER PLAN
08	CELL 7 FILL PLAN
09	CELL 8 LINER PLAN
10	CELL 8 FILL PLAN
11	CELL 9 LINER PLAN
12	CELL 9 FILL PLAN
13	CELL 10 LINER PLAN
14	CELL 10 FILL PLAN
15	CELL 11 LINER PLAN
16	CELL 11 FILL PLAN
17	CELL 12 LINER PLAN
18	CELL 12 FILL PLAN
19	CELL 13 LINER PLAN
20	CELL 13 FILL PLAN

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APPROVED BY: R JOHNSON

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TITLE SHEET

DWG NO. T1
PROJECT NO. S017.1235

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LEGEND

- PROPERTY BOUNDARY
- LOR LOR ..... LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 PROPOSED CONTOUR WITH ELEVATION
- LEL LEL EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

400' 0' 200' 400' 800'

SCALE: 1" = 400'

ISSUED FOR REVIEW

REFERENCE AERIAL TOPO BASED ON MARCH 13, 2017 AERIAL SURVEY BY COOPER AERIAL

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EXISTING TOPOGRAPHY

DWG NO. 01

PROJECT NO. S017.1235

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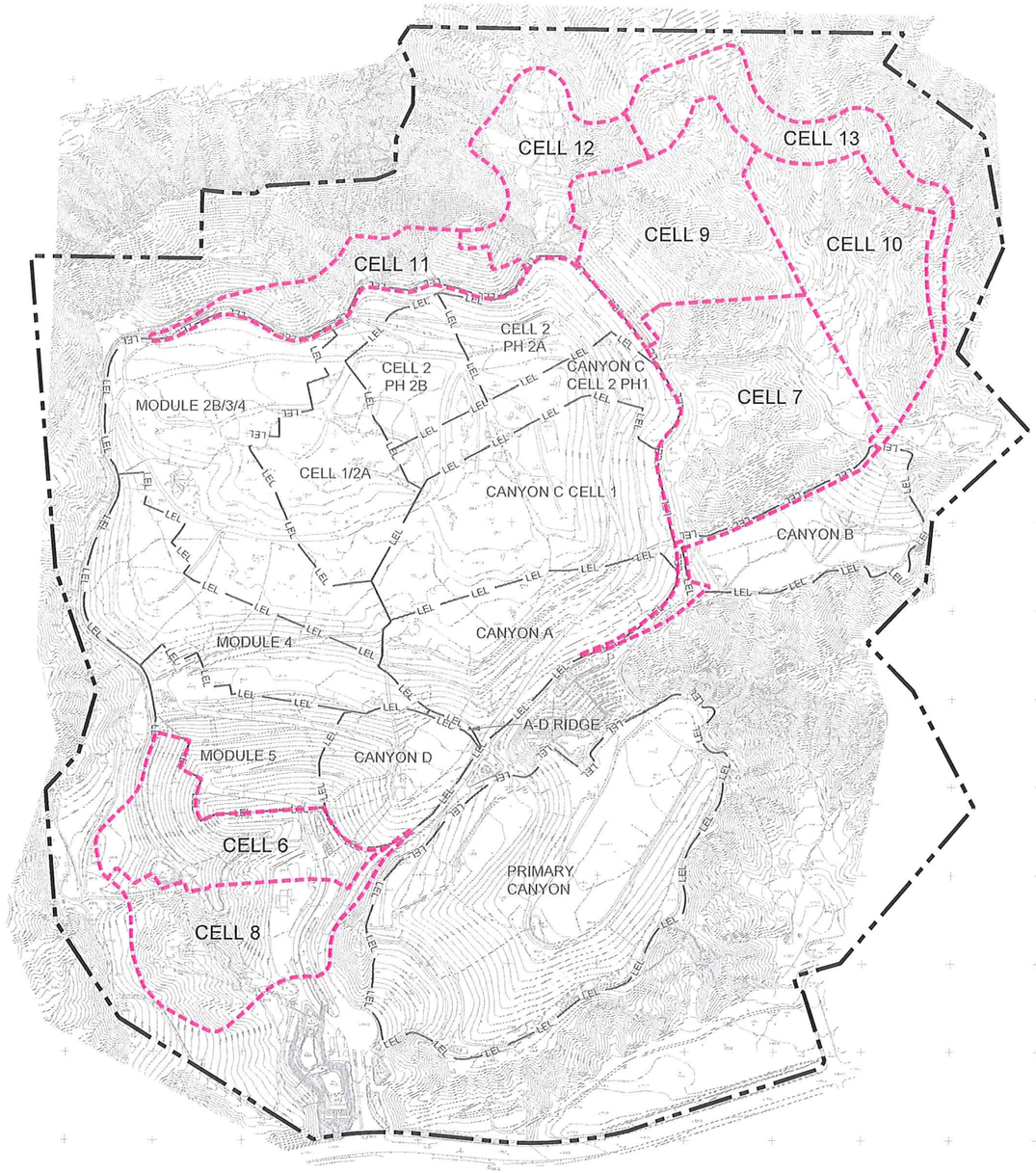

LEGEND

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PROPOSED PHASING LIMITS

DWG NO. 02

PROJECT NO. S017.1235

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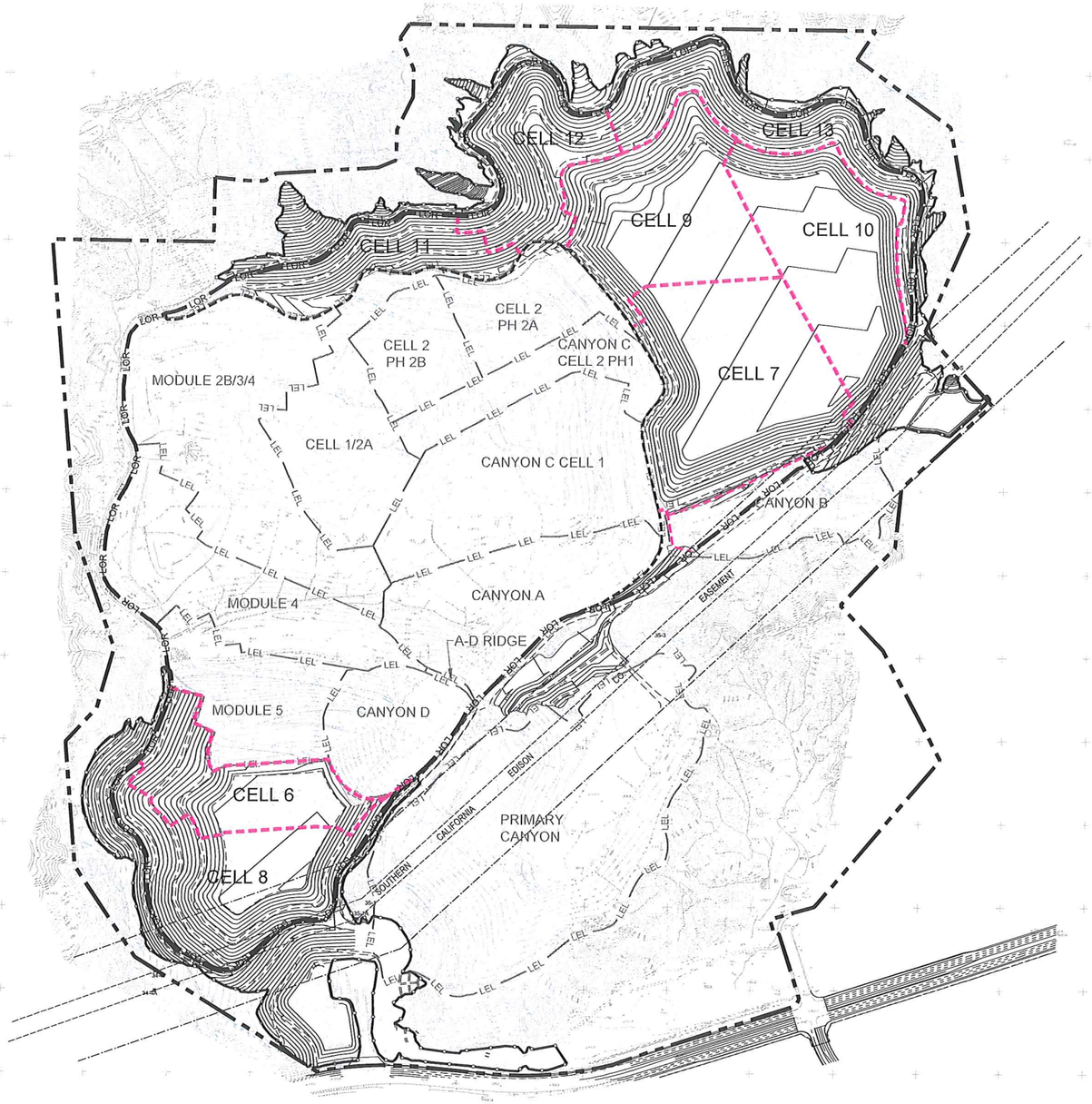

LEGEND

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MASTER EXCAVATION PLAN

DWG NO. 03

PROJECT NO. SO17.1235

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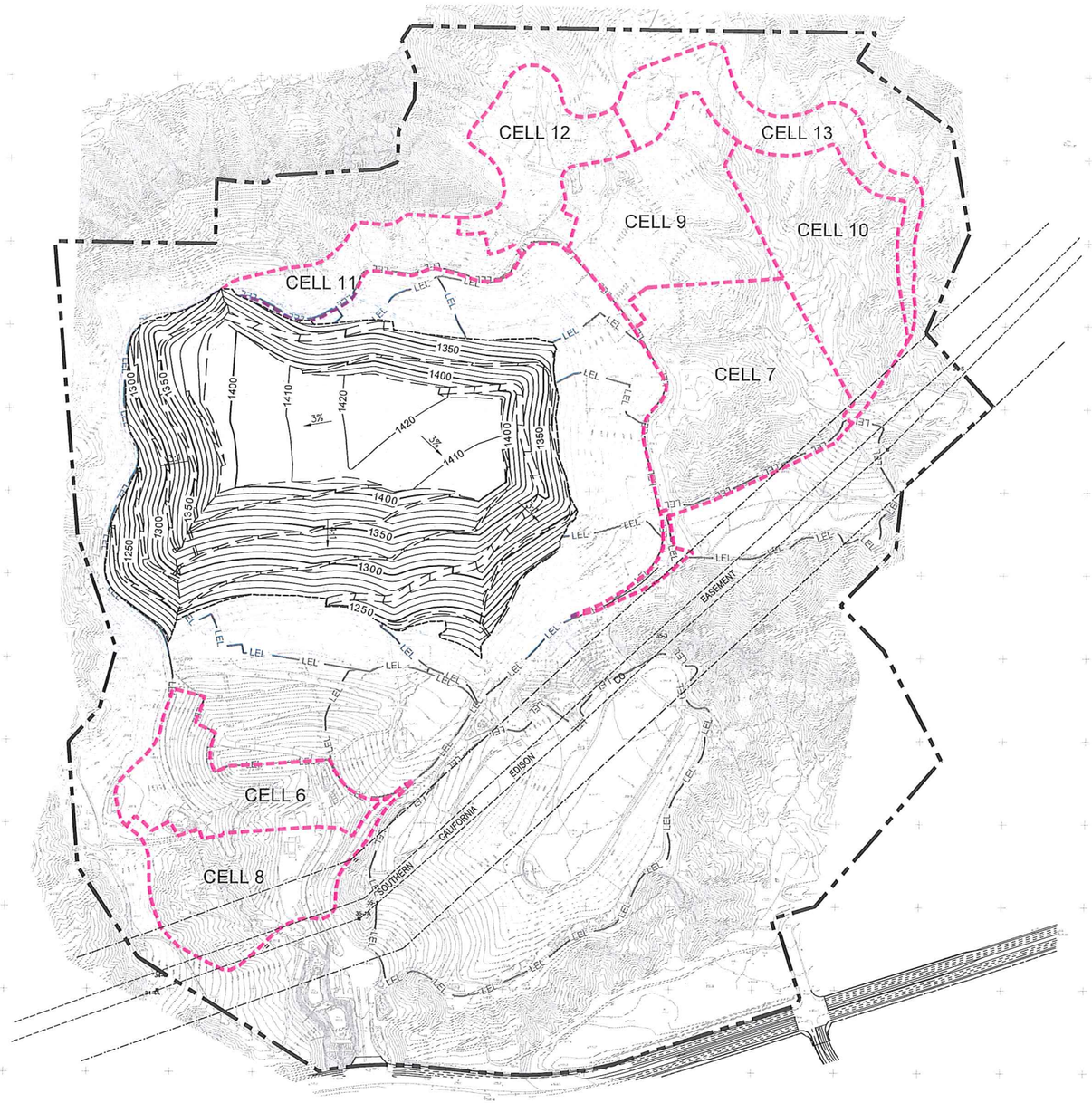

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CURRENT MOUND FILL PLAN

DWG NO. 04

PROJECT NO. SO17.1235

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NO CHANGE



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CELL 6 LINER PLAN

DWG NO. 05

PROJECT NO. S017.1235

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ADD SECTION 6-1 LINE



LEGEND

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- LIMIT OF REFUSE PER .....
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CELL 6 FILL PLAN

DWG NO. 06

PROJECT NO. S017.1235

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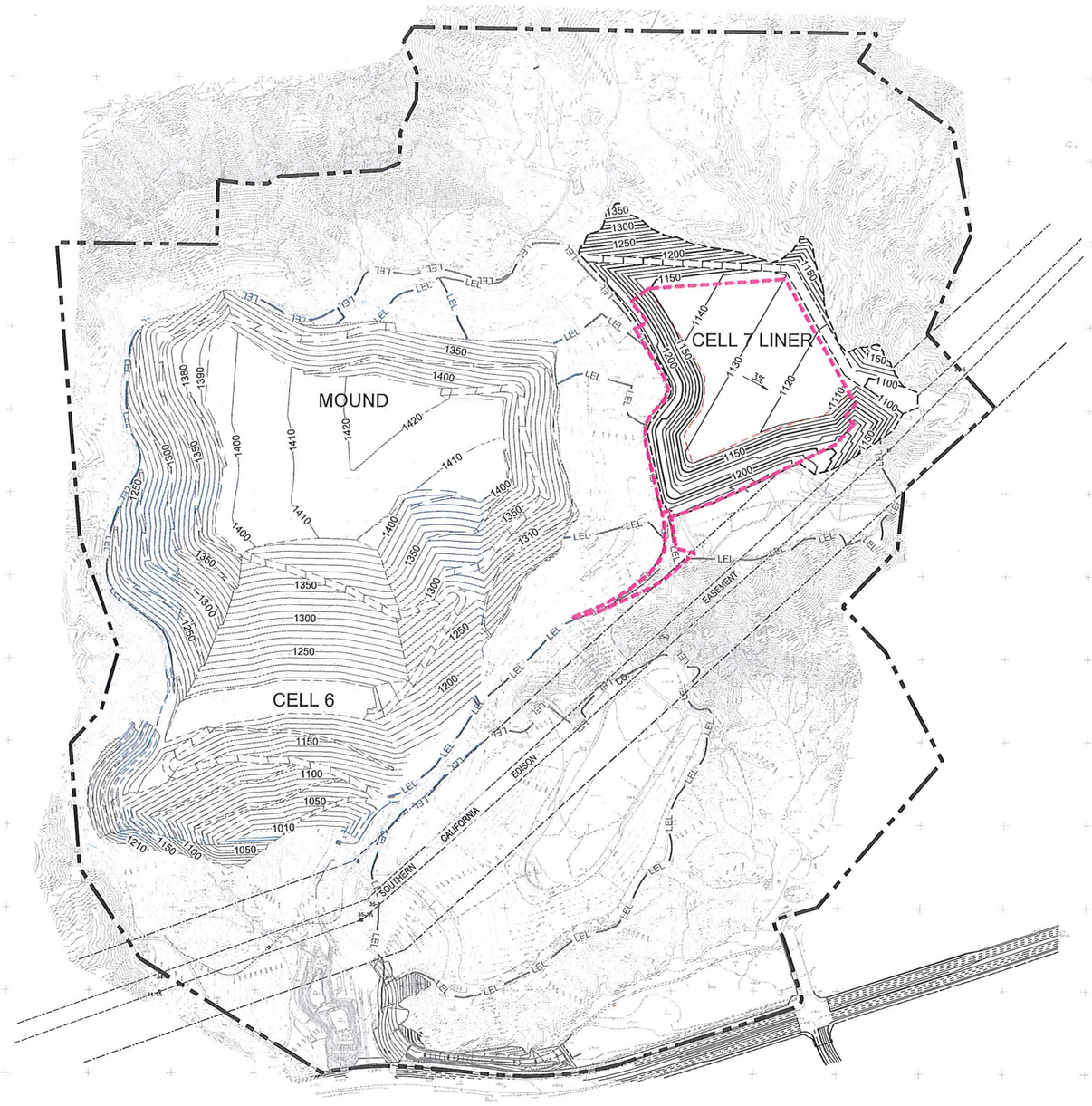
NO CHANGE



LEGEND

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CELL 7 LINER PLAN

DWG NO. 07

PROJECT NO. S017.1235

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LEGEND

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CELL 7 FILL PLAN

DWG NO. 08

PROJECT NO. S017.1235

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LEGEND

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CELL 8 LINER PLAN

DWG NO. 09

PROJECT NO. SO17.1235

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LEGEND

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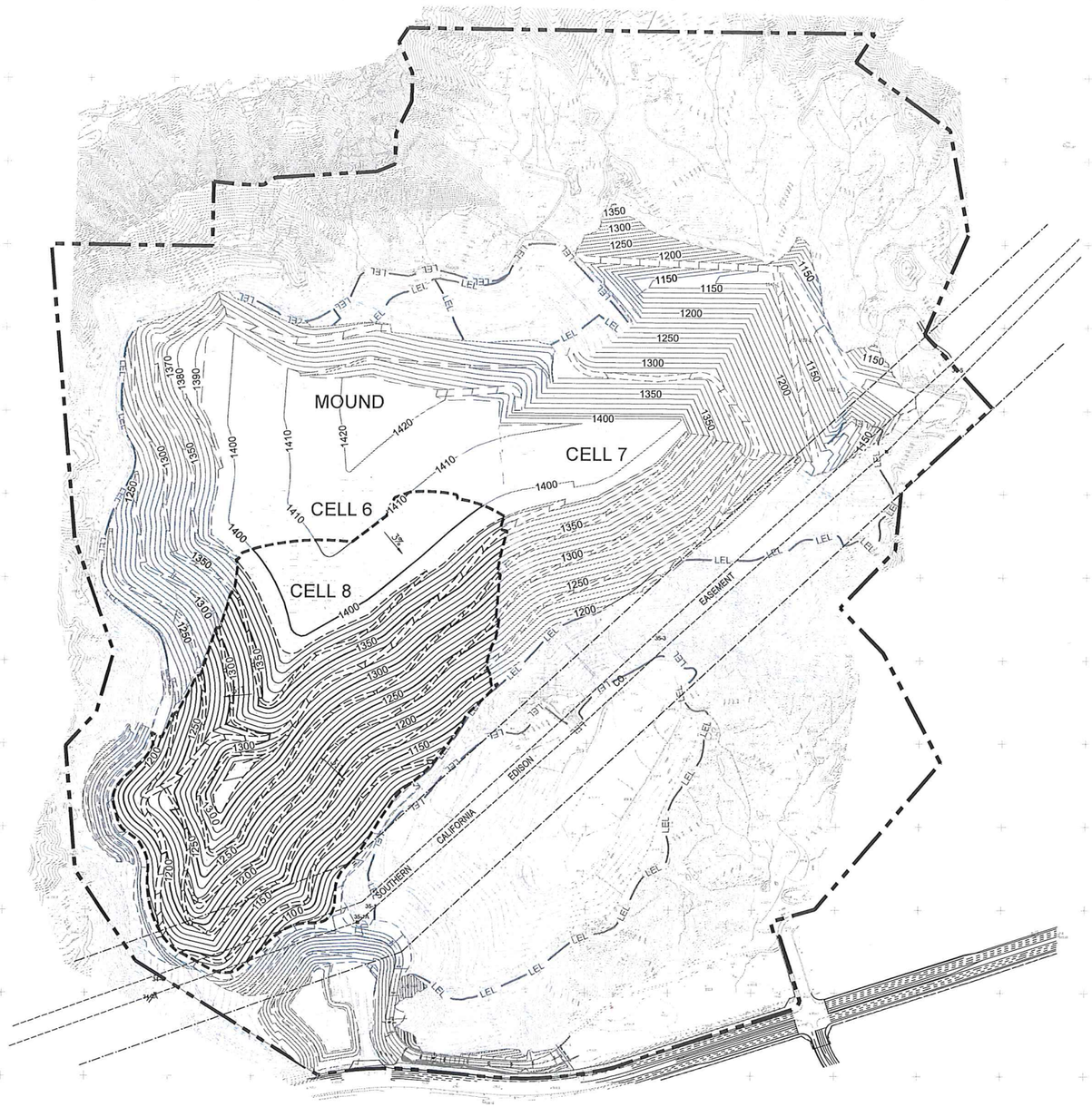

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CELL 8 FILL PLAN

DWG NO. 10

PROJECT NO. S017.1235

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LEGEND

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CELL 9 LINER PLAN

DWG NO. 11
PROJECT NO. S017.1235

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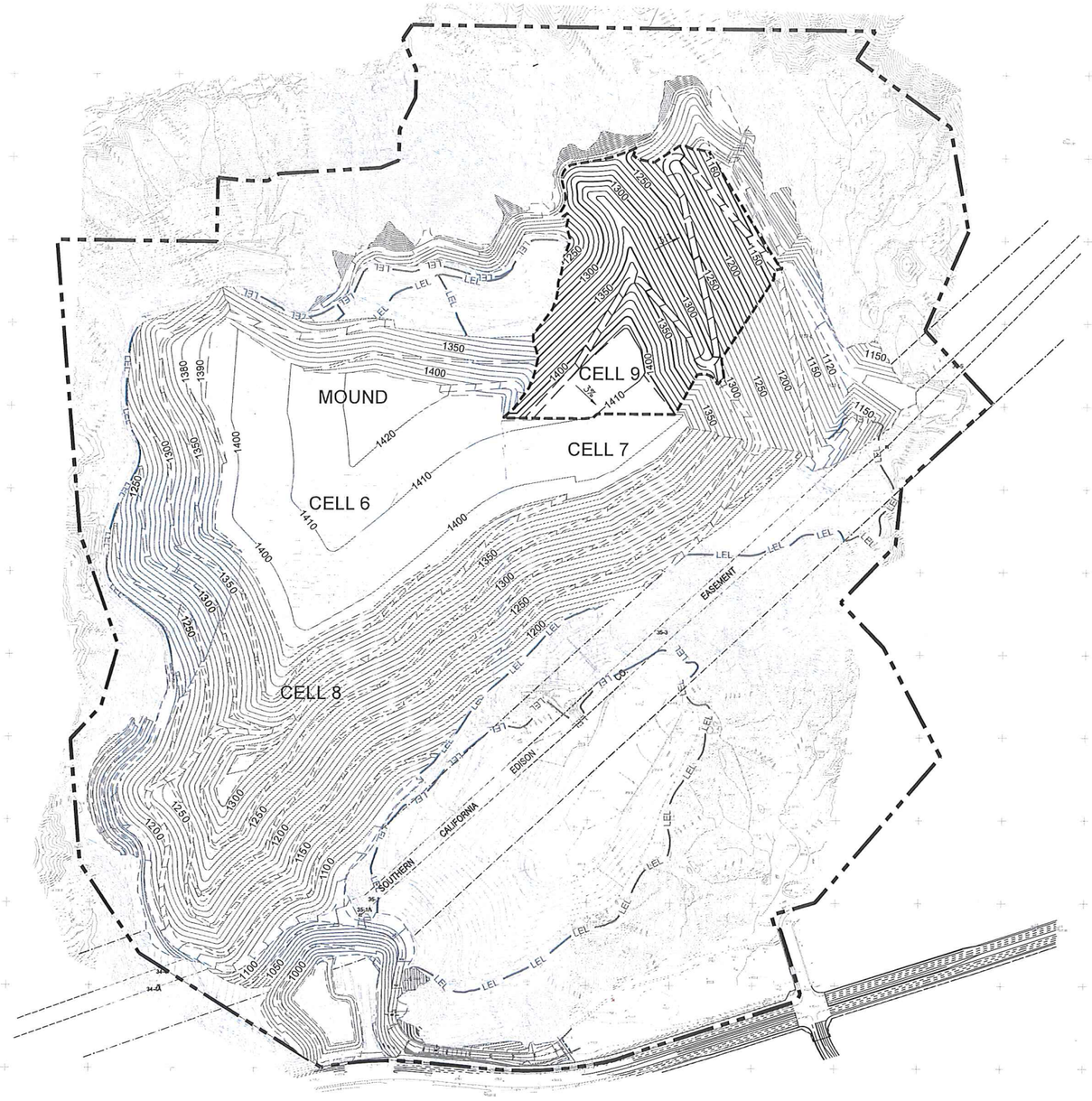

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CELL 9 FILL PLAN

DWG NO. 12

PROJECT NO. S017.1235

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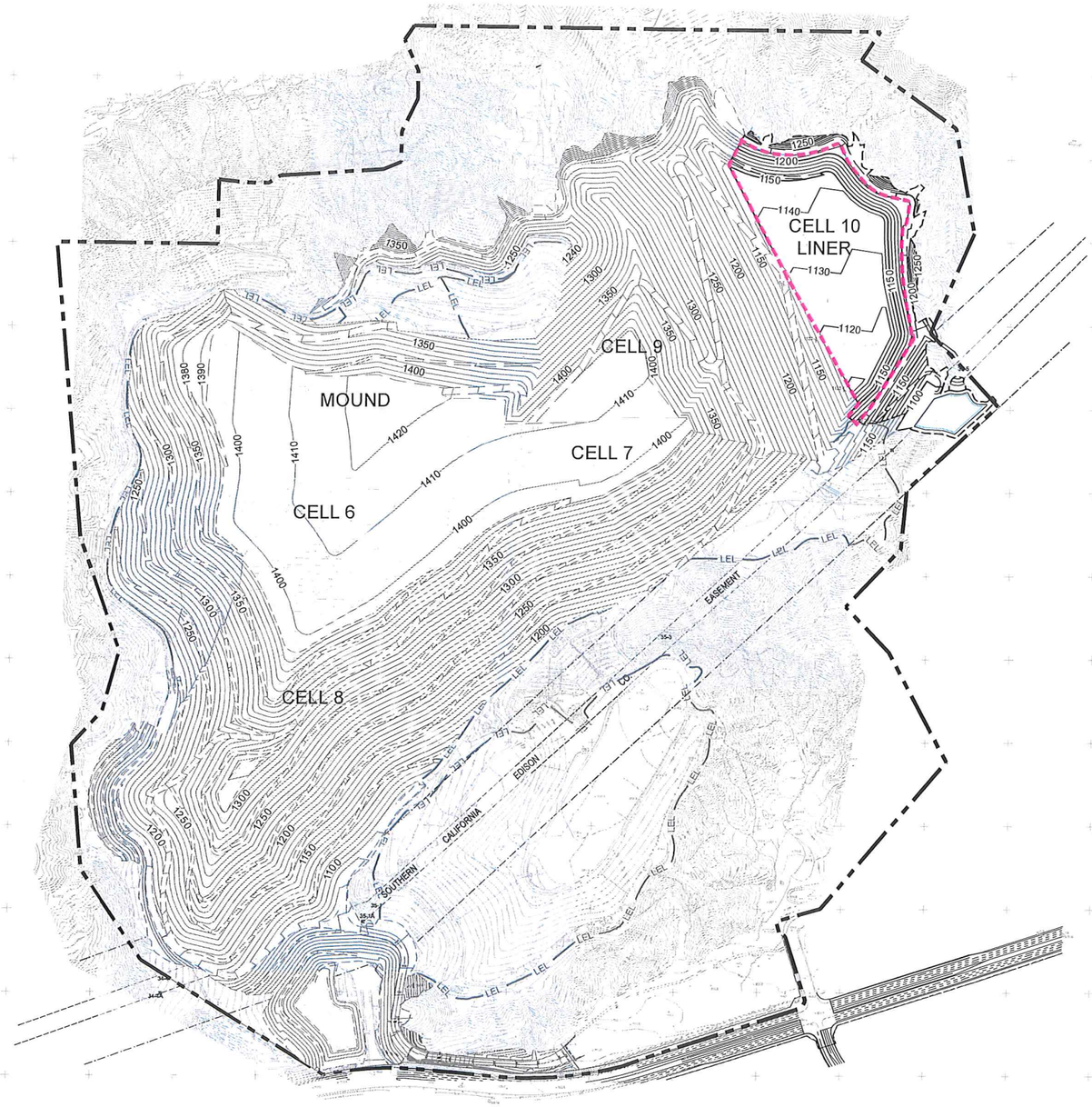

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CASTAIC, CALIFORNIA

CELL 10 LINER PLAN

DWG NO. 13

PROJECT NO. SO17.1235

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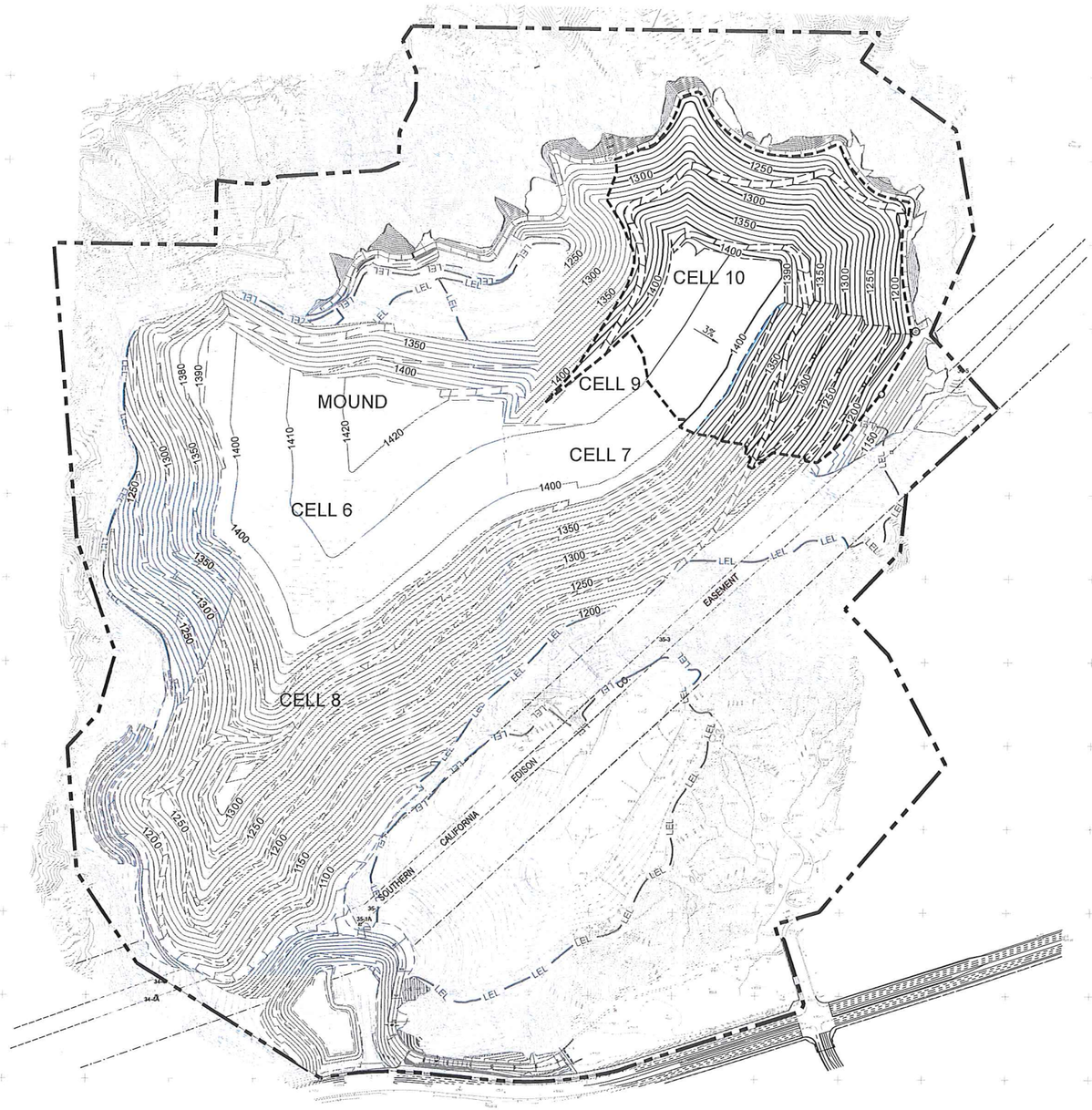

LEGEND

- PROPERTY BOUNDARY
- LOR LOR — LIMIT OF REFUSE PER .....
- PROPOSED LINER LIMIT
- INTERIM LINER LIMIT
- LINER SUB-UNIT BOUNDARY
- 1200 — PROPOSED 50 FEET CONTOUR WITH ELEVATION
- 1200 — PROPOSED 10 FEET CONTOUR WITH ELEVATION
- LEL LEL — EXISTING LINER
- SUPPORT AREA GRADING BOUNDARY (NO REFUSE FILL)
- FILL PHASE BOUNDARY

N

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DWG NO. 14

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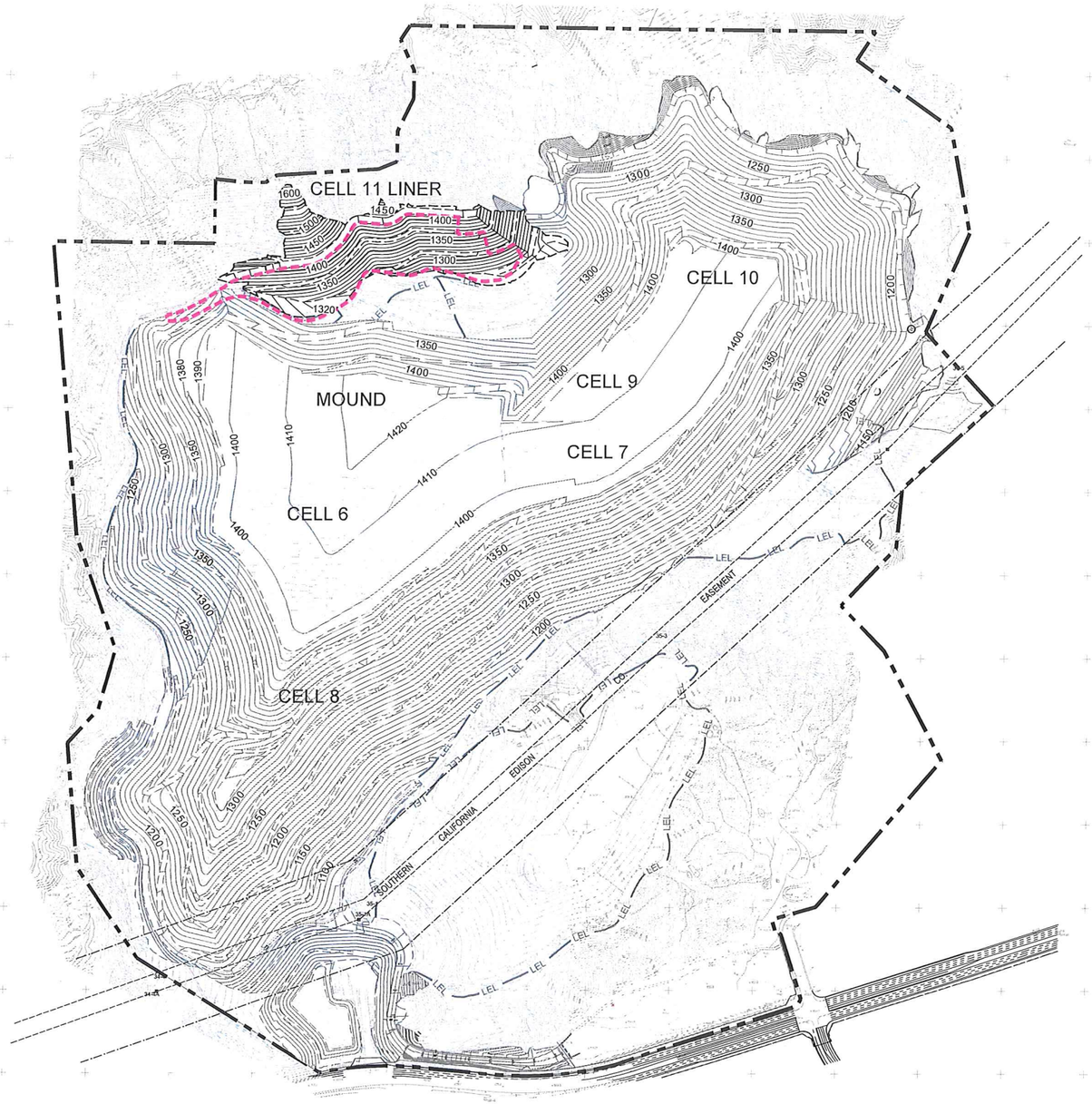

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CELL 11 LINER PLAN

DWG NO. 15

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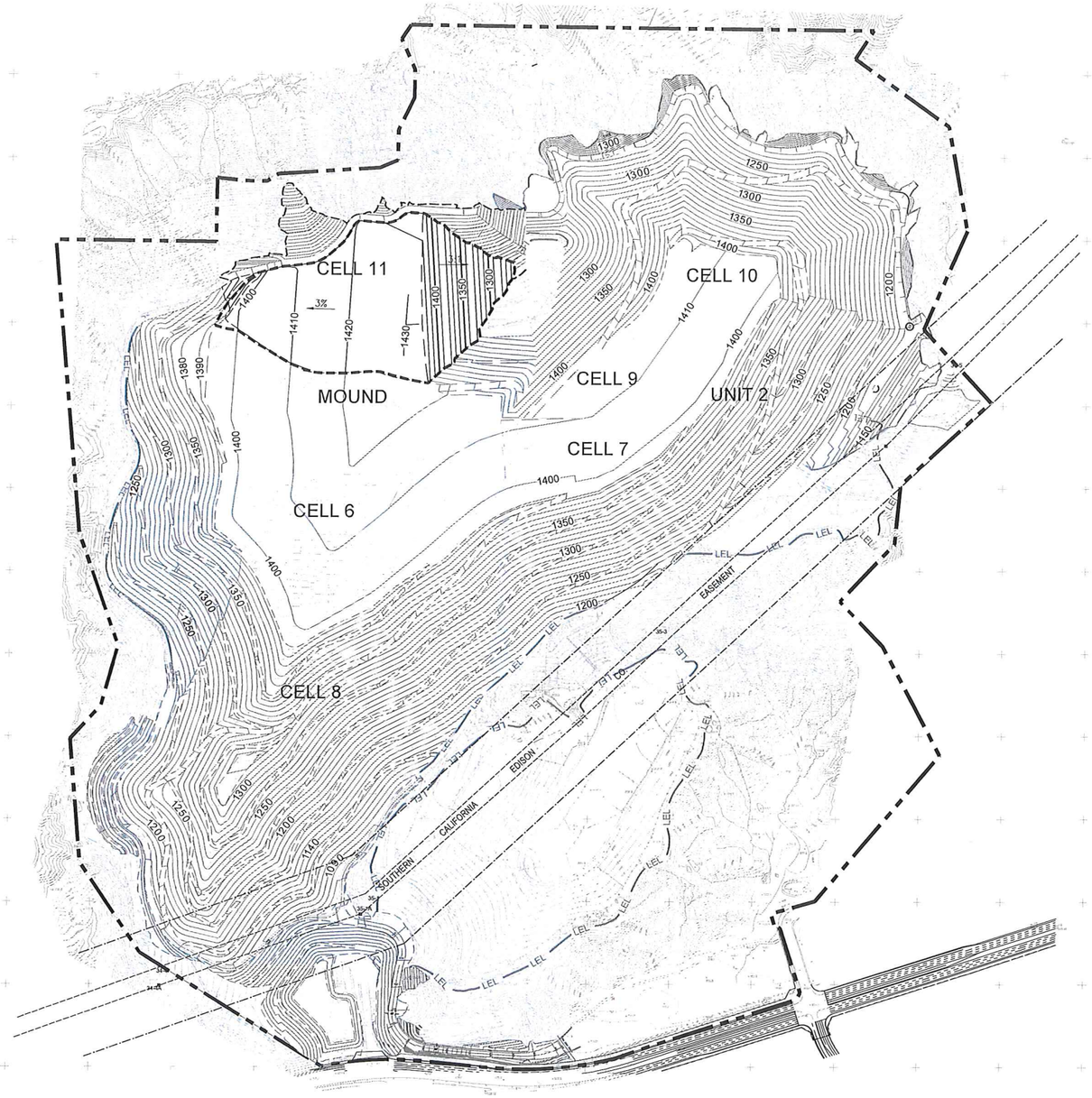

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CELL 11 FILL PLAN

DWG NO. 16

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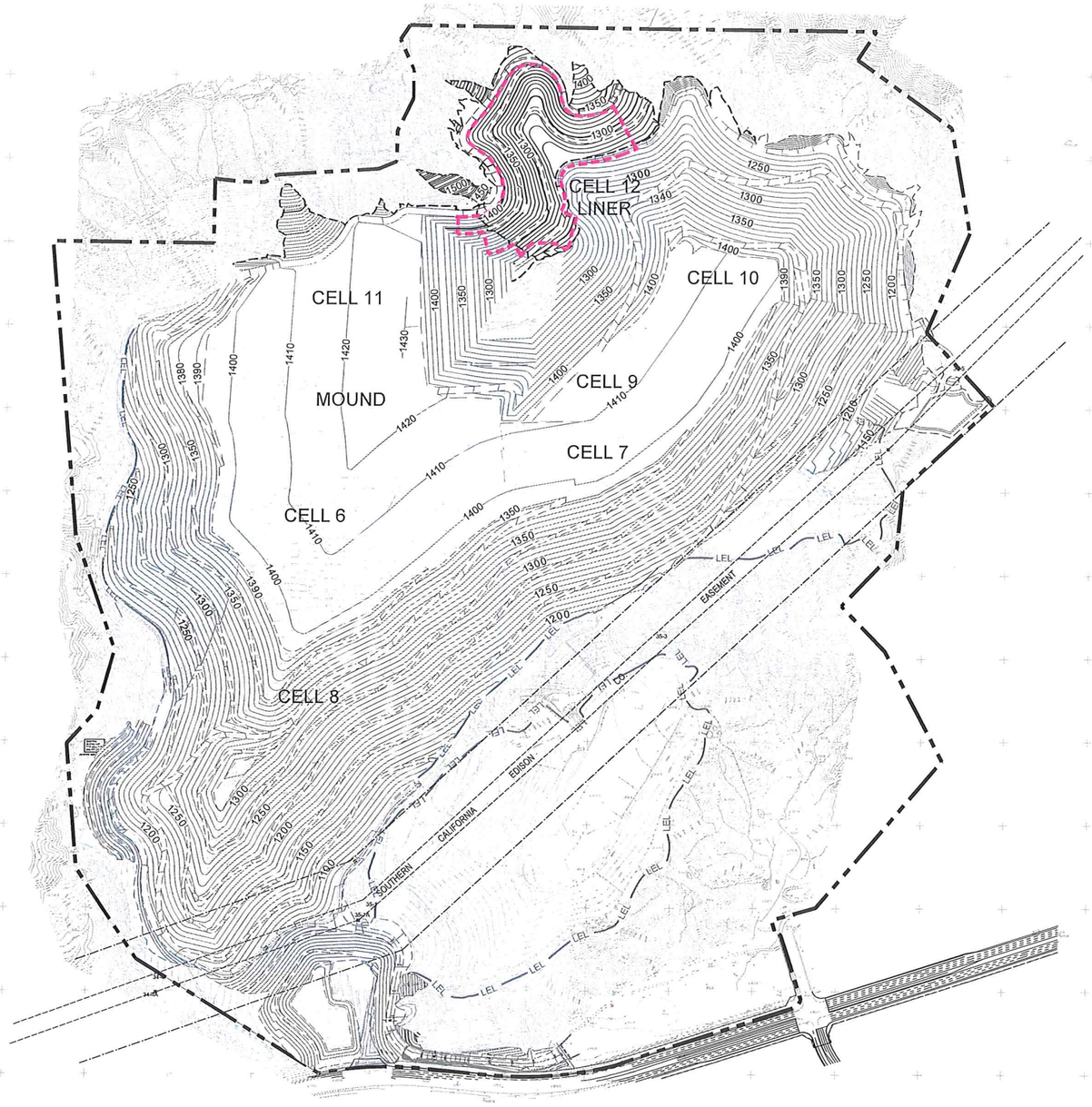

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CELL 12 LINER PLAN

DWG NO. 17

PROJECT NO. S017.1235

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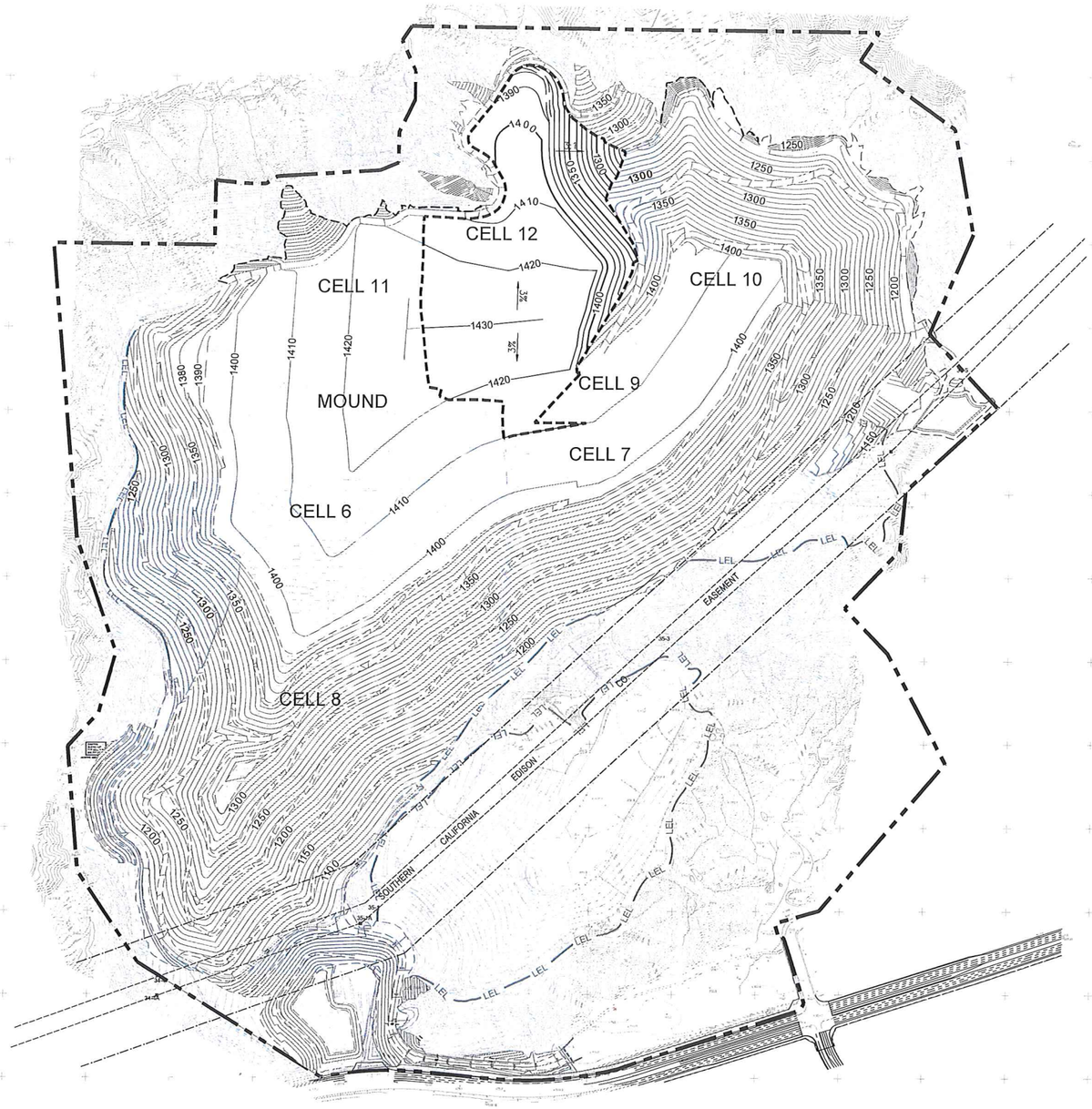

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CELL 12 FILL PLAN

DWG NO. 18

PROJECT NO. S017.1235

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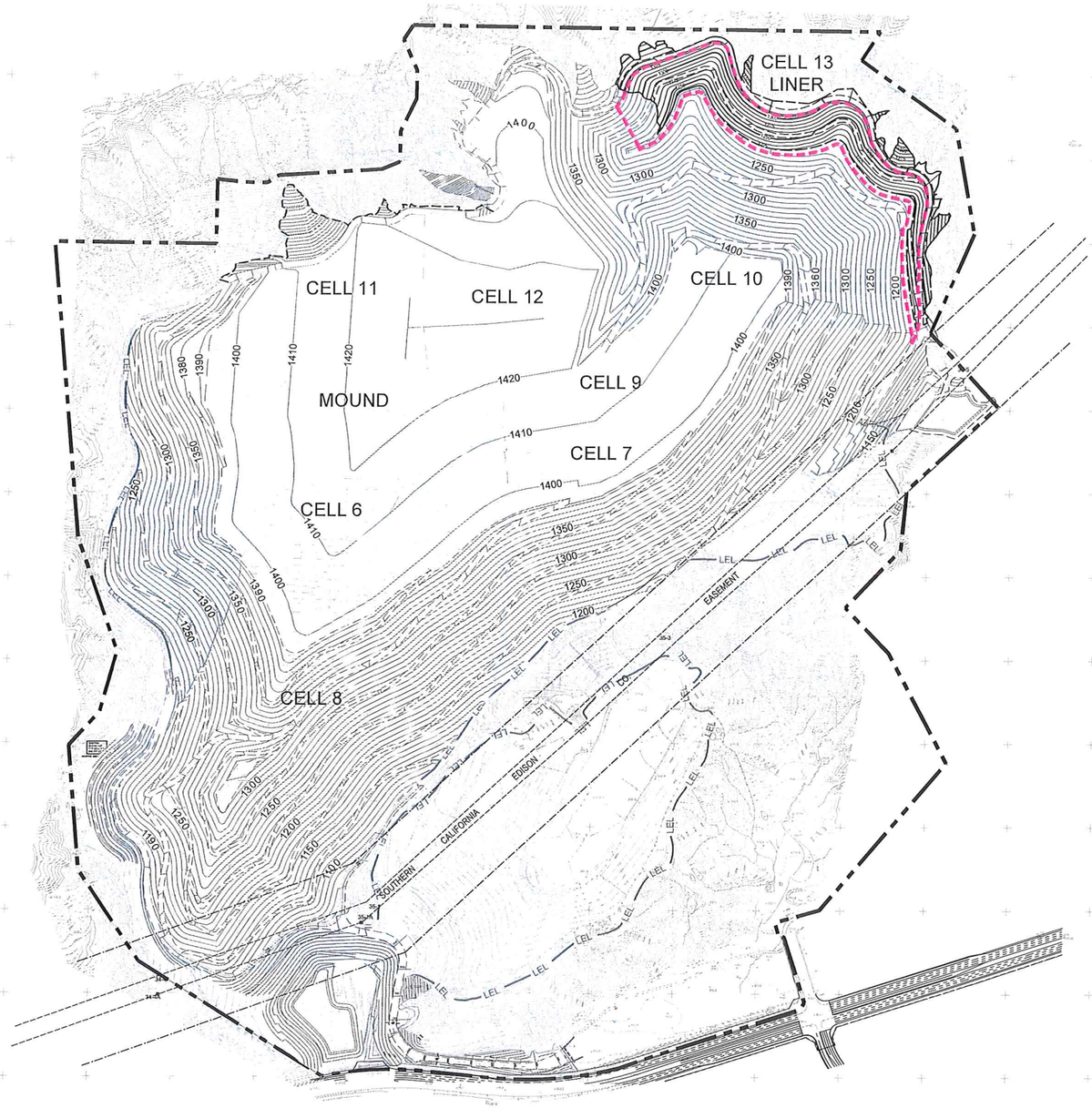

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CELL 13 LINER PLAN

DWG NO. 19

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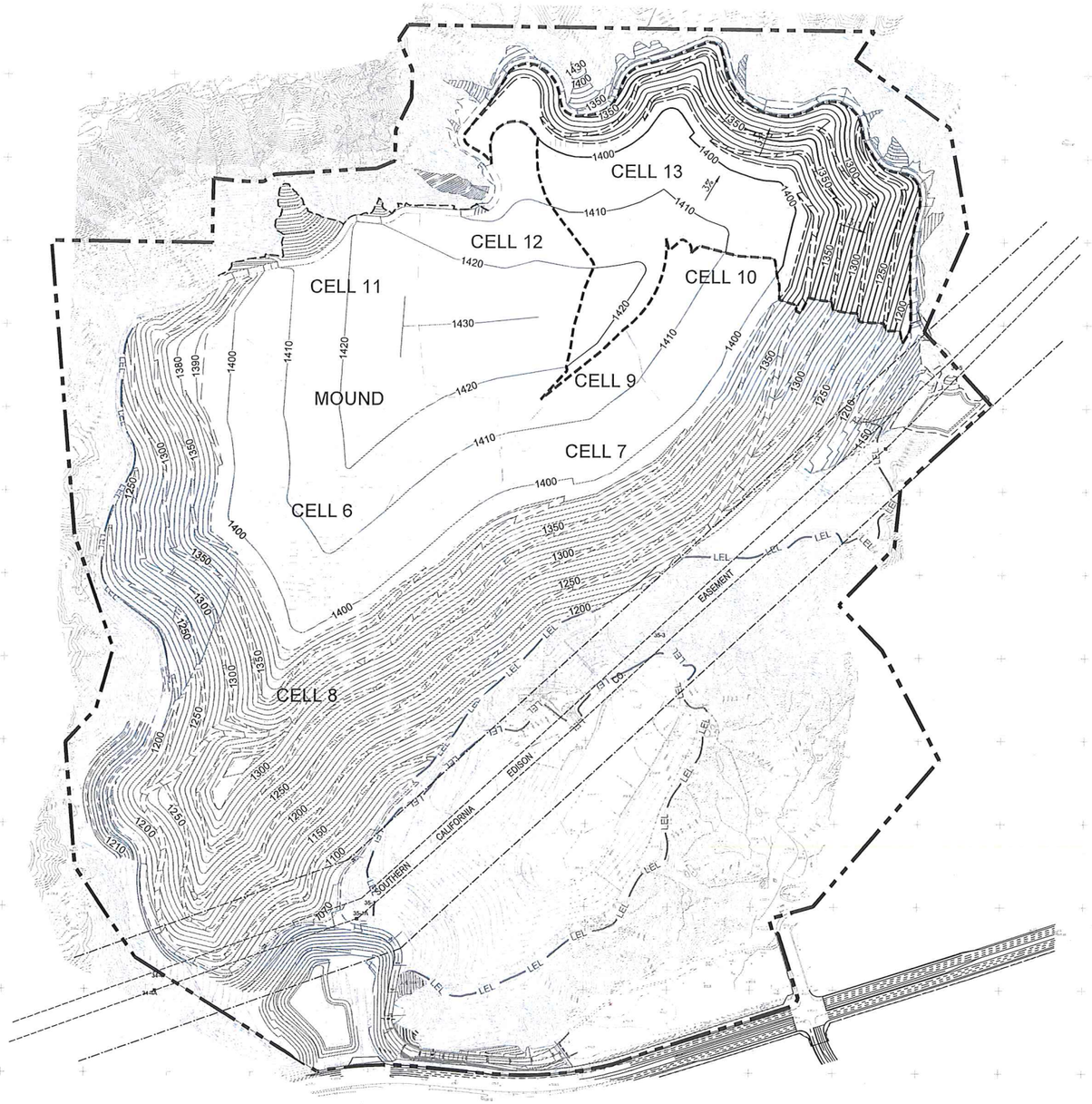

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CELL 13 FILL PLAN

DWG NO. 20
PROJECT NO. SO17.1235

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Appendix B
KOERNER AND NAJERO GEOSYNTHETIC SHEAR STRENGTH DATA

Appendix - Acronyms, Summary Table, and Individual Mohr-Coulomb Figures

*Acronyms

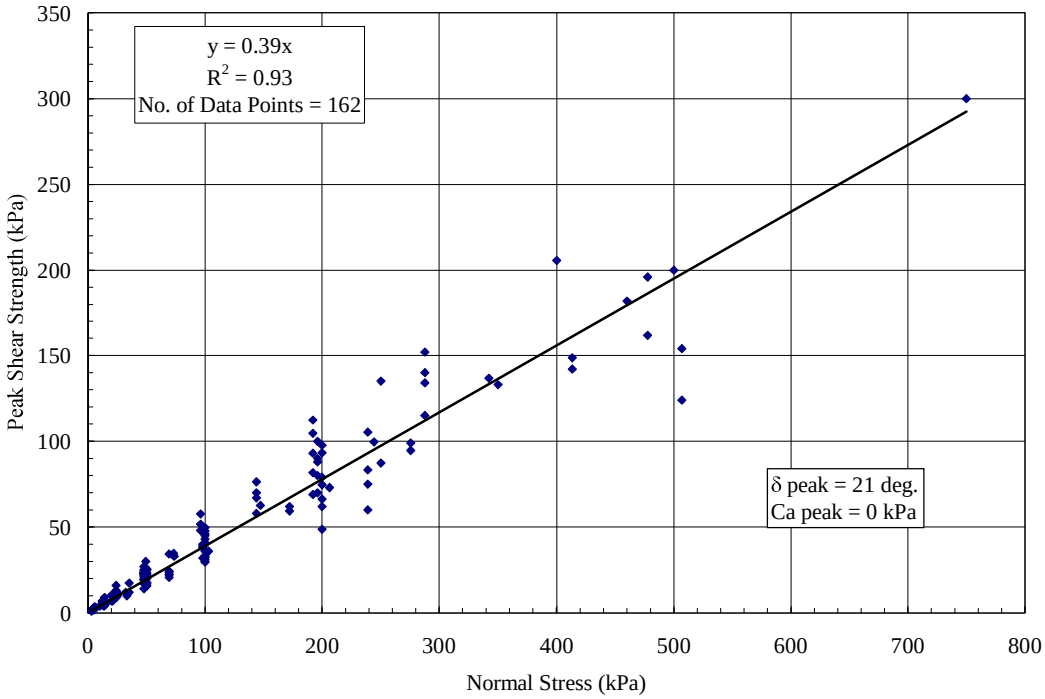
HDPE -S = high density polyethylene, smooth surface
HDPE-T = high density polyethylene, textured surface
LLDPE -S = linear low density polyethylene, smooth surface
LLDPE-T = linear low density polyethylene, textured surface
PVC-S = polyvinyl chloride, smooth surface
PVC-F = polyvinyl chloride, faille surface
CSPE-R = chlorosulfonated polyethylene, scrim reinforced
NW-NP GT = nonwoven needlepunched geotextile
NW-HB GT = nonwoven heatbonded geotextile
Woven GT = woven geotextile
W-SF GT = woven slit film geotextile

Appendix Table 1. Summary of interface shear strengths.

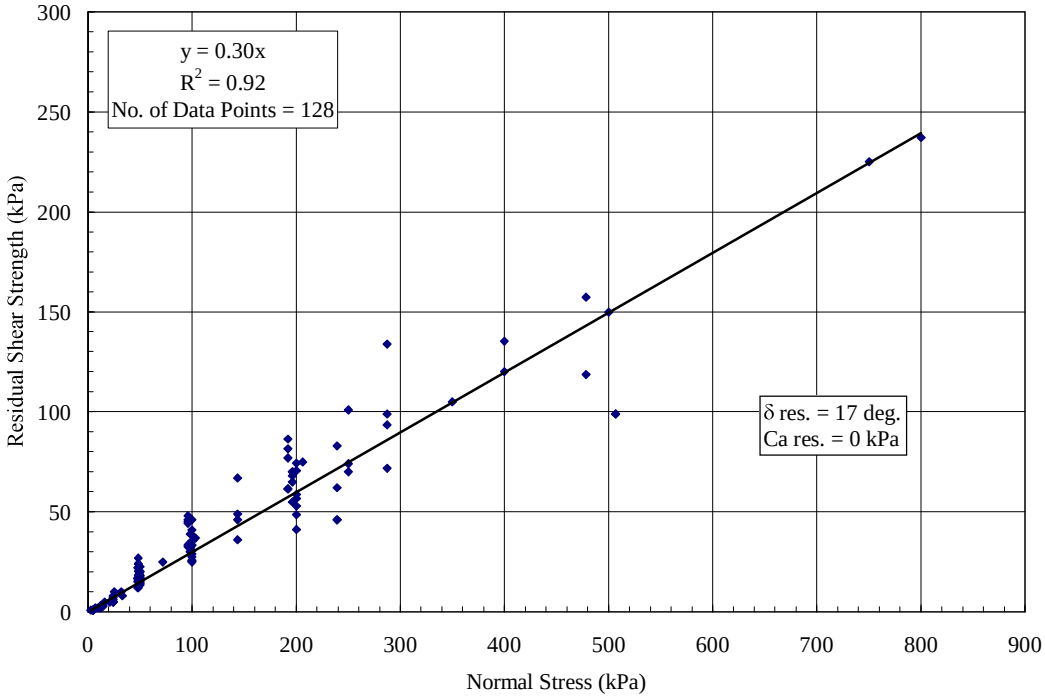
Interface 1*	Interface 2*	Peak Strength					Residual Strength				
		Fig. No.	δ (deg)	Ca (kPa)	Points	R^2	Fig. No.	δ (deg)	Ca (kPa)	Points	R^2
HDPE-S	Granular Soil	1a	21	0	162	0.93	1b	17	0	128	0.92
HDPE-S	Cohesive Soil										
	Saturated	1c	11	7	79	0.94	1d	11	0	59	0.95
	Unsaturated	1c	22	0	44	0.93	1d	18	0	32	0.93
HDPE-S	NW-NP GT	1e	11	0	149	0.93	1f	9	0	82	0.96
HDPE-S	Geonet	1g	11	0	196	0.90	1h	9	0	118	0.93
HDPE-S	Geocomposite	1i	15	0	36	0.97	1j	12	0	30	0.93
HDPE-T	Granular Soil	2a	34	0	251	0.98	2b	31	0	239	0.96
HDPE-T	Cohesive Soil										
	Saturated	2c	18	10	167	0.93	2d	16	0	150	0.90
	Unsaturated	2c	19	23	62	0.91	2d	22	0	35	0.93
HDPE-T	NW-NP GT	2e	25	8	254	0.96	2f	17	0	217	0.95
HDPE-T	Geonet	2g	13	0	31	0.99	2h	10	0	27	0.99
HDPE-T	Geocomposite	2i	26	0	168	0.95	2j	15	0	164	0.94
LLDPE-S	Granular Soil	3a	27	0	6	1.00	3b	24	0	9	1.00
LLDPE-S	Cohesive Soil	3c	11	12.4	12	0.94	3d	12	3.7	9	0.93
LLDPE-S	NW-NP GT	3e	10	0	23	0.63	3f	9	0	23	0.49
LLDPE-S	Geonet	3g	11	0	9	0.99	3h	10	0	9	1.00
LLDPE-T	Granular Soil	4a	26	7.7	12	0.95	4b	25	5.2	12	0.95
LLDPE-T	Cohesive Soil	4c	21	5.8	12	1.00	4d	13	7.0	9	0.98
LLDPE-T	NW-NP GT	4e	26	8.1	9	1.00	4f	17	9.5	9	0.96
LLDPE-T	Geonet	4g	15	3.6	6	0.97	4h	11	0	6	0.98
PVC-S	Granular Soil	5a	26	0.4	6	0.99	5b	19	0	6	0.99
PVC-S	Cohesive Soil	5c	22	0.9	11	0.88	5d	15	0	9	0.95
PVC-S	NW-NP GT	5e	20	0	89	0.91	5f	16	0	83	0.74
PVC-S	NW-HB GT	5g	18	0	3	1.00	5h	12	0.1	3	1.00
PVC-S	Woven GT	5i	17	0	6	0.54	5j	7	0	6	0.93
PVC-S	Geonet	5k	18	0.1	3	1.00	5l	16	0.6	3	1.00

Appendix Table 1. (continued)

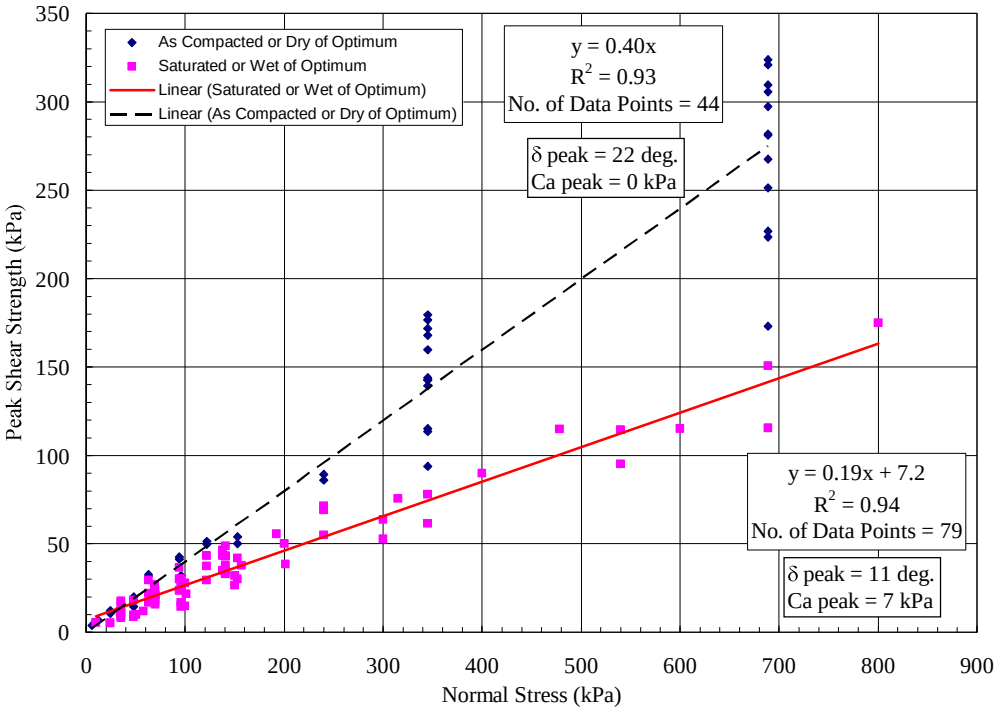
Interface 1*	Interface 2*	Peak Strength					Residual Strength				
		Fig. No.	δ (deg)	Ca (kPa)	Points	R^2	Fig. No.	δ (deg)	Ca (kPa)	Points	R^2
PVC-F	NW-NP GT	6a	27	0.2	26	0.95	6b	23	0	26	0.95
PVC-F	NW-HB GT	6c	30	0	8	0.97	6d	27	0	8	0.90
PVC-F	Woven GT	6e	15	0	6	0.78	6f	10	0	6	0.76
PVC-F	Geonet	6g	25	0	11	1.00	6h	19	0	11	0.99
PVC-F	Geocomposite	6i	27	1.1	5	1.00	6j	22	4.7	6	1.00
CSPE-R	Granular Soil	7a	36	0	3	1.00	7b	16	0	3	1.00
CSPE-R	Cohesive Soil	7c	31	5.7	6	0.71	7d	18	0	6	0.99
CSPE-R	NW-NP GT	7e	14	0	6	0.97	7f	10	0	6	0.98
CSPE-R	NW-HB GT	7g	21	0	3	1.00	7h	10	0	3	1.00
CSPE-R	Woven GT	7i	11	0	6	0.92	7j	11	0	3	1.00
CSPE-R	Geonet	7k	28	0	9	0.87	7l	16	0	9	0.80
NW-NP GT	Granular Soil	8a	33	0	290	0.97	8b	33	0	117	0.96
NW-HB GT	Granular Soil	8c	28	0	6	0.99	8d	16	0	6	0.91
Woven GT	Granular Soil	8e	32	0	81	0.99	8f	29	0	28	0.98
NW-NP GT	Cohesive Soil	9a	30	5	79	0.96	9b	21	0	28	0.79
NW-HB GT	Cohesive Soil	9c	29	0.9	15	0.71	9d	10	0	15	0.83
Woven GT	Cohesive Soil	9e	29	0	34	0.94	9f	19	0	16	0.86
GCL Reinforced (internal)	N/A	10a	16	38	406	0.85	10b	6	12	182	0.91
GCL (NW-NP GT)	HDPE-T	11a	23	8	180	0.95	11b	13	0	157	0.90
GCL (W-SF GT)	HDPE-T	11c	18	11	196	0.96	11d	12	0	153	0.92
Geonet	NW-NP GT	12a	23	0	52	0.97	12b	16	0	32	0.97
Geocomposite (NW-NP GT)	Granular Soil	13a	27	14	14	0.86	13b	21	8	10	0.92



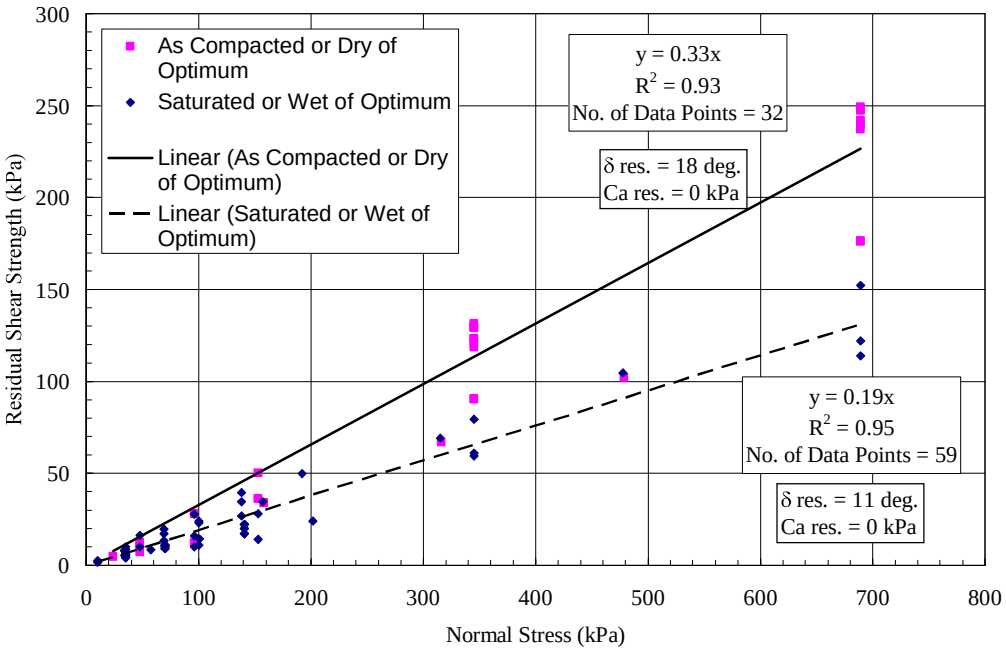
Appendix Figure 1a – Peak Shear Strength; Smooth HDPE against Granular Soil.



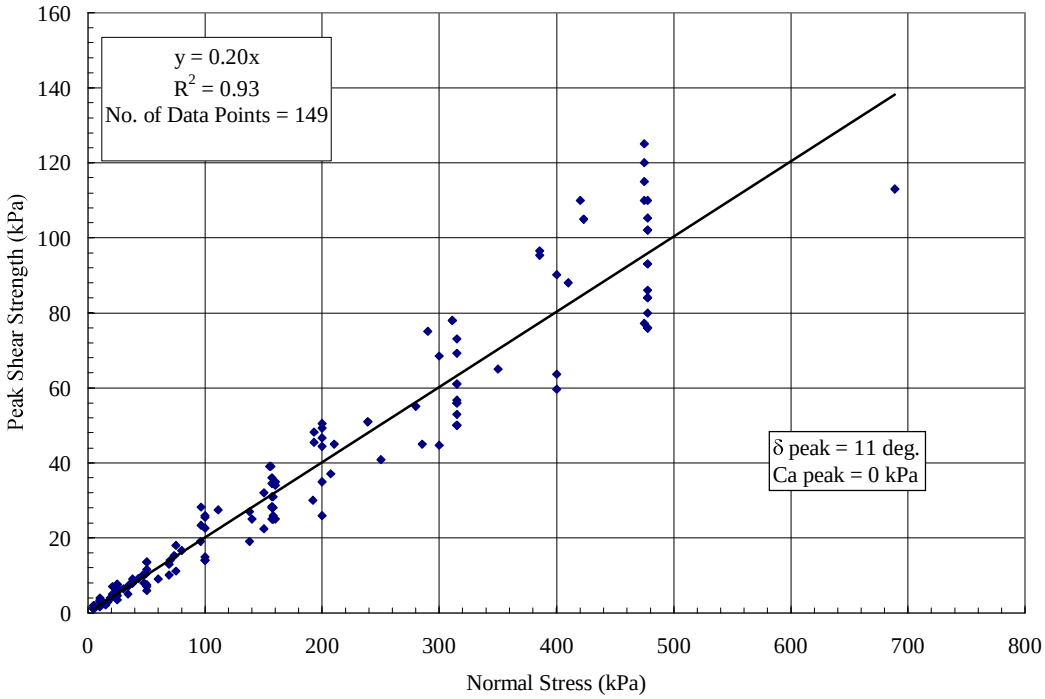
Appendix Figure 1b – Residual Shear Strength; Smooth HDPE against Granular Soil.



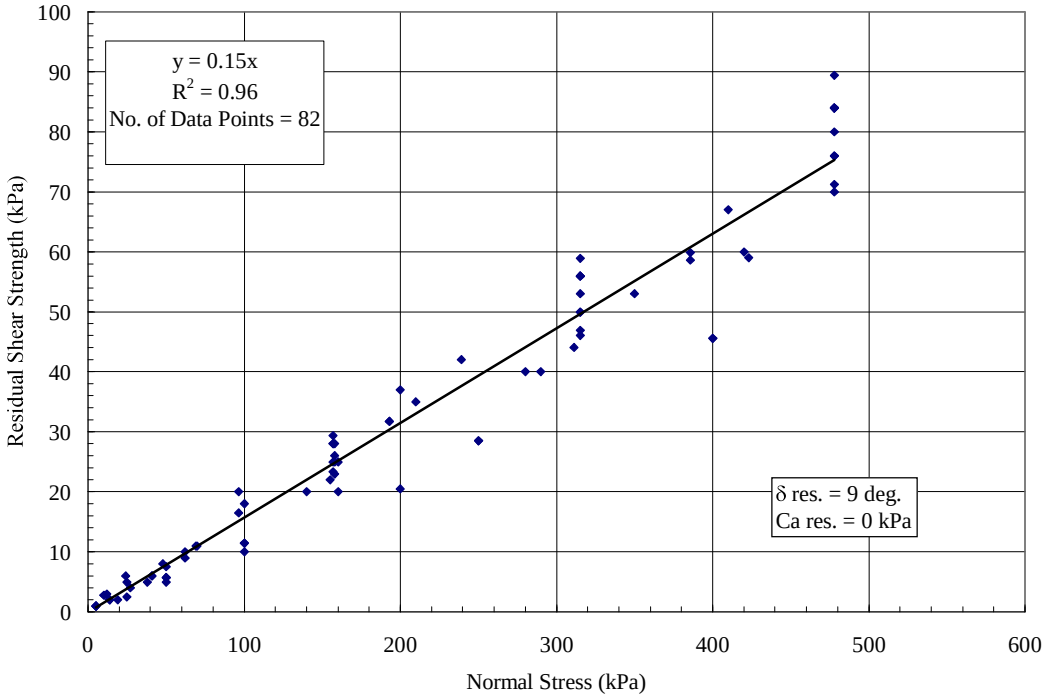
Appendix Figure 1c – Peak Shear Strength; Smooth HDPE against Cohesive Soil.



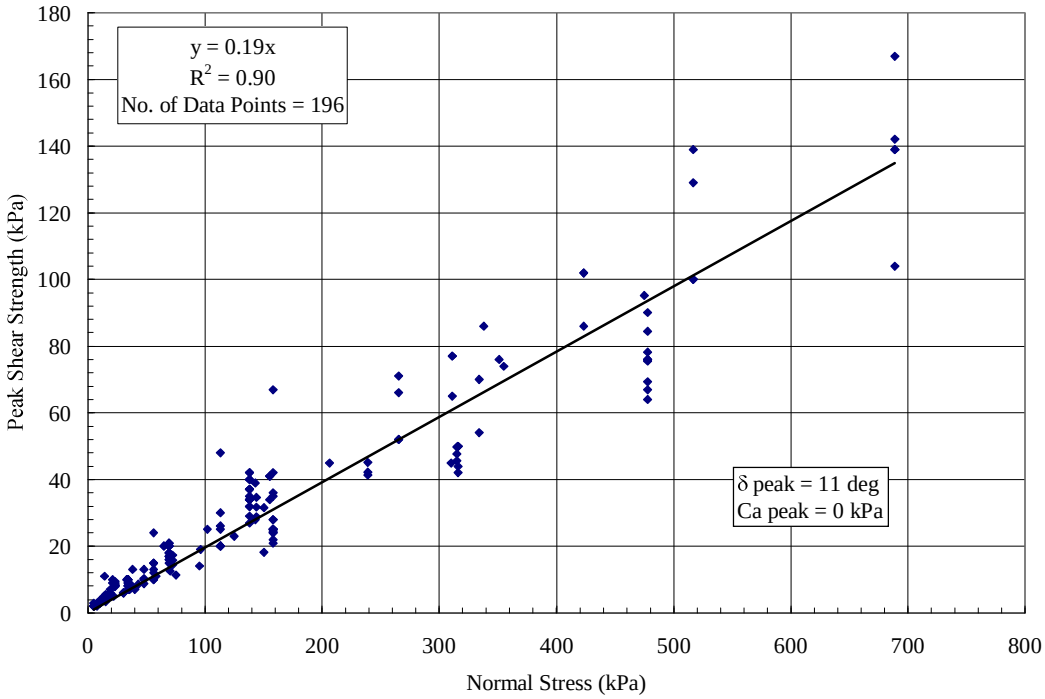
Appendix Figure 1d – Residual Shear Strength; Smooth HDPE against Cohesive Soil.



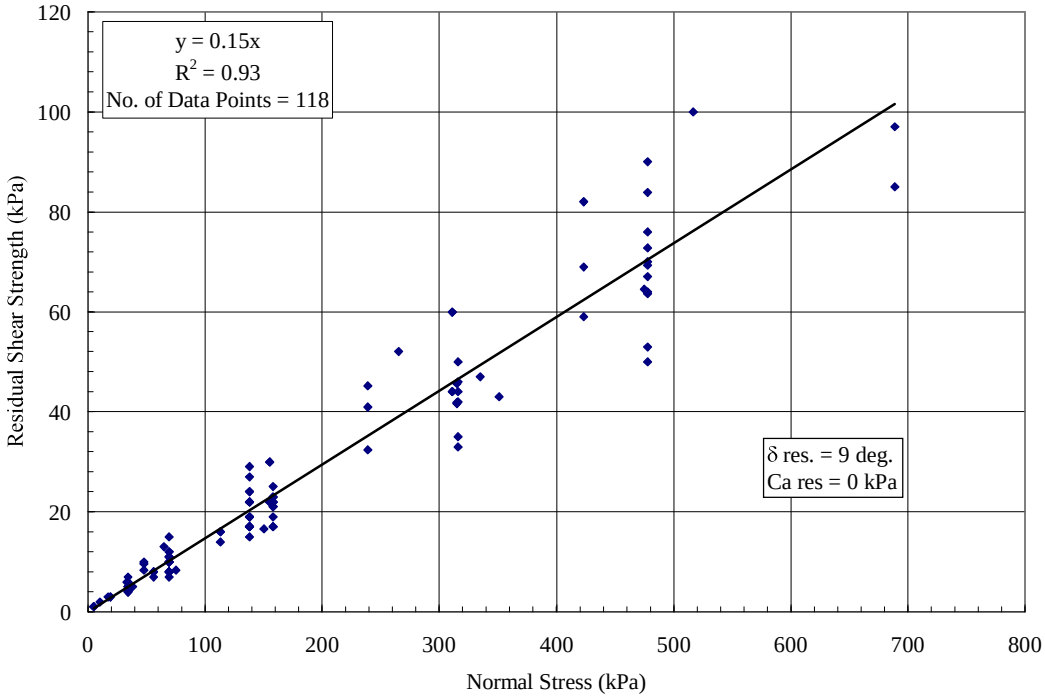
Appendix Figure 1e – Peak Shear Strength; Smooth HDPE against NW-NP Geotextile.



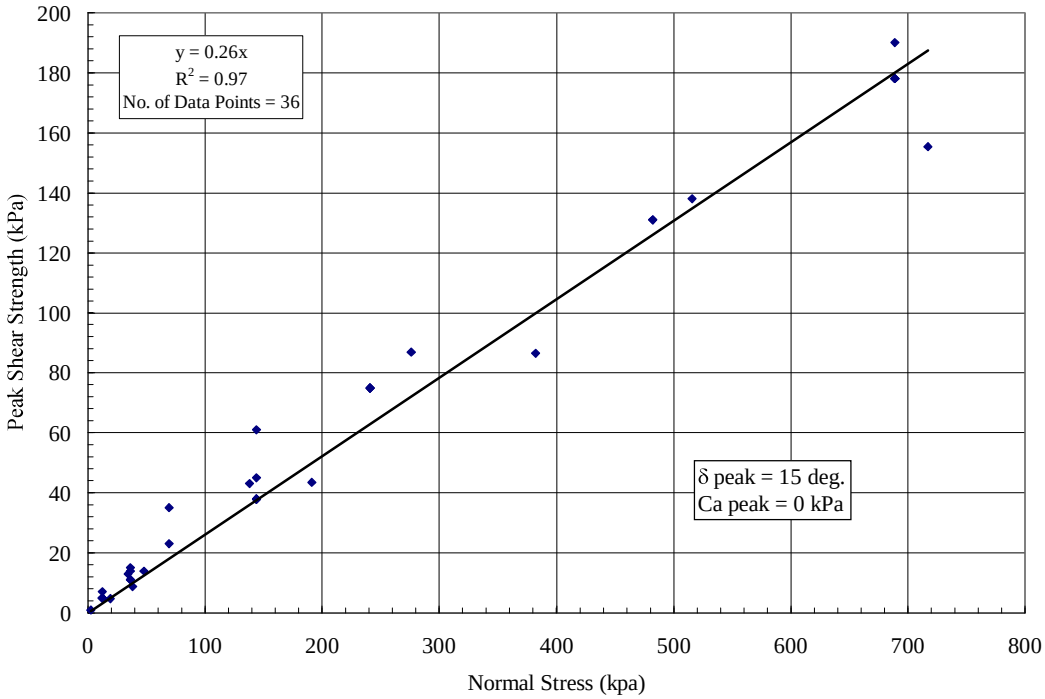
Appendix Figure 1f – Residual Shear Strength; Smooth HDPE against NW-NP Geotextile.



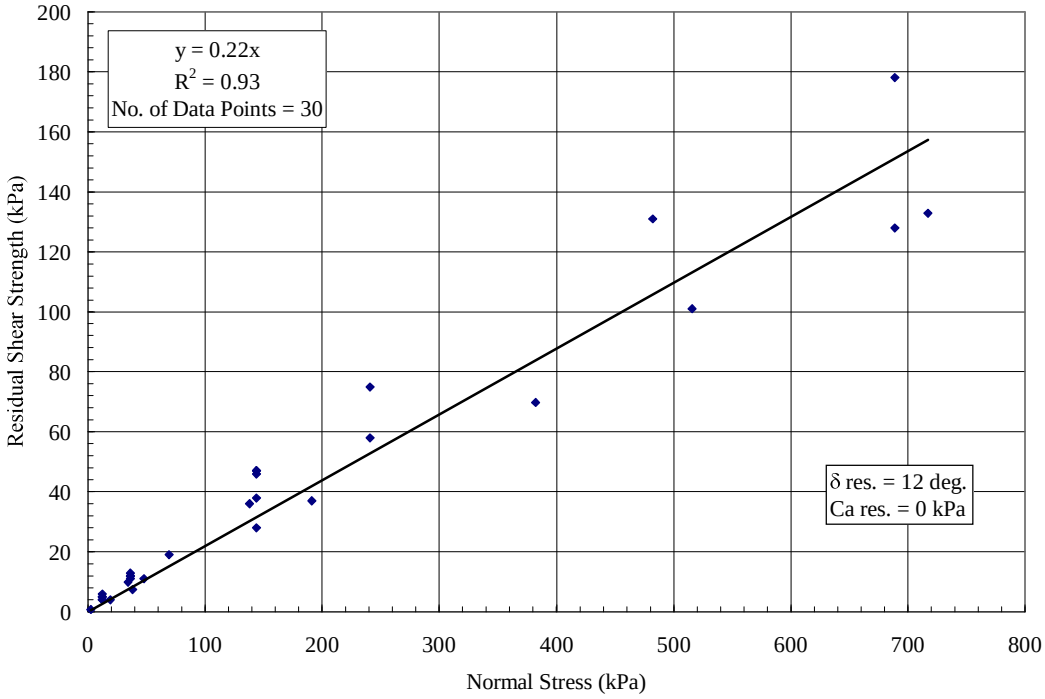
Appendix Figure 1g – Peak Shear Strength; Smooth HDPE against Geonet.



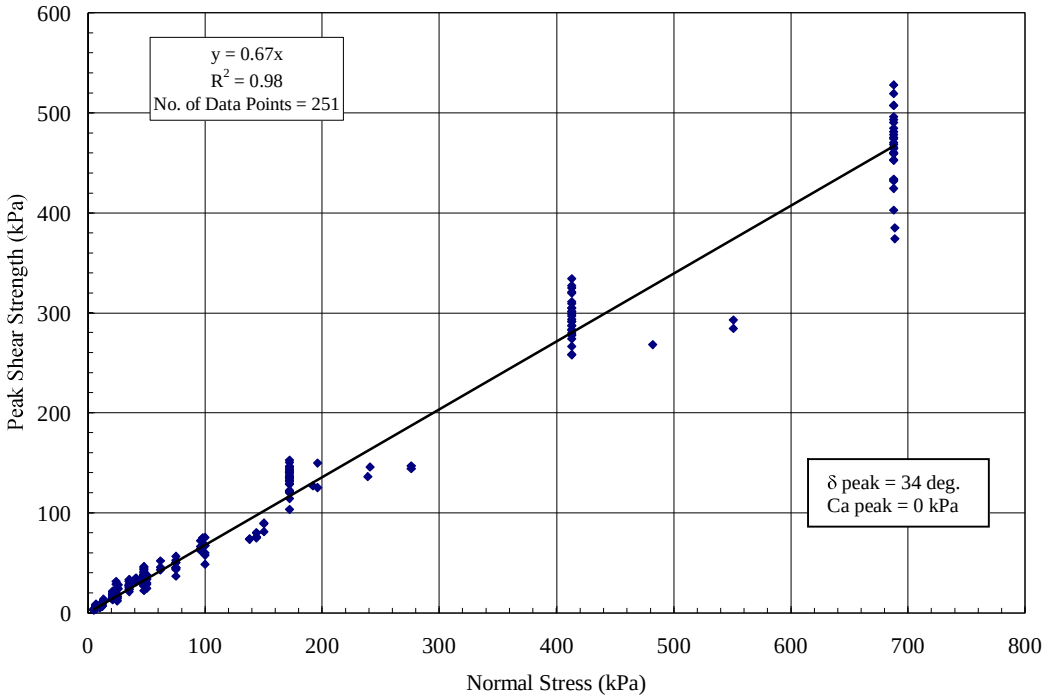
Appendix Figure 1h – Residual Shear Strength; Smooth HDPE against Geonet.



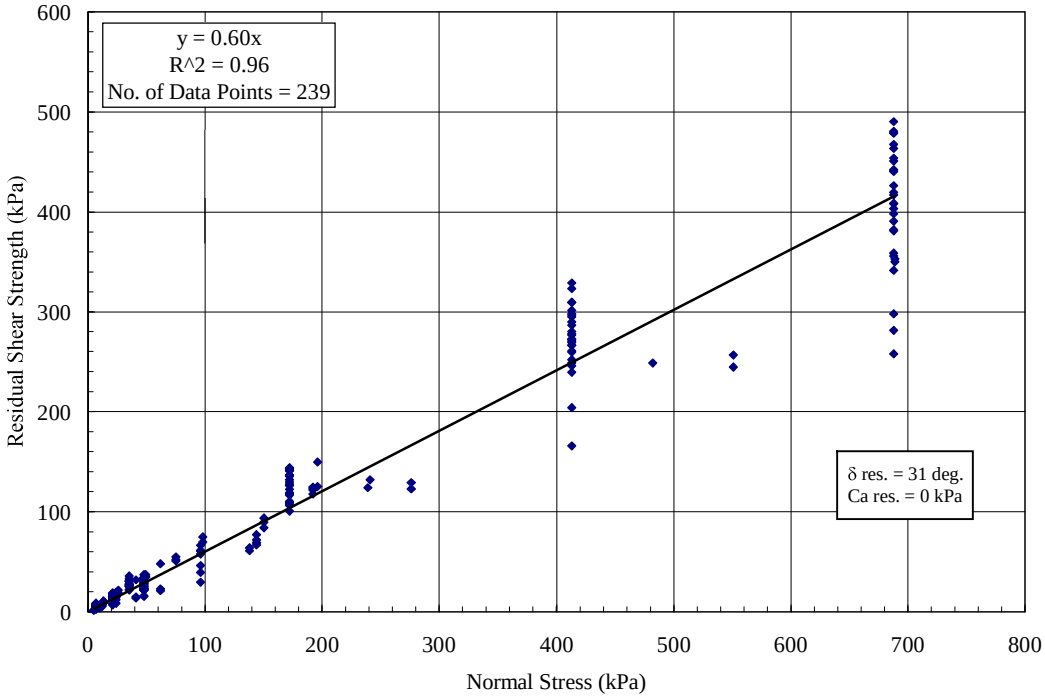
Appendix Figure 1i – Peak Shear Strength; Smooth HDPE against NW-NP Geotextile on Drainage Geocomposite.



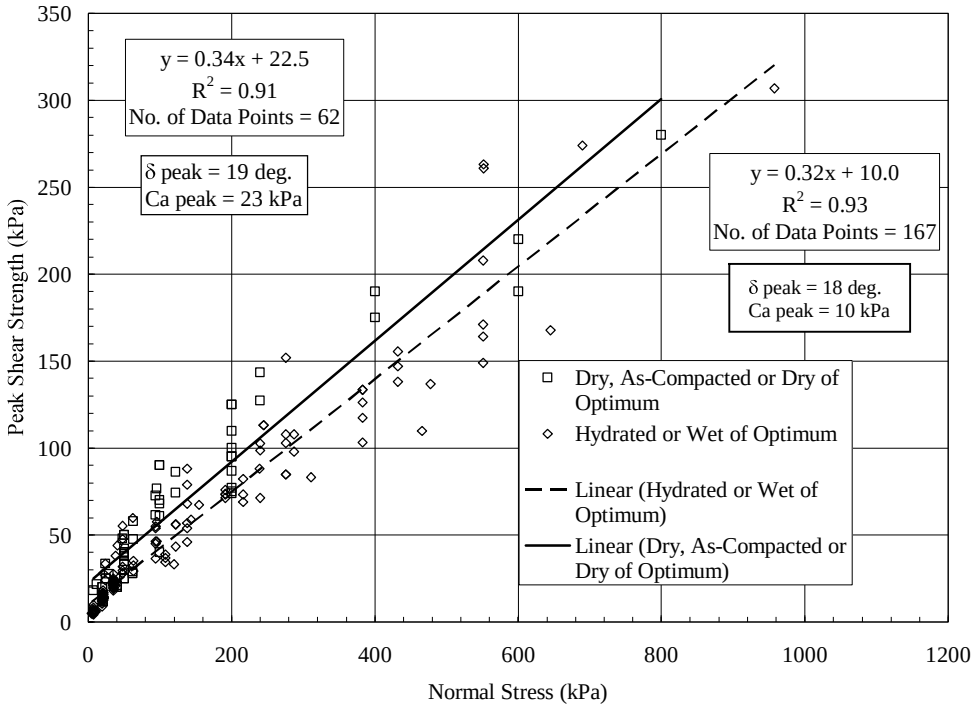
Appendix Figure 1j – Residual Shear Strength; Smooth HDPE against NW-NP Geotextile Drainage Geocomposite.



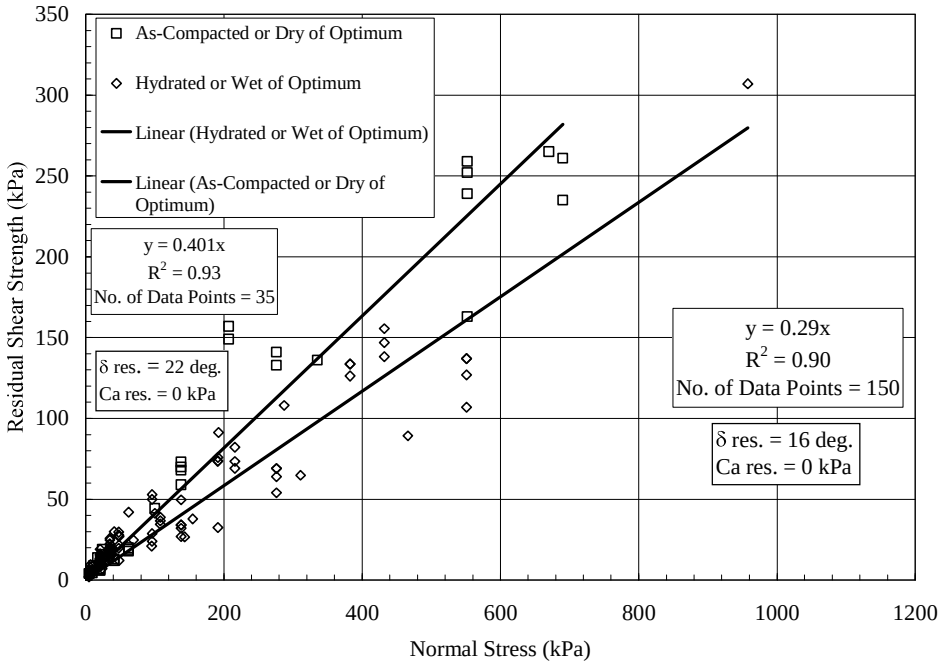
Appendix Figure 2a – Peak Shear Strength; Textured HDPE against Granular Soil.



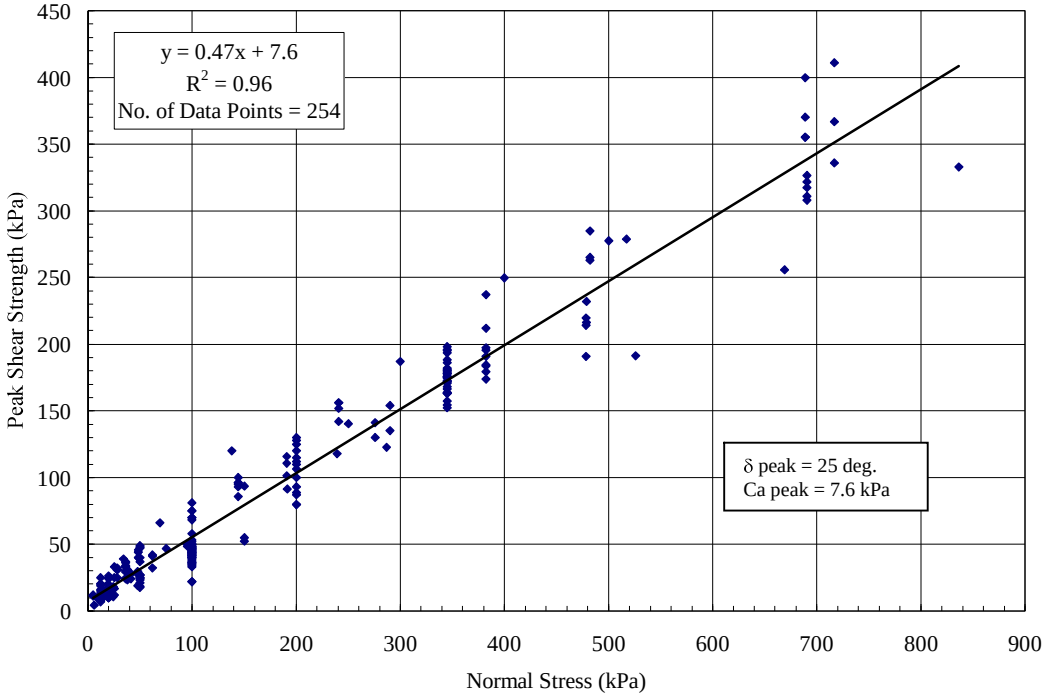
Appendix Figure 2b – Residual Shear Strength; Textured HDPE against Granular Soil.



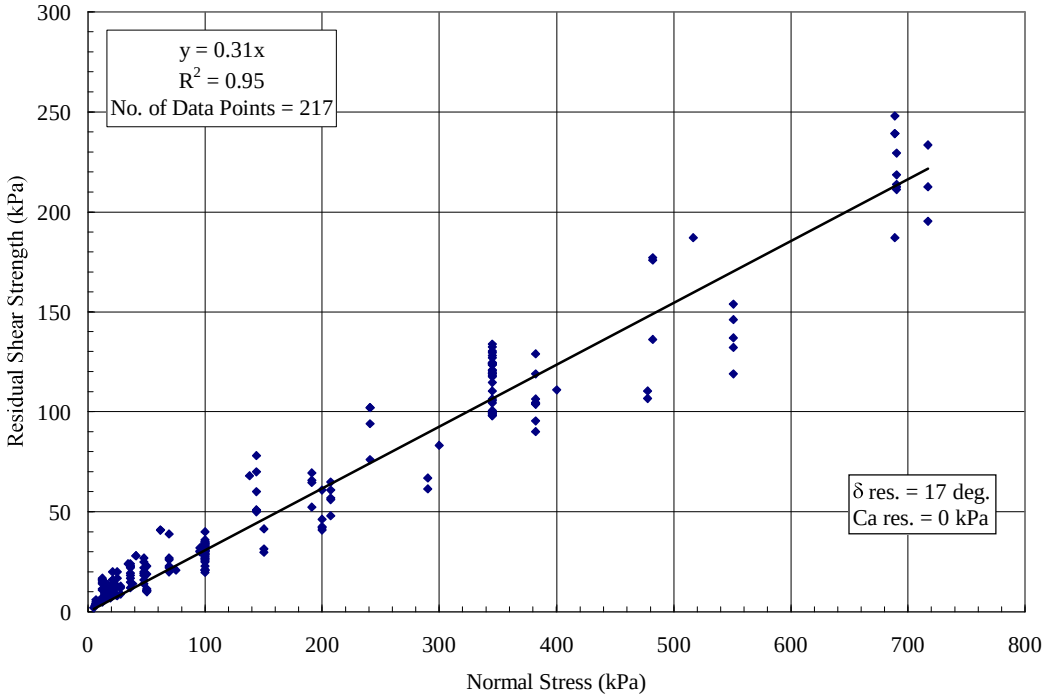
Appendix Figure 2c – Peak Shear Strength; Textured HDPE against Cohesive Soil.



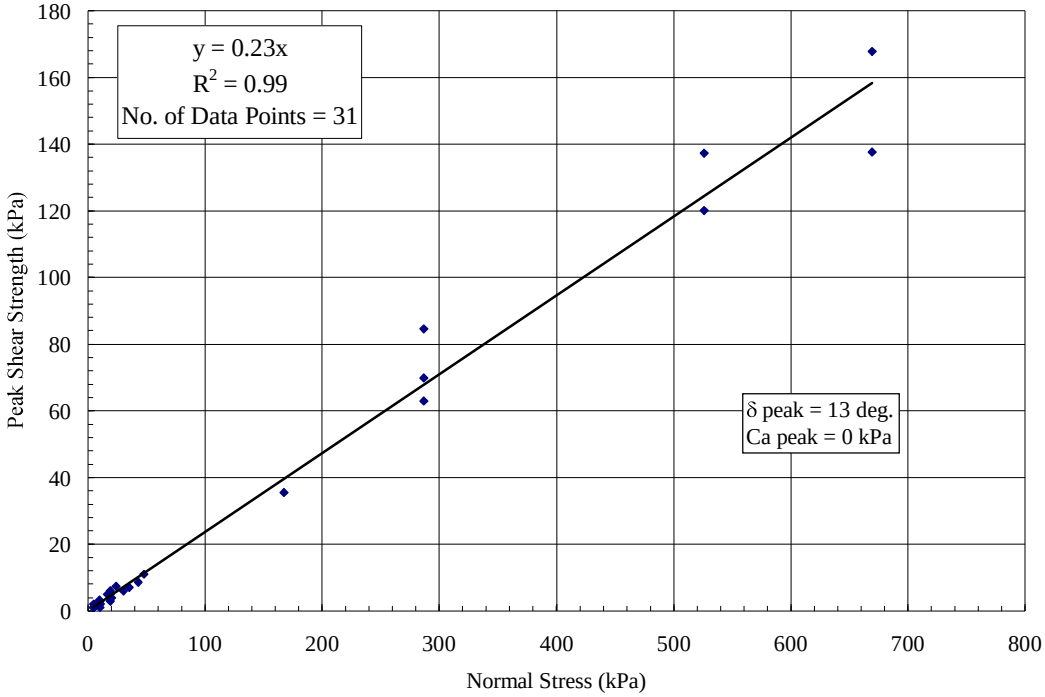
Appendix Figure 2d – Residual Shear Strength; Textured HDPE against Cohesive Soil.



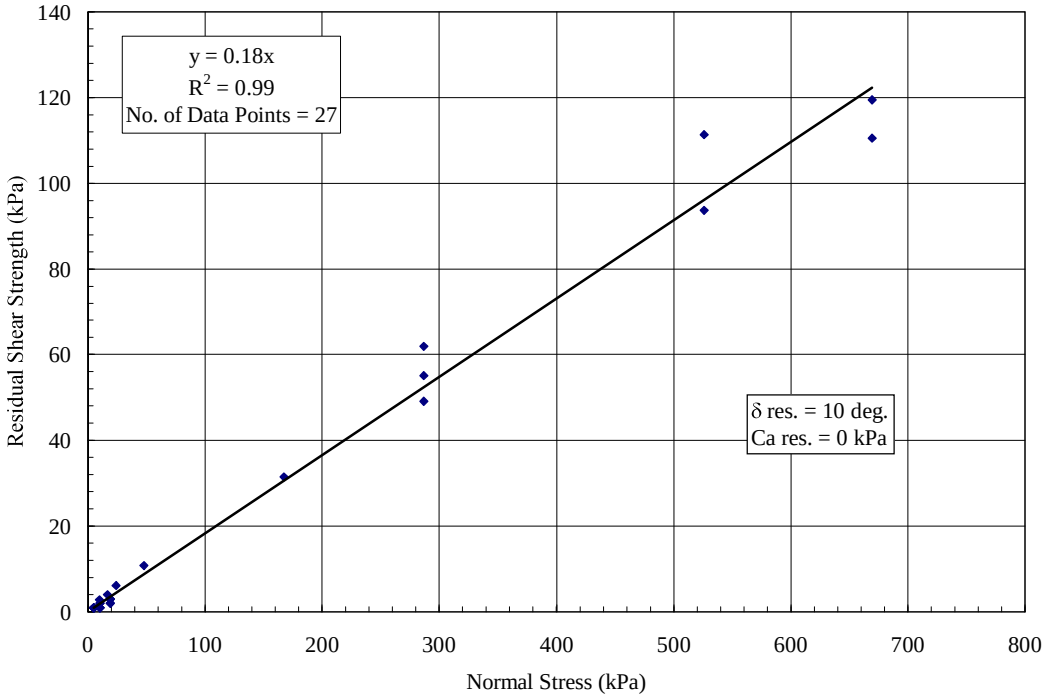
Appendix Figure 2e – Peak Shear Strength; Textured HDPE against NW-NP Geotextile.



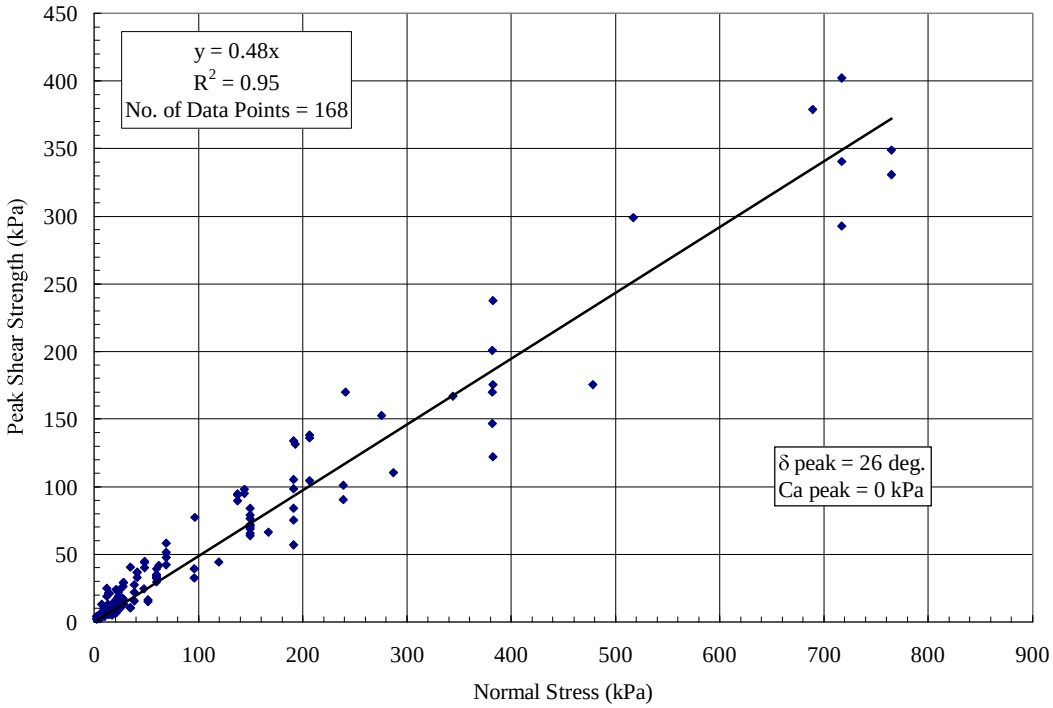
Appendix Figure 2f – Residual Shear Strength; Textured HDPE against NW-NP Geotextile.



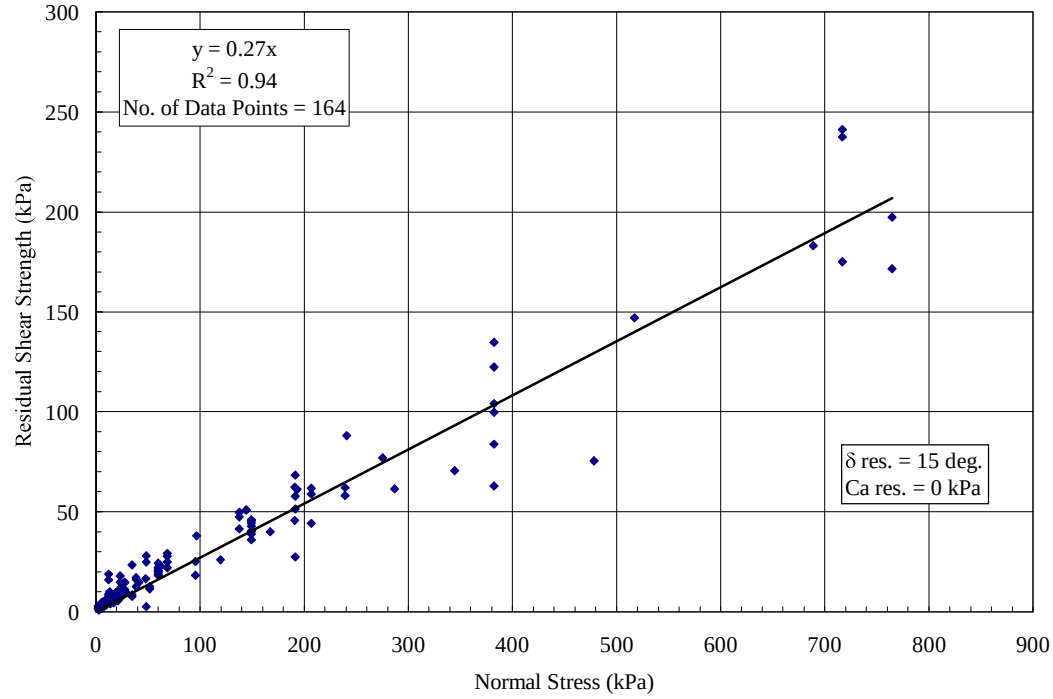
Appendix Figure 2g – Peak Shear Strength; Textured HDPE against Geonet.



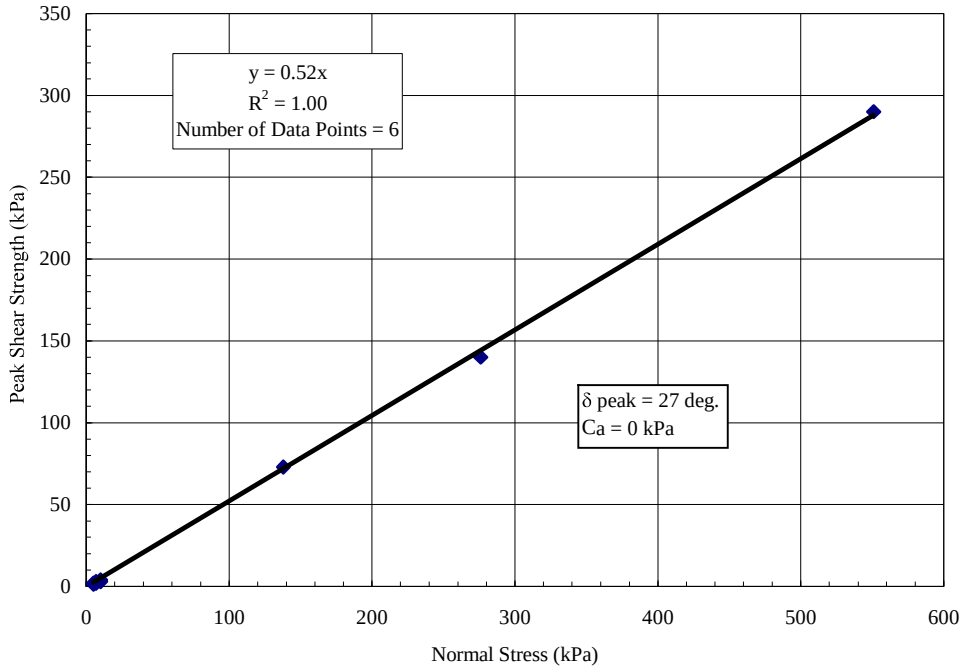
Appendix Figure 2h – Residual Shear Strength; Textured HDPE against Geonet.



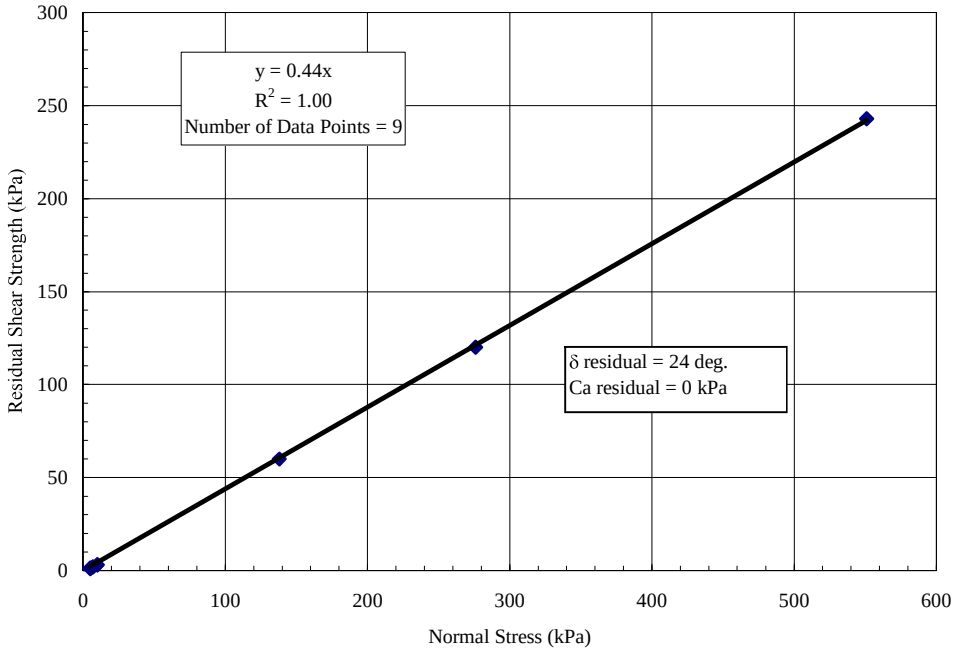
Appendix Figure 2i – Peak Shear Strength; Textured HDPE against NW-NP Geotextile on a Drainage Geocomposite.



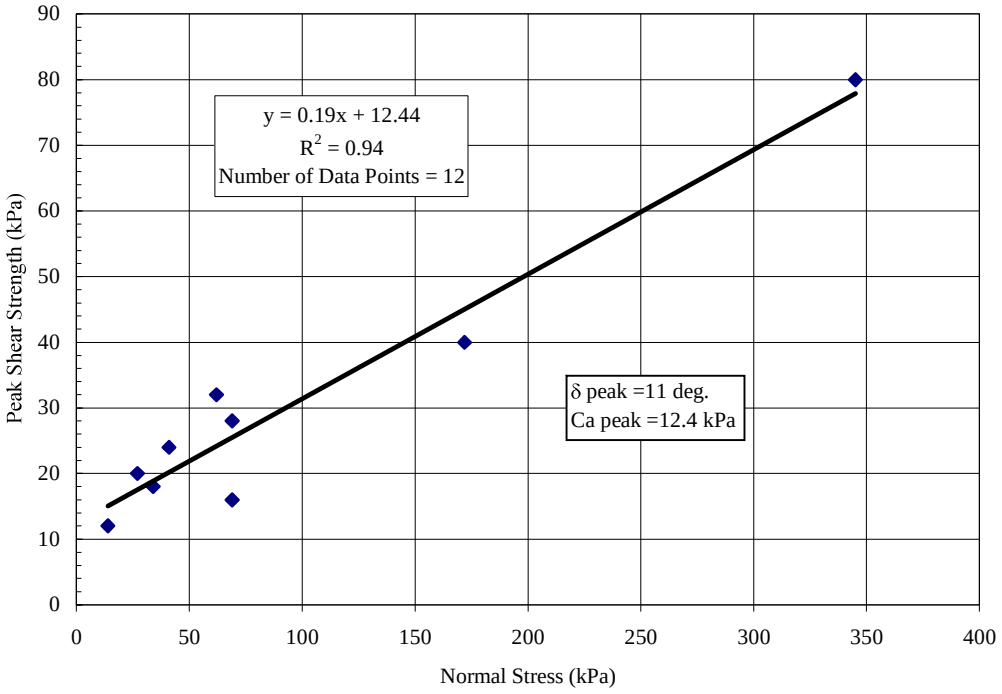
Appendix Figure 2j – Residual Shear Strength; Textured HDPE against NW-NP Geotextile on a Drainage Geocomposite.



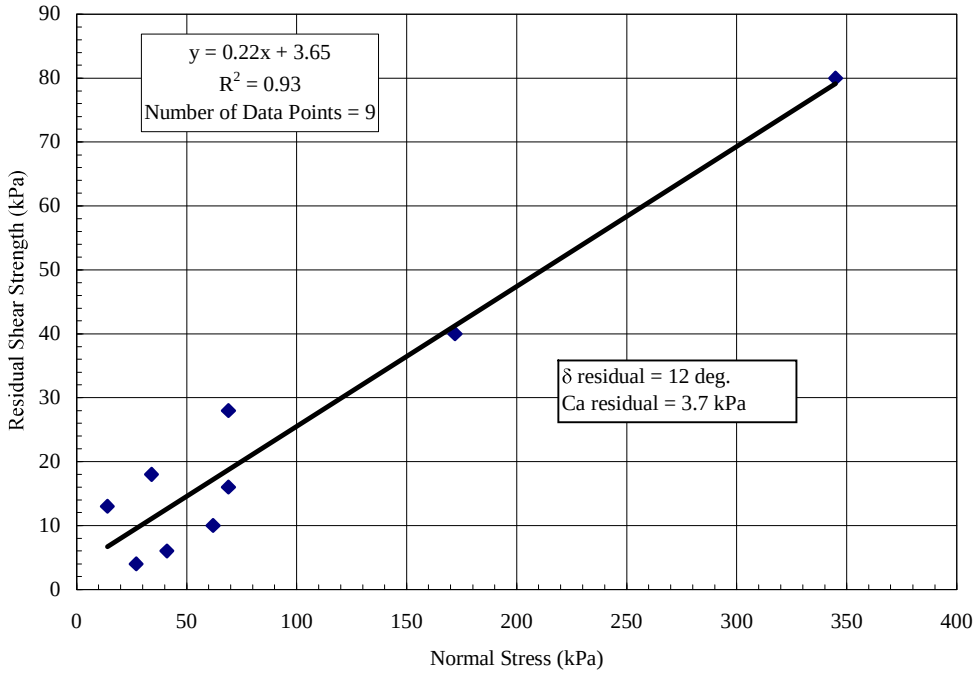
Appendix Figure 3a - Peak Shear Strength; Smooth LLDPE against Granular Soil.



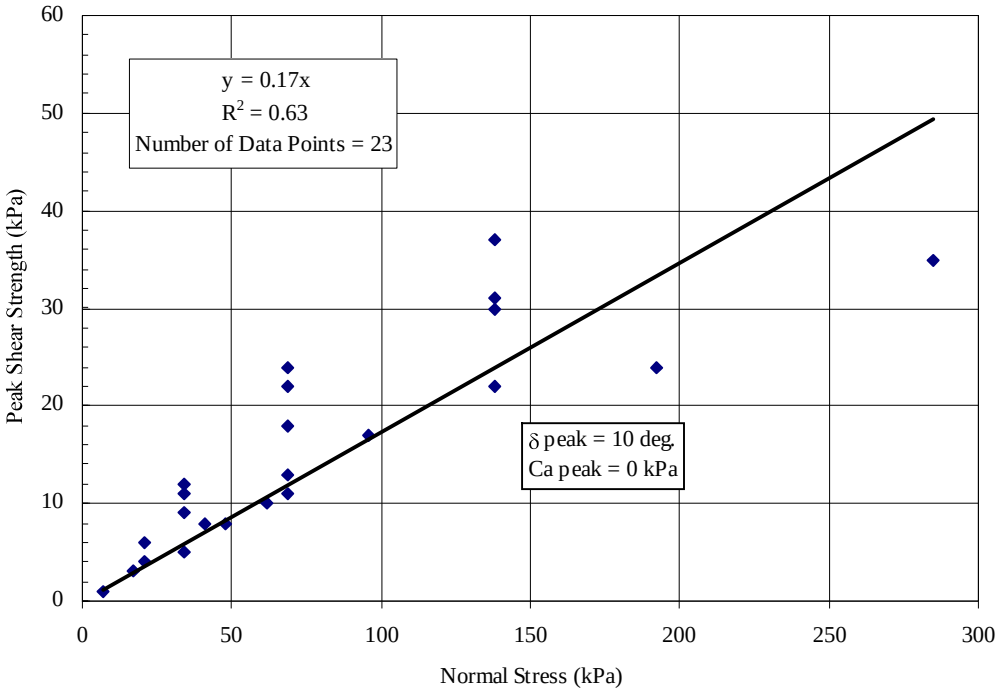
Appendix Figure 3b - Residual Shear Strength; Smooth LLDPE against Granular Soil.



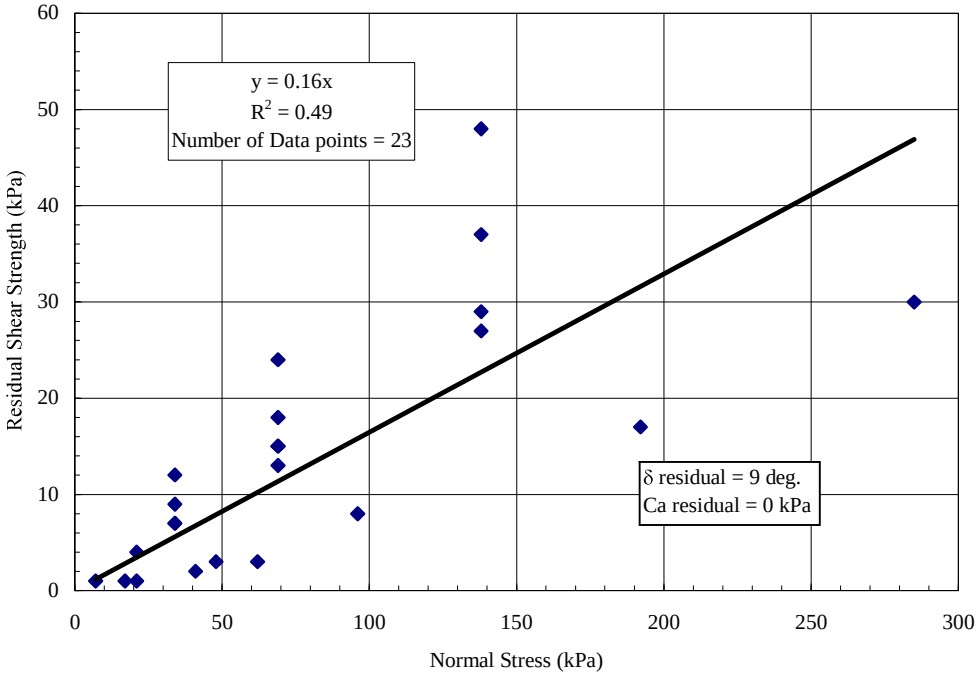
Appendix Figure 3c - Peak Shear Strength; Smooth LLDPE against Cohesive Soil.



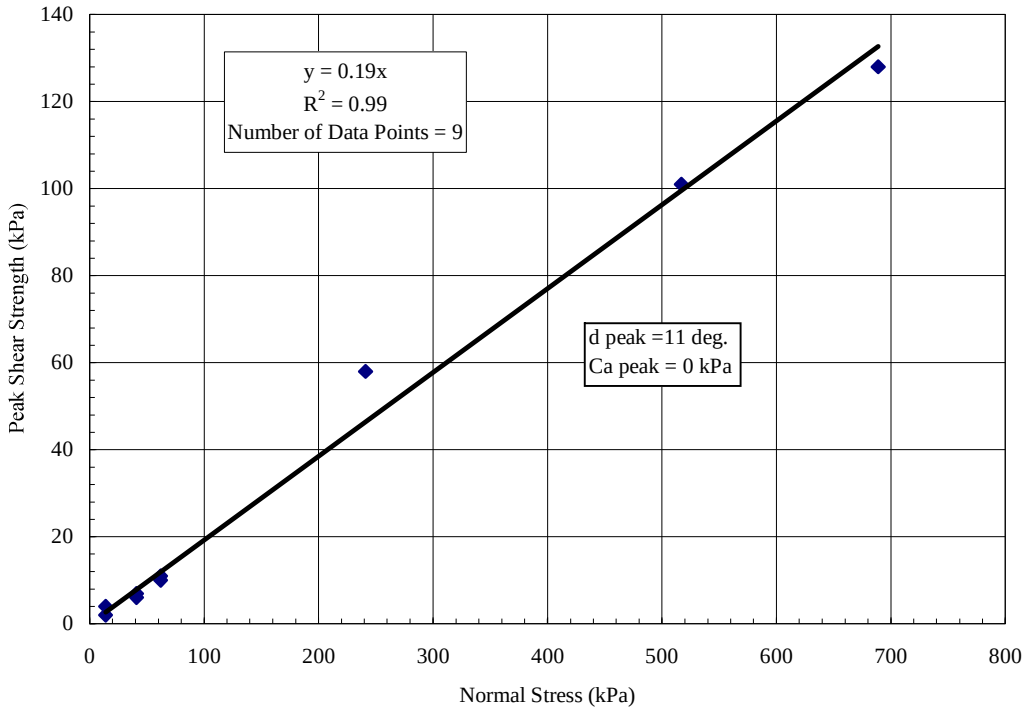
Appendix Figure 3d - Residual Shear Strength; Smooth LLDPE against Cohesive Soil.



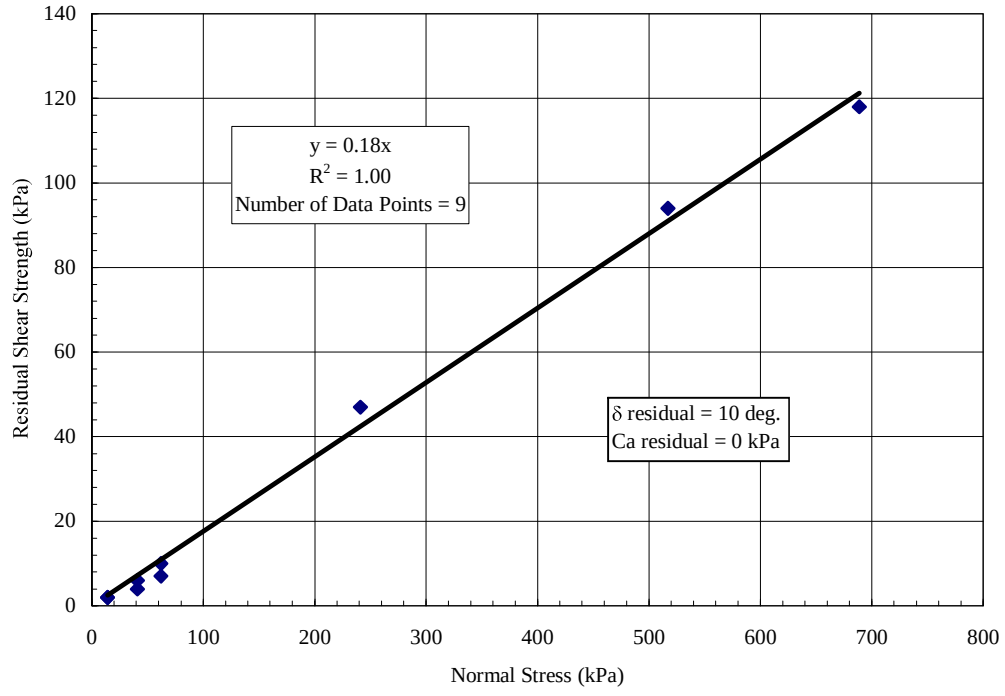
Appendix Figure 3e - Peak Shear Strength; Smooth LLDPE against NW-NP Geotextile.



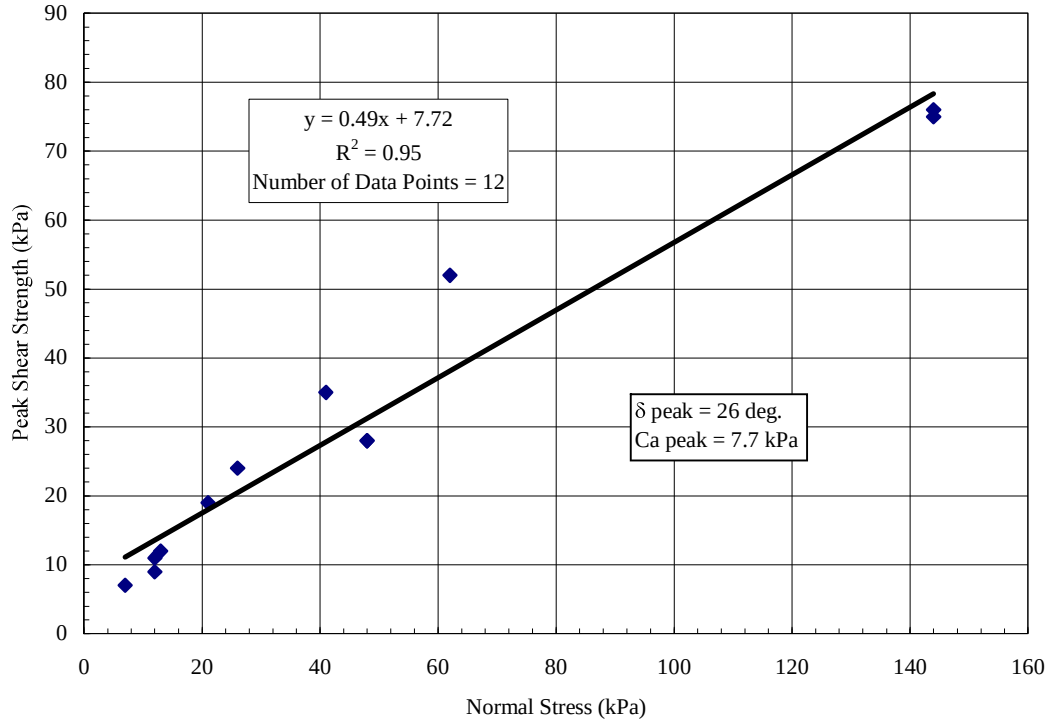
Appendix Figure 3f - Residual Shear Strength; Smooth LLDPE against NW-NP Geotextile.



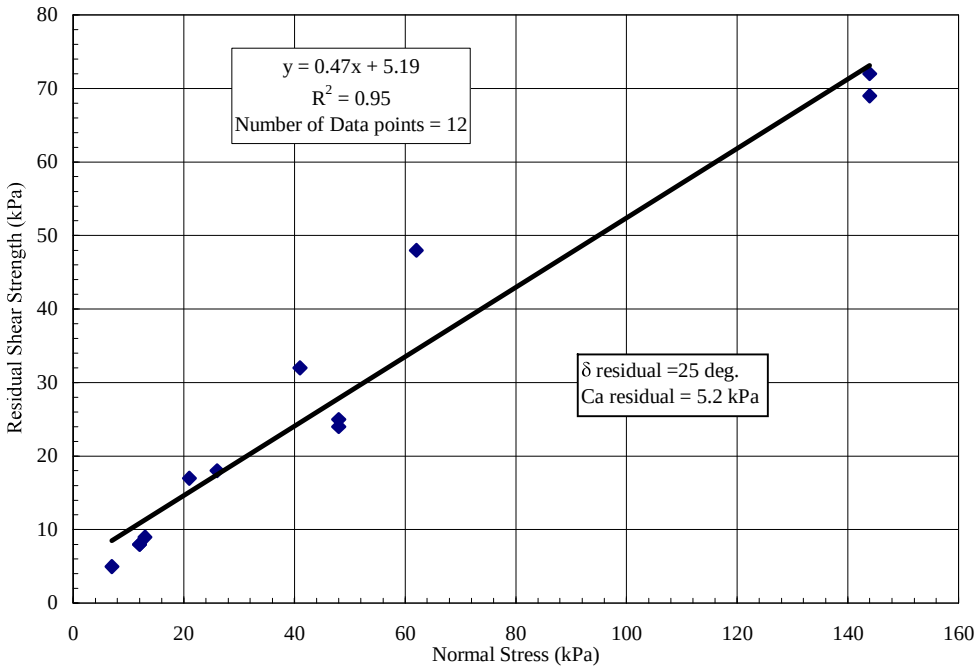
Appendix Figure 3g -Peak Shear Strength; Smooth LLDPE against Geonet.



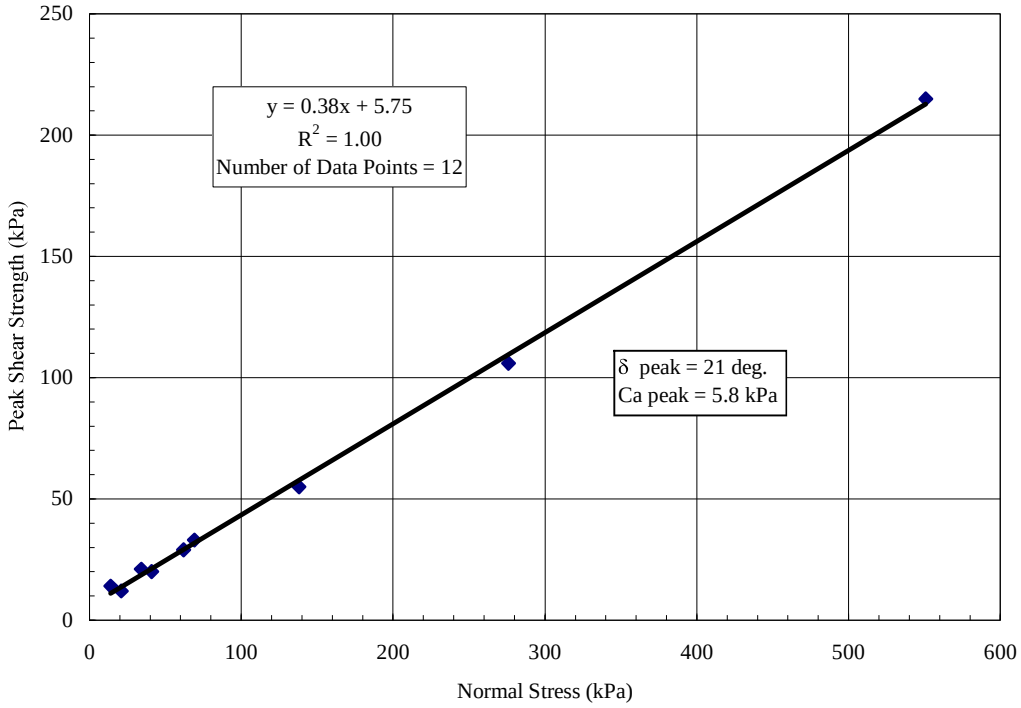
Appendix Figure 3h - Residual Shear Strength; Smooth LLDPE against Geonet.



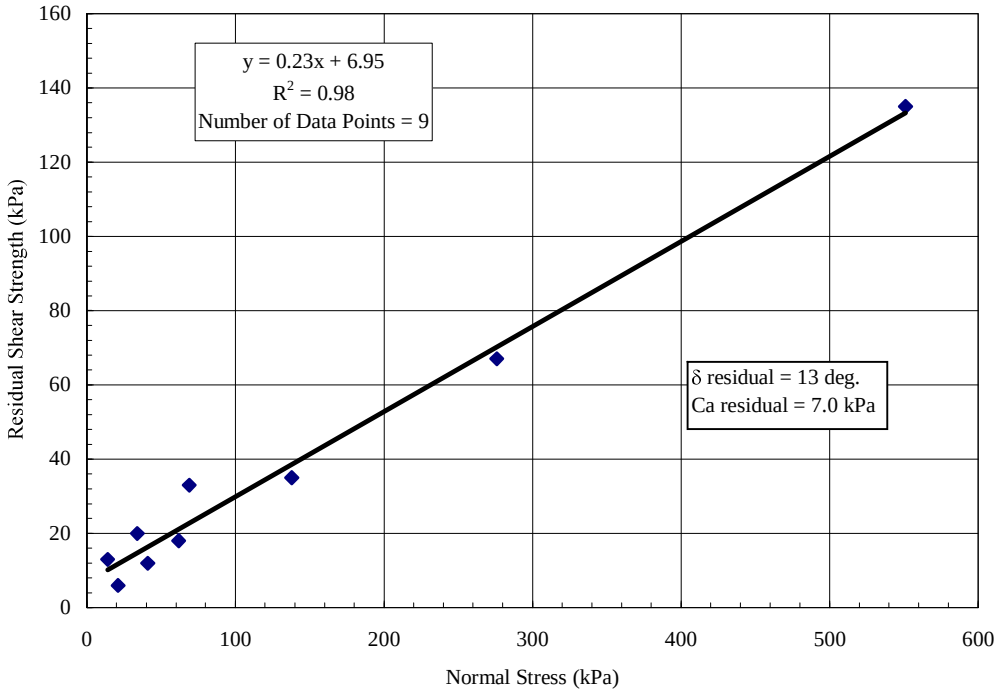
Appendix Figure 4a -Peak Shear Strength; Textured LLDPE against Granular Soil.



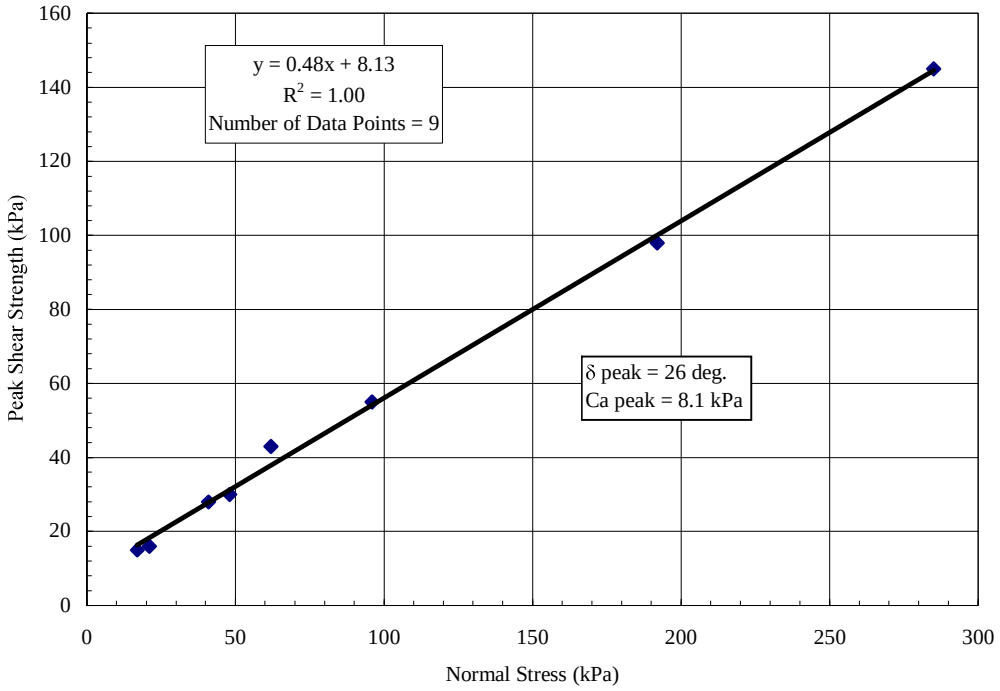
Appendix Figure 4b - Residual Shear Strength; Textured LLDPE against Granular Soil.



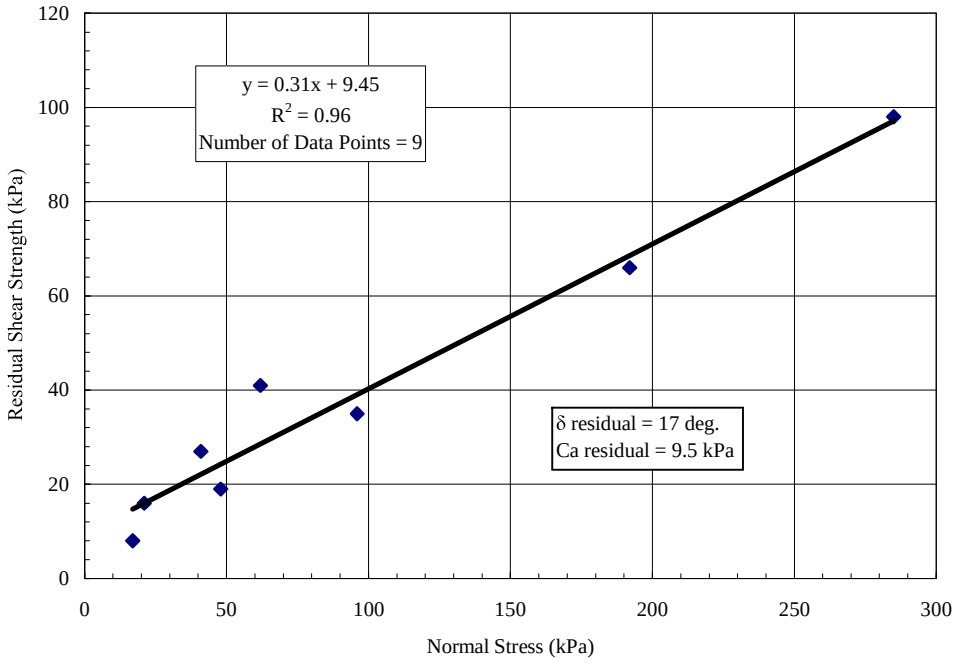
Appendix Figure 4c - Peak Shear Strength; Textured LLDPE against Cohesive Soil.



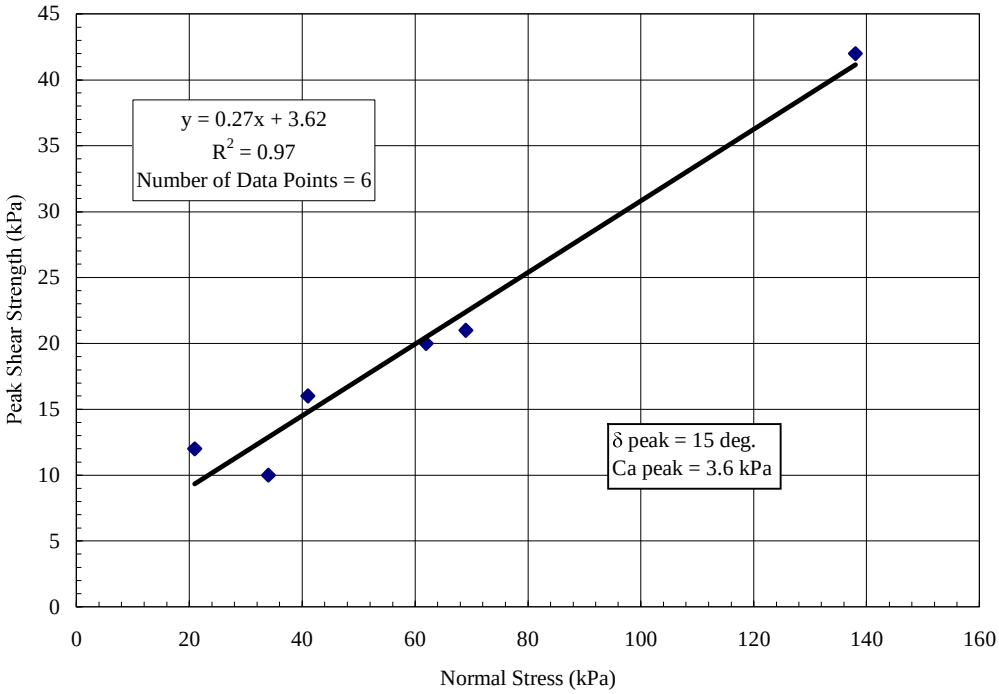
Appendix Figure 4d - Residual Shear Strength; Textured LLDPE against Cohesive Soil.



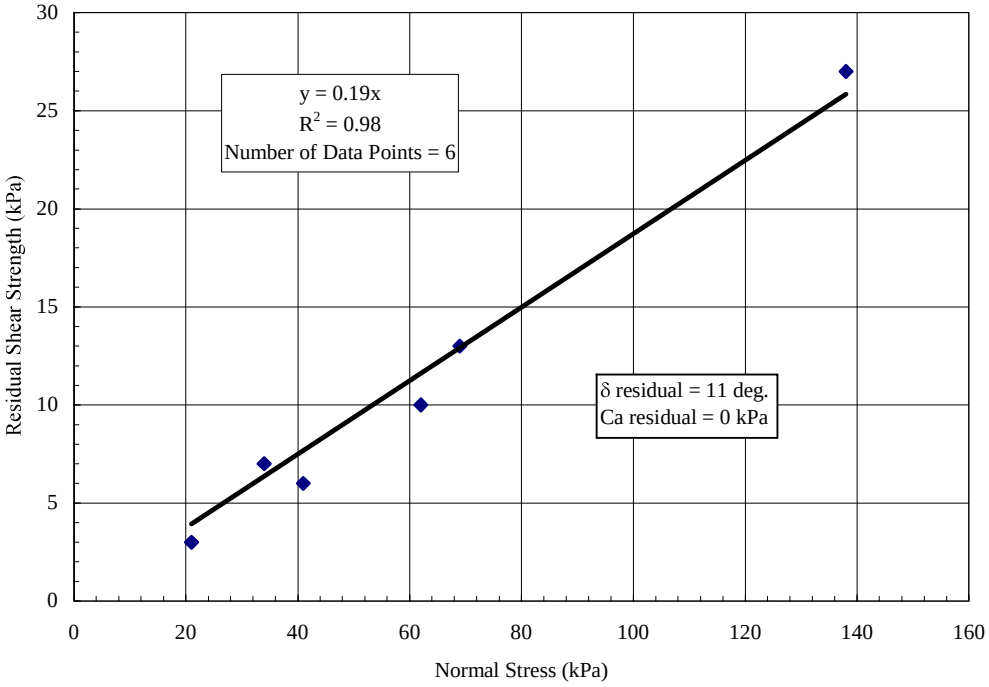
Appendix Figure 4e -Peak Shear Strength; Textured LLDPE against NW-NP Geotextile.



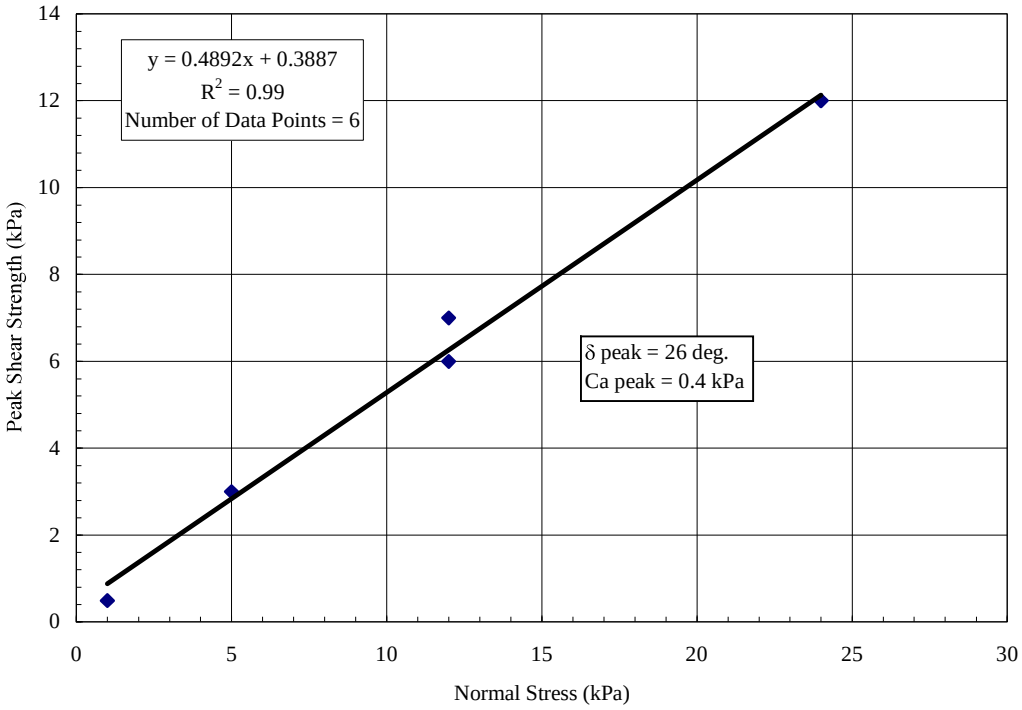
Appendix Figure 4f - Residual Shear Strength; Textured LLDPE against NW-NP Geotextile.



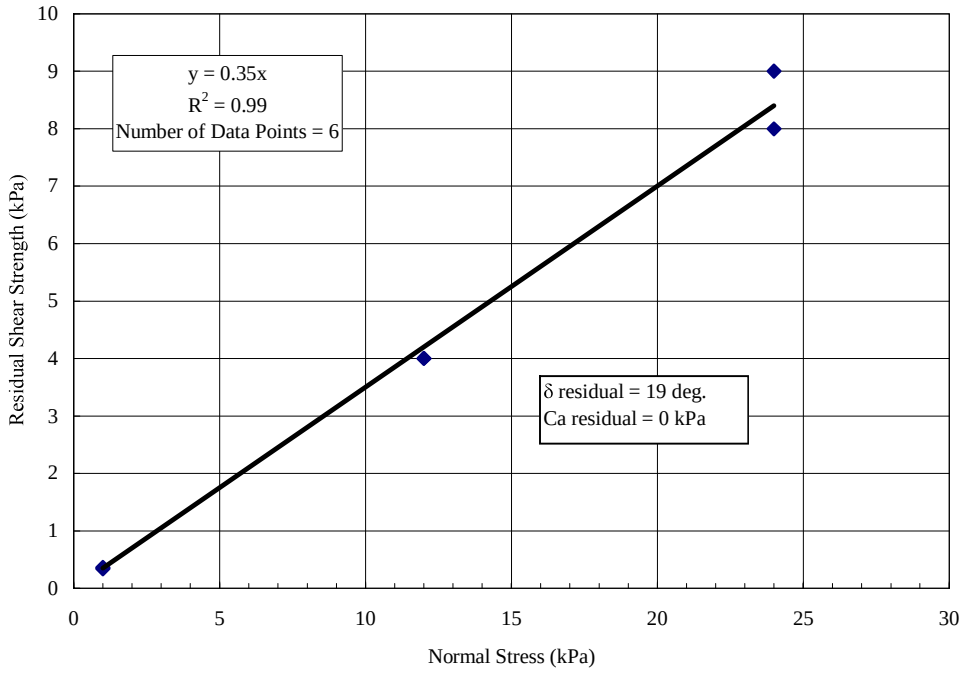
Appendix Figure 4g - Peak Shear Strength; Textured LLDPE against Geonet.



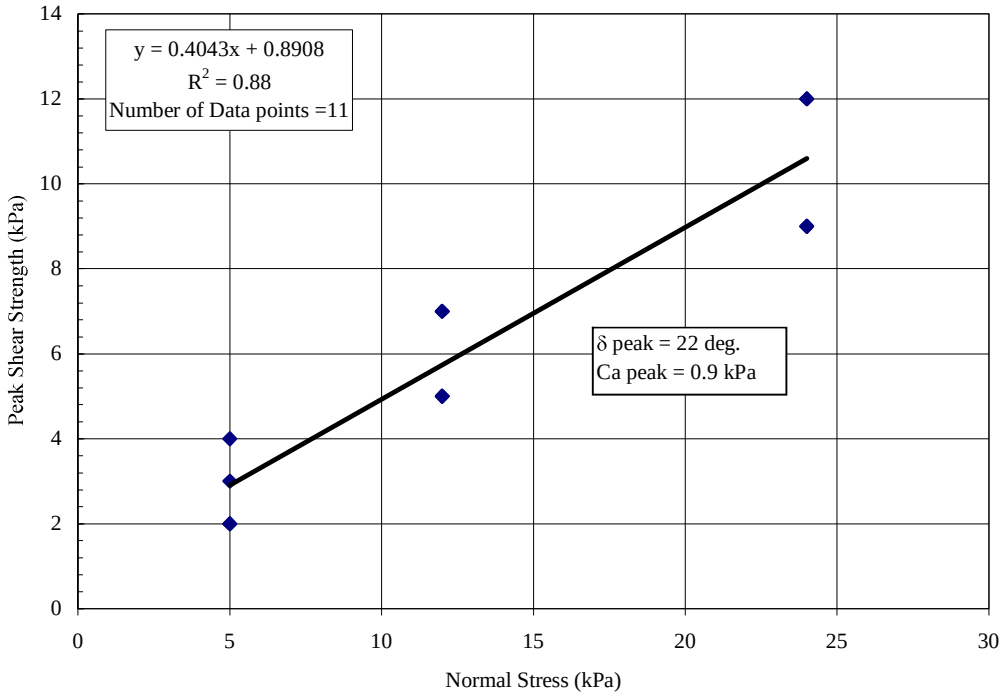
Appendix Figure 4h - Residual Shear Strength; Textured LLDPE against Geonet.



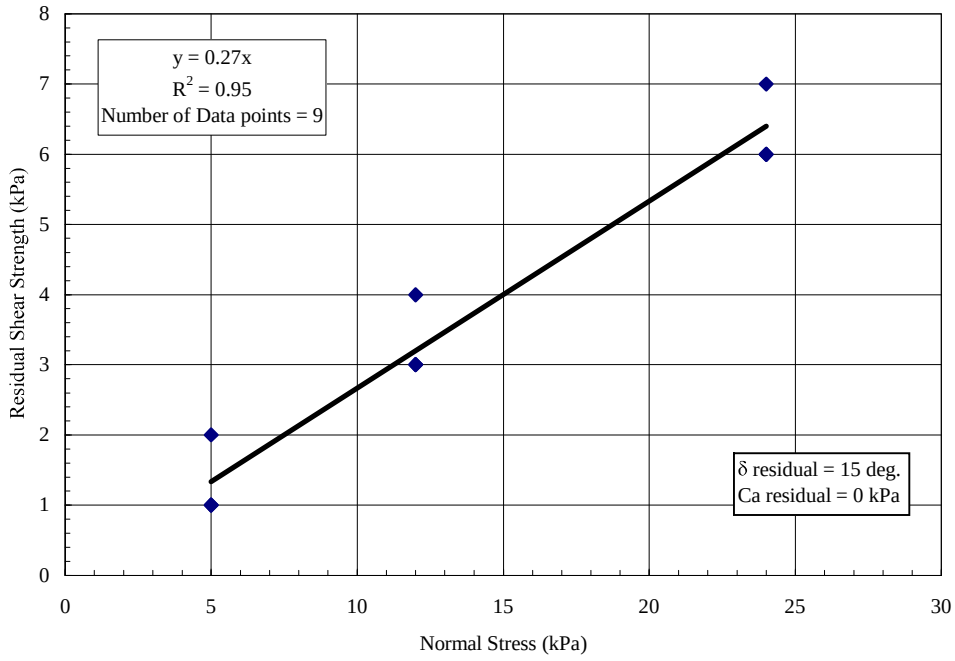
Appendix Figure 5a - Peak Shear Strength; Smooth PVC against Granular Soil.



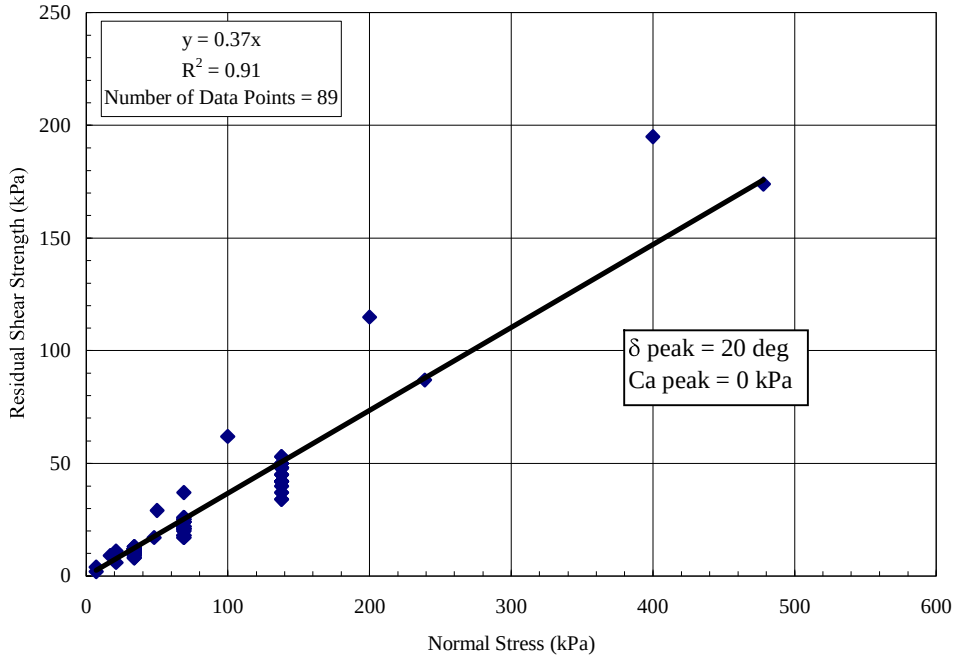
Appendix Figure 5b - Residaul Shear Strength; Smooth PVC against Granular Soil.



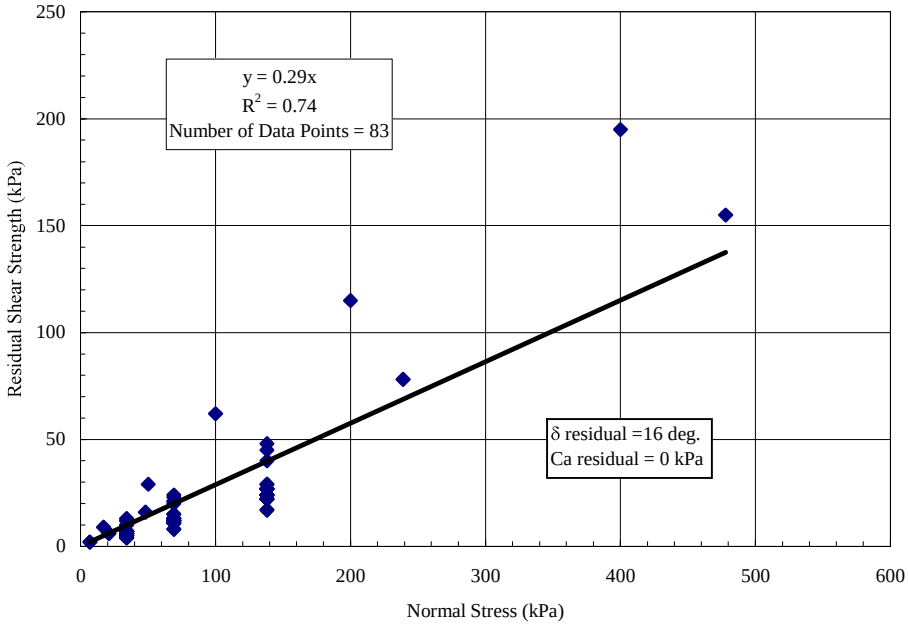
Appendix Figure 5c - Peak Shear Strength; Smooth PVC against Cohesive Soil.



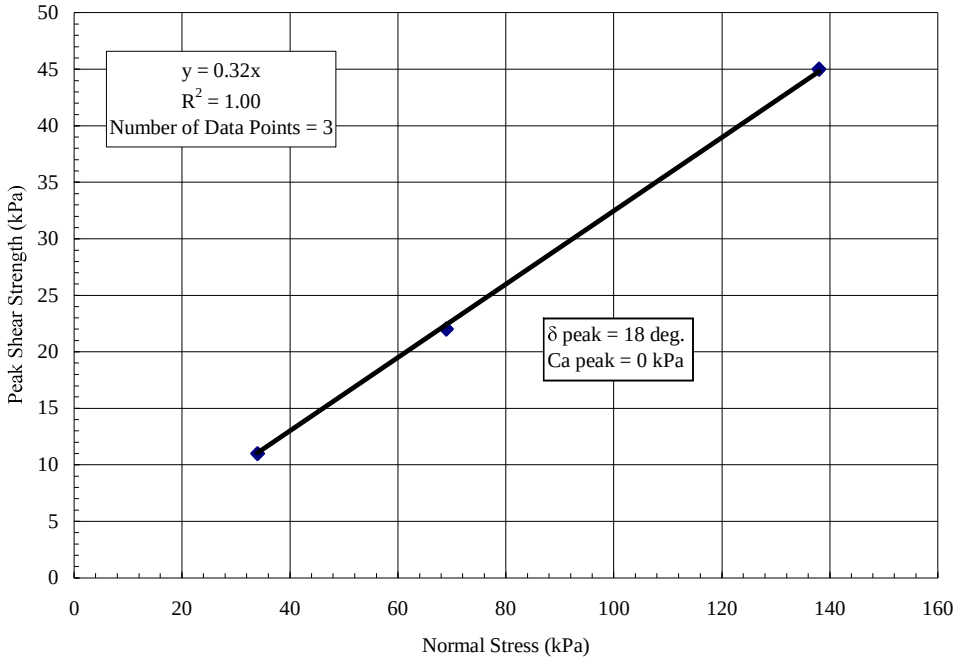
Appendix Figure 5d - Residual Shear Strength; Smooth PVC against Cohesive Soil.



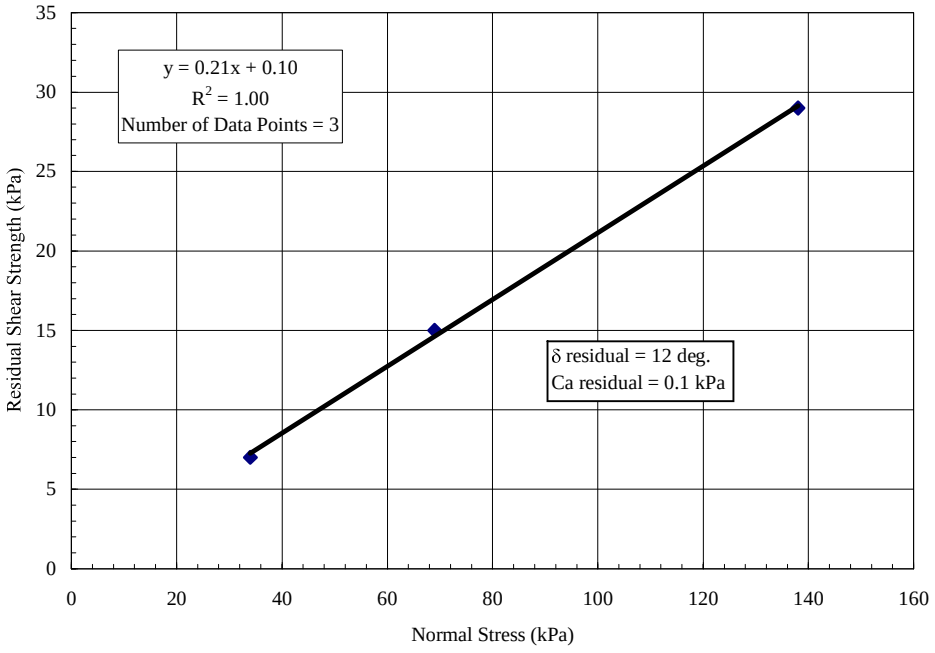
Appendix Figure 5e - Peak Shear Strength; Smooth PVC against NW-NP Geotextile.



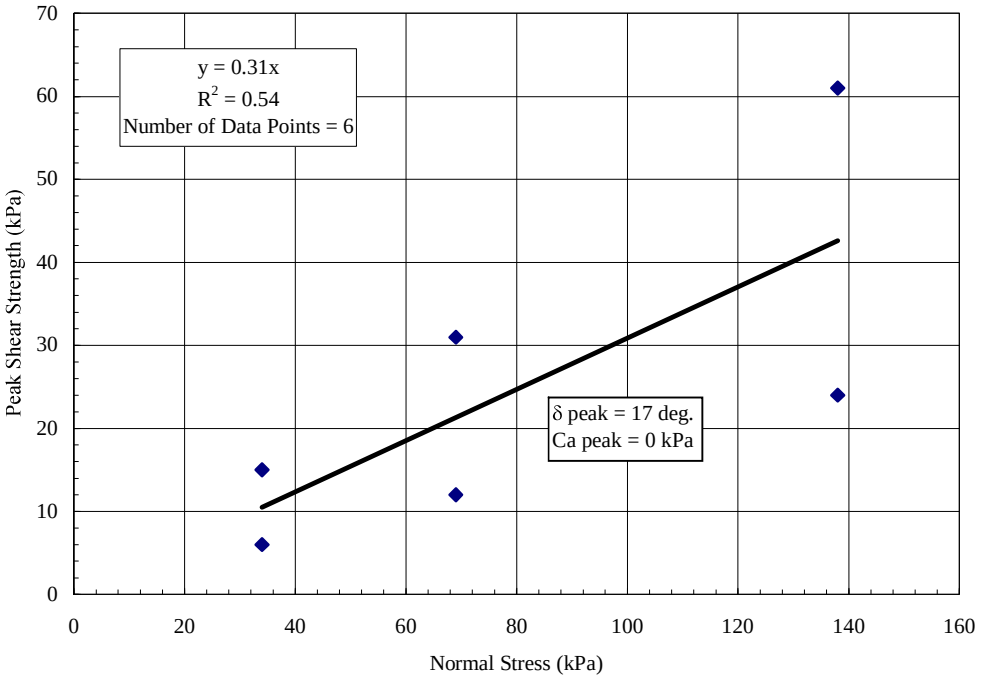
Appendix Figure 5f - Residual Shear Strength; Smooth PVC against NW-NP Geotextile.



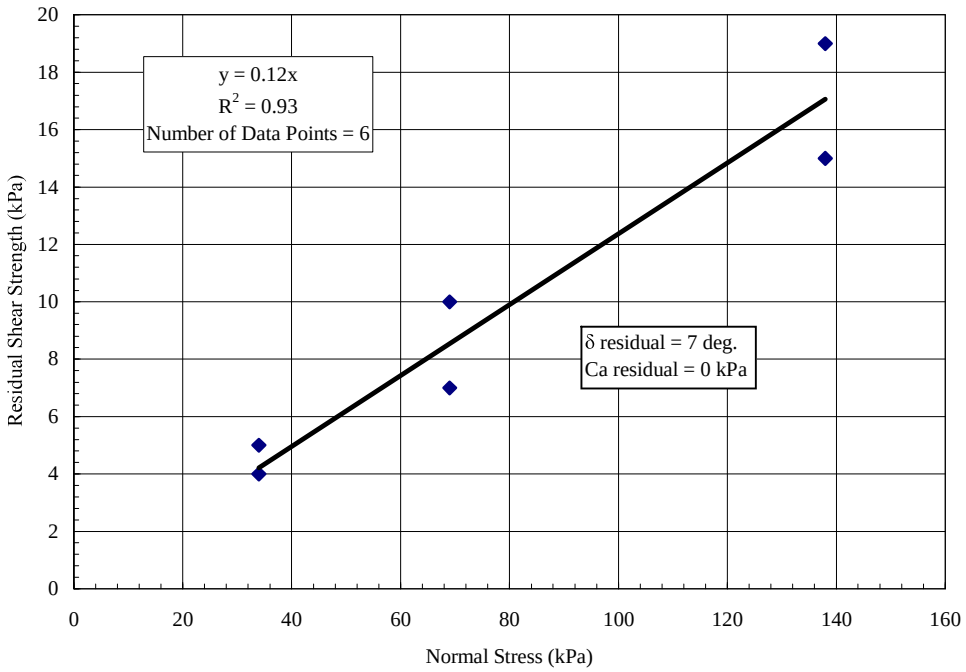
Appendix Figure 5g - Peak Shear Strength; Smooth PVC against NW-HB Geotextile.



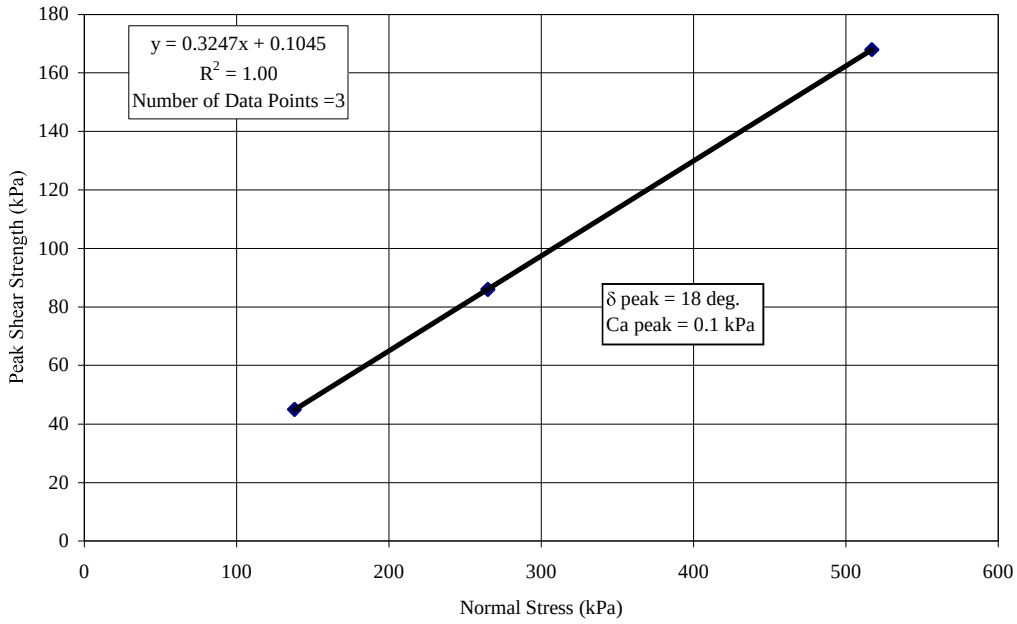
Appendix Figure 5h - Residual Shear Strength; Smooth PVC against NW-HB Geotextile.



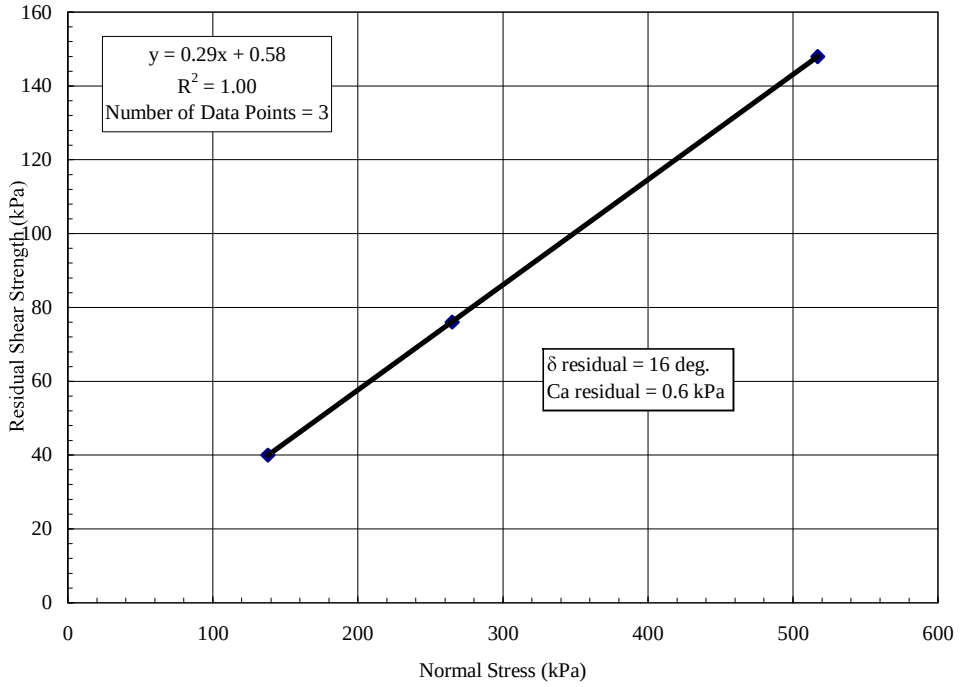
Appendix Figure 5i - Peak Shear Strength; Smooth PVC against Woven Geotextile.



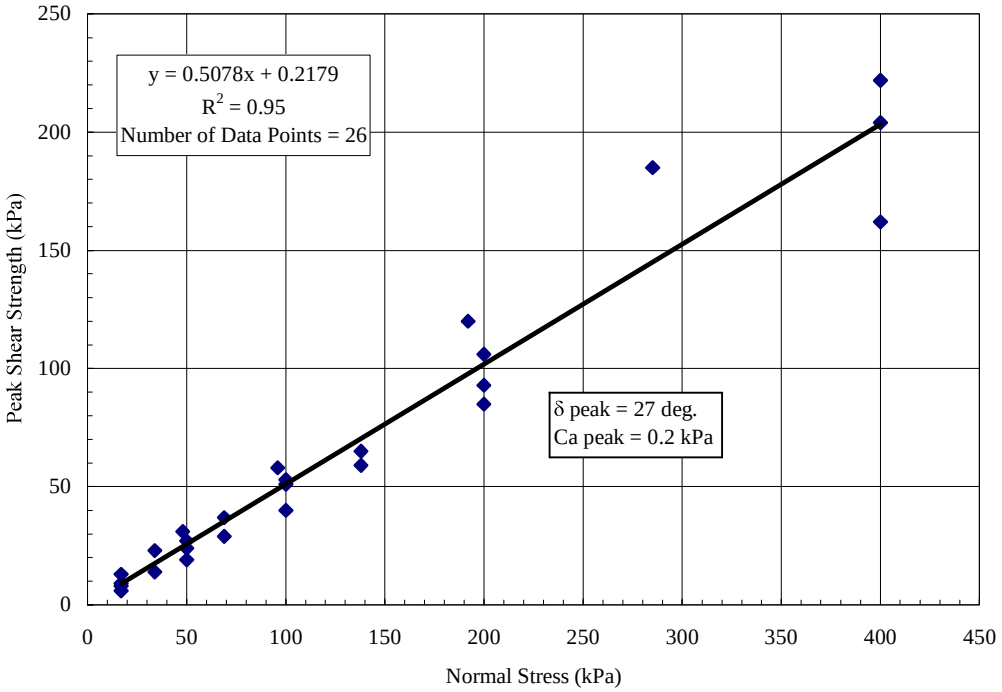
Appendix Figure 5j - Residual Shear Strength; Smooth PVC against Woven Geotextile.



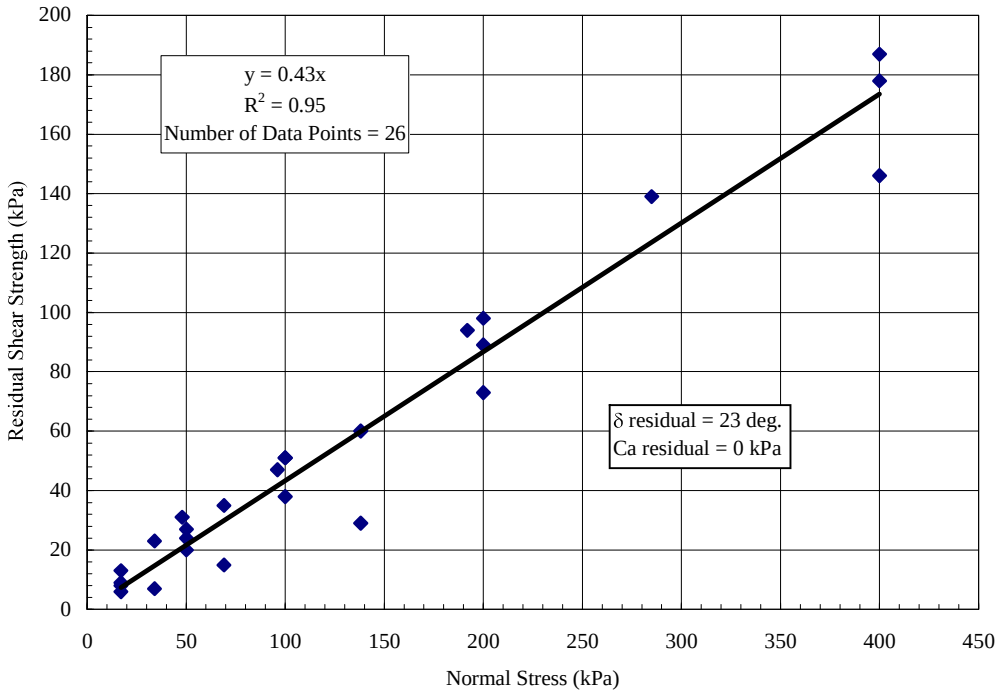
Appendix Figure 5k - Peak Shear Strength; Smooth PVC against Geonet.



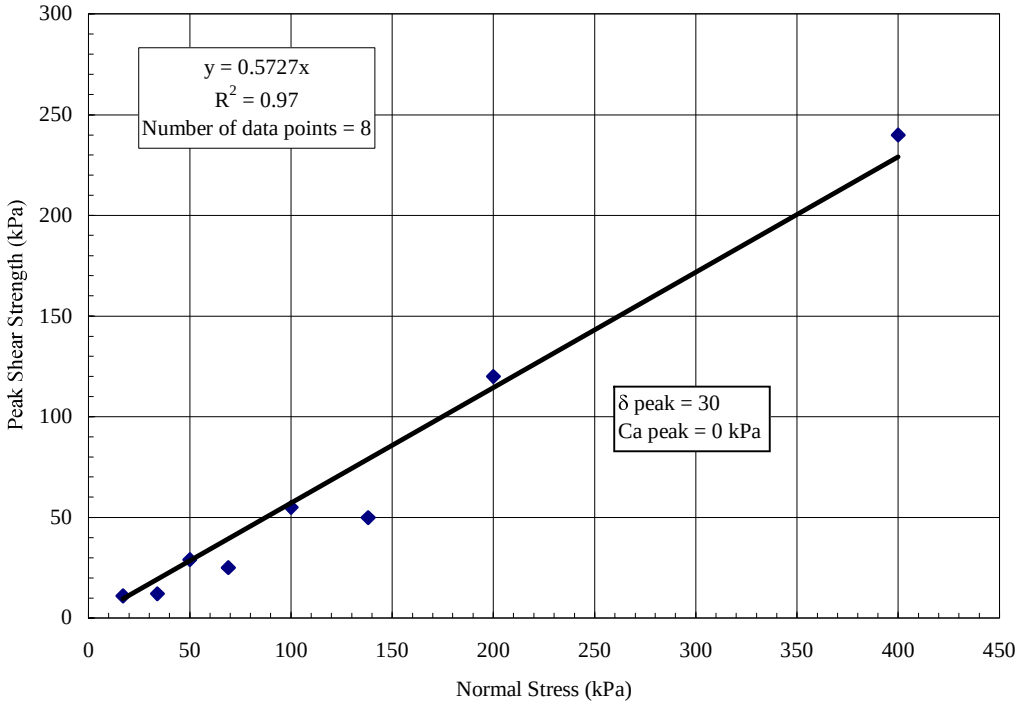
Appendix Figure 5l - Residual Shear Strength; Smooth PVC against Geonet.



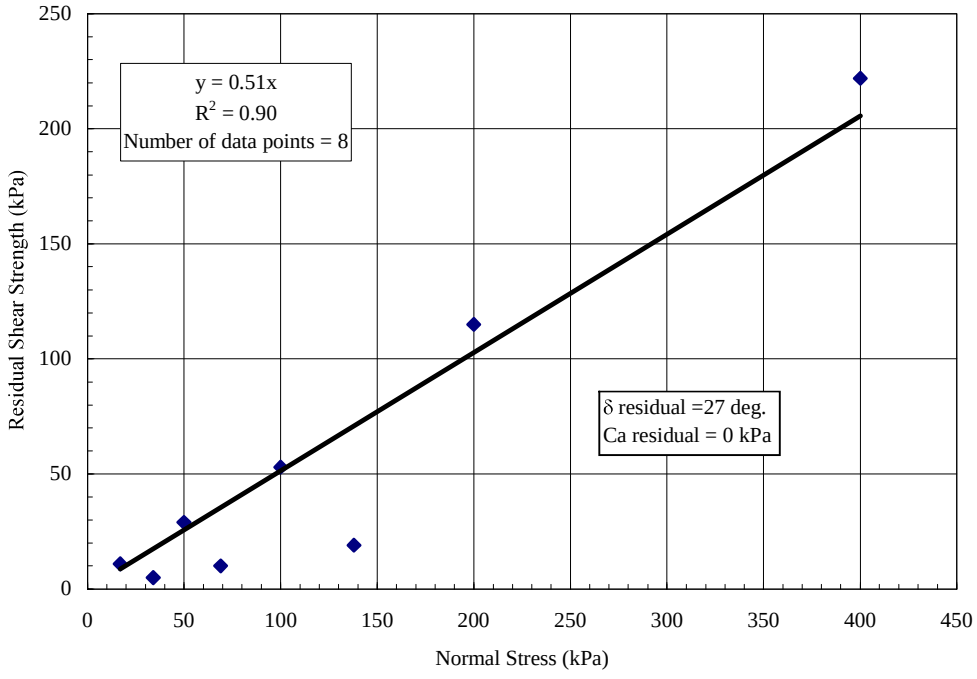
Appendix Figure 6a - Peak Shear Strength; Faille PVC against NW-NP Geotextile.



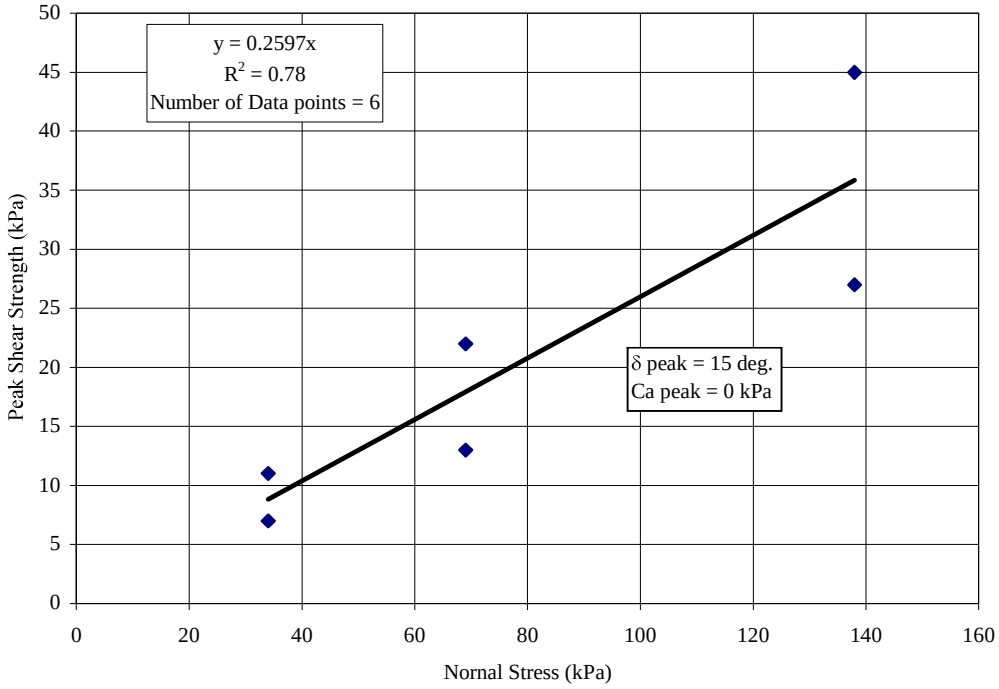
Appendix Figure 6b - Residual Shear Strength; Faille PVC against NW-NP Geotextile.



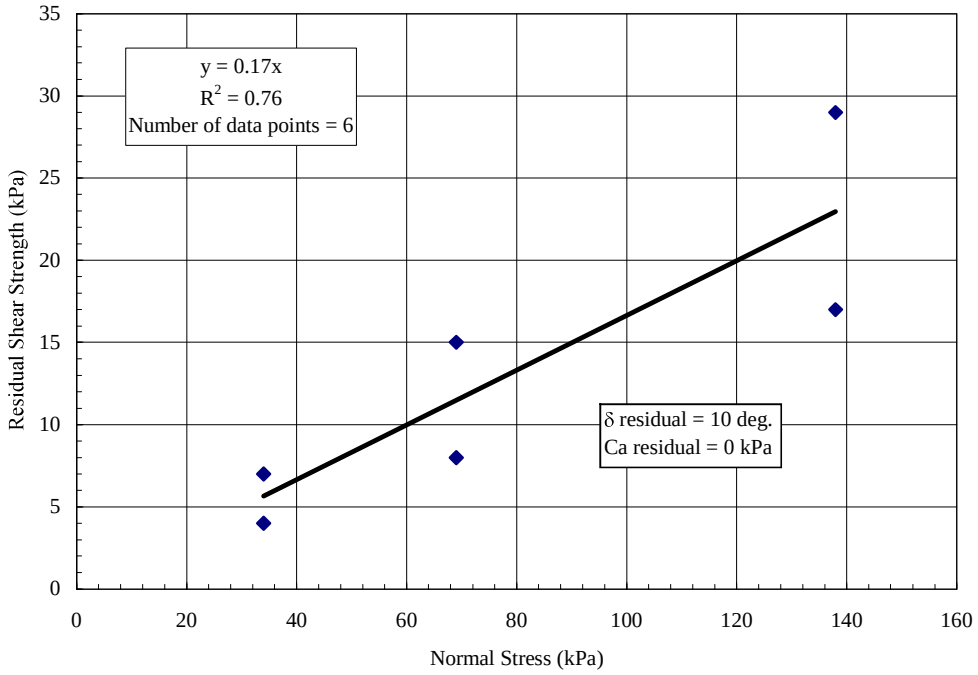
Appendix Figure 6c - Peak Shear Strength; Faille PVC against NW-HB Geotextile.



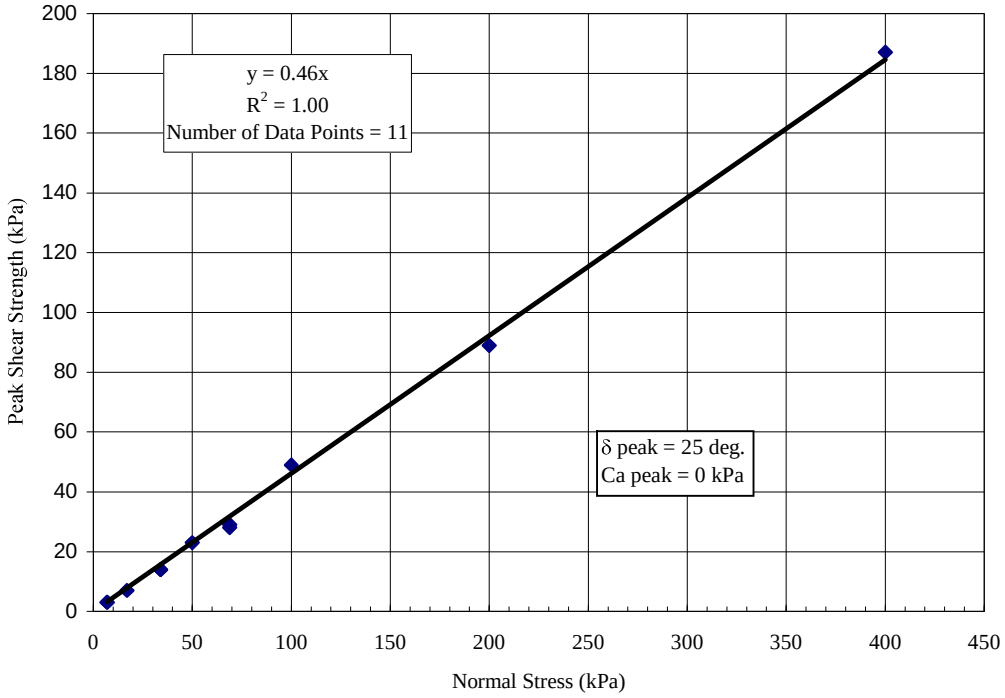
Appendix Figure 6d - Residual Shear Strength; Faille PVC against NW-HB Geotextile.



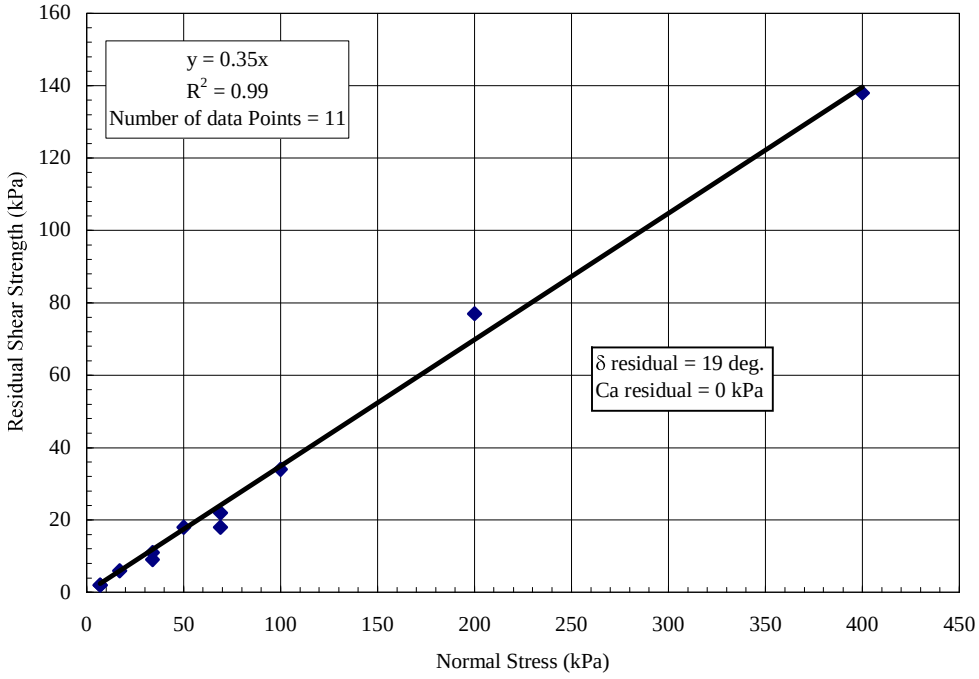
Appendix Figure 6e - Peak Shear Strength; Faille PVC against Woven Geotextile.



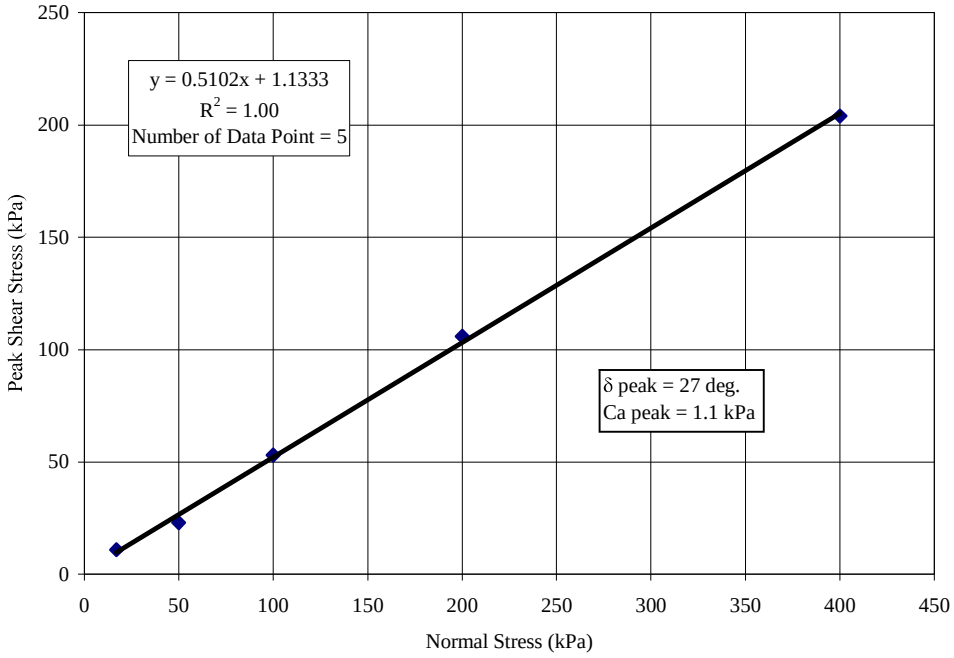
Appendix Figure 6f - Residual Shear Strength; Faille PVC against Woven Geotextile.



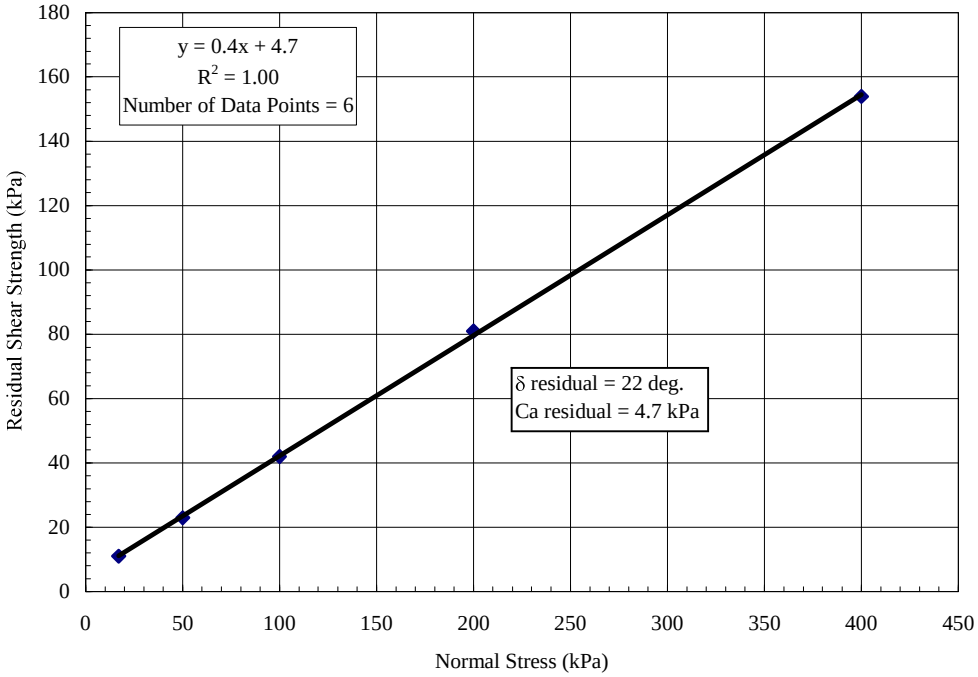
Appendix Figure 6g - Peak Shear Strength; Faille PVC against Geonet.



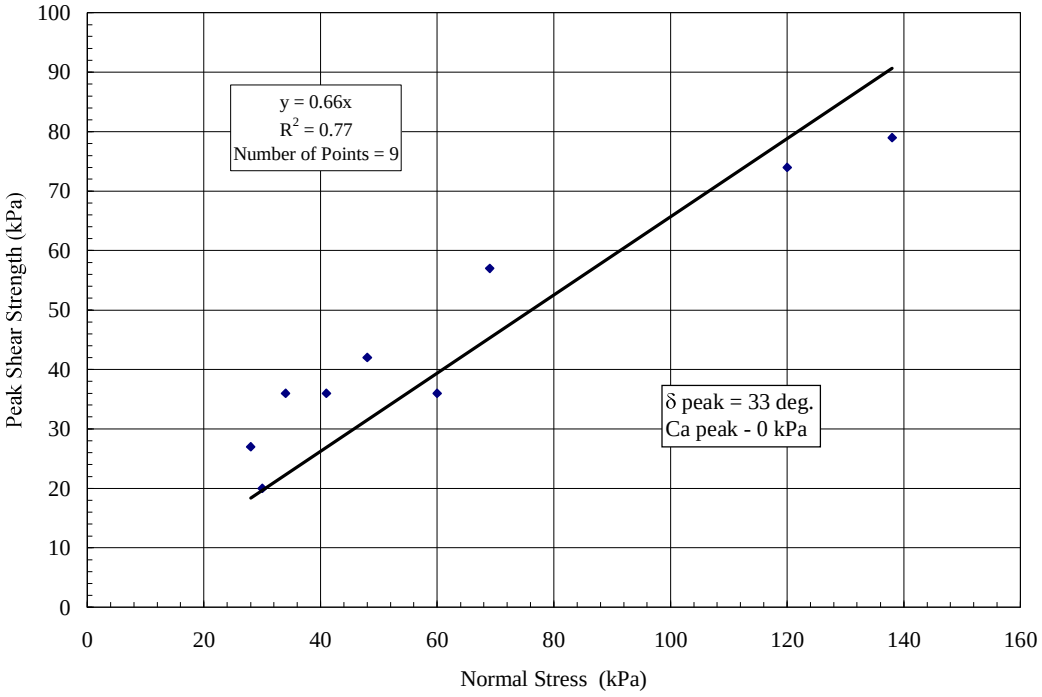
Appendix Figure 6h - Residual Shear Strength; Faille PVC against Geonet.



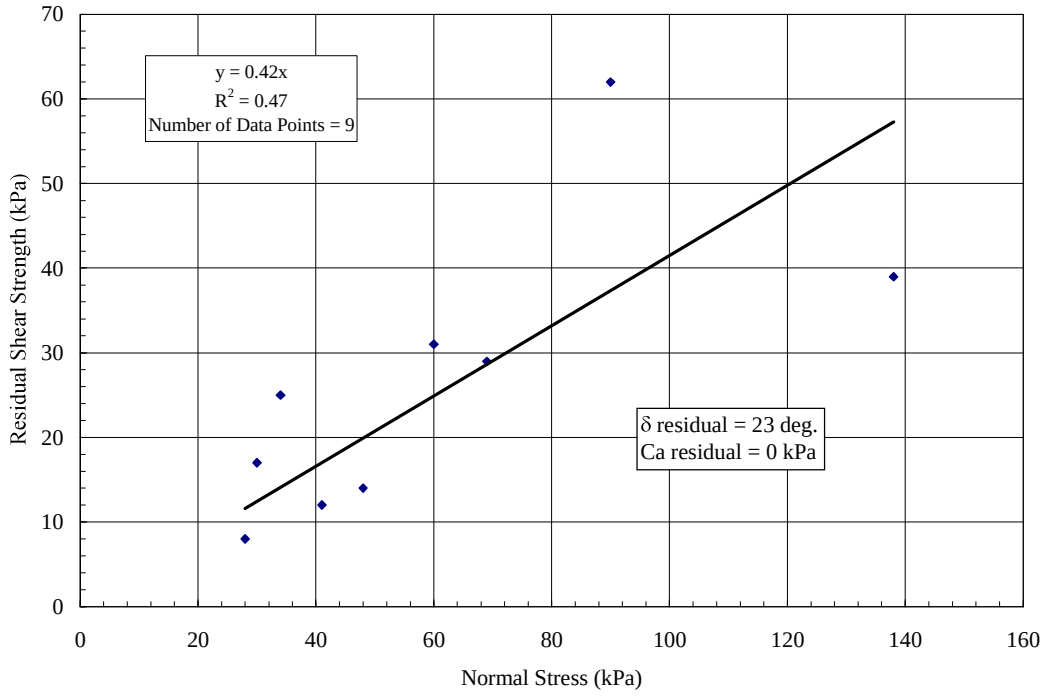
Appendix Figure 6i - Peak Shear Strength; Faille PVC against NW-NP Geotextile on a Drainage Geocomposite.



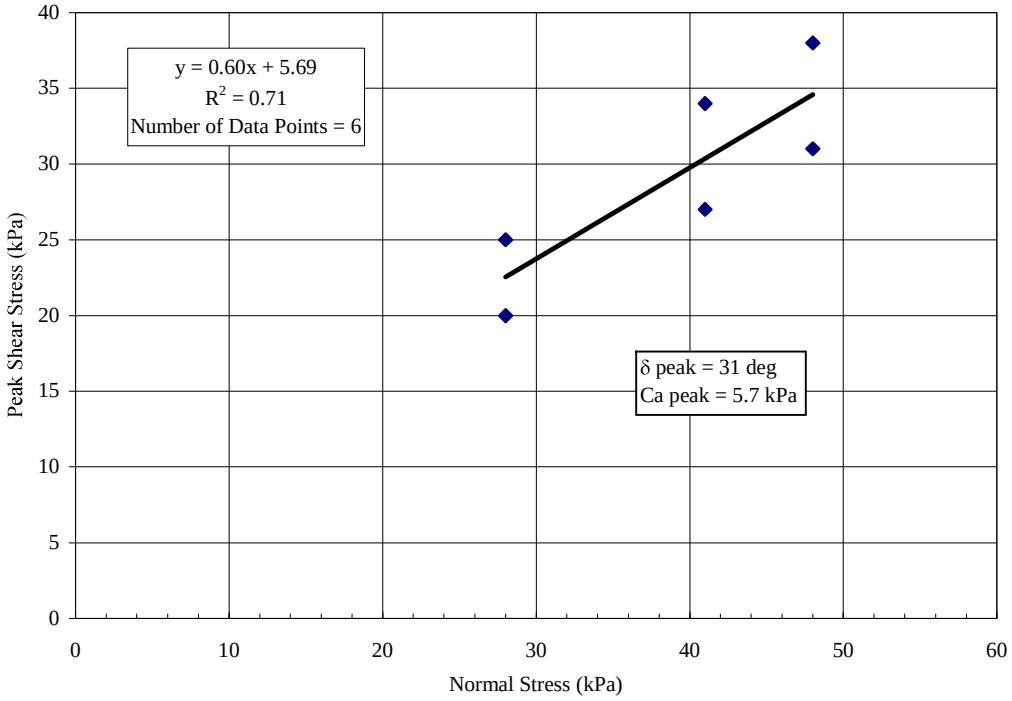
Appendix Figure 6j - Residual Shear Strength; Faille PVC against NW-NP Geotextile on a Drainage Geocomposite.



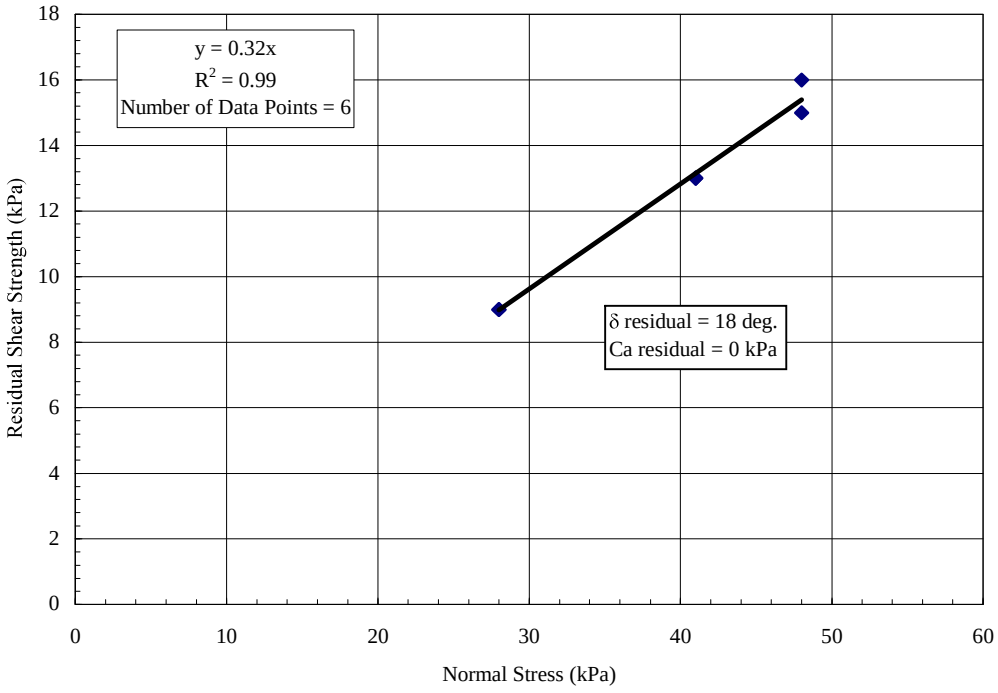
Appendix Figure 7a - Peak Shear Strength; CSPE-R against Granular Soil.



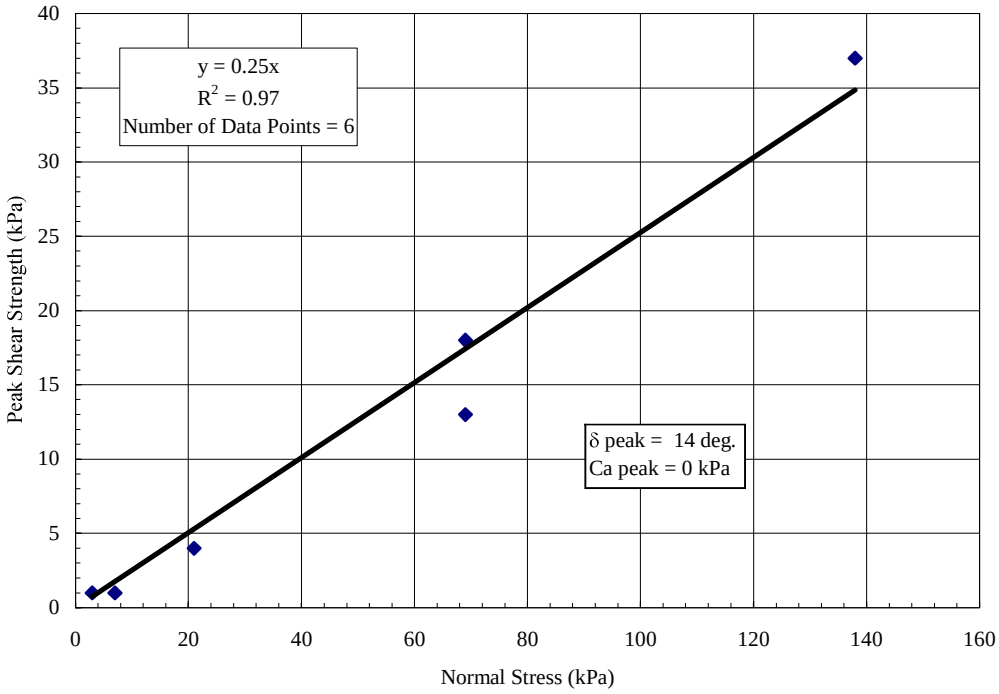
Appendix Figure 7b - Residual Shear Strength; CSPE-R against Granular Soil.



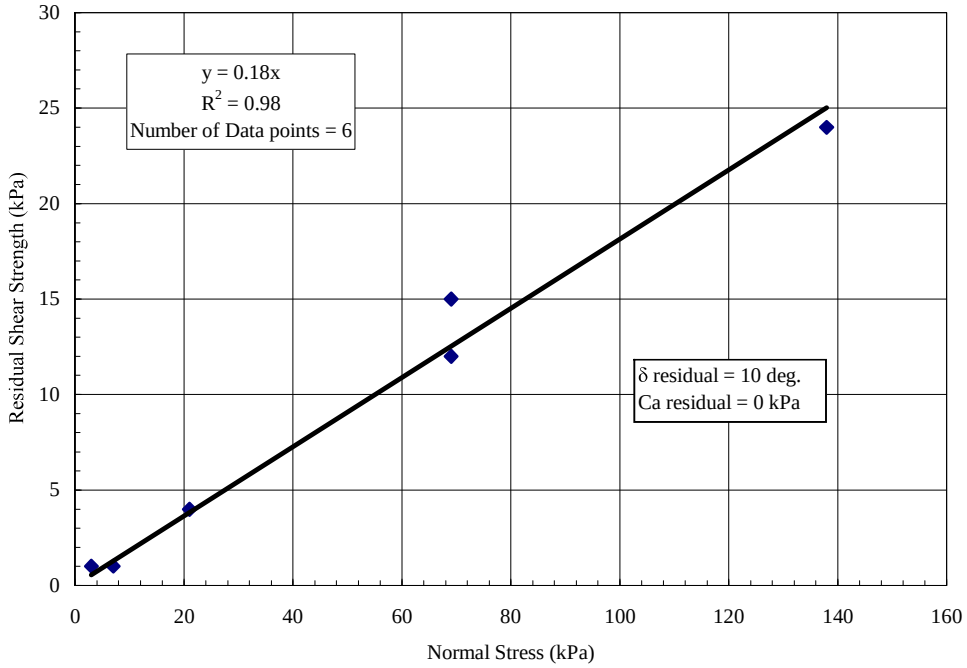
Appendix Figure 7c - Peak Shear Strength; CSPE-R against Cohesive Soil.



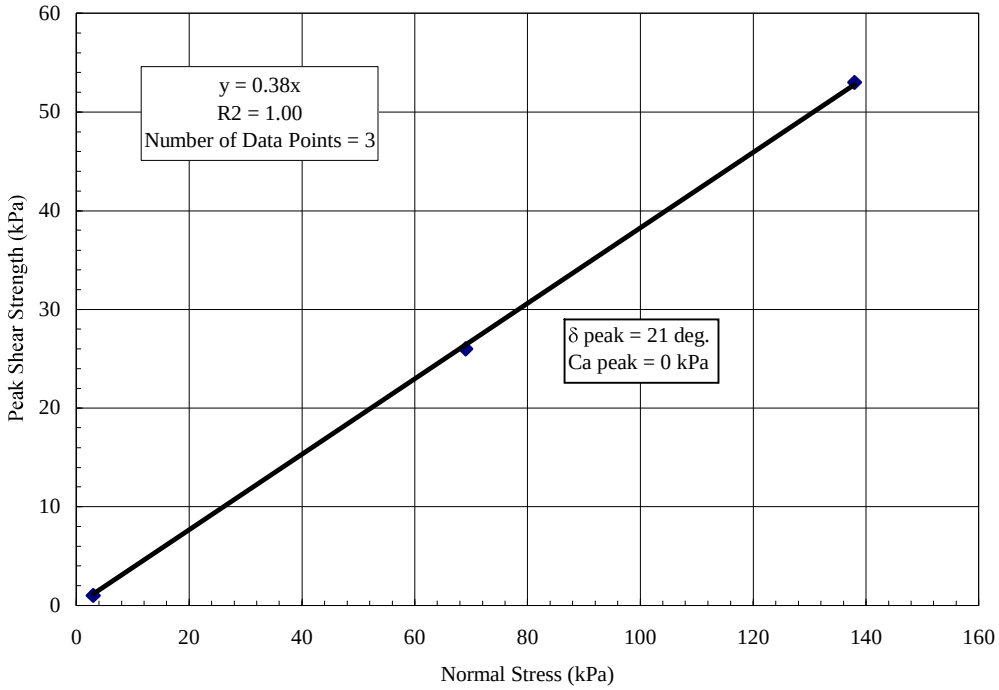
Appendix Figure 7d - Residual Shear Strength; CSPE-R against Cohesive Soil.



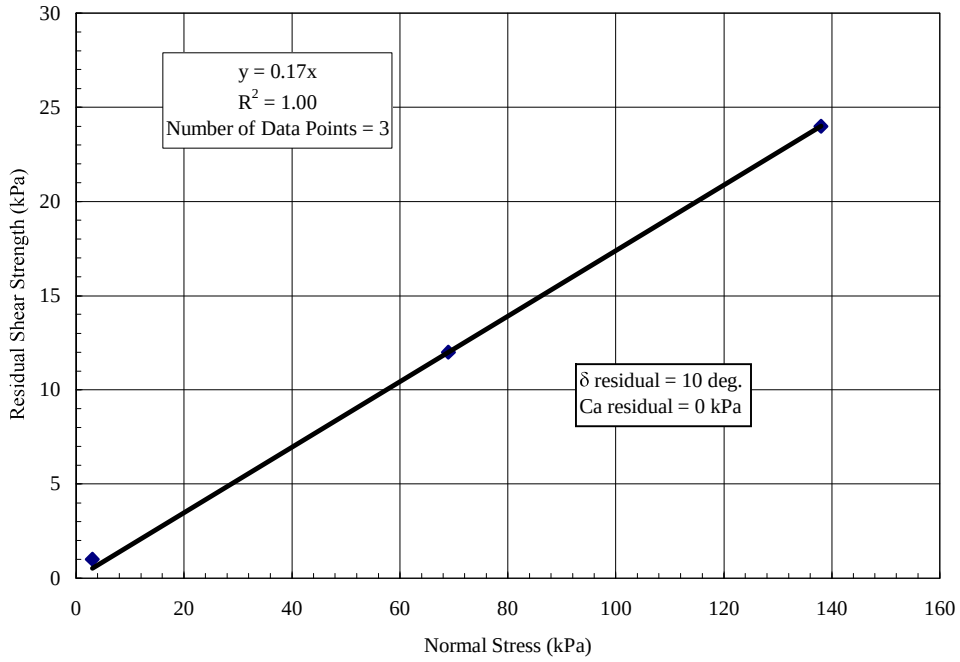
Appendix Figure 7e - Peak Shear Strength; CSPE-R against NW-NP Geotextile.



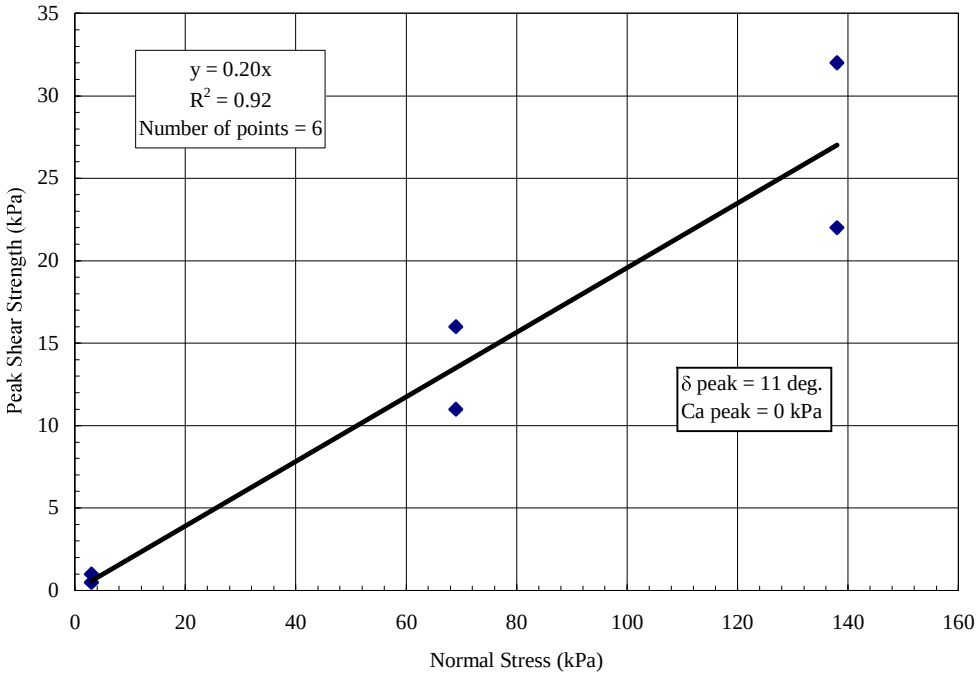
Appendix Figure 7f - Residual Shear Strength; CSPE-R against NW-NP Geotextile.



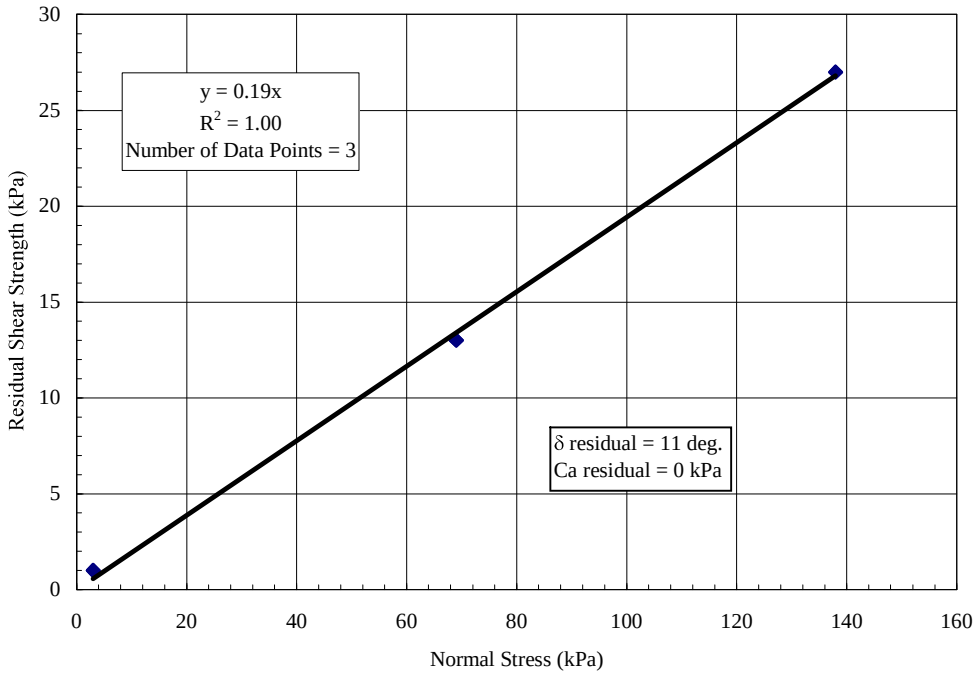
Appendix Figure 7g - Peak Shear Strength; CSPE-R against NW-HB Geotextile.



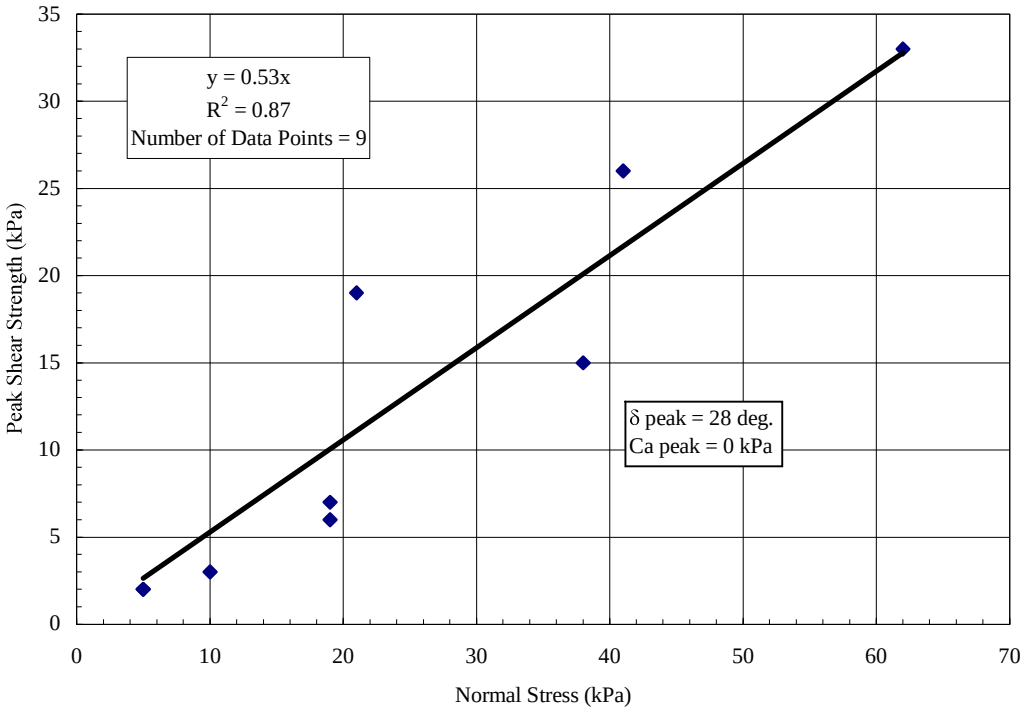
Appendix Figure 7h - Residual Shear Strength; CSPE-R against NW-HB Geotextile.



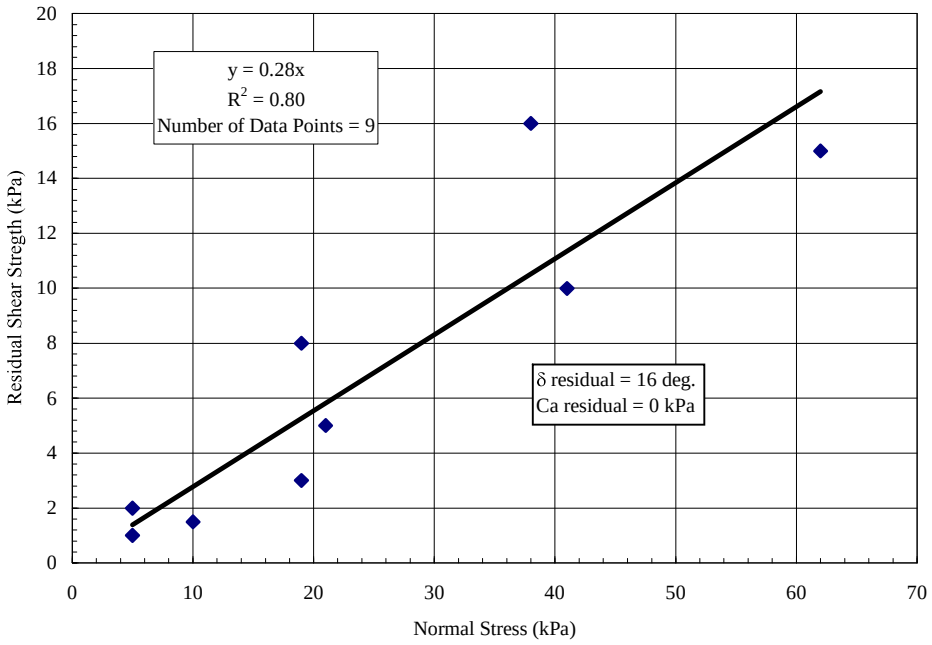
Appendix Figure 7i - Peak Shear Strength; CSPE-R against Woven Geotextile.



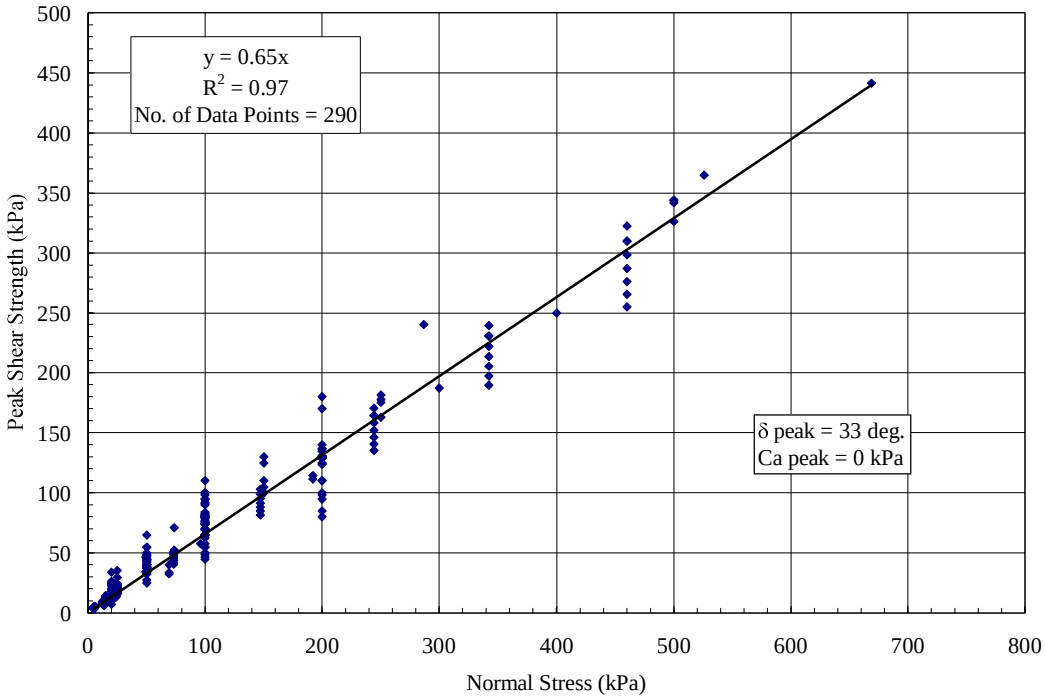
Appendix Figure 7j - Residual Shear Strength; CSPE-R against Woven Geotextile.



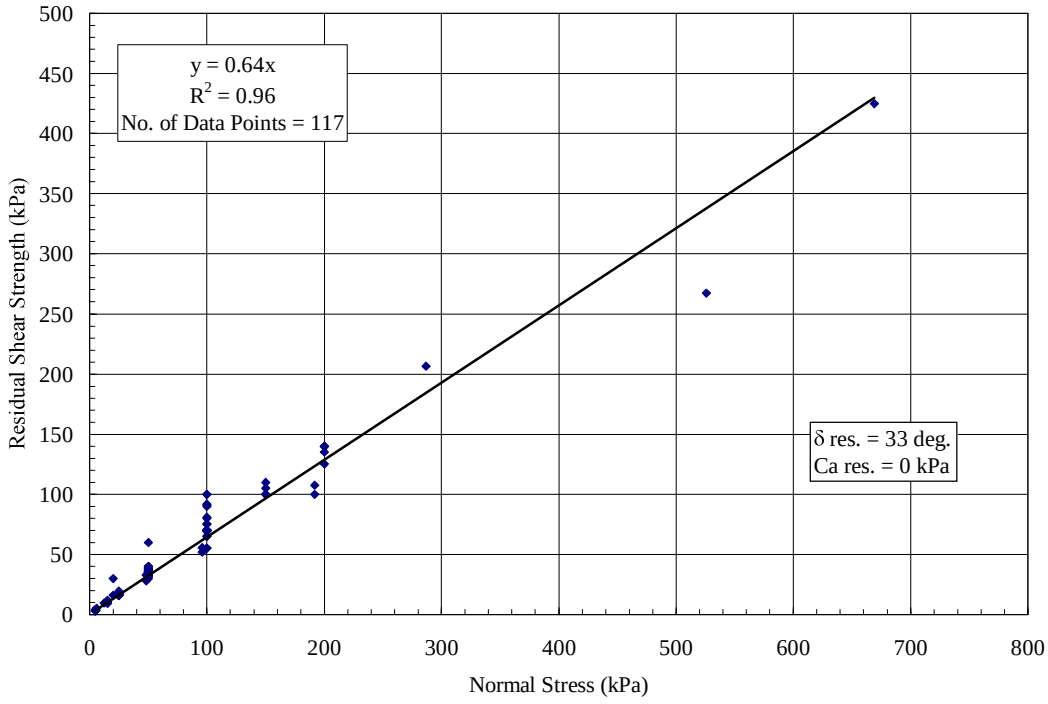
Appendix Figure 7k - Peak Shear Strength; CSPE-R against Geonet.



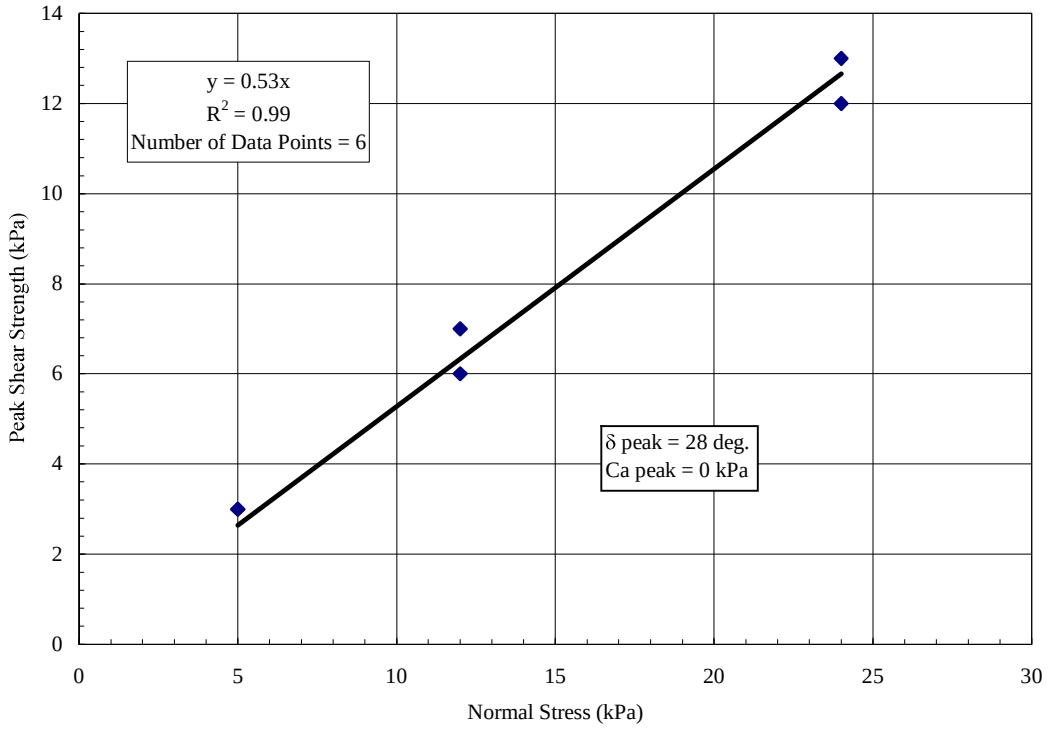
Appendix Figure 7l - Residual Shear Strength; CSPE-R against Geonet.



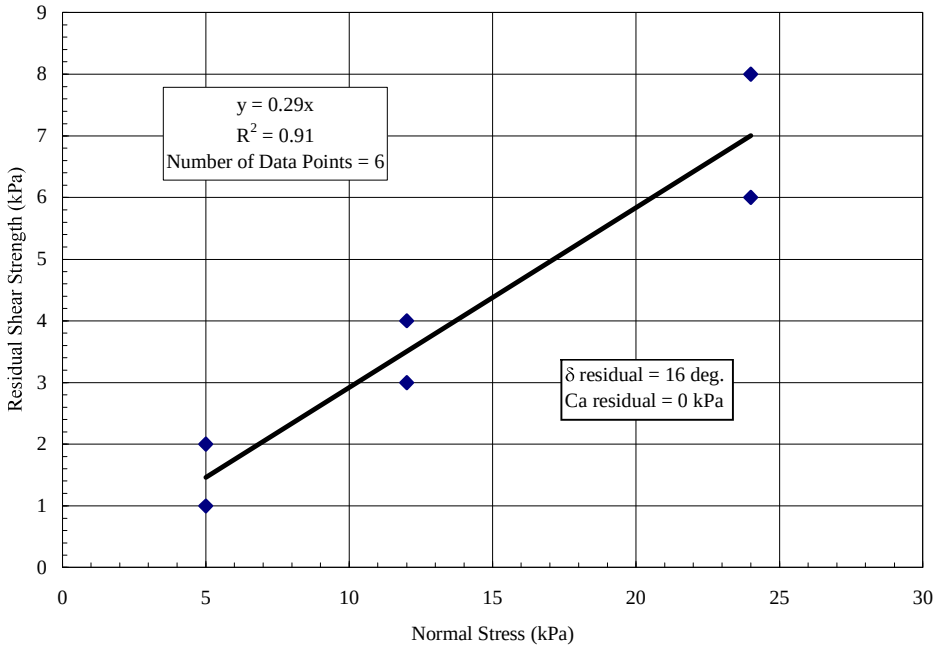
Appendix Figure 8a – Peak Shear Strength; NW-NP Geotextile against Granular Soil.



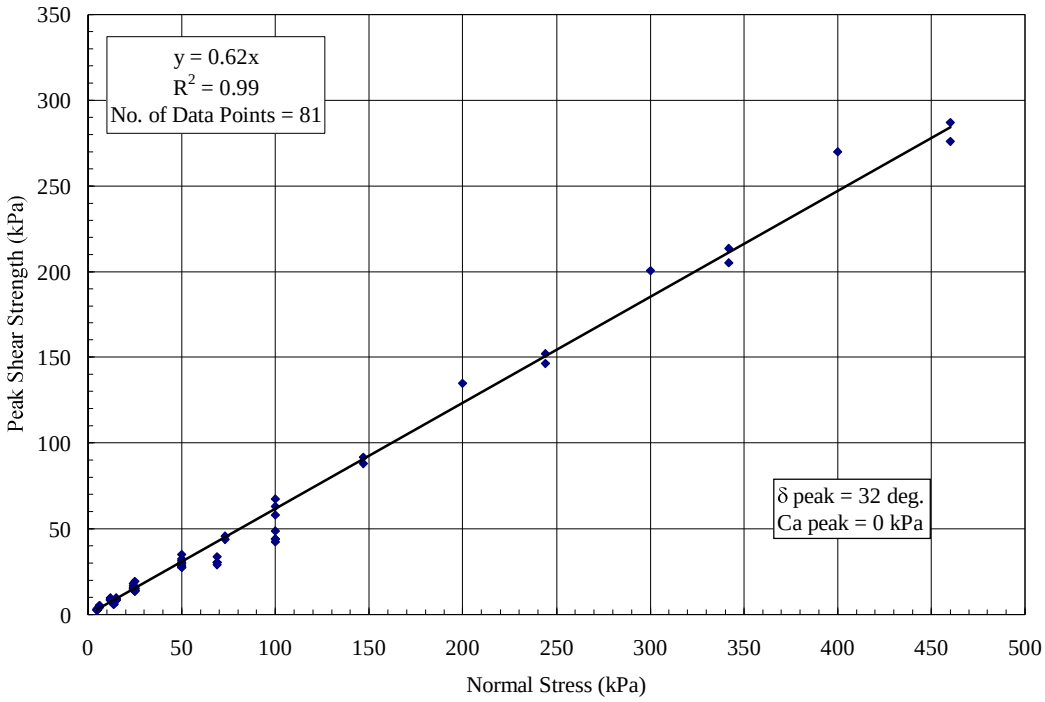
Appendix Figure 8b – Residual Shear Strength; NW-NP Geotextile against Granular Soil.



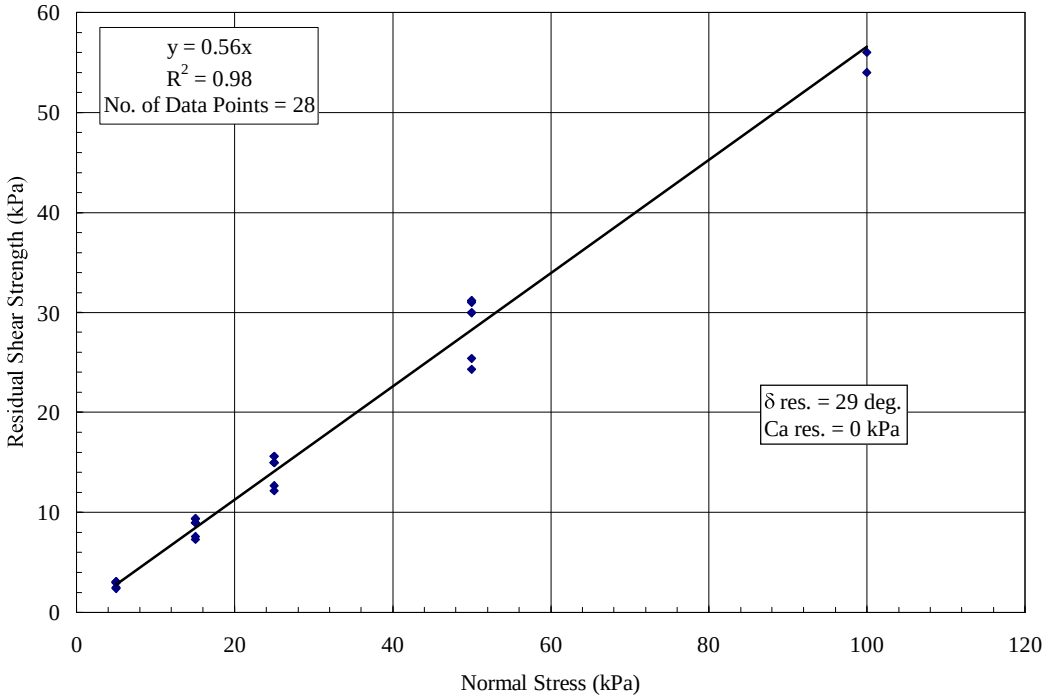
Appendix Figure 8c - Peak Shear Strength; NW-HB Geotextile against Granular Soil.



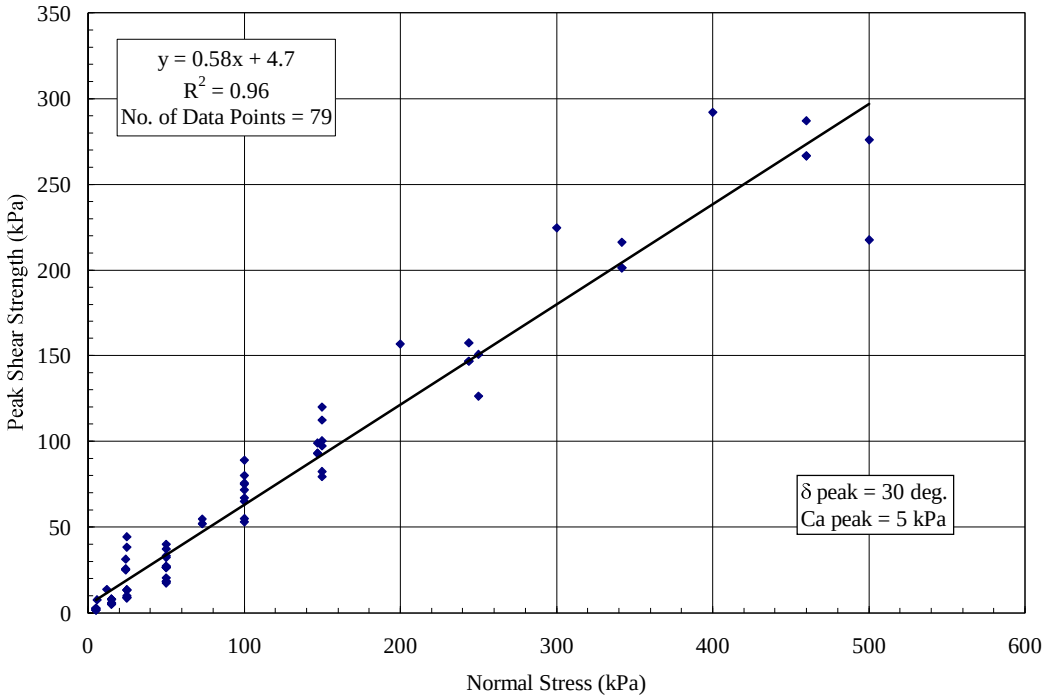
Appendix Figure 8d - Residual Shear Strength; NW-HB Geotextile against Granular Soil.



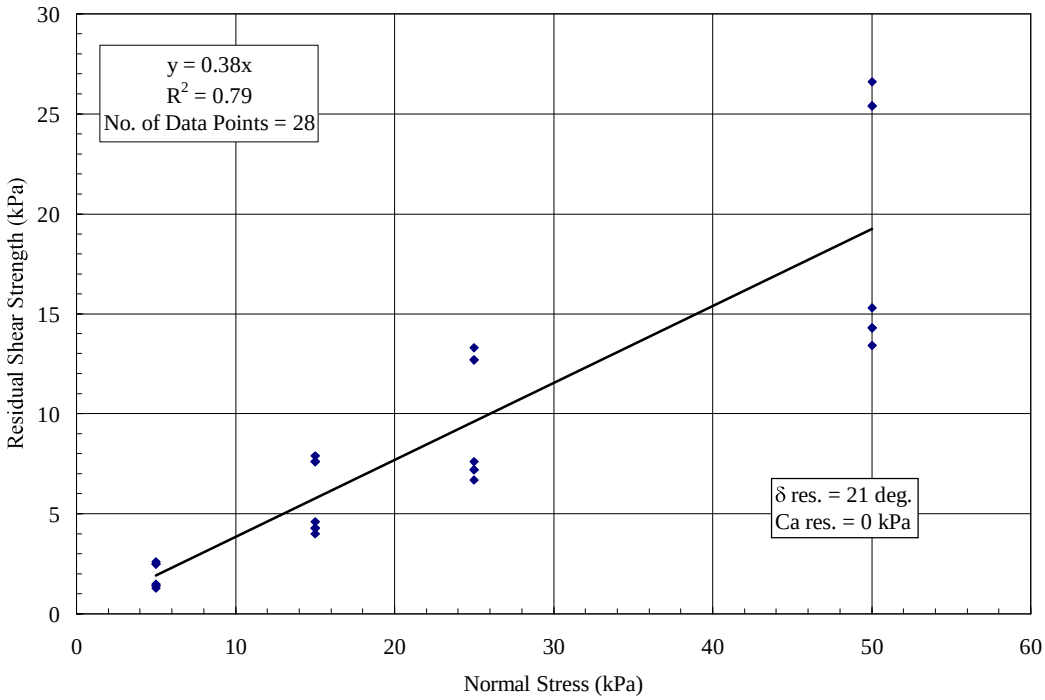
Appendix Figure 8e - Peak Shear Strength; Woven Geotextile against Granular Soil.



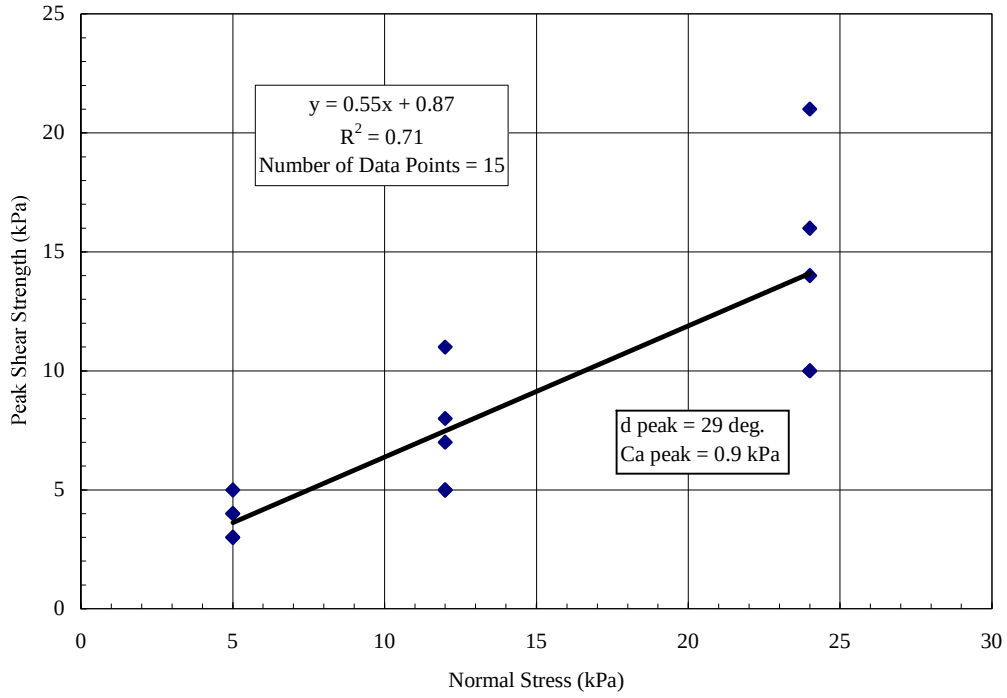
Appendix Figure 8f - Residual Shear Strength; Woven Geotextile against Granular Soil.



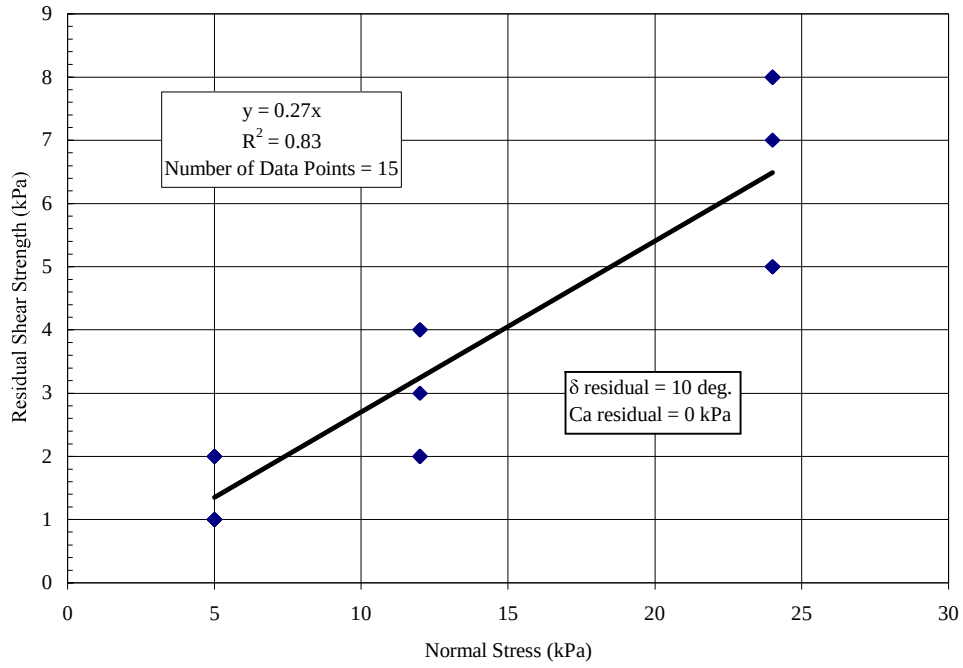
Appendix Figure 9a - Peak Shear Strength; NW-NP Geotextile against Cohesive Soil.



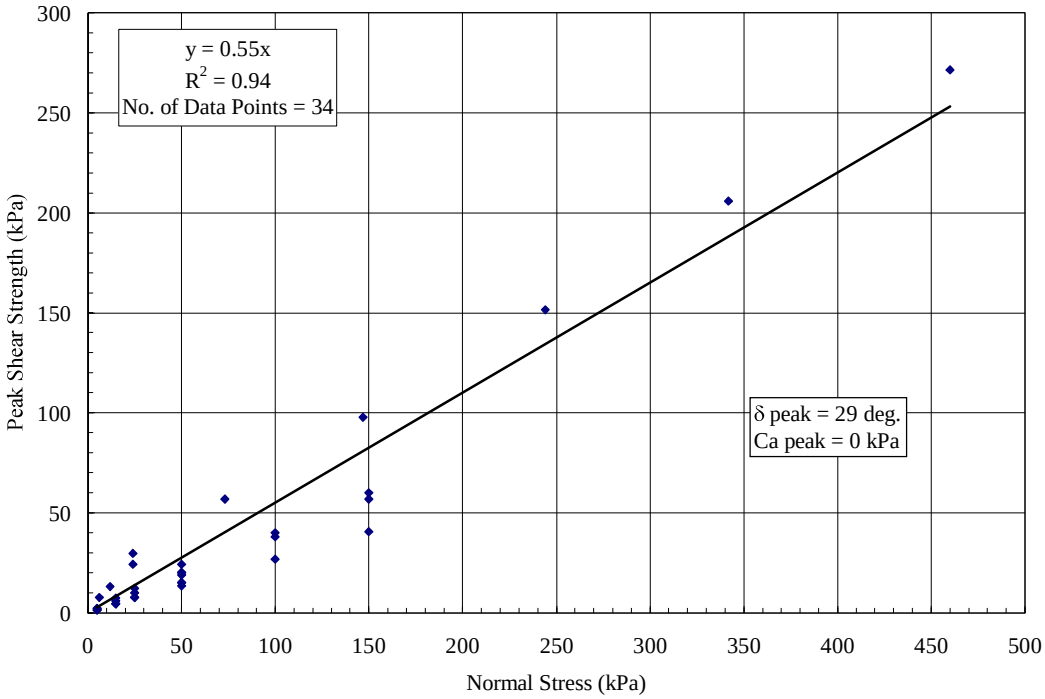
Appendix Figure 9b - Residual Shear Strength; NW-NP Geotextile against Cohesive Soil.



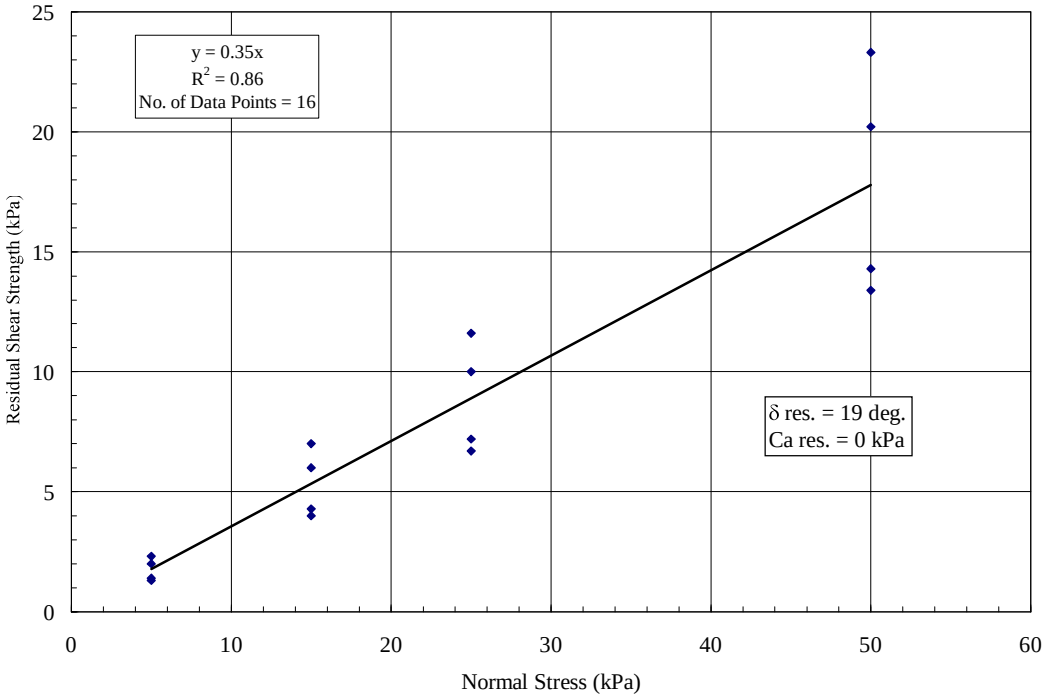
Appendix Figure 9c - Peak Shear Strength; NW-HB Geotextile against Cohesive Soil.



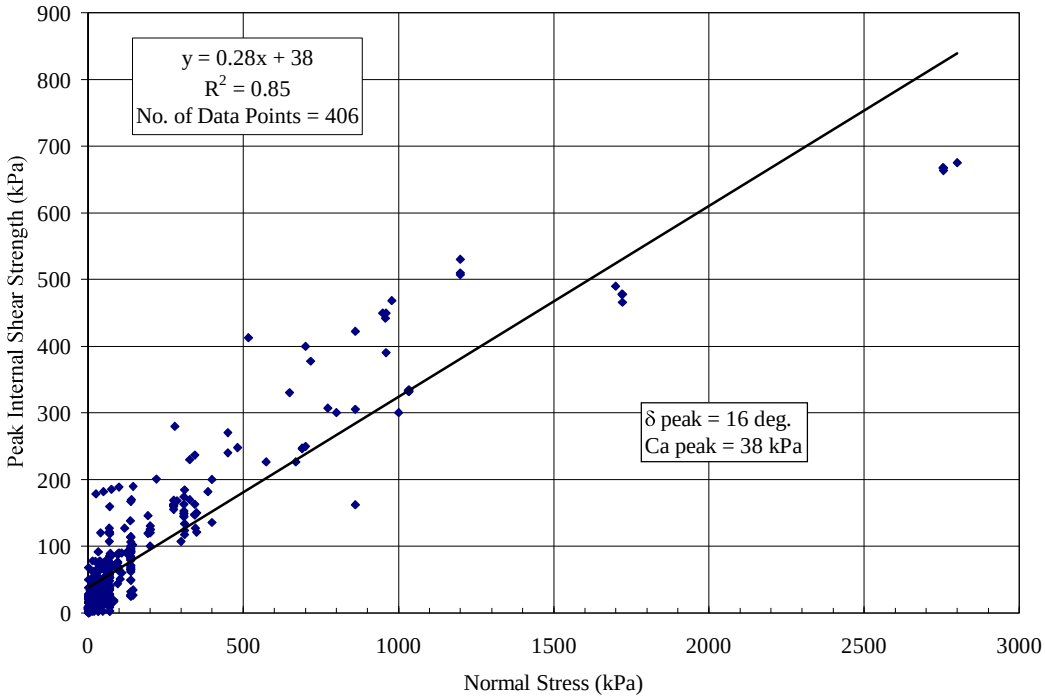
Appendix Figure 9d - Residual Shear Strength; NW-HB Geotextile against Cohesive Soil.



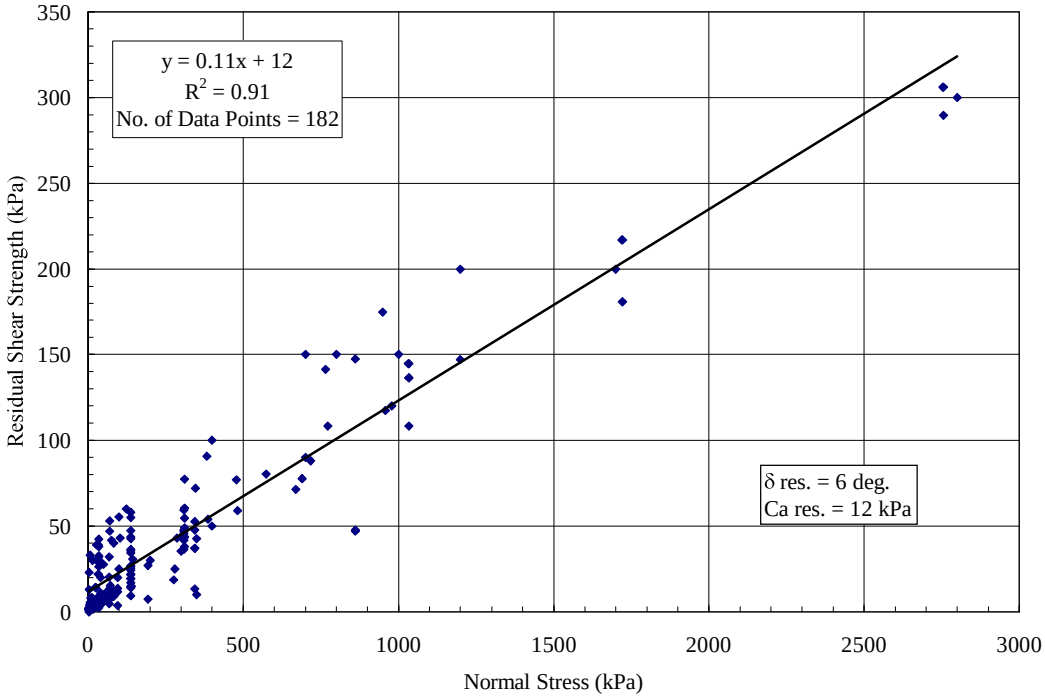
Appendix Figure 9e - Peak Shear Strength; Woven Geotextile against Cohesive Soil.



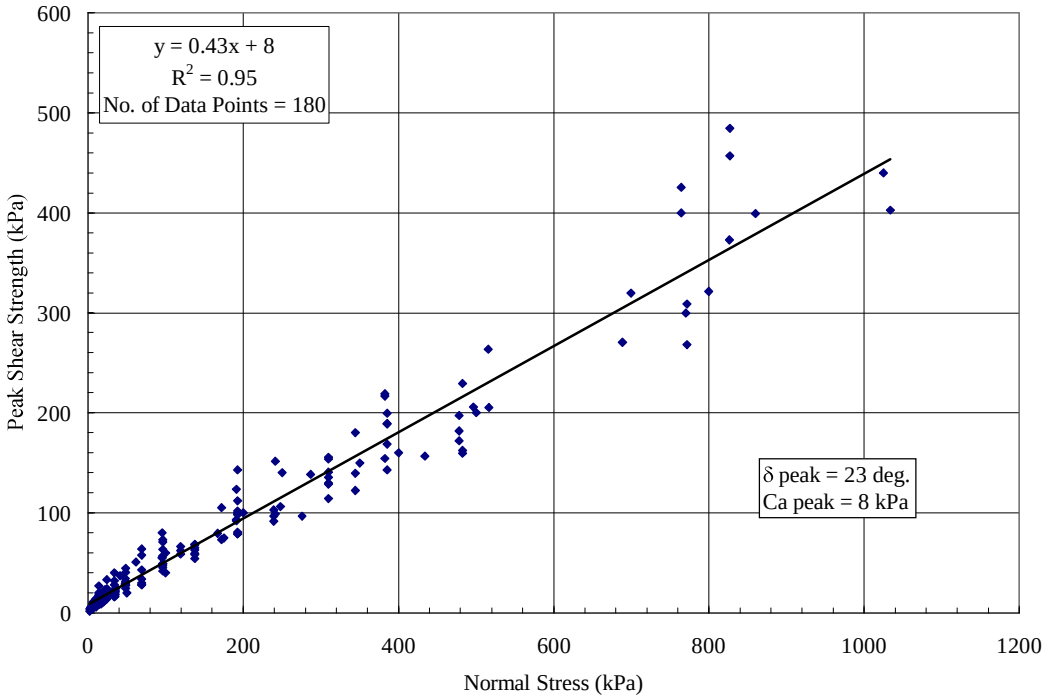
Appendix Figure 9f - Residual Shear Strength; Woven Geotextile against Cohesive Soil.



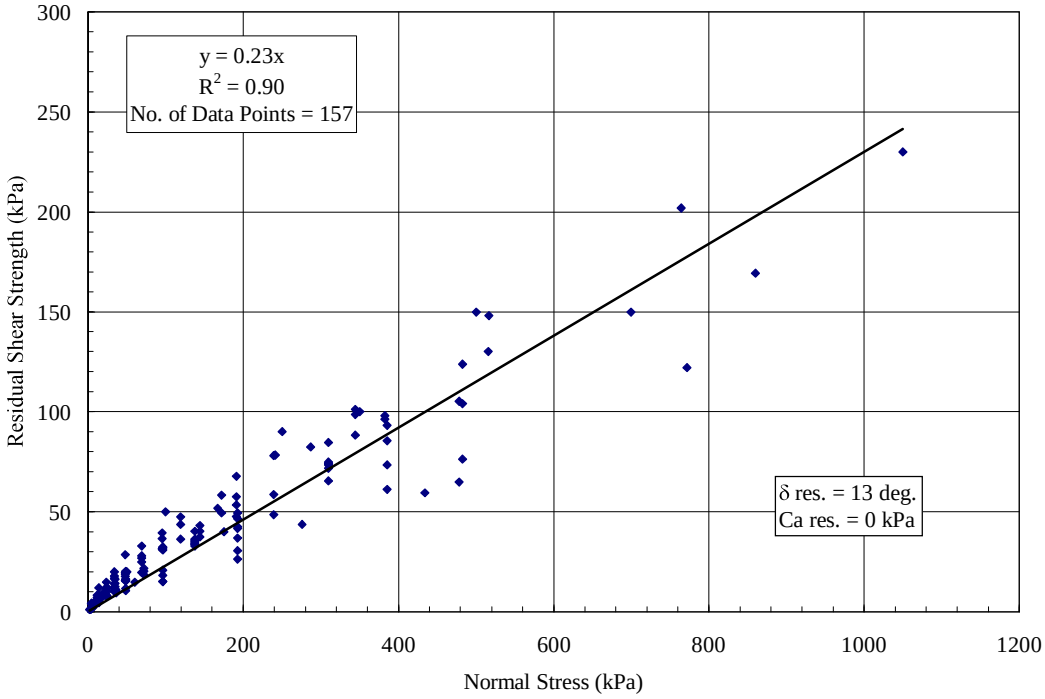
Appendix Figure 10a - Peak Internal Shear Strength of Fabric Reinforced GCLs.



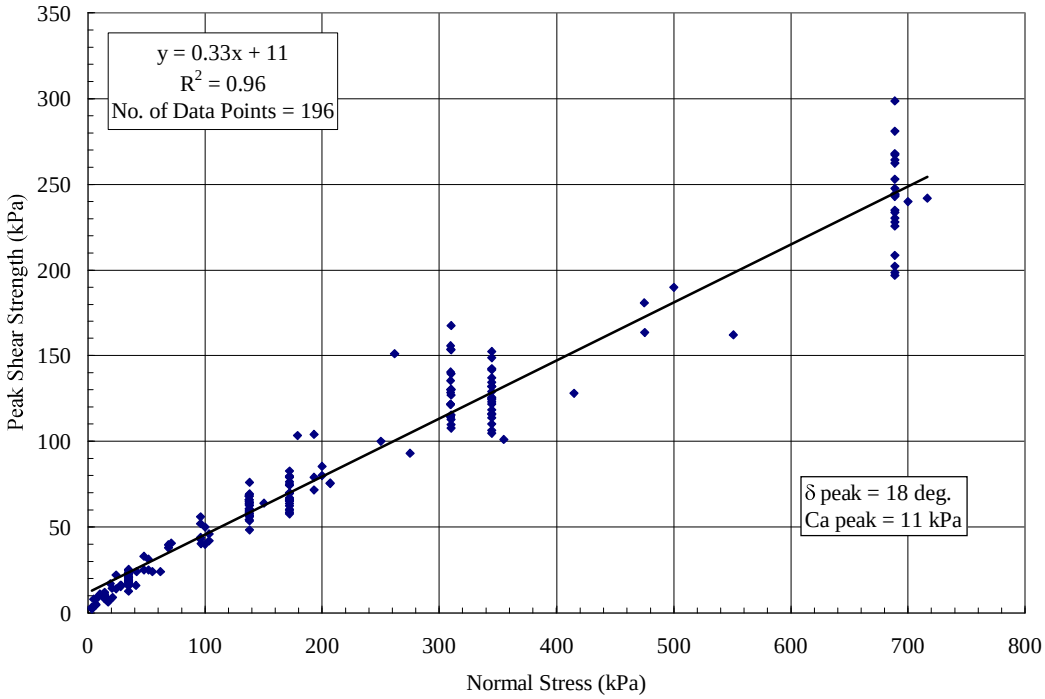
Appendix Figure 10b - Residual Internal Strength of Fabric Reinforced GCLs.



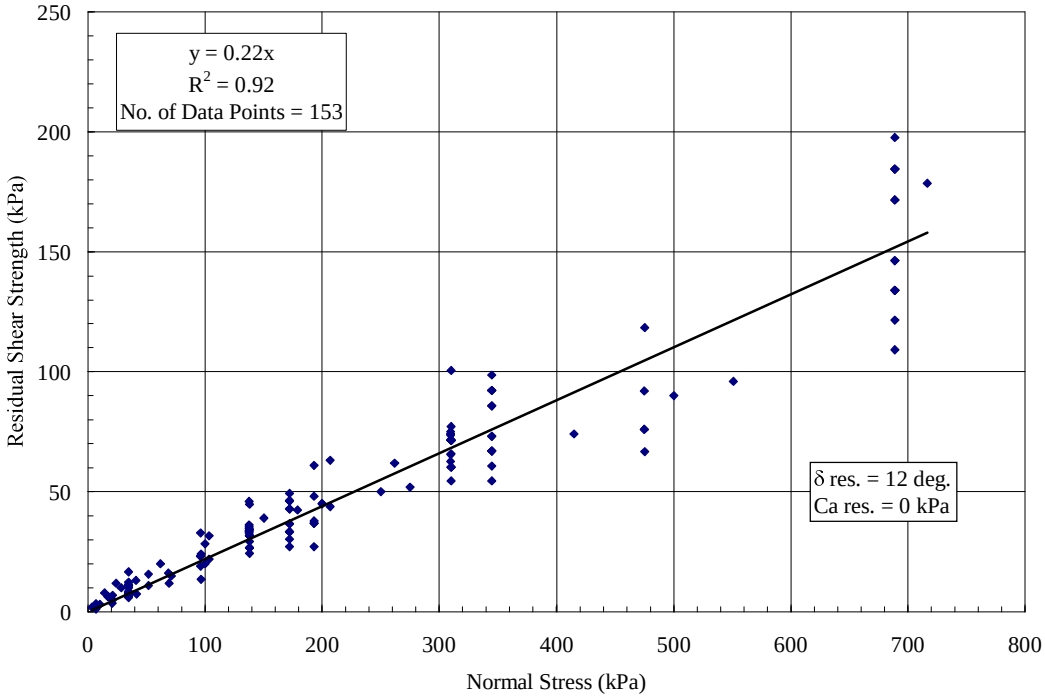
Appendix Figure 11a - Peak Shear Strength; Textured HDPE against NW-NP Side of Fabric-Reinforced GCL.



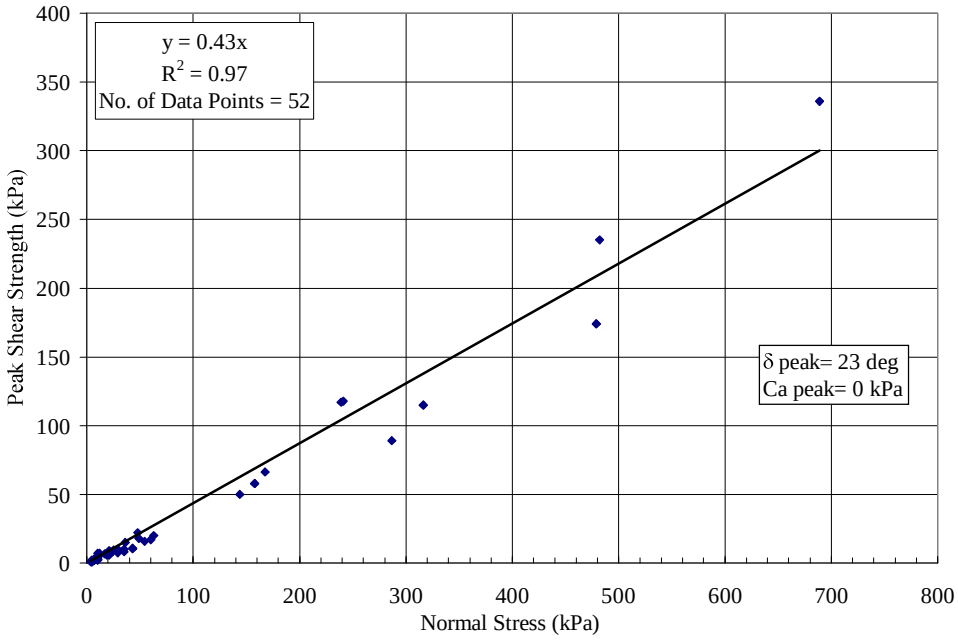
Appendix Figure 11b - Residual Shear Strength; Textured HDPE against NW-NP Side of Fabric-Reinforced GCL.



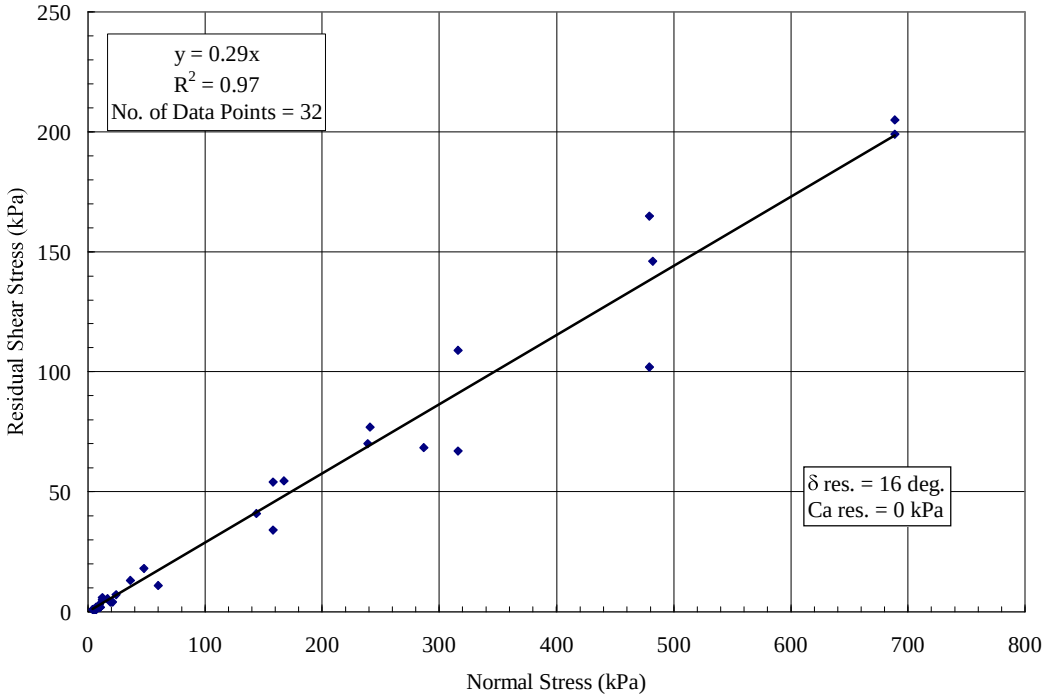
Appendix Figure 11c - Peak Shear Strength; Textured HDPE against Woven Side of Fabric-Reinforced GCL.



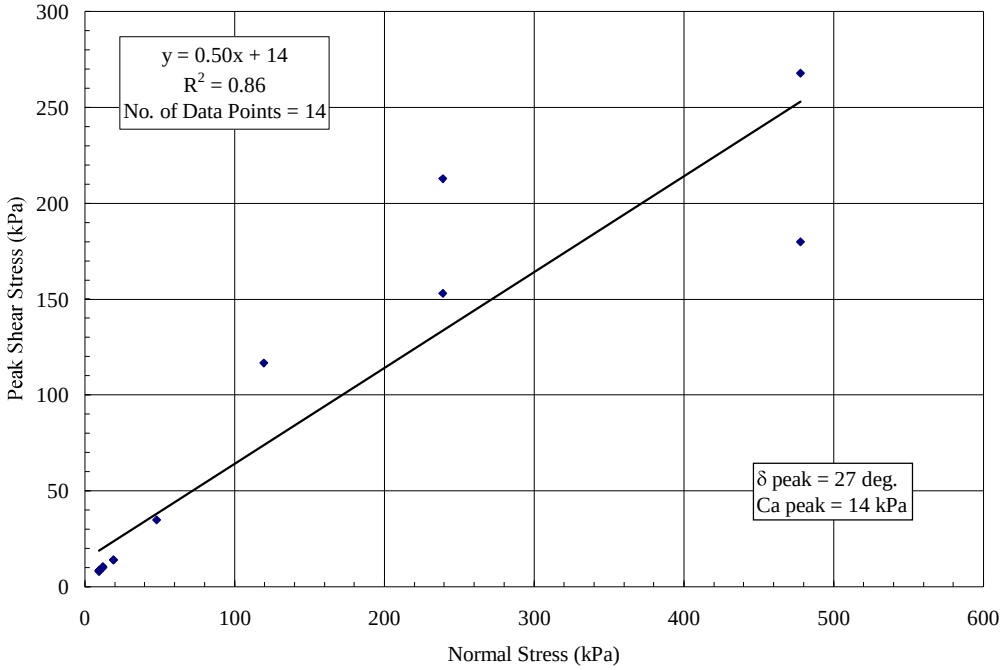
Appendix Figure 11d - Residual Shear Strength; Textured HDPE against Woven Side of Fabric-Reinforced GCL.



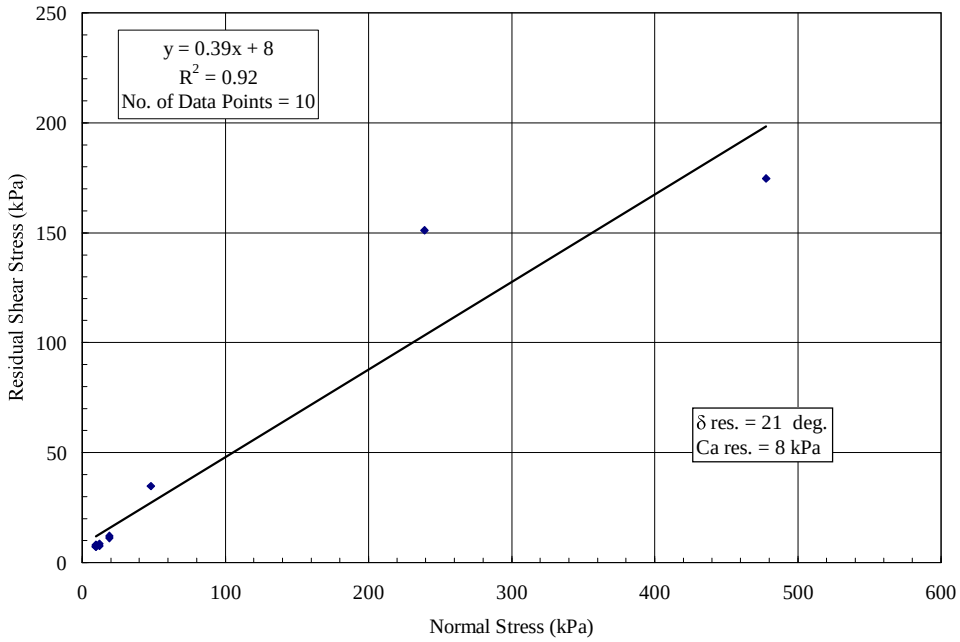
Appendix Figure 12a - Peak Shear Strength; Geonet against NW-NP Geotextile.



Appendix Figure 12b - Residual Shear Strength; Geonet against NW-NP Geotextile.



Appendix Figure 13a - Peak Shear Strength; Drainage Geocomposite against Granular Soil.



Appendix Figure 13b - Residual Shear Strength; Drainage Geocomposite against Granular Soil.

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Appendix **C**
SEISMIC HAZARD EVALUATION

Probabilistic and Deterministic Ground Motion Study
for the Chiquita Canyon Landfill site

Introduction

The scope of work includes an evaluation and update of ground motions at the Chiquita Canyon Landfill site (118.663 W, 34.433 N) from a probabilistic seismic hazard analysis (PSHA). Horizontal uniform hazard acceleration response spectra (5% critical damping) are developed for the project site location for 10% in 5 years hazard level. In addition to the probabilistic ground motions, deterministic spectra are developed based on both median and median plus 0.5σ ground motions from the controlling seismic sources for the site. The ground motion results are developed based on an assumed rock site classification.

The Chiquita Canyon Landfill site is located in a highly faulted region near the base of the San Gabriel Mountains (Figure 1). Based on the long term slip-rates, historical activity, and proximity to the site, the faults that will have a significant effect on the probabilistic ground motions are the Holser, Del Valle, Santa Fellicia, San Gabriel, Oakridge, San Cayetano, Santa Susana, Simi, Sierra Madre Thrust fault zone (San Fernando, Dunsmore, Sierra Madre, Duarte, Claremont, and Cucamonga segments), and the San Andreas Fault. The 1994 Northridge earthquake which occurred on a blind thrust fault is also considered in the analysis. These seismic sources are discussed below. There are many additional faults within 100 km of the site, however their contribution to both the probabilistic and deterministic ground motions is less significant.

Probabilistic Hazard Analysis

The results presented in this report represent an update to the ground motions developed in 1997 for the Chiquita Canyon Landfill site and are based on more recent fault and attenuation models. The probabilistic seismic hazard analysis follows the standard approach first developed by Cornell (1968). This approach has been expanded to more fully treat both the randomness (i.e., aleatory variability) and the scientific uncertainty (i.e., epistemic uncertainty). The mathematical formulation of the hazard analysis used in this study is described in Appendix A.

Seismic Source Characterization

The Chiquita Canyon Landfill site is located about 1 km from both the Holser and Del Valle faults in Southern California (Figure 1). The following faults are all within approximately 20 km of the site: Oakridge, San Cayetano, Sierra Madre, Santa Susana, Northridge, San Gabriel, and Simi-Santa Rosa. The San Andreas is located about 33 km east of the site. Due to their close distance and activity rates, these seismic sources control the seismic hazard at the site.

The mean source parameters used in this PSHA study are listed in Table 1. This seismic source characterization is based on the CDMG source model used for the state hazard maps (USGS, CDMG, 1996, 2003) and the Working Group on California Earthquake Probabilities (1995) source model. The maximum magnitudes listed in Table 1 are computed using the Wells and Coppersmith (1994) magnitude-area scaling relation for all fault types.

Holser, Del Valle, and Santa Fellicia Faults

There are three small faults close to the site: Holser, Del Valle, and Santa Fellicia. The faults are between 8 and 16 km long. The Holser fault is closest to the Chiquita Canyon Landfill site with a surface outcrop located approximately 1 km northwest of the site. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Holser, Del Valle, and Santa Fellicia faults.

The magnitude of the event on the Holser fault was estimated from the area of fault using the Wells and Coppersmith (1994) magnitude - fault area scaling relation for all fault types. The maximum down dip width of the Holser fault is 17 km. Using a length of rupture of 16 km and a width of 17 km leads to a mean maximum magnitude of 6.5. An estimated mean slip rate of 0.4 mm/yr was used in the probabilistic analysis.

San Gabriel Fault

The San Gabriel Fault is located approximately 7 km northeast of the site. The San Gabriel Fault has a total length of about 73 km with predominately strike-slip and reverse slip motion dipping to the northeast (away from the site). There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the San Gabriel fault. Based on a fault width of 14 km, the median maximum credible earthquake is 7.0.

Oakridge Fault

The Oakridge Fault is located approximately 4 km west of the site. The Oakridge Fault has a total length of about 97 km with oblique slip motion dipping to the north. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Oakridge fault. The median maximum credible earthquake is 7.1 based on a fault width of 13.0 km.

San Cayetano Fault

The San Cayetano Fault is located approximately 6 km west of the site. The San Cayetano Fault has a total length of about 45 km with oblique slip motion dipping to the north. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the San Cayetano fault. The fault width for the San Cayetano fault is taken as 14 km which leads to a median maximum credible earthquake magnitude of 6.8.

Santa Susana Fault

The surface trace of the Santa Susana Fault is located approximately 5 km south of the site. The Santa Susana Fault has a total length of about 32 km with oblique slip motion dipping to the north (toward the site). There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Santa Susana Fault. Using a length

of rupture of 32 km and a width of 14 km leads to a median maximum credible magnitude of 6.7.

Simi Fault

The Simi fault is part of the Simi-Springfield-Camarillo fault system. It is located approximately 12 km south of the site. The Simi-Springfield-Camarillo fault system has a total length of about 45 km with oblique slip motion dipping to the north. There have been no historical earthquakes with magnitude greater or equal to 5.0 associated with the Simi-Springfield-Camarillo fault system. The fault width for this fault system is 14 km. The estimated median maximum credible earthquake is 6.7.

Sierra Madre Thrust Zone

The Sierra Madre Thrust zone consists of several east-west trending thrust faults: San Fernando Fault, Dunsmore Fault, Sierra Madre Fault, Duarte Fault, Claremont Fault, and Cucamonga Fault. The site is located closest to the San Fernando segment which is about 21 km to the southeast. The total fault length of the Sierra Madre Thrust zone is about 63 km. The San Fernando segment has a length of 20 km.

The largest historical earthquake on the Sierra Madre Thrust zone was the 1971 San Fernando earthquake with magnitude 6.6. This event ruptured the San Fernando segment. Based on a fault width of 14 km, the median maximum credible earthquake for the Sierra Madre Thrust Zone is 7.0.

1994 Northridge Event (Blind Thrust)

The 1994 Northridge earthquake (moment magnitude 6.7) occurred on a blind thrust fault east of the Chiquita Canyon Landfill site. The fault dips about 42 degrees to the southwest. This fault dips in the opposite direction as the 1971 San Fernando earthquake so it is not associated with the San Fernando Fault. The rupture is at a depth of 20 km at the southeast end and at a depth of 6 km at the north end. The closest distance from the rupture to the site is about 10 km. For the estimation of the MCE magnitude the fault length and width of 31 km and 18 km, respectively were selected for the Northridge thrust. The median characteristic magnitude is 6.8

San Andreas Fault

The San Andreas Fault is located approximately 32 km north-east of the site. This section of the San Andreas Fault is called the Carrizo Plain Segment. The San Andreas Fault is a predominately right-lateral strike-slip fault extending from Cape Mendocino to Mexico. The northern and southern sections of the fault are divided by the central creeping section south of Hollister to Parkfield. The southern half of the San Andreas Fault is further segmented near San Bernardino at the junction with the San Jacinto Fault. There are four segments of the San Andreas Fault between the creeping section and the San Jacinto Fault junction: Parkfield, Cholame, Carrizo, and Mohave. These four segments may rupture independently or simultaneously.

The largest historical earthquake on the Carrizo Plain segment was the 1857, Fort Tejon Earthquake with a moment magnitude of 7.9 (Well and Coppersmith, 1994). This earthquake was due to simultaneous rupture of the Parkfield, Cholame, Carrizo, and Mohave segments.

For this study, the San Andreas fault length was taken to be 254 km, with the corresponding fault width of 15 km. The estimated median maximum credible earthquake magnitude is 8.0 based on these fault parameters.

Magnitude Density Function

The magnitude density function describes how the fault slip-rate is distributed in different size earthquakes. In this study, the characteristic model developed by Youngs and Coppersmith (1985) is used. The truncated exponential model is not considered because when it is used for faults for which the activity rate is computed from the slip-rate, it leads to a large over-prediction of the historical rate of moderate magnitude earthquakes.

The minimum magnitude used in the hazard calculation is magnitude 5.0.

Rupture Dimension Relations

Since the attenuation relations (discussed later) are based on the closest distance from the site to any point on the earthquake rupture, the dimensions of the rupture need to be specified for each magnitude. The rupture dimension is modeled using the relations for fault area and fault width developed by Wells and Coppersmith (1994) for all source types. The rupture length is computed by dividing the rupture area by the rupture width.

Attenuation Relations

Four up-to-date empirical attenuation relationships for rock site conditions were used in the ground motion analysis: Sadigh et al. (1997), Abrahamson and Silva (1997), Campbell and Bozorgnia (2003), and Boore et al. (1997). All four empirical attenuation relationships are for horizontal components of ground motion with spectral damping of 5%. For the Boore et al. (1997) attenuation relationship an average shear wave velocity of 620 m/sec was used. The four attenuation relationships were given equal weights in developing the ground motion spectra.

Hazard Results

Figures 2a-c show the hazard curves for peak acceleration, T=0.2 and 1.0 second spectral acceleration for rock site conditions (horizontal component). The individual contribution to the total hazard curve from the different seismic sources used in the probabilistic analysis is shown in the Figures. These plots show that the main contribution to the total hazard at the 10% in 5 years hazard level is from the Santa Susana fault based on its close distance from the site and relatively higher slip rate than other faults in the immediate region.

The deaggregated hazard for 10% in 5 years chance of being exceeded are shown in Figures 3a – c for PGA, T=0.2 and 1.0 second spectral acceleration for rock site conditions. These deaggregration figures also show that earthquakes between magnitudes

6.5 – 7.0 at short distances (i.e., 5 – 20 km) controls the hazard at the project site location.

The uniform hazard spectra for the 10% in 5 years hazard level is shown in Figure 4 along with the deterministic spectra described in the section of the report. These values are also listed in Table 2.

Deterministic Spectrum

Deterministic ground motion spectrum (5% spectral damping) was computed for the controlling characteristic earthquake for the project site location. Based on the seismic sources within the immediate region of the site, ground motion spectra were computed for the Holser, San Gabriel, and San Andreas faults. Other faults in the region would not control the deterministic spectra at the site. For these three seismic sources, median and median plus 0.5σ spectra were computed. These spectra are listed in Table 2.

Time Histories

Spectrum compatible time histories were developed for the 10% in 5 years uniform hazard spectra as well as the deterministic median and median plus 0.5σ spectra. The candidate seed time histories were selected based on the deaggregation information and controlling deterministic seismic sources. These input seed time histories are listed in Table 3.

The results of the spectral matching is shown in Figures 5 – 10. These time histories were provided to SHAW via email.

Table 1. Seismic Source Parameters used in the Ground Motion Analysis

Fault	Mean Slip Rate (mm/yr)	Mechanism	Closest Distance (km)	Mean Characteristic Magnitude
Hosler	0.40	Reverse	1.4	6.5
Del Valle	0.20	Reverse	1.3	6.2
Oakridge	4.0	Reverse	18.9	7.3
San Cayetano	6.0	Reverse	15.9	7.0
Palos Verdes	2.9	Strike-slip	72.6	7.0
Newport Inglewood	1.0	Strike-slip	52.9	7.1
Cabrillo	0.1	Reverse	80.5	6.6
San Pedro	0.7	Strike-slip	55.0	7.1
Los Alamitos	0.375	Strike-slip	56.6	6.5
Compton Thrust	0.15	Reverse	46.9	7.1
Whittier	2.5	Reverse/Oblique	77.0	6.8
San Joaquin Hills	0.5	Reverse	105.6	6.6
Puente Hills	0.7	Reverse	53.2	7.1
Upper Elysian Park	1.3	Reverse	48.9	6.4
San Andreas	34.0(Carrizo) 30.0(Mojave) 24.0(San Bernd.)	Strike-slip	32.5	8.0
San Jacinto	12.0	Strike-slip	96.4	7.0
Elsinore	5.0	Strike-slip	114.0	6.8
Sierra Madre	2.0	Reverse	20.5	7.2
Hollywood	1.0	Reverse/Oblique	41.2	6.4
Raymond	1.5	Reverse/Oblique	54.2	6.5
Santa Susana	5.0	Reverse	9.2	6.5
Chino	1.3	Reverse/Oblique	88.8	6.7
Verdugo	0.5	Reverse	38.3	6.9
San Jose	0.5	Reverse/Oblique	84.5	6.4
Northridge	1.5	Reverse	9.7	7.0
San Gabriel	1.0	Strike-slip	6.6	7.0
Santa Monica	1.0	Reverse/Oblique	45.8	7.2
Malibu Coast	1.0	Reverse/Oblique	43.8	6.7
San Fernando	2.0	Reverse	20.9	6.8
Cucamonga	5.0	Reverse	90.0	6.9
Big Pine	0.8	Strike-slip	53.8	6.8
Santa Ynez	1.0	Strike-slip	25.5	7.5
Red Mountain	2.0	Reverse	57.1	6.9
Venturas Pitas Pt.	1.0	Reverse/Oblique	52.6	7.0
Simi-Santa Rosa	0.7	Reverse	11.8	6.8
White Wolf	5.5	Reverse	56.8	7.5
Offshore Model	4.0	Reverse	8.0	7.1

Table 2. Target acceleration spectra for the Chiquita Canyon Landfill site location.

Period (sec)	PSHA (10% in 5 yr)	MCE (Holser, Median+0.5σ)	MCE (Holser, Median)	MCE (San Andreas, Median+0.5σ)	MCE (San Andreas, Median)
0.010	0.295	0.954	0.748	0.259	0.209
0.030	0.295	0.954	0.748	0.259	0.209
0.100	0.542	0.987	0.774	0.262	0.212
0.150	0.653	1.766	1.368	0.396	0.318
0.200	0.674	2.139	1.637	0.559	0.443
0.300	0.622	1.927	1.467	0.571	0.449
0.400	0.526	1.658	1.254	0.547	0.427
0.500	0.449	1.417	1.065	0.504	0.390
0.750	0.314	0.994	0.738	0.413	0.315
1.000	0.238	0.723	0.533	0.346	0.262
1.500	0.148	0.407	0.298	0.250	0.188
2.000	0.105	0.258	0.188	0.192	0.144
3.000	0.058	0.128	0.095	0.117	0.088
4.000	0.036	0.079	0.059	0.074	0.059
5.000	0.024	0.051	0.039	0.050	0.041
6.000	0.016	0.035	0.027	0.037	0.030
7.000	0.012	0.025	0.021	0.027	0.022
8.000	0.009	0.019	0.015	0.021	0.017
9.000	0.007	0.014	0.012	0.017	0.013
10.000	0.005	0.011	0.010	0.013	0.010

Table 3. Candidate Input Seed Time Histories for Spectral Matching.

Earthquake	Date	Magnitude	Station	Distance (km)
San Fernando	2/9/1971	6.61	Pasadena Old Seismo Lab	21.5
Northridge	1/17/1994	6.69	LA Dam	5.9
Northridge	1/17/1994	6.69	Newhall Fire Station	5.9
Denali	11/3/2002	7.9	R109	43.0

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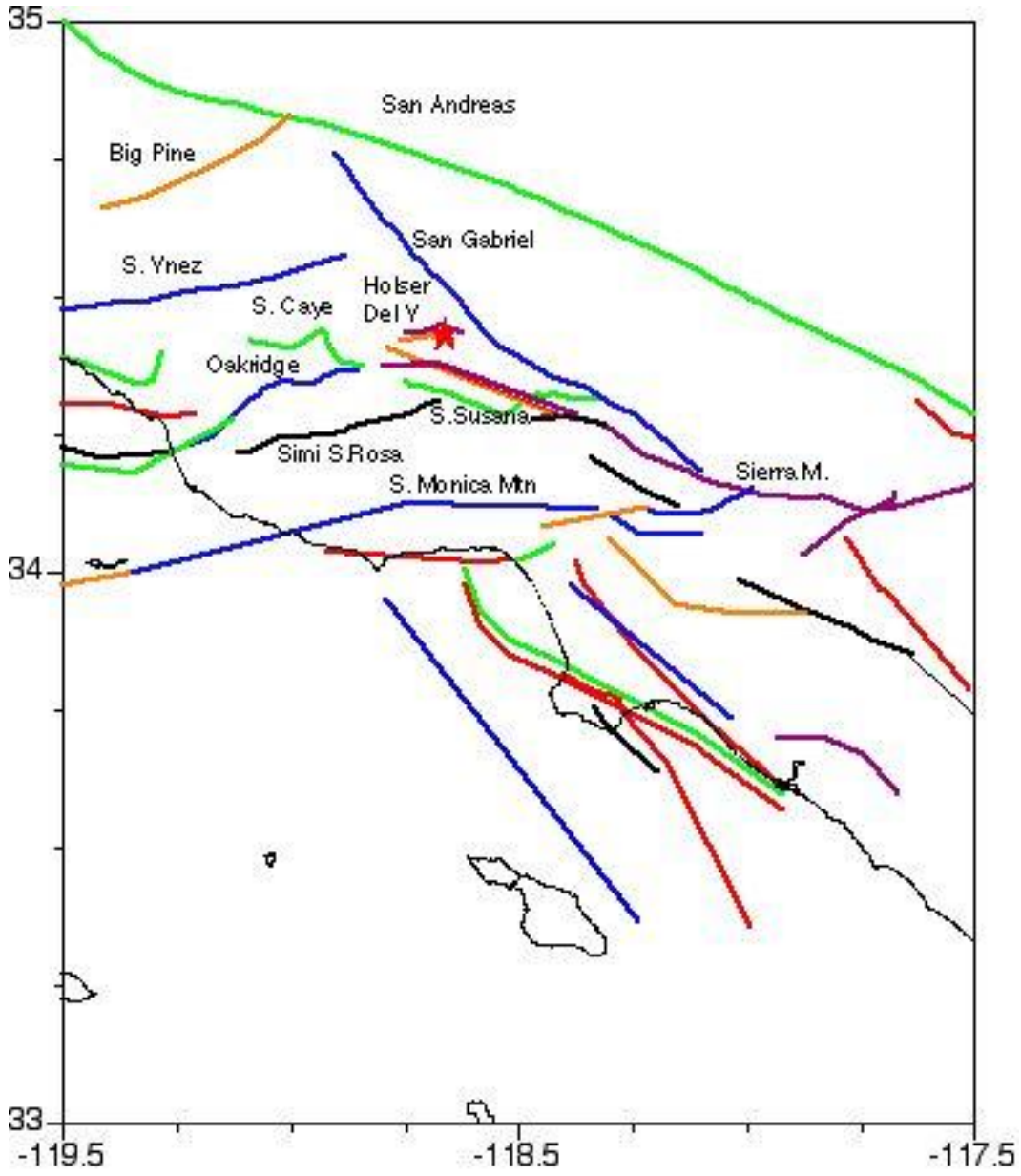


Figure 1. Regional map showing the seismic faults used in the PSHA. The Chiquita Canyon Landfill site location is mapped with the solid red star. The significant faults are labeled.

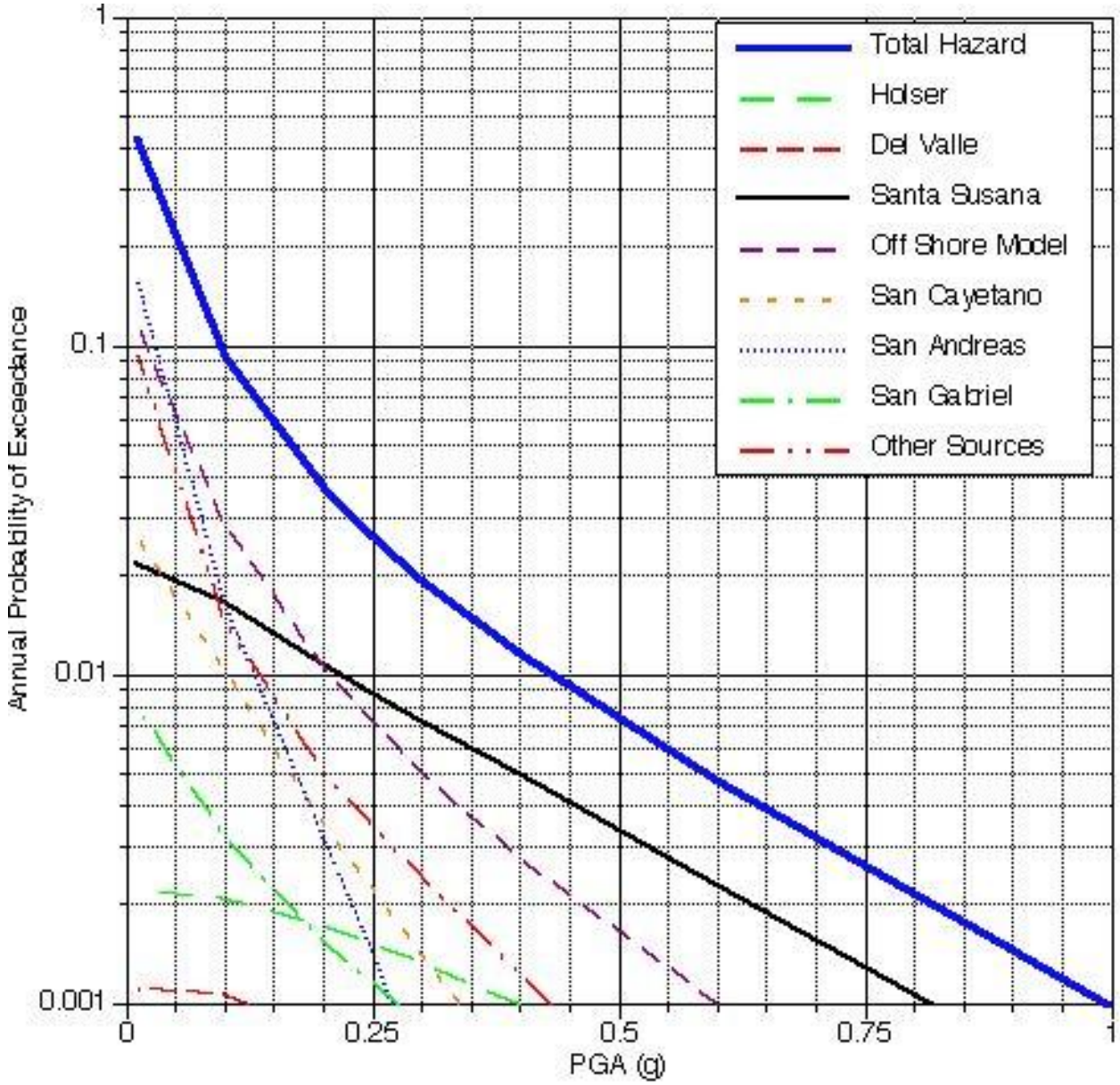


Figure 2a. PGA hazard curves for the Chiquita Canyon Landfill site for rock site conditions (horizontal component).

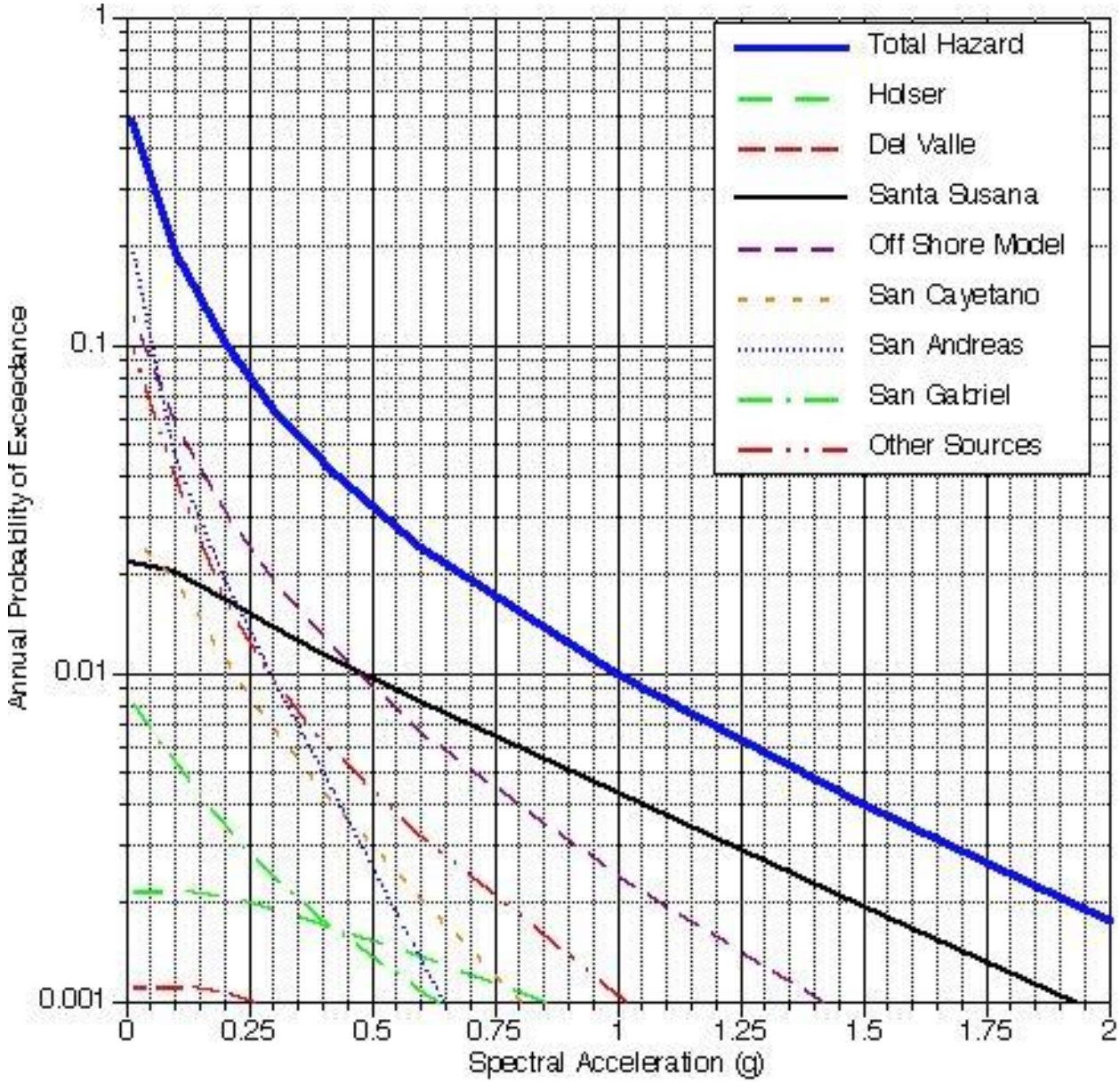


Figure 2b. Spectral Acceleration (T=0.2 sec) hazard curves for the Chiquita Canyon Landfill site for rock site conditions (horizontal component).

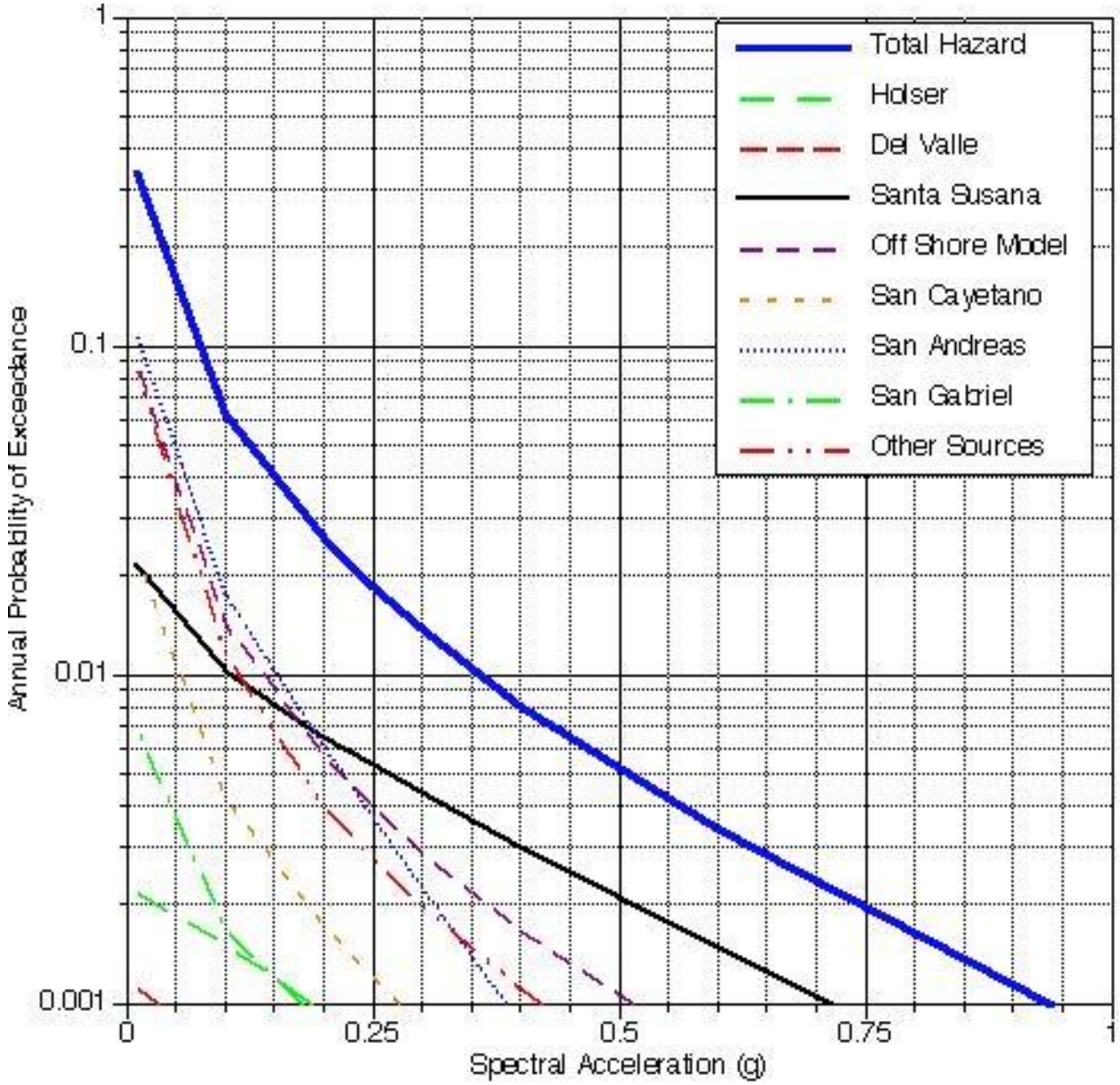


Figure 2c. Spectral Acceleration (T=1.0 sec) hazard curves for the Chiquita Canyon Landfill site for rock site conditions (horizontal component).

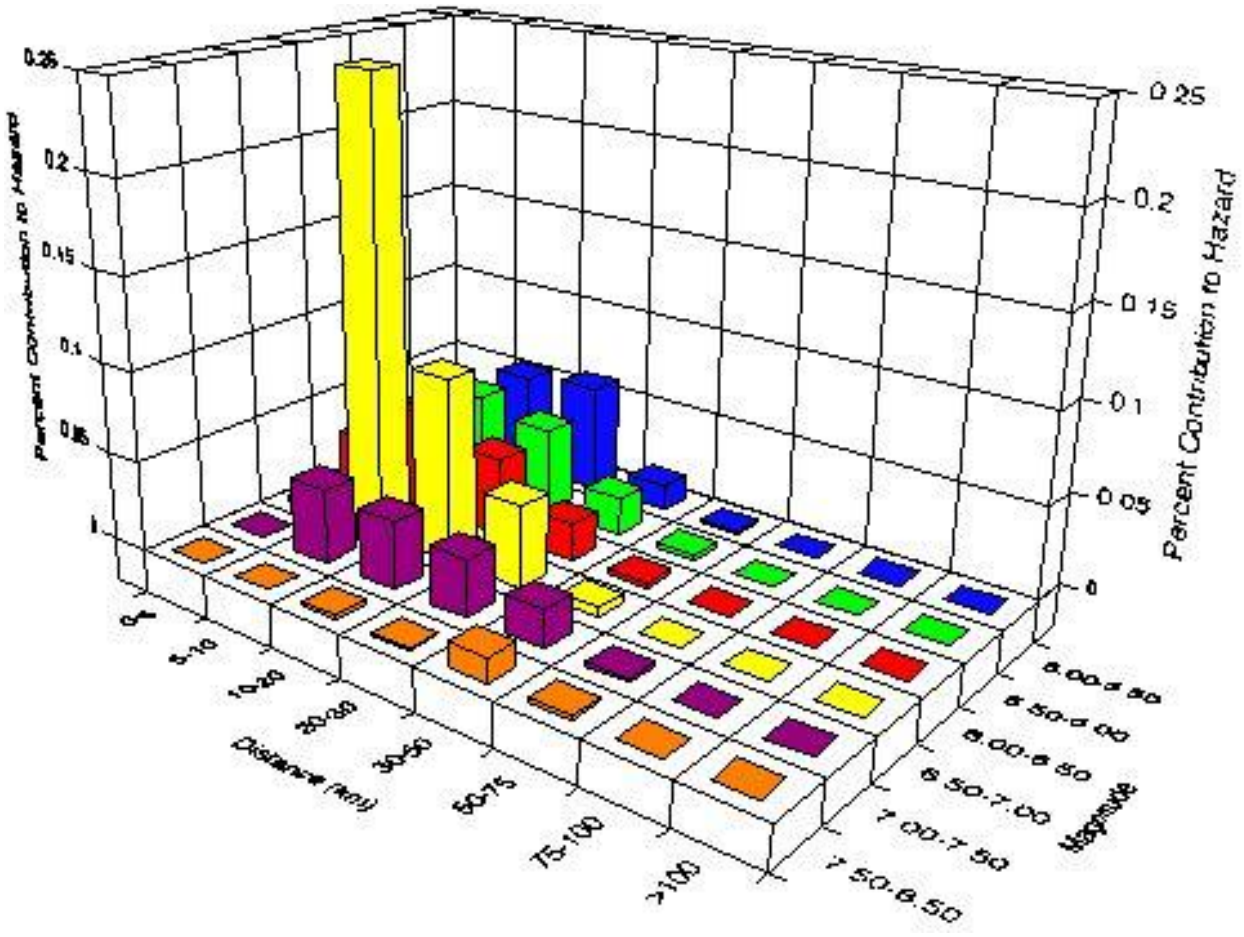


Figure 3a. Deaggregated hazard for PGA for 10% in 5 years hazard level for rock site conditions (horizontal component).

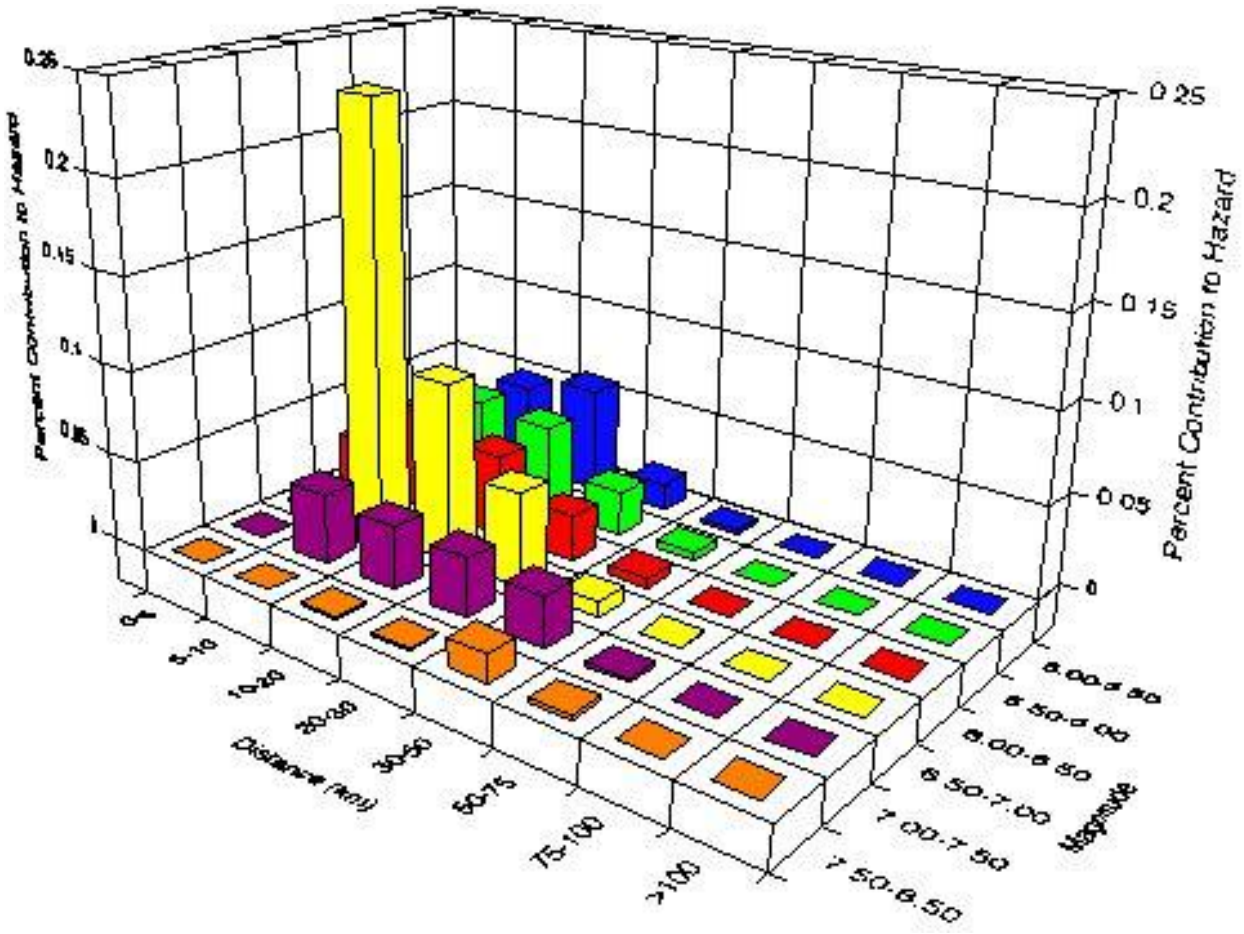


Figure 3b. Deaggregated hazard for spectral acceleration (T=0.2 sec) for 10% in 5 years hazard level for rock site conditions (horizontal component).

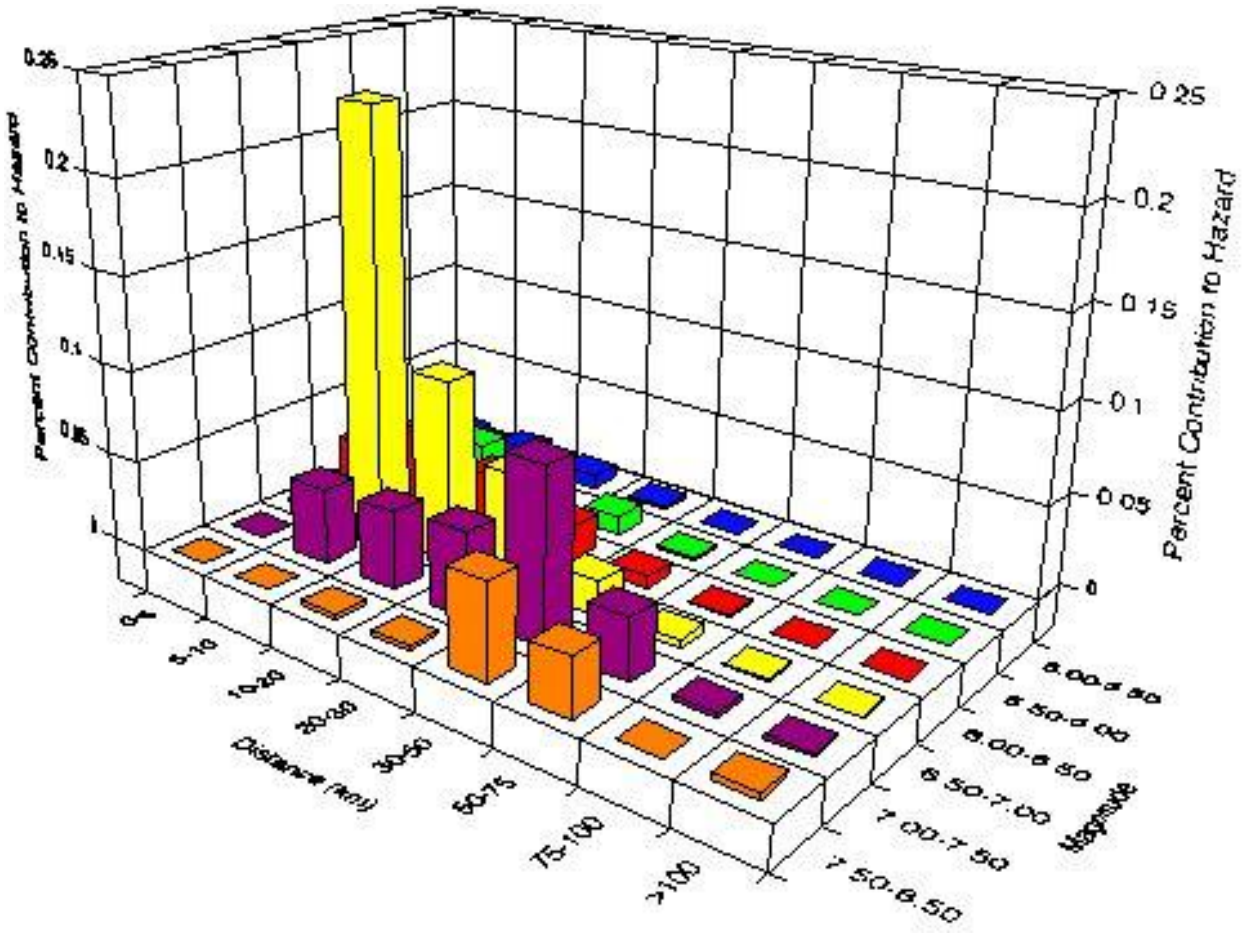


Figure 3c. Deaggregated hazard for spectral acceleration (T=1.0 sec) for 10% in 5 years hazard level for rock site conditions (horizontal component).

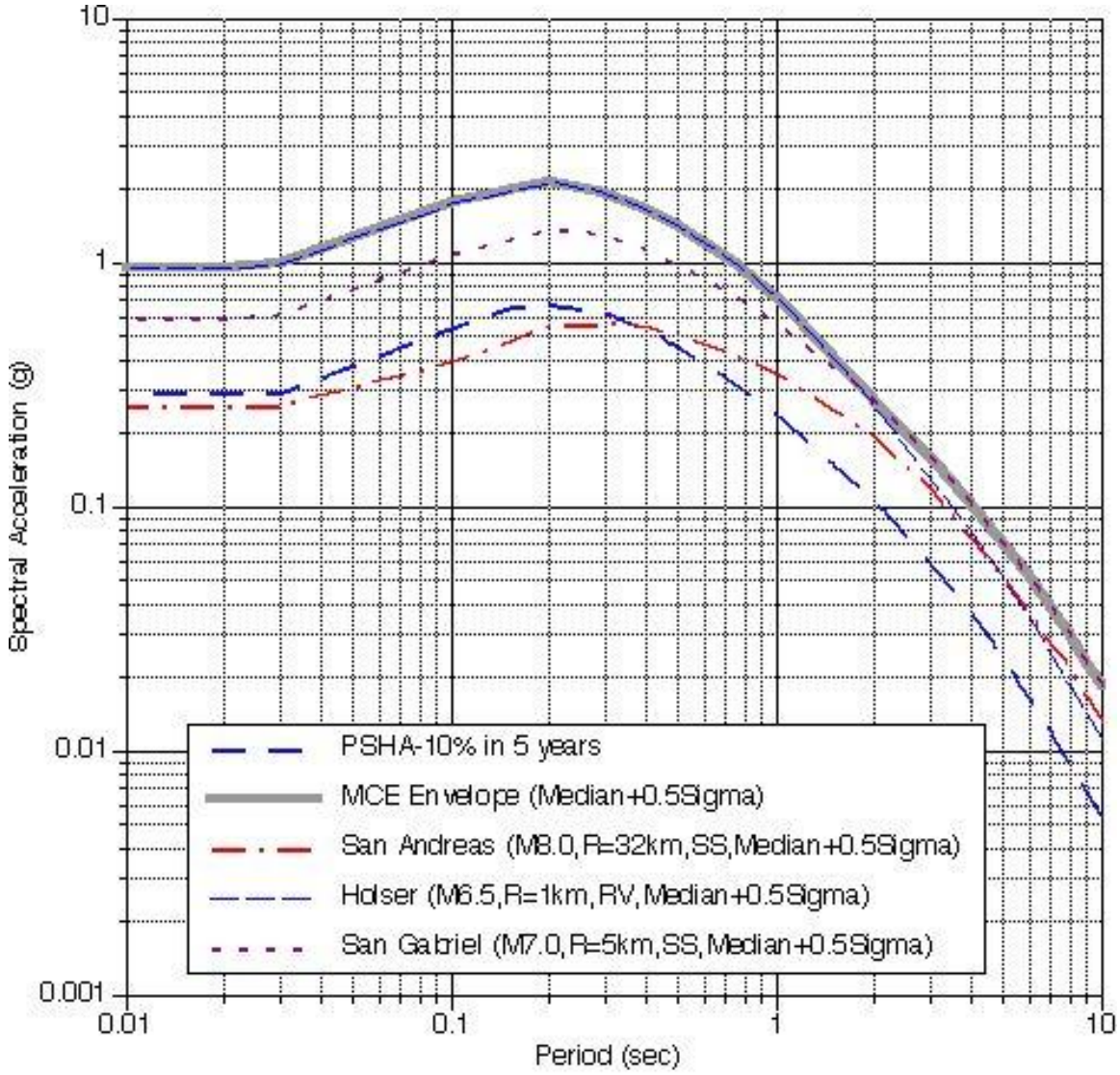


Figure 4a. Target response spectra (5% spectral damping) for the 10% in 5 years hazard level and the MCE Median plus 0.5σ deterministic spectra for the Chiquita Canyon Landfill site. Spectra are for rock site conditions.

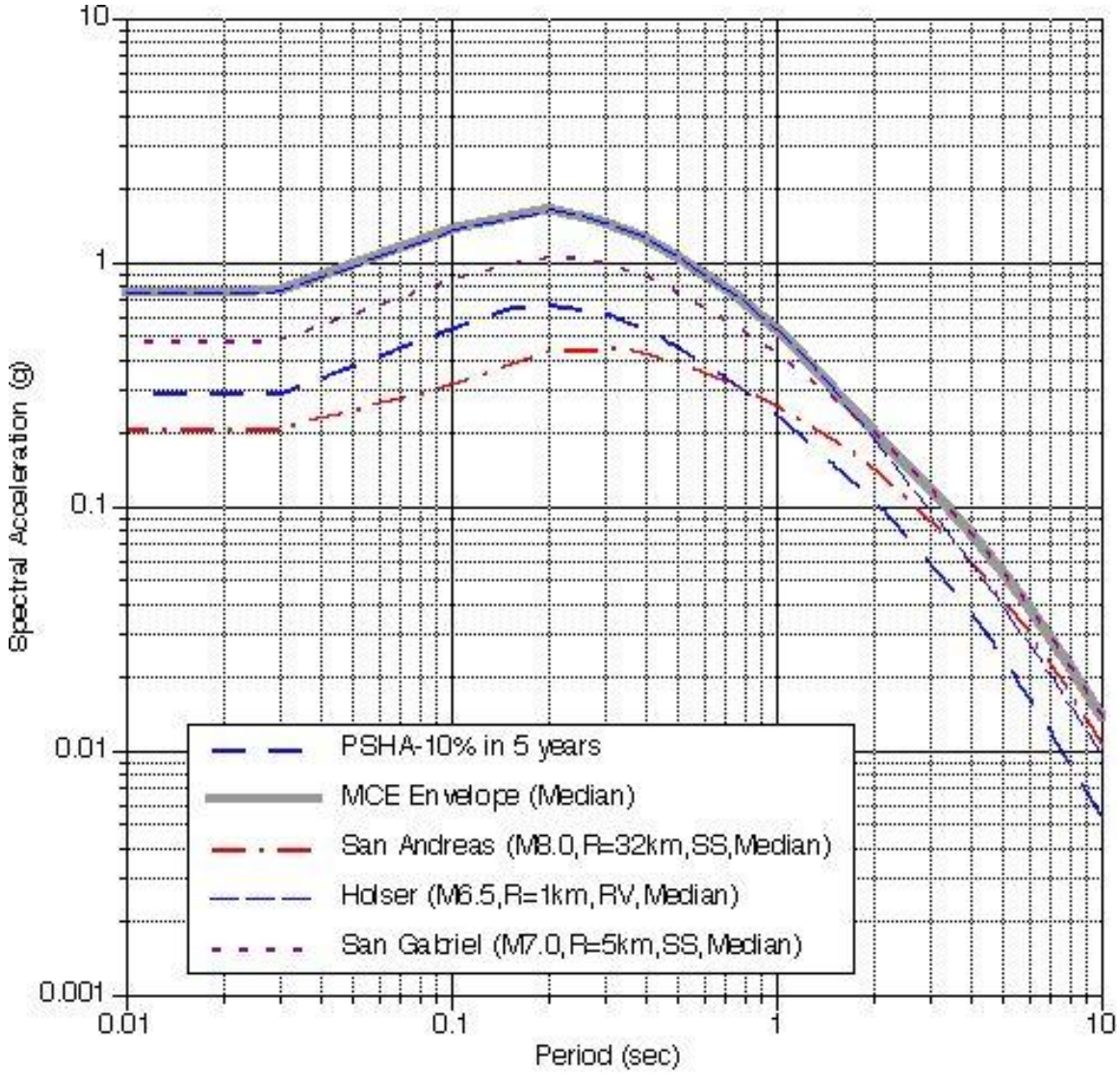


Figure 4b. Target response spectra (5% spectral damping) for the 10% in 5 years hazard level and the MCE Median deterministic spectra for the Chiquita Canyon Landfill site. Spectra are for rock site conditions.



Figure 5a. Set 1 modified spectrum compatible time history response spectrum and 10% in 5 years target spectrum.

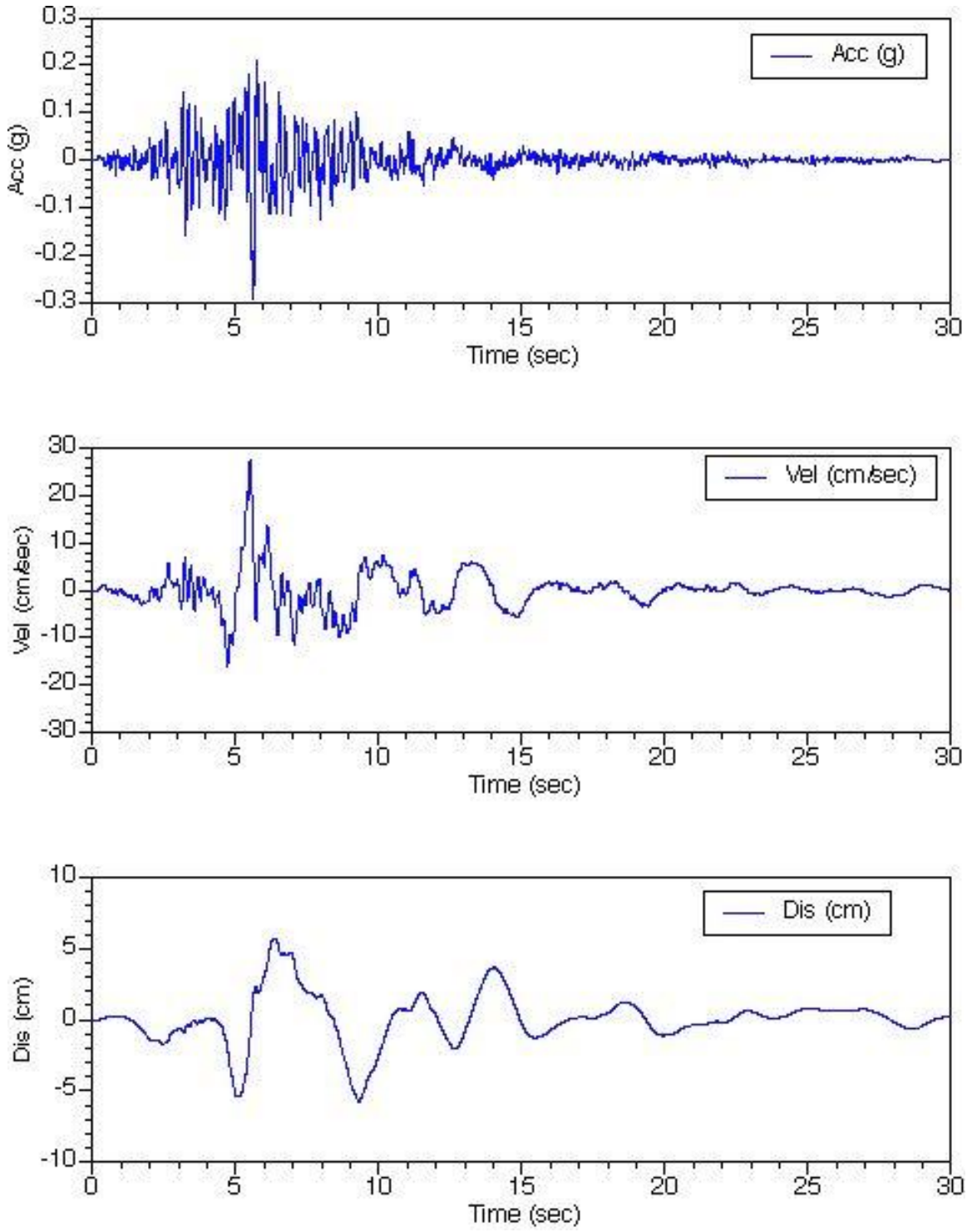


Figure 5b. Acceleration, velocity, and displacement time histories for Set 1 modified to be spectrum compatible to the 10% in 5 years target response spectrum.

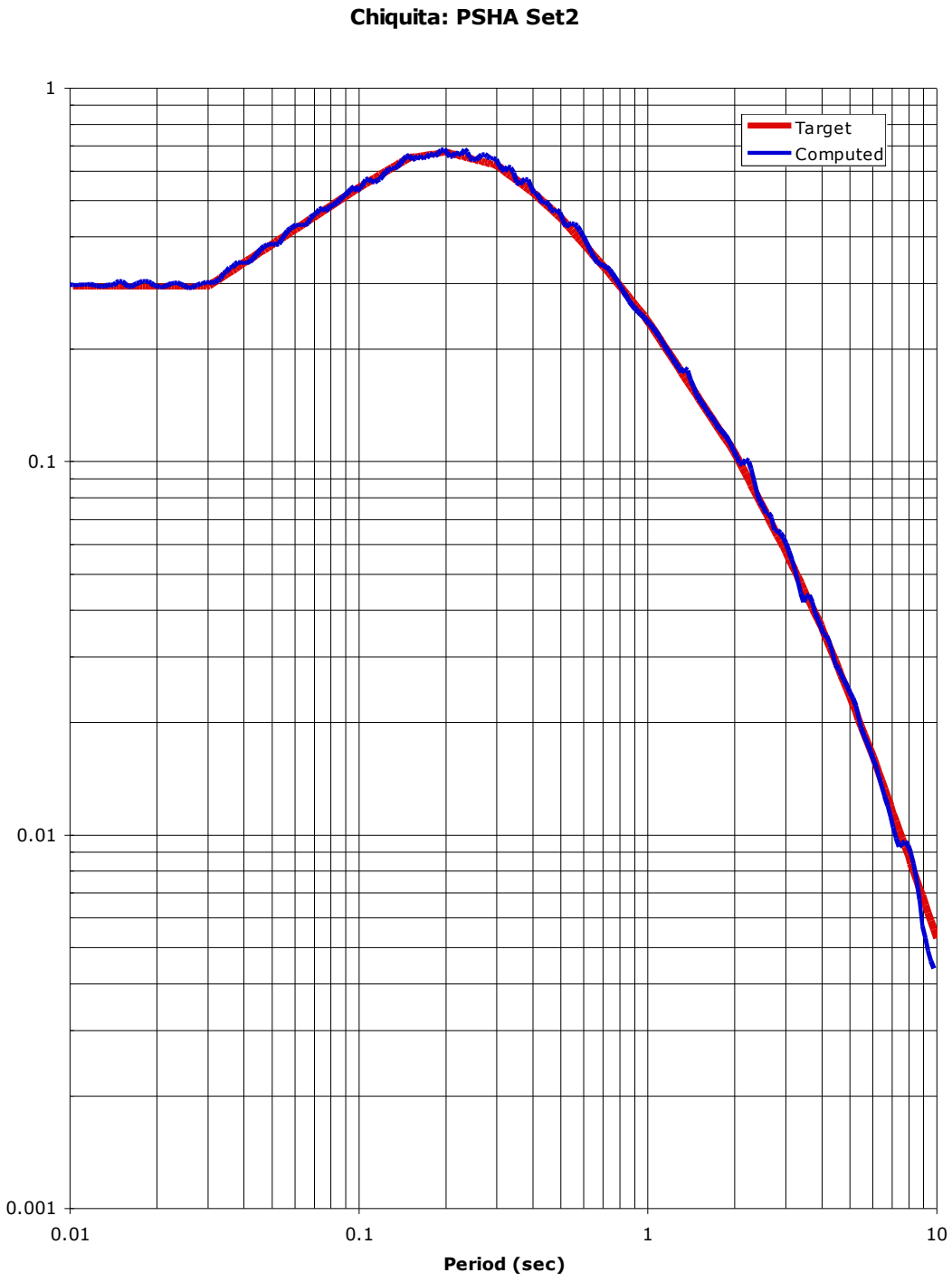


Figure 6a. Set 2 modified spectrum compatible time history response spectrum and 10% in 5 years target spectrum.

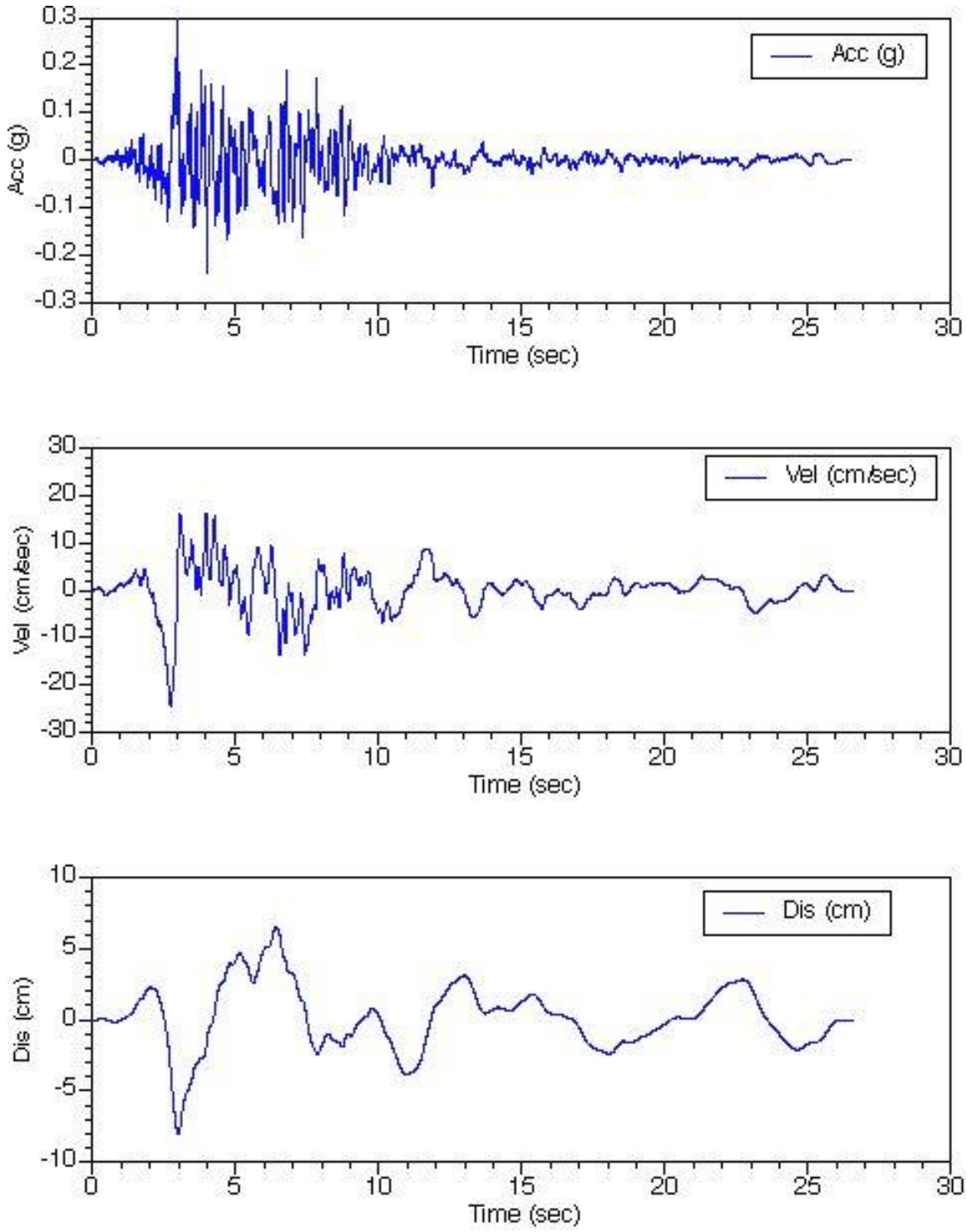


Figure 6b. Acceleration, velocity, and displacement time histories for Set 2 modified to be spectrum compatible to the 10% in 5 years target response spectrum.

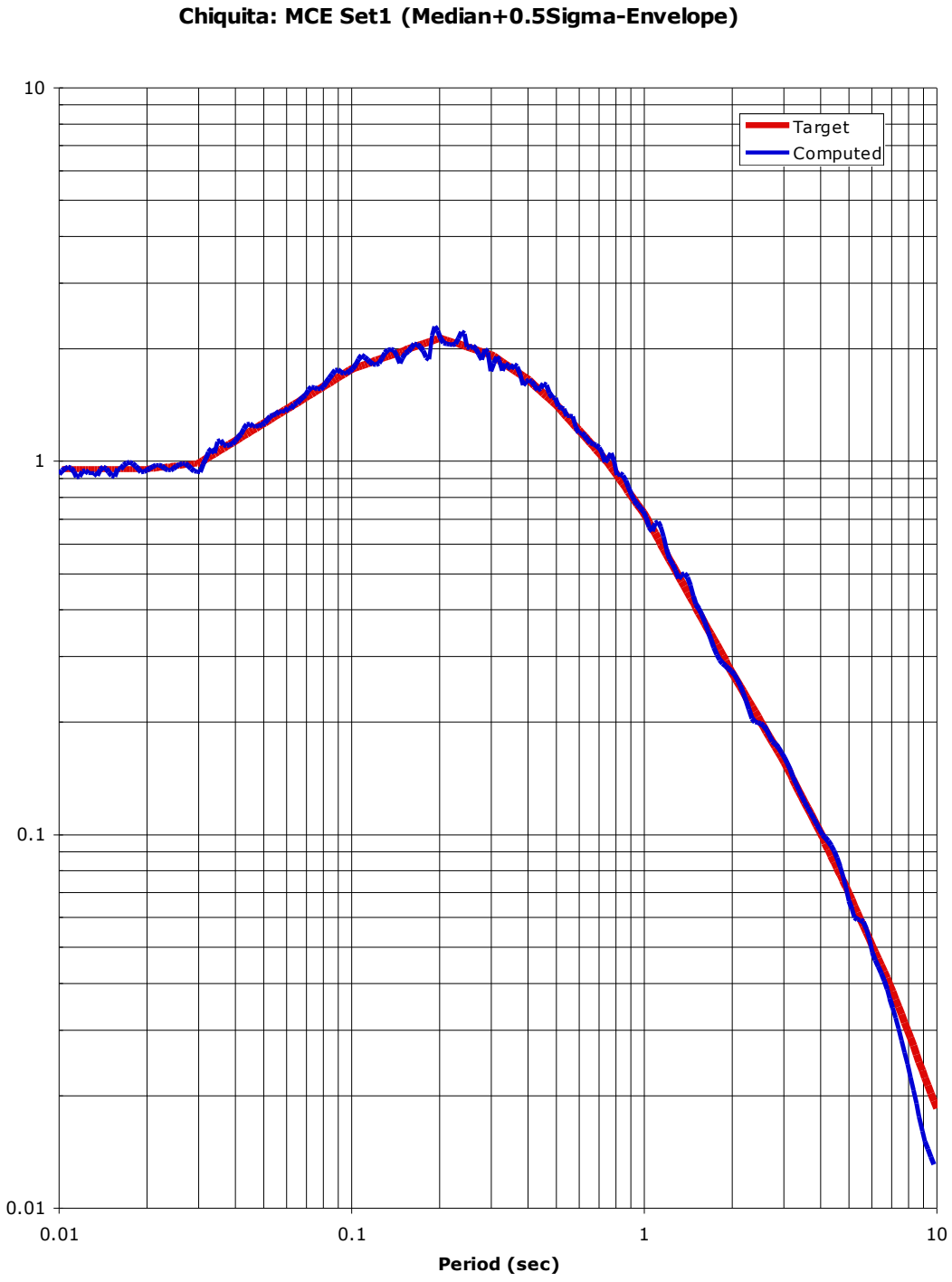


Figure 7a. Set 1 modified spectrum compatible time history response spectrum and MCE envelope (Median+0.5σ) target spectrum.

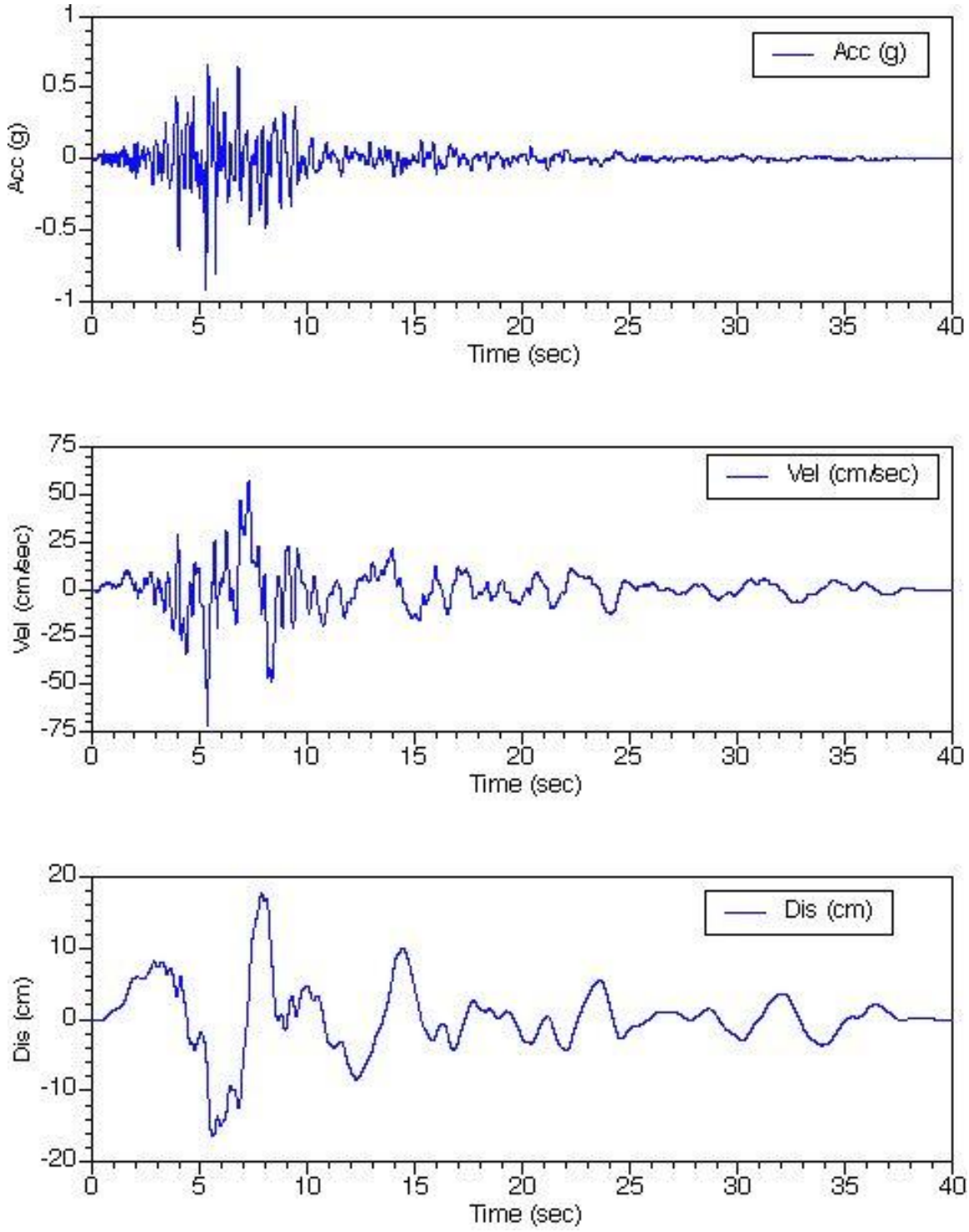


Figure 7b. Acceleration, velocity, and displacement time histories for Set 1 modified to be spectrum compatible to the MCE envelope target response spectrum (Median+0.5σ).

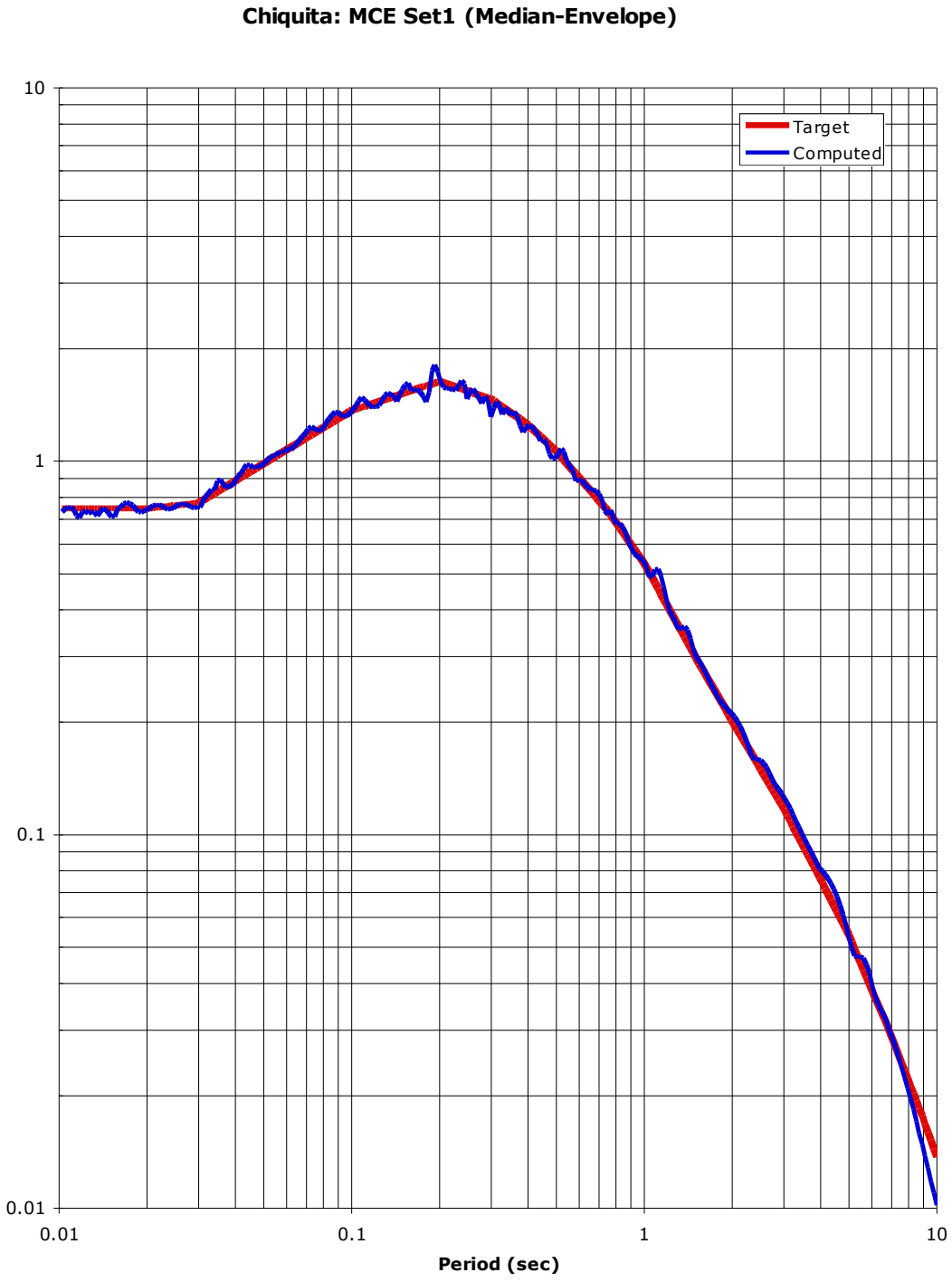


Figure 8a. Set 1 modified spectrum compatible time history response spectrum and MCE envelope (Median) target spectrum.

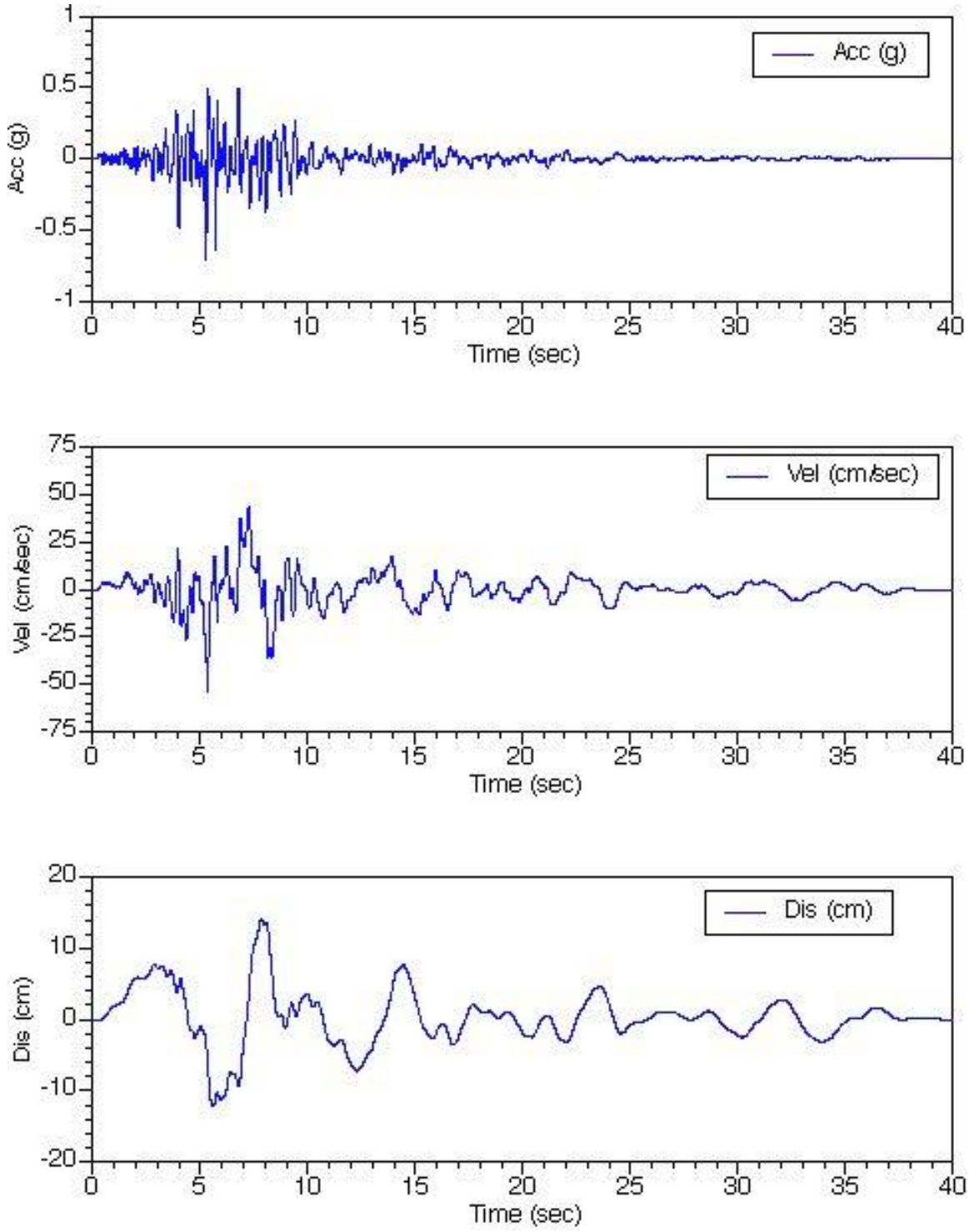


Figure 8b. Acceleration, velocity, and displacement time histories for Set 1 modified to be spectrum compatible to the MCE envelope target response spectrum (Median).

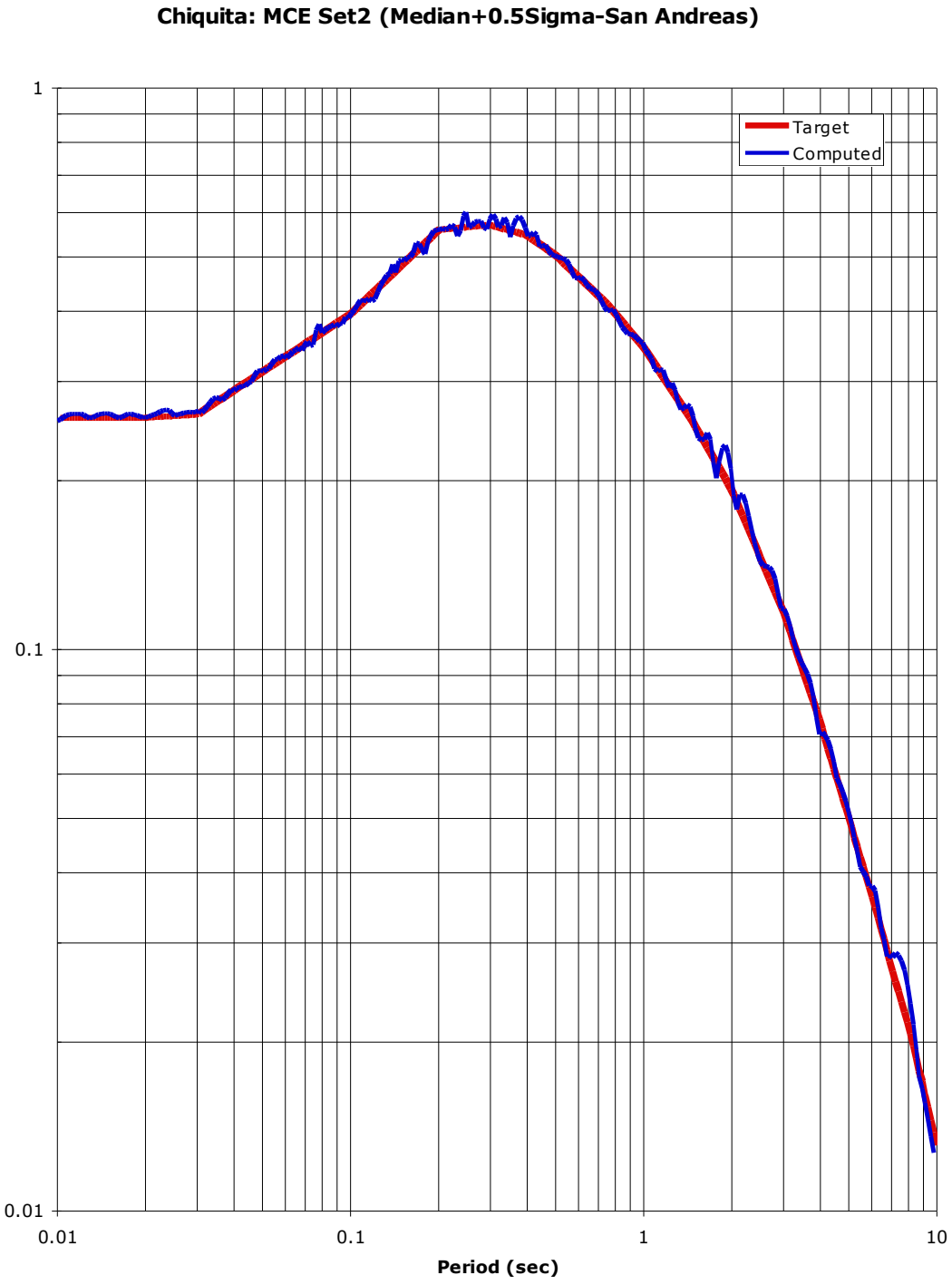


Figure 9a. Set 2 modified spectrum compatible time history response spectrum and MCE envelope (Median+0.5σ) target spectrum.

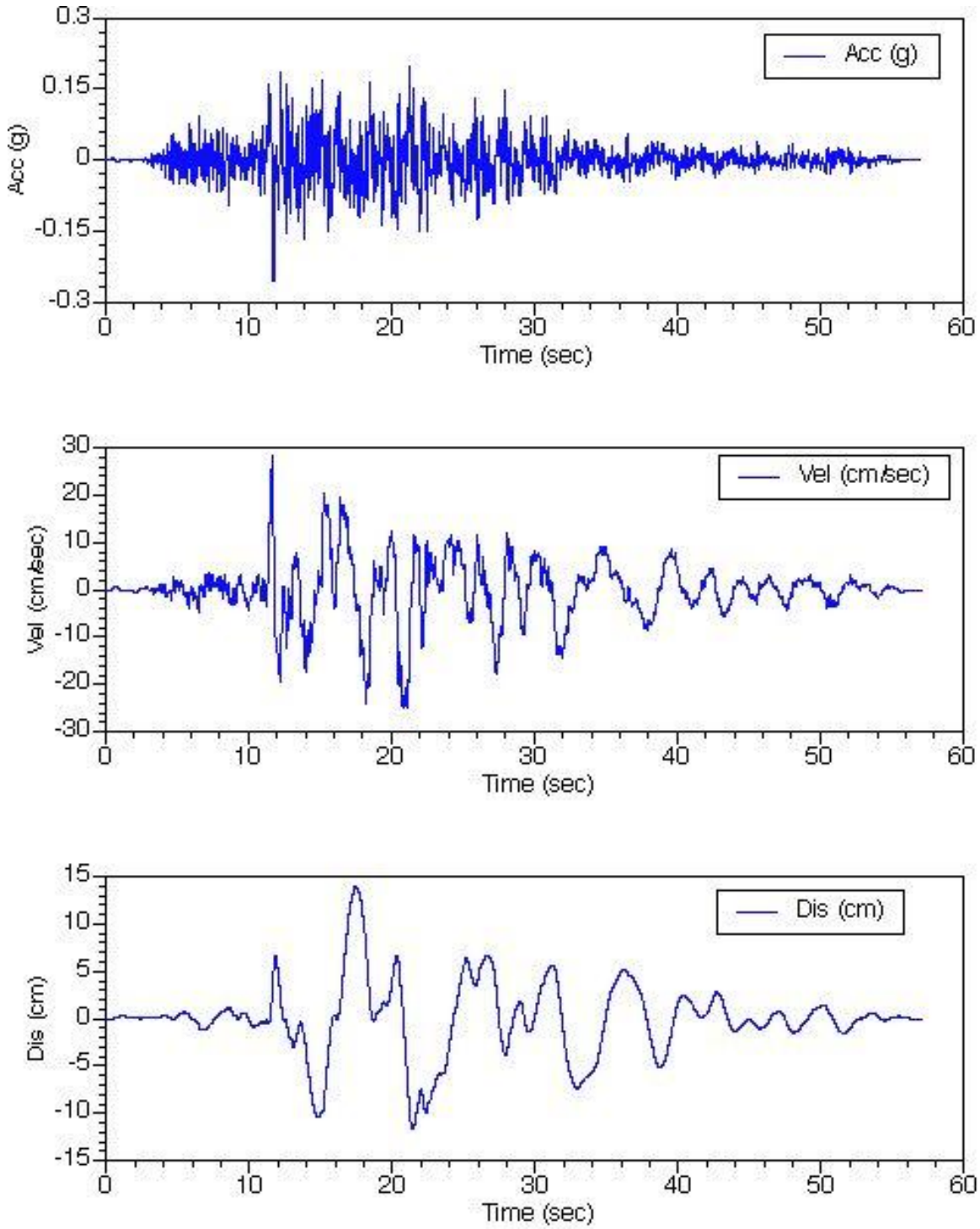


Figure 9b. Acceleration, velocity, and displacement time histories for Set 2 modified to be spectrum compatible to the San Andreas MCE target response spectrum (Median+0.5σ).

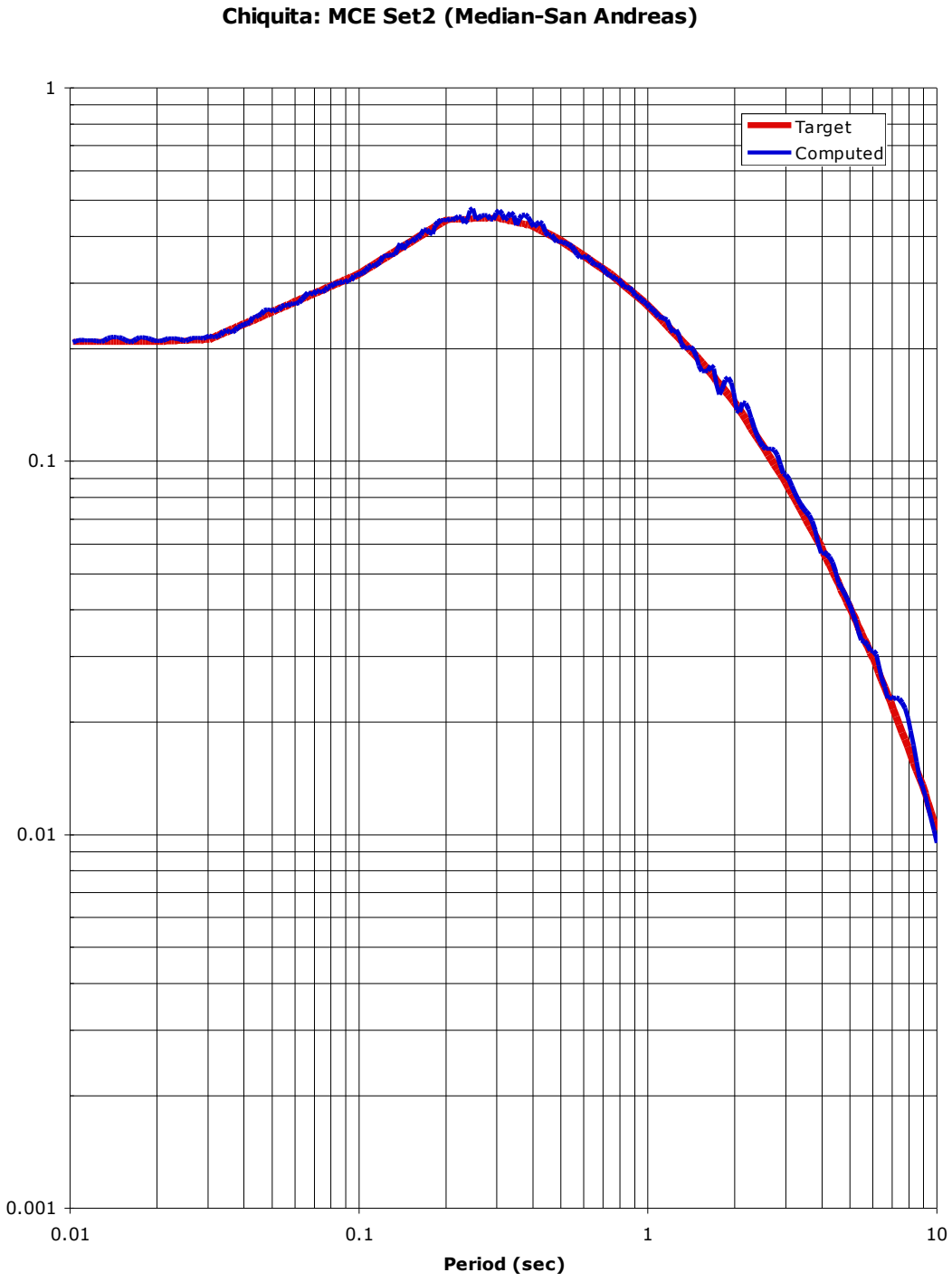


Figure 10a. Set 2 modified spectrum compatible time history response spectrum and MCE envelope (Median) target spectrum.

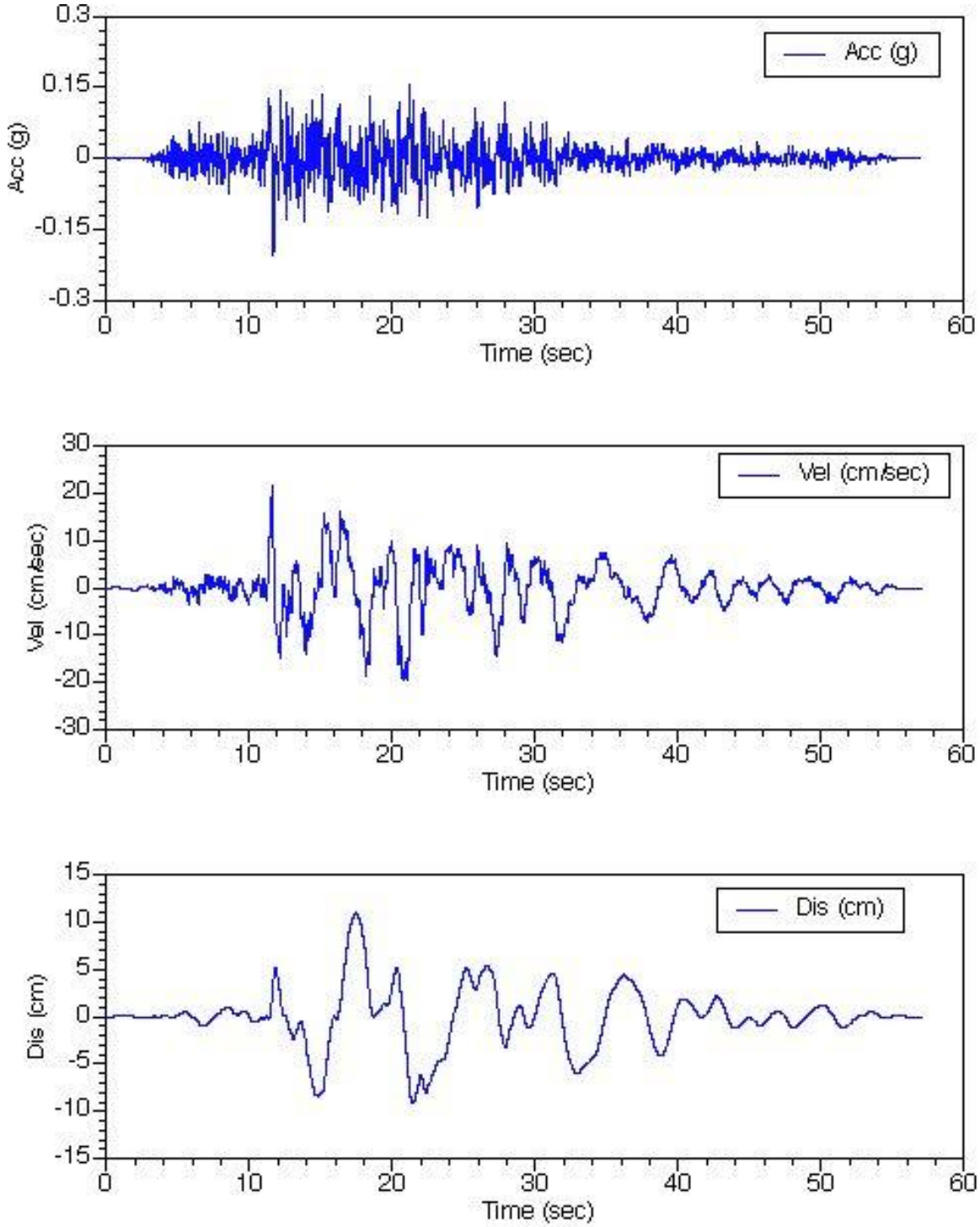


Figure 10b. Acceleration, velocity, and displacement time histories for Set 2 modified to be spectrum compatible to the San Andreas MCE target response spectrum (Median).

APPENDIX A
PROBABILISTIC SEISMIC HAZARD ASSESSMENT
MATHEMATICAL FORMULATION

The probabilistic seismic hazard analysis follows the standard approach first developed by Cornell (1968). The main change from the original work is that more parameters are randomized (a more complete description of the aleatory variables) and epistemic uncertainty is considered. In particular, the aleatory variability in the ground motion was not considered in the original work. The ground motion aleatory variability has a large effect on the hazard and can not be ignored.

The basic methodology involves computing how often a specified level of ground motion will be exceeded at the site. The hazard analysis computes the annual number of events that produce a ground motion parameter, A, that exceeds a specified level, "a". This number of events per year, ν, is also called the "annual frequency of exceedance". The inverse of ν is called the "return period".

The calculation of the annual frequency of exceedance, ν, involves the rate of earthquakes of various magnitudes, the rupture dimension of the earthquakes, the location of the earthquakes relative to the site, and the attenuation of the ground motion from the earthquake rupture to the site.

The annual rate of events from the ith source that produce ground motions that exceed "a" at the site is the product of the probability that the ground motion exceeds the test value given that an earthquake has occurred on the ith source

and the annual rate of events with magnitude greater than m_{min} on the ith source.

$$\nu_i(A>a) = N_i(m_{min})P_i(A>a|E_i(m \geq m_{min}) \quad \text{(A-1)}$$

where $N_i(m_{min})$ is the annual number of events with magnitude greater than m_{min} on the ith source and $E_i(m_{min})$ indicates that an event with magnitude ≥ m_{min} has occurred on the ith source

For multiple seismic sources, the total annual rate of events with ground motions that exceed z at the site is just the sum of the annual rate of events from the individual sources (assuming that the sources are independent).

$$\nu(A>a) = \sum_{i=1}^{N_{source}} \nu_i(A>a) \quad \text{(A-2)}$$

Hazard for Fault Sources

Fault sources are modeled by multiple-planes which allows changing the strike of the fault. For planar sources (e.g. known faults), we need to consider the finite dimension and location of the rupture in order to compute the closest distance. Specifically, we need to randomize the rupture length, rupture width, rupture location along strike, rupture location down dip, and hypocenter location along the rupture length (for strike-slip faults). (Since rupture width and length are correlated, it is easier to consider the rupture area and rupture width and then back calculate the rupture length.)

The general form of the conditional probability for the ith fault is given by:

$$P_i(A>a \mid E_i(m \geq m_{min}) = \int_{RA=0}^{\infty} \int_{RW=0}^{\infty} \int_{Ex=0}^{1} \int_{Ey=0}^{1} \int_{x=0}^{1} \int_{m=M_{min}}^{M_{max_i}} f_{m_i}(m)\, f_{RA_i}(m) f_{RW_i}(m)\, f_{Ex}(Ex)\, f_{Ey}(Ey)$$

$$f_{x_i}(x)\, P_i(A>a \mid m, r(Ex,Ey,RA,RW), x)\, dm\, dx\, dEy\, dEx\, dRW\, dRA$$

where $f_{RW}(m)$, $f_{RA}(m)$, $f_{Ex}(Ex)$, $f_{Ey}(Ey)$, $f_x(x)$, and $f_m(m)$ are probability density functions for the rupture width, rupture area, rupture location along strike, rupture location down dip, hypocenter location in the rupture plane, and magnitude, respectively. The models used for these probability density functions are described later.

For the fault normal component (FN), the probability of exceeding the ground motion "a" for a given magnitude, m, and closest distance, r, and hypocenter location, x, is given by

$$P(A > a|m,r,x) = 1 - \Phi\left(\frac{\ln(a) - \ln(Sa_{FN}(m,r,x))}{\sigma(m)}\right)$$

where Sa(m,r,x) and σ(m) are the median and standard deviation of the ground motion from the attenuation relations for the fault normal component as described in appendix B, and Φ() is the normal probability integral given by

$$\Phi(z) = \int_{-\infty}^{z} \frac{1}{\sqrt{2\pi}} e^{-u^2/2}\, du$$

Probability of Exceedance

The annual rate of events given in Eq (A-2) is not probability; it can exceed 1. To convert the annual rate of events to a probability, we consider the probability that the ground motion exceeds test level "a" at least once during a specified time interval.

At this step, a common assumption is that the occurrence of earthquakes is a Poisson process. That is, there is no memory of past earthquakes, so the chance of an earthquake occurring in a given year does not depend on how long it has been since the last earthquake. (Non-Poisson models are discussed later.) If the occurrence of earthquakes is a Poisson process then the occurrence of peak ground motions is also a Poisson process. For a Poisson process, the probability of an event (e.g. ground motion exceeding z) occurring n times in time interval t is given by

$$p_n(t) = \exp(-\nu t)\,(\nu t)^n/n! \qquad \text{(A-6)}$$

The probability that at least one event occurs (e.g. n≥1) is 1 minus the probability that no events occur:

$$P(n\geq 1,t) = 1 - p_o(t) = 1 - \exp(-\nu t) \qquad \text{(A-7)}$$

So the probability of at least one occurrence of ground motion level z in t years is given by

$$P(A>a,t) = 1 - \exp(-\nu(A>a)t) \qquad \text{(A-8)}$$

For t=1 year, this probability is the annual hazard.

Aleatory and Epistemic Uncertainty

The basic part of the hazard calculation is computing the integrals in Eq (A-3). All of the aleatory variables are inside of the hazard integral. The randomness of the seismic source variables is characterized by the probability density functions which are discussed below. The randomness of the attenuation relation is accounted for in the probability of exceeding the ground motion, "a", for a given magnitude and closest distance.

Epistemic (scientific) uncertainty is considered by using alternative models and/or parameter values for the probability density functions, attenuation relation, and activity rate. For each alternative model, we recalculate the hazard and compute alternative hazard curves. Epistemic uncertainty is typically handled using a logic tree approach for specifying the alternative models for the density function, attenuation relation, and activity rates.

Activity Rate

There are two approaches to estimating the fault activity rate: historical seismicity and geologic (and geodetic) information.

If historical seismicity catalogs are used to estimate the activity rate, then the estimate of $N(m^L)$ is usually based on fitting the truncated exponential model (discussed below) to the historical data. Maximum likelihood procedures are generally preferred over least-squares for estimating the activity rate and the b-value.

When using geologic information on slip-rates of faults, the activity rate is computed by balancing the energy build-up estimated from geologic evidence with the total energy release of earthquakes. Knowing the dimension of the fault, the slip-rate, and the rigidity of the fault, we can balance the long term seismic moment so that the fault is in equilibrium. (e.g. Youngs and Coppersmith, 1985).

The seismic energy release is balanced by requiring the build up of seismic moment to be equal to the release of seismic moment in earthquakes. The build up of seismic moment is computed from the long term slip-rate. The seismic moment, Mo (in dyne cm), is given by

$$Mo = \mu A D \tag{A-9}$$

where μ is the rigidity of the crust, A is the area of the fault (in cm^2), and D is the average displacement (slip) on the fault surface (in cm). The annual rate of build up of seismic moment is given by

$$Mo = \mu A S \tag{A-10}$$

where S is the slip-rate in cm/year. The seismic moment released during an earthquake is given by

$$\log_{10} Mo = 1.5 M + 16.05 \tag{A-11}$$

where M is the moment magnitude of the earthquake.

To balance the moment build up and the moment release, the annual moment rate from the slip-rate is set equal to the sum of the moment released in all of the earthquakes that are expected to occur each year.

$$\mu AS = N(m^L) \int_{m=M^L}^{m^U} f_m(m)\, 10^{(1.5m + 16.05)} dm \qquad \text{(A-12)}$$

Given the slip-rate, fault area, and magnitude density function, the activity rate, $N(m^L)$ is given by:

$$N(m^L) = \frac{\mu AS}{\int_{m=M^L}^{m^U} f_m(m)\, 10^{(1.5m + 16.05)} dm}$$

Magnitude Density Distribution

The magnitude density distribution describes the relative number of large magnitude and moderate magnitude events that occur on the seismic source. Two alternative magnitude density functions are considered: the truncated exponential model and the characteristic model.

The truncated exponential model is the standard Gutenberg-Richter model that is truncated at the minimum and maximum magnitudes and renormalized so that it integrates to unity. The density function for the truncated exponential model is given by

$$f_m(m) = \frac{\beta \exp(-\beta(m-m^L))}{1-\beta \exp(-\beta(m^U-m^L))} \qquad \text{(A-14)}$$

where β is ln(10) times the b-value. Regional estimates of the b-value are usually used with this model.

The characteristic model assumes that more of the seismic energy is released in large magnitude events than for the truncated exponential model. That is, there are fewer small magnitude events for every large magnitude event for the characteristic model than for the truncated exponential model. There are different models for the characteristic model. Two commonly used models are the characteristic model as defined by Youngs and Coppersmith (1985) and the "maximum magnitude" characteristic model. In this paper, we will call these two models the characteristic model and maximum magnitude model, respectively.

The density function for the generalized form of the Youngs and Coppersmith characteristic model is given by

$$f_m(m) = \begin{cases} \dfrac{\beta \exp(-\beta(m-m^L))}{1-\beta \exp(-\beta(m^U-\Delta m_2-m^L))} \dfrac{1}{1+c} & \text{for } m < m^U-\Delta m_2 \\ \dfrac{\beta \exp(-\beta(m^U-\Delta m_1-\Delta m_2-m^L))}{1-\beta \exp(-\beta(m^U-\Delta m_2-m^L))} \dfrac{1}{1+c} & \text{for } m \geq m^U-\Delta m_2 \end{cases} \quad \text{(A-15)}$$

where

$$c = \frac{\beta \exp(-\beta(m^U-\Delta m_1-\Delta m_2-m^L))}{1-\beta \exp(-\beta(m^U-\Delta m_2-m^L))} \Delta m_2 \quad \text{(A-16)}$$

The density function for this model is shown in Figure A-1. In the Youngs and Coppersmith model, Δm_1=1.0 and Δm_2=0.5.

Comparing the examples of the truncated exponential and characteristic density functions shown in Figure A-1, we see that the density functions themselves are similar at small magnitudes. However, when the geologic moment-rate is used to set the annual rate of events, $N(m^L)$, then there is a large impact on $N(m^L)$ depending on the selection of the magnitude density function. Figure A-2 shows the comparison of the magnitude recurrence relation for the truncated exponential and characteristic models (using the Youngs and Coppersmith value for Δm_1 and Δm_2) when they are constrained to have the same total moment rate. The characteristic model has many fewer moderate magnitude events than the truncated exponential model (about a factor of 10 difference).

Recent studies have found that the characteristic model does a better job of matching observed seismicity than the truncated exponential (Geomatrix, 1992, Woodward-Clyde, 1994) when the total moment rate is constrained by the geologic slip-rate.

Rupture Dimension Density Functions

For the rupture area and rupture width, the density function are determined from regression models which give the rupture area and rupture width as a function of magnitude. For this project, the Wells and Coppersmith (1994) empirical models for rupture area and rupture width are used:

$$\log_{10}(RA) = -3.49 + 0.91\,M \pm 0.24 \qquad \text{(A-17)}$$

$$\log_{10}(W) = -1.01 + 0.32\,M \pm 0.15 \qquad \text{(A-18)}$$

The density functions, $f_{RA}(m)$ and $f_{RW}(m)$ are log normal distributions centered about the median values given by Eq. (A-15) and (A-16). These distributions are truncated at $\pm 2\sigma$ in the hazard calculations.

Rupture Location Density Functions

The center of the rupture location is parameterized in terms of the normalized fault length and fault width. Ex is the fraction of the fault length (measure along strike) and Ey is the fraction of the fault width (measured down dip). The location of the center of the rupture plane is assumed to be uniformly distributed over the fault plane. The resulting density functions for $f_{Ex}(E_x)$ and $f_{Ey}(E_y)$ are unity.

Hypocenter Location Density Function

For a given rupture dimension (length and width) and rupture location, the location of the hypocenter along strike is parameterized in terms of the normalized rupture length. The location of the hypocenter is assumed to be uniformly distributed over the rupture plane. The resulting density function for $f_x(x)$ is unity. In the hazard analysis, a total of 10 hypocenter locations evenly spaced along the rupture length are used for each magnitude, rupture location, and rupture dimension.

Appendix B Directivity Effects Model

Introduction

The empirical attenuation relations were developed for the average horizontal component without regard to the direction of rupture. Somerville et al (1997)

developed an empirically based model quantifying the effects of rupture directivity on horizontal response spectra that can be used to scale the average horizontal component from attenuation relations. There are two effects of rupture directivity on long period response spectral values that are modeled by Somerville. First, there is an increase in the average horizontal component for cases of rupture coming toward the site and there is a decrease in the average horizontal motion for rupture running away from the site. Second, there is a systematic difference in the two horizontal components of motion when they are oriented parallel and perpendicular to the strike of the fault. At long periods, the fault normal component is larger than the fault parallel component. This increase in the fault normal component has also been studied by Geomatrix (1995).

In this project the a modified form of the Somerville et al. (1997) model has been used to characterize the two parts of the directivity effect.

Somerville et al (1997) Model

Somerville et al (1997) provides scale factors to account for directivity effects for the horizontal components. The Somerville et al model for the difference in the two horizontal components (fault normal and fault parallel) for strike-slip earthquakes is given by

$$\ln (FN/Ave\ H) = \cos(2\phi)\ [C_1 + C_2 \ln(R_{rup}+1) + C_3\ (M-6)] \qquad (B\text{-}1)$$

for M>6 and $\phi < 45$; it is zero otherwise. The coefficients for these models are listed in Table B-1. This model is used without modification in this study.

Somerville et al also provides a model for the effect of rupture direction on the average horizontal component. This model was modified for use on this project as described below.

Modifications of the Somerville et al (1997) model

There are several aspects of the empirical model for the average horizontal component scale factors developed by Somerville et al that needed to be modified to make the model applicable to a probabilistic hazard analysis.

(A) Distance dependence

As published, the model is independent of distance. The data set used in the analysis includes recordings at distances of 0 to 50 km. A distance dependent taper function was applied to the model that reduces the effect to zero for distances greater than 60km.

$$T_d(r) = \begin{cases} 1 & \text{for } r < 30 \text{ km} \\ 1 - (r-30)/30 & \text{for } 30 \text{ km} < r < 60 \text{ km} \\ 0 & \text{for } r > 60 \text{ km} \end{cases} \qquad (B\text{-}2)$$

(B) Magnitude dependence

As published, the model is applicable to magnitudes greater than 6.5. A magnitude taper was applied that reduces the effect to zero for magnitudes less than 6.0.

$$T_m(m) = \begin{cases} 1 & \text{for } m \geq 6.5 \\ 1 - (m-6.5)/0.5 & \text{for } 6 \leq m < 6.5 \\ 0 & \text{for } m < 6 \end{cases} \qquad \text{(B-3)}$$

(C) Saturation With x cos(θ)

The empirical model uses a form that increases a constant rate as x increases from 0 to 1. There is little empirical data with x cos(θ) values greater than 0.6, particularly for rupture distances less than 20 km. The short distance data suggest that there may be a saturation of the directivity effect as a function of x cos(θ).The extrapolation of the model to larger x cos(θ) values is not well constrained. To evaluate this extrapolation, three separate groups applied their seismological numerical modeling methods to generate synthetic time histories for a range of x cos(θ) values. The numerical modeling results indicated that the directivity effect saturates for x cos(θ) > 0.4, As a result, the functional form of the directivity model was changed to include saturation with x cos(θ). The coefficients of the model were based on the empirical data, and not on the synthetics.

Based on the trends in the numerical simulations, the form of the directivity function is modified to reach a maximum at x cos(θ) =0.4. The model was developed for a spectral period of 3 seconds because this is an important period for the bridge. The slope is greater than the Somerville model, but it flattens out at a lower level . The hazard calculation is sensitive to the model values at large x cos(θ) (greater than 0.9) so this change results in a reduction of the ground motion.

The T=3 second value is used to guide the adjustment of the model at all periods. The resulting model is given by

$$y_{Dir}(x,\theta,T) = \begin{cases} C_1(T) + 1.88\, C_2(T)\, x \cos(\theta) & \text{for } x\cos(\theta) \leq 0.4 \\ C_1(T) + 0.75\, C_2(T) & \text{for } x\cos(\theta) > 0.4 \end{cases} \qquad \text{(B-4)}$$

where $C_1(T) + C_2(T)$ are from Somerville et al and are listed in Table A-4a.

5. Reduction of the Standard Deviation

Including the directivity effect should results in a reduction of the standard deviation of the attenuation relation. The standard deviation of the data < 20 km including the directivity was compared to the standard deviation of the published model. At T=3 seconds, there is a reduction of about 0.05 natural log units. The period dependence of the reduction is approximated by the period dependence of the slope of the directivity effect. To account for the reduction in the standard deviation due to including the

directivity effect as part of the model, the standard deviations for the published attenuation relations were modified for use in the hazard analysis using the following relation:

$$\sigma'(M,T) = \sigma\,(M,T) - 0.05\, C_2(T)/1.333 \qquad \text{(B-5)}$$

where $C_2(T)$ is given in Table B-1.

Final Directivity Model

The following model is used for the average horizontal component for strike-slip faults

$$\ln Sa_{dir}\,(M,r,x,\theta,T) = \ln Sa(M,r) + y_{Dir}(x,\theta,T)\; T_d(r)\; T_m\,(m) \qquad \text{(B-6)}$$

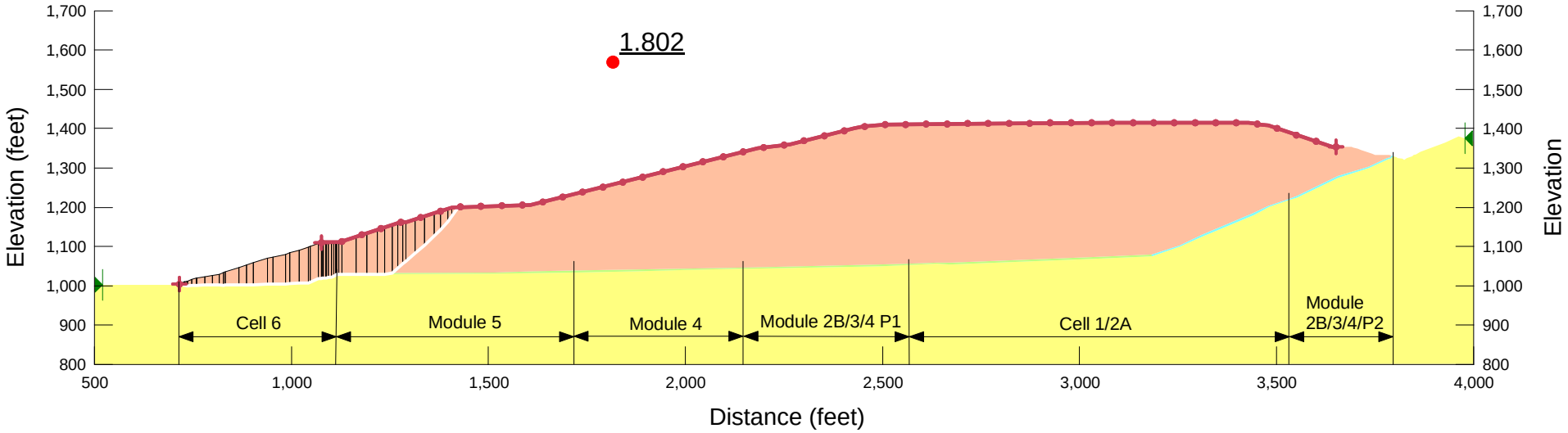
where Sa(M,r) is an empirical attenuation relation without directivity.

Appendix **D**
SLOPE/W ANALYSIS OUTPUT

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 6-1_Static_Translational.gsz
Date: 11/7/2017
Time: 9:11:33 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Cell 6_Section1: Static Translational Sliding

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 6 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			



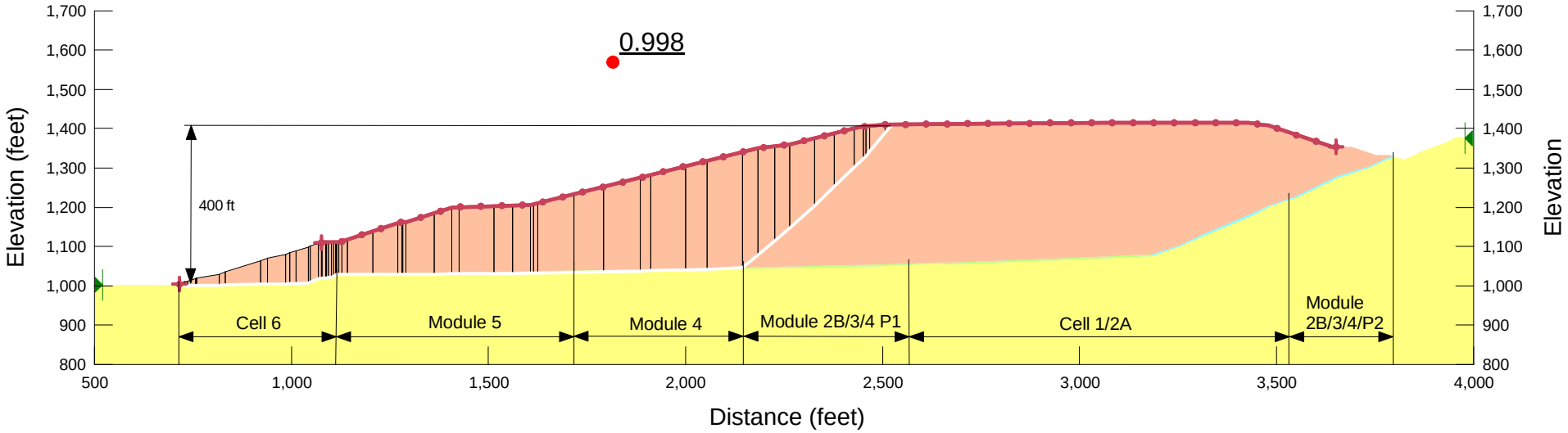
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 6-1_Seismic_Translational.gsz
Date: 11/7/2017
Time: 9:23:32 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Cell 6_Section1: Seismic Translational Sliding

Horz Seismic Coef.: 0.175

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 6 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			



Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 6-1_Static_Rotational.gsz
Date: 11/7/2017
Time: 9:29:56 AM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
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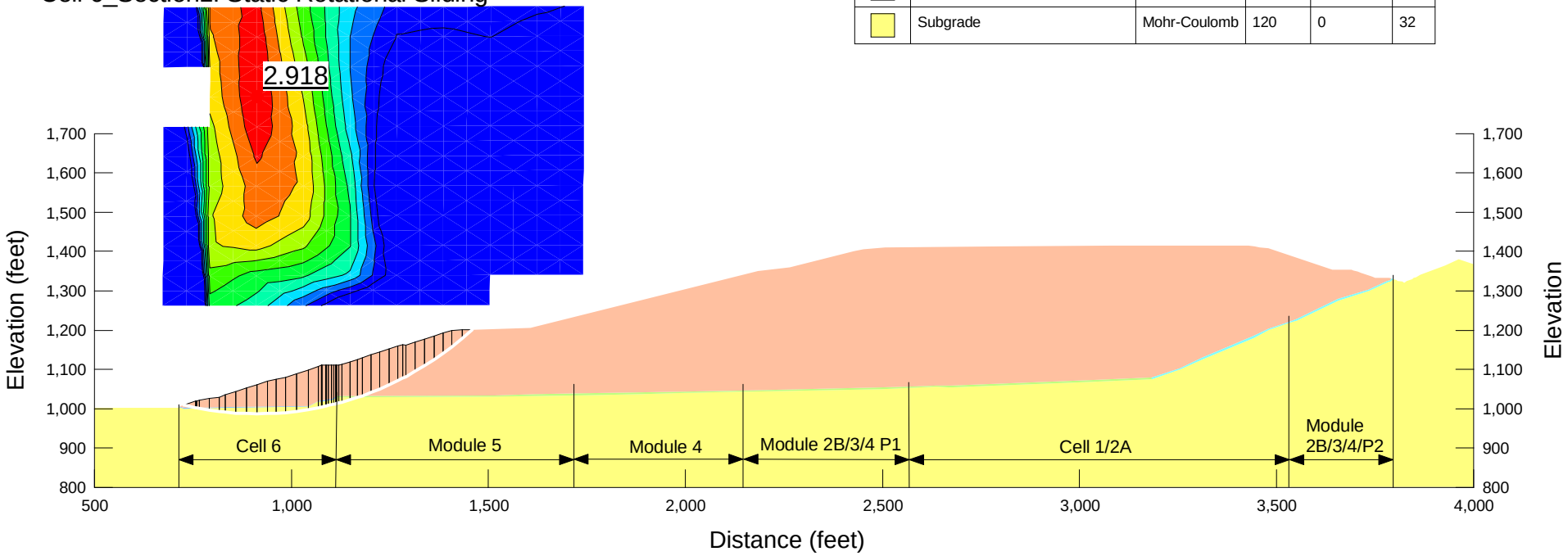
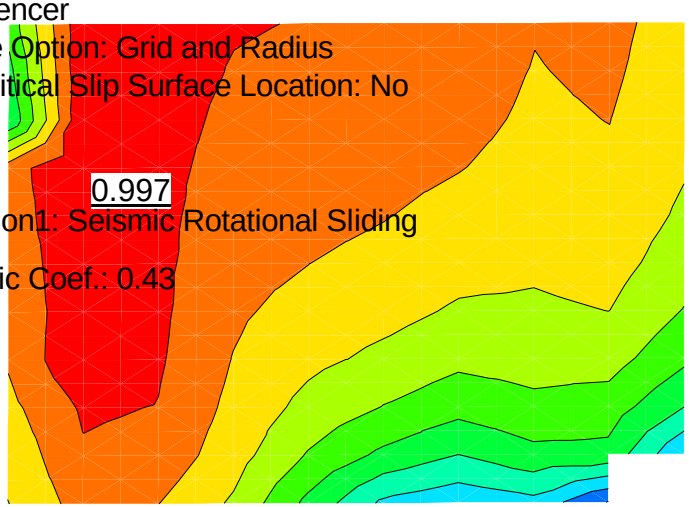
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 6_Section1: Static Rotational Sliding



Geo-Logic ASSOCIATES

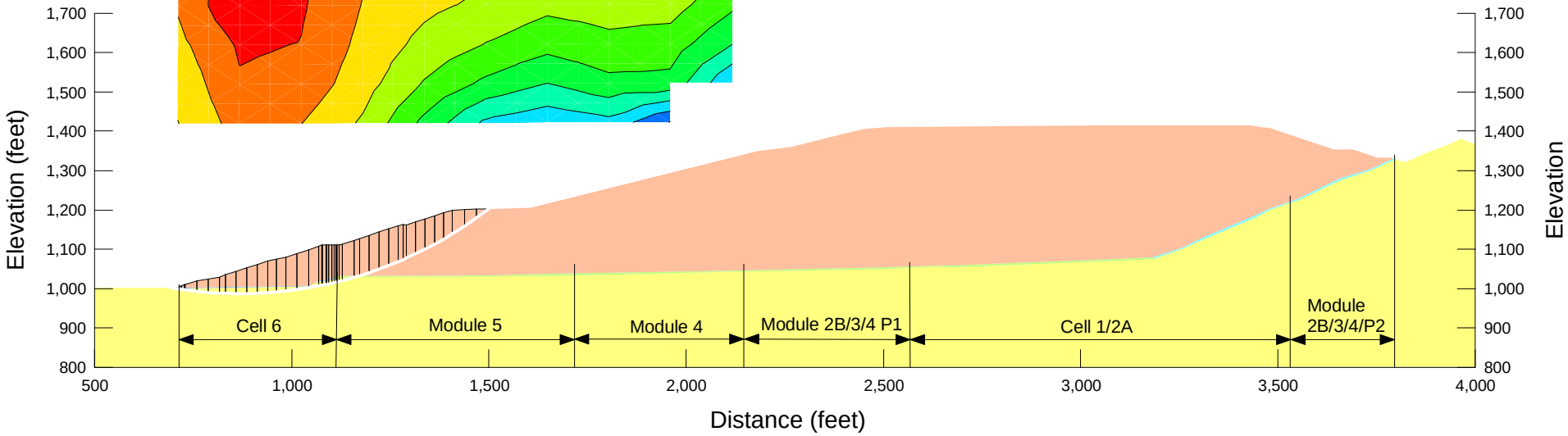
Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 6-1_Seismic_Rotational.gsz
Date: 11/7/2017
Time: 9:32:42 AM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No



Cell 6_Section1: Seismic Rotational Sliding

Horz Seismic Coef.: 0.43

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 6 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

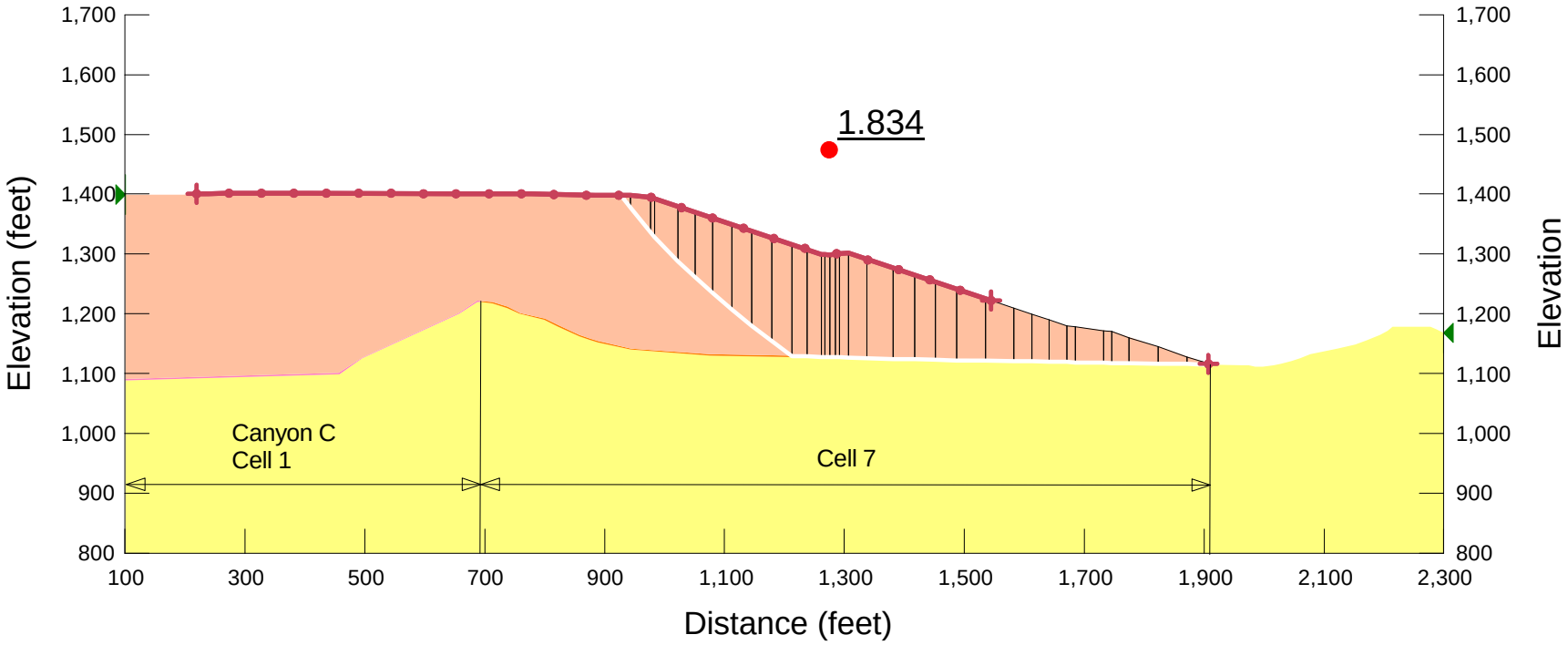


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-1_Static_Translational.gsz
Date: 11/13/2017
Time: 8:54:09 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 1: Static Translational Sliding



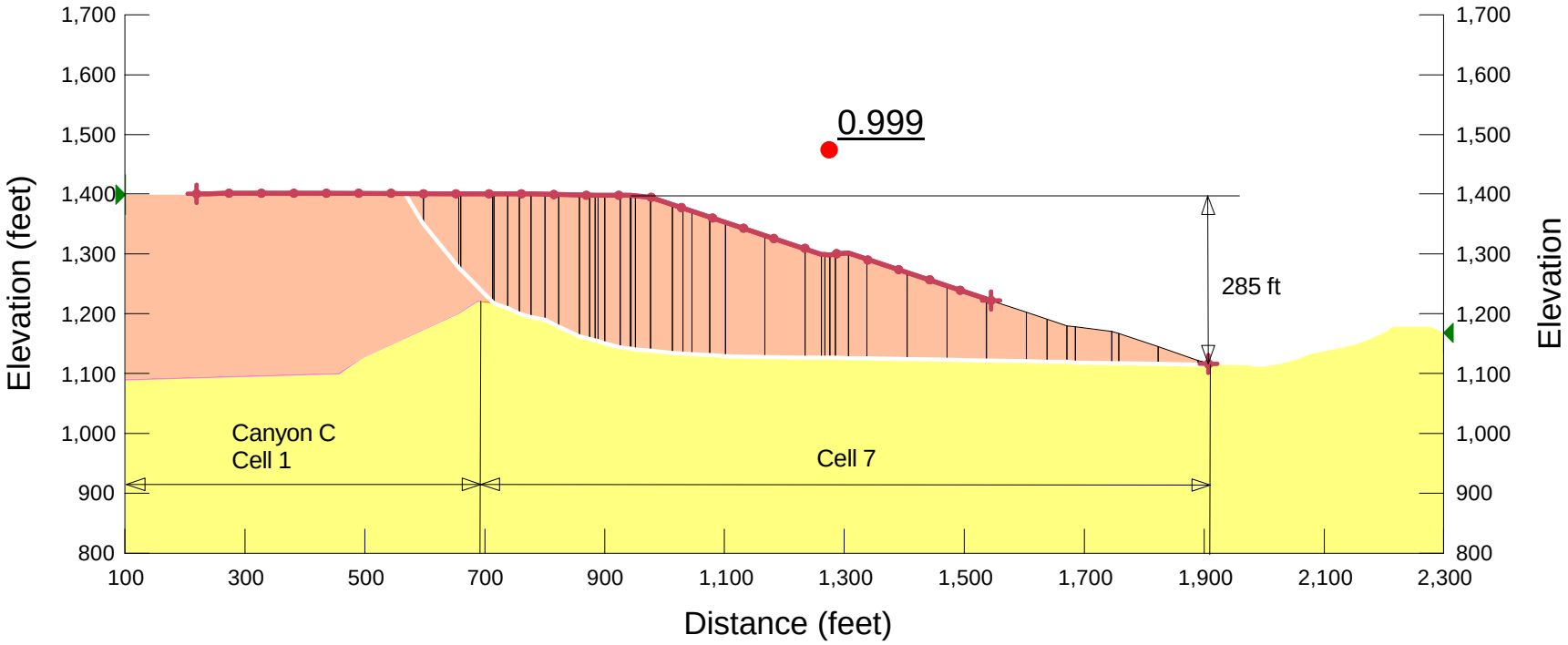
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-1_Seismic_Translational.gsz
Date: 11/13/2017
Time: 9:05:28 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 1: Seismic Translational Sliding

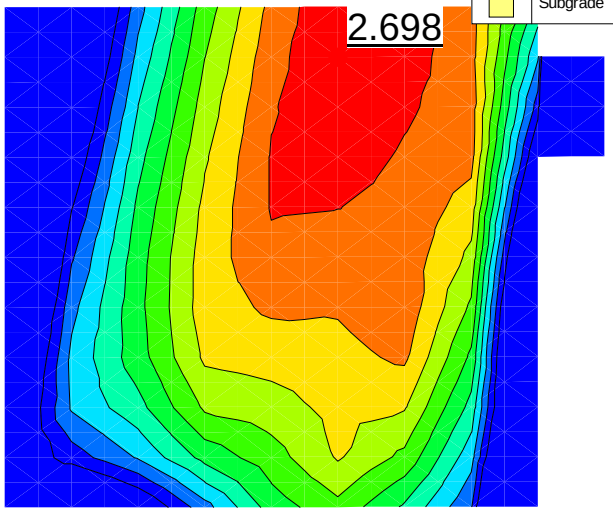
Horz Seismic Coef.: 0.161



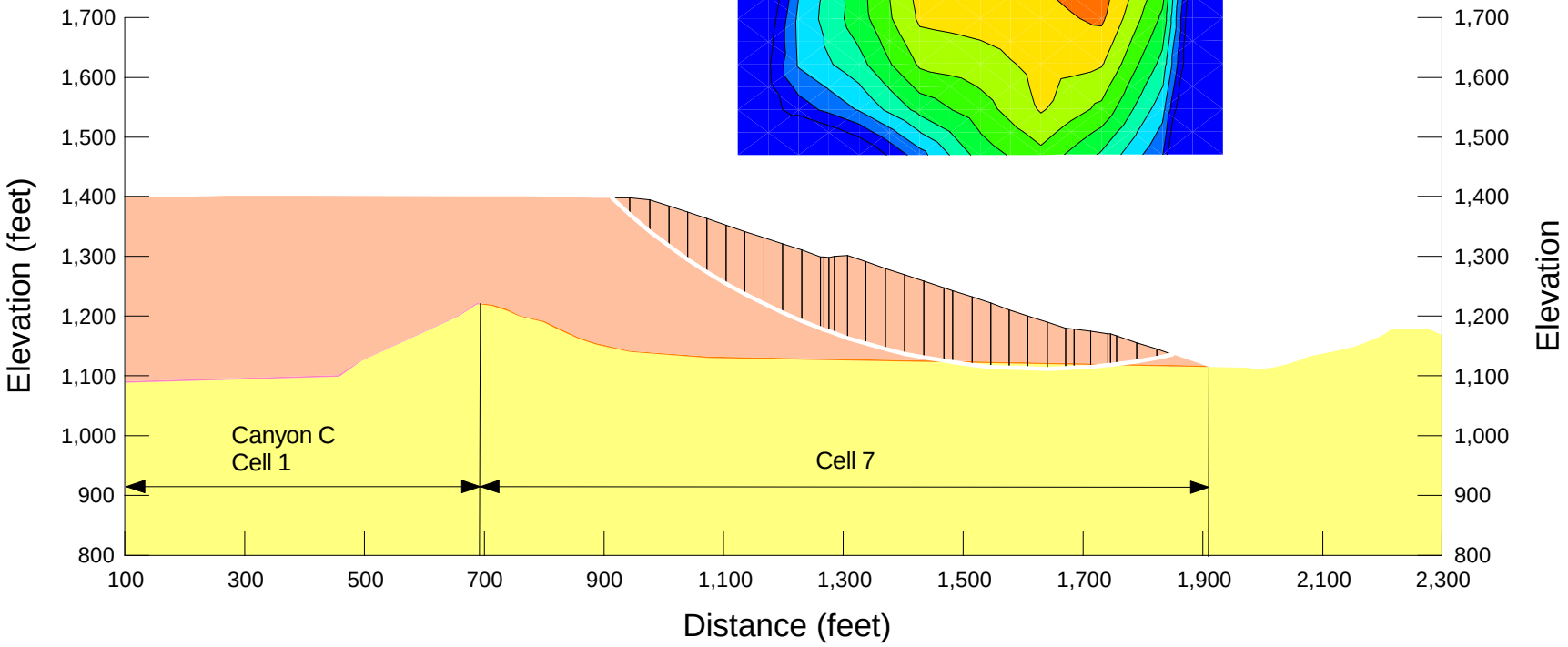
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-1_Static_Rotational.gsz
Date: 11/13/2017
Time: 9:14:06 AM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32



Cell 7_Section 1: Static Rotational Sliding

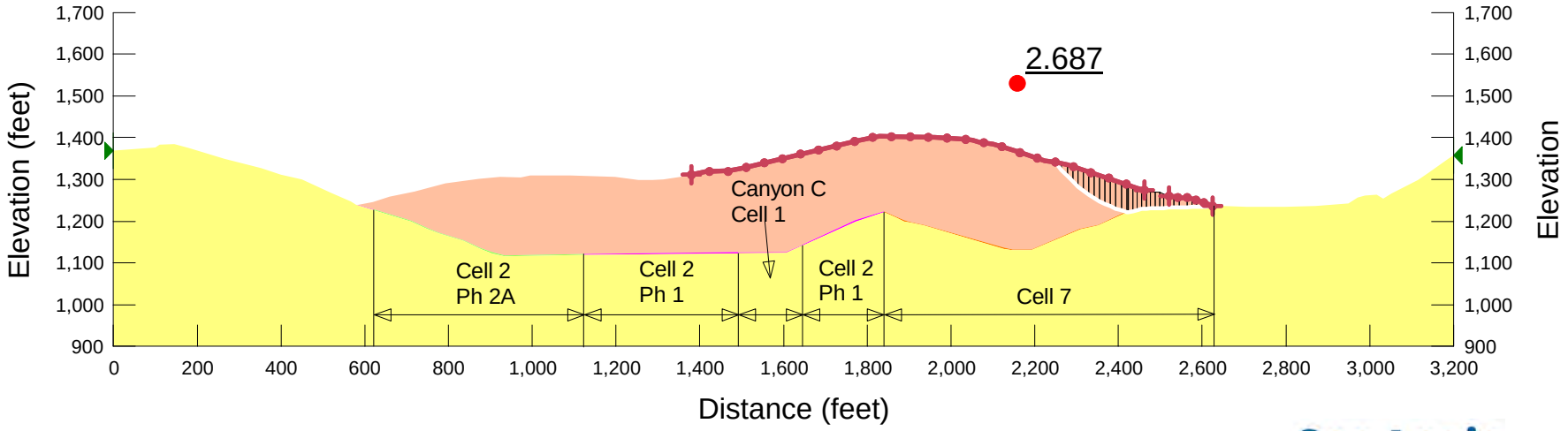


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-2_Static_Translational.gsz
Date: 11/7/2017
Time: 3:51:18 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A Base Liner	Mohr-Coulomb	120	0	12.7
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 2: Static Translational Sliding



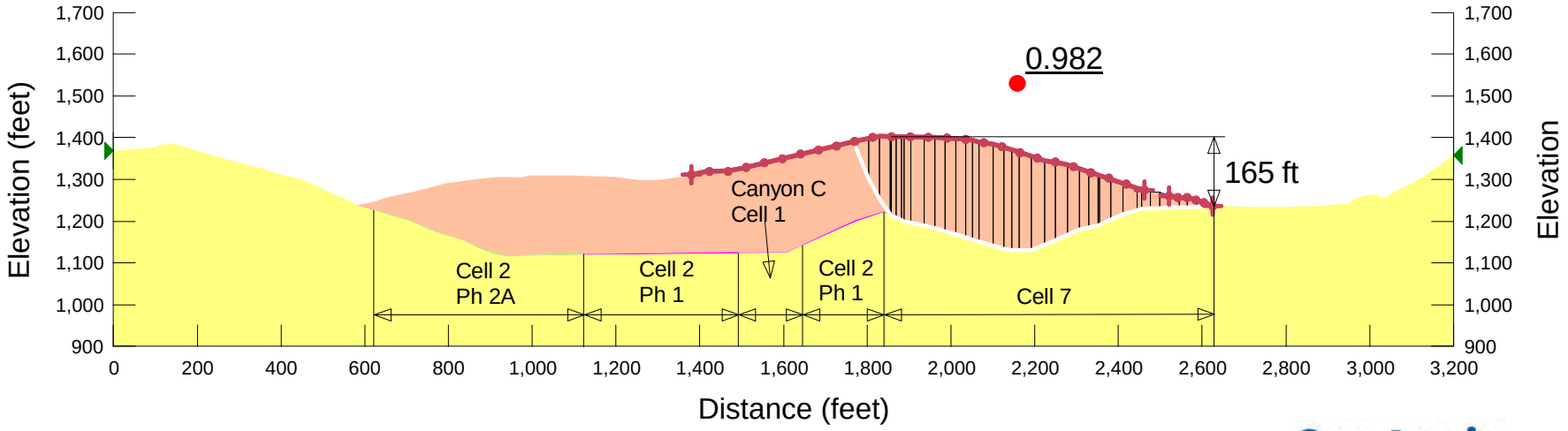
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-2_Seismic_Translational.gsz
Date: 11/7/2017
Time: 4:01:17 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A Base Liner	Mohr-Coulomb	120	0	12.7
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 2: Seismic Translational Sliding

Horz Seismic Coef.: 0.304

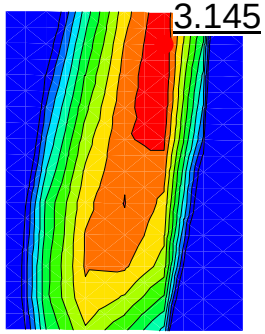


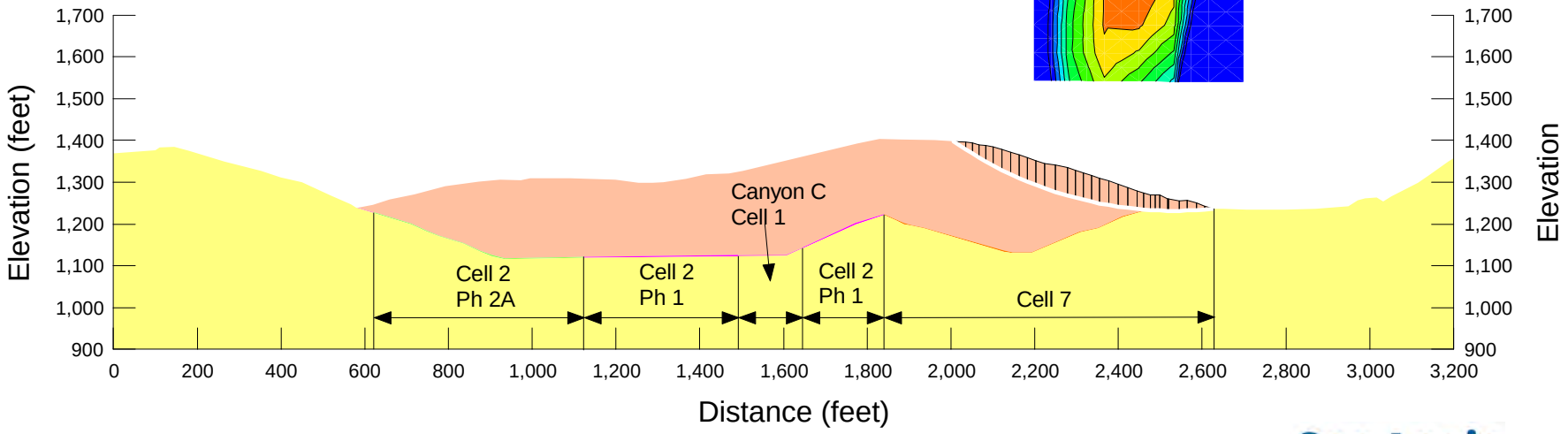
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-2_Static_Rotational.gsz
Date: 11/7/2017
Time: 4:07:10 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A Base Liner	Mohr-Coulomb	120	0	12.7
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 7_Section 2: Static Rotational Sliding



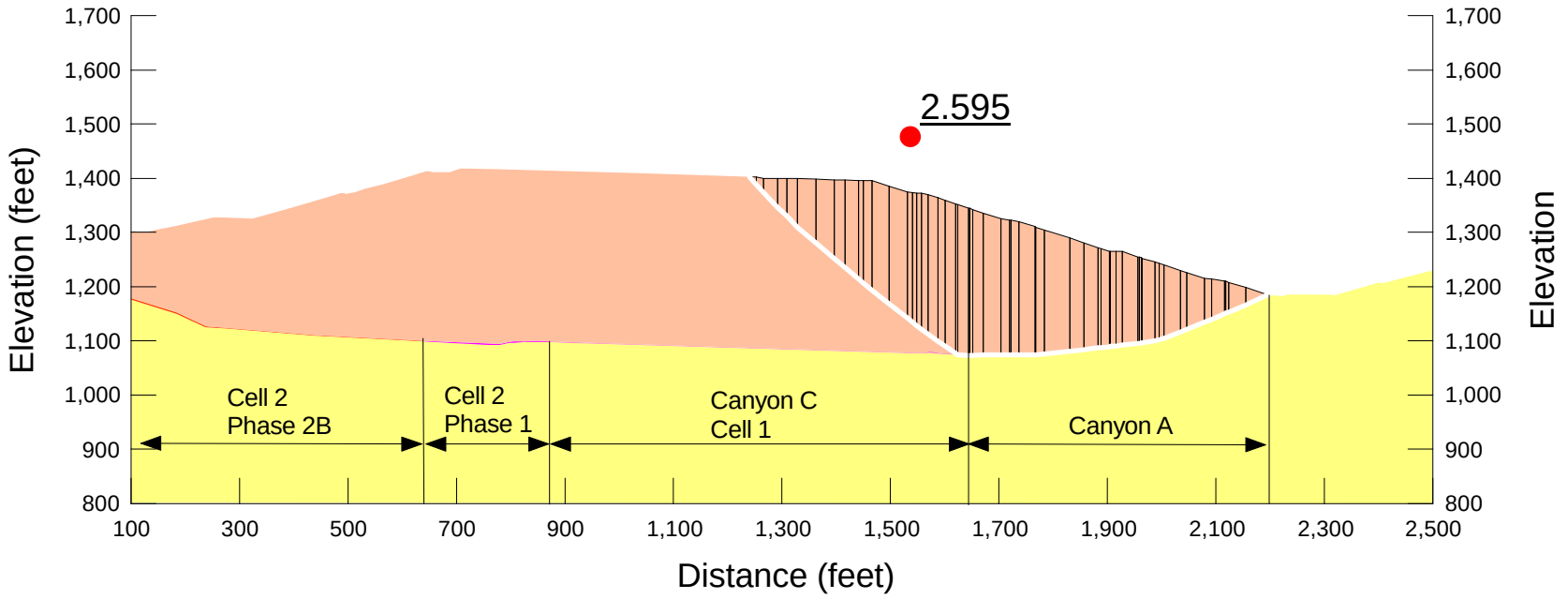


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-3_Static_Translational.gsz
Date: 11/13/2017
Time: 10:09:14 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Cell 2 Phase 1 Base and Slope Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A/2B Base and Slope Liner	Mohr-Coulomb	120	0	12.7
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 3: Static Translational Sliding



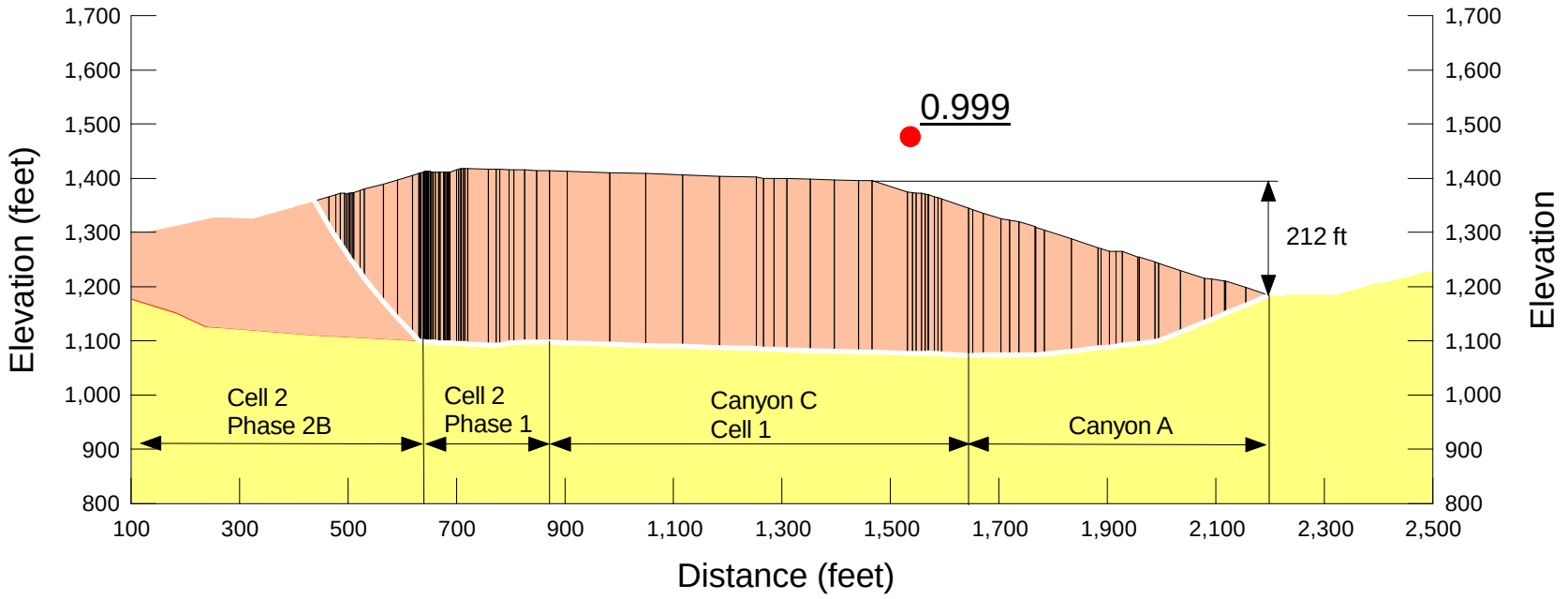
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-3_Seismic_Translational.gsz
Date: 11/13/2017
Time: 10:20:24 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Cell 2 Phase 1 Base and Slope Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A/2B Base and Slope Liner	Mohr-Coulomb	120	0	12.7
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 3: Seismic Translational Sliding

Horz Seismic Coef.: 0.286

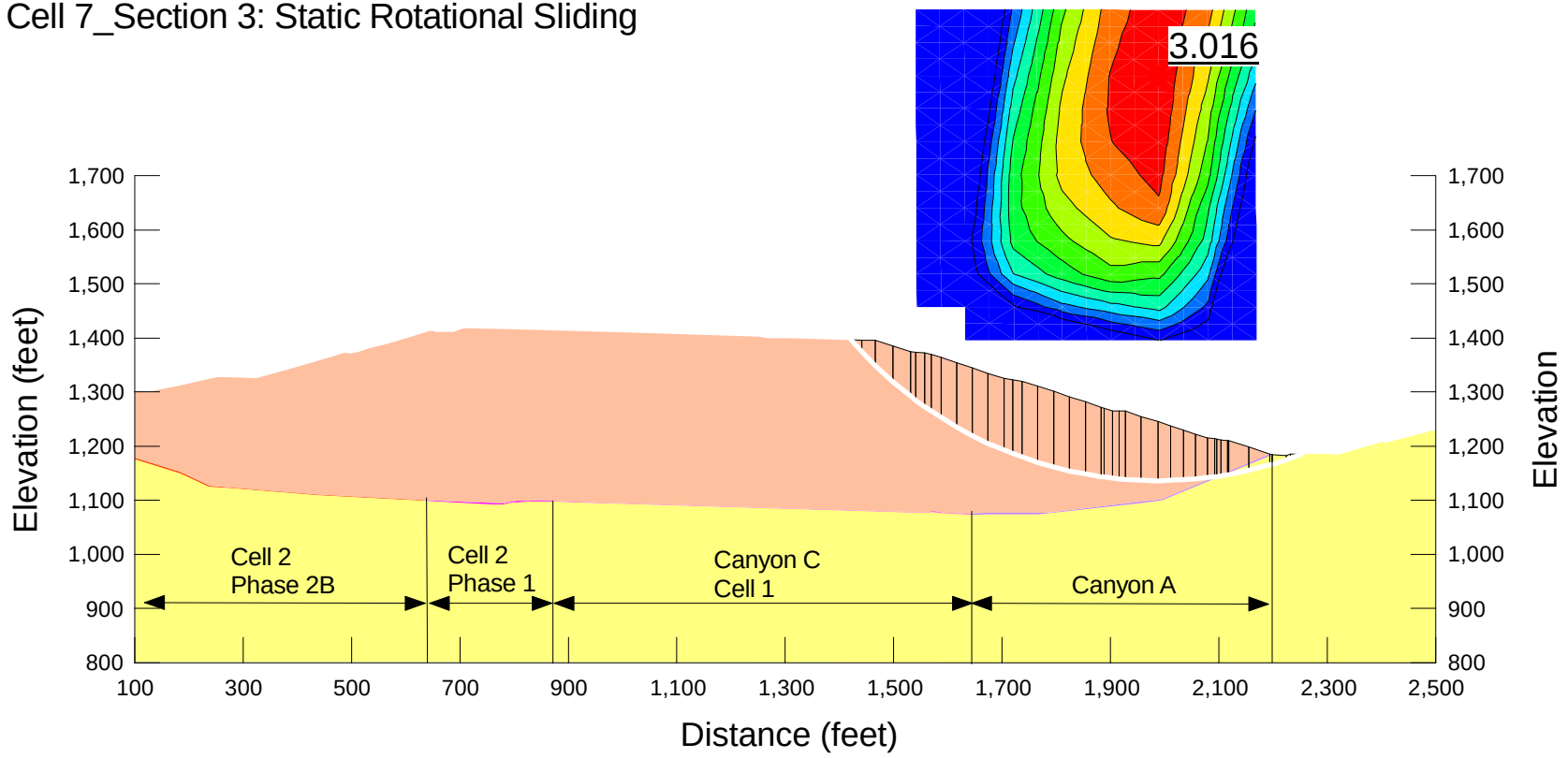


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-3_Static_Rotational.gsz
Date: 11/13/2017
Time: 10:27:31 AM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Cell 2 Phase 1 Base and Slope Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A/2B Base and Slope Liner	Mohr-Coulomb	120	0	12.7
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 7_Section 3: Static Rotational Sliding

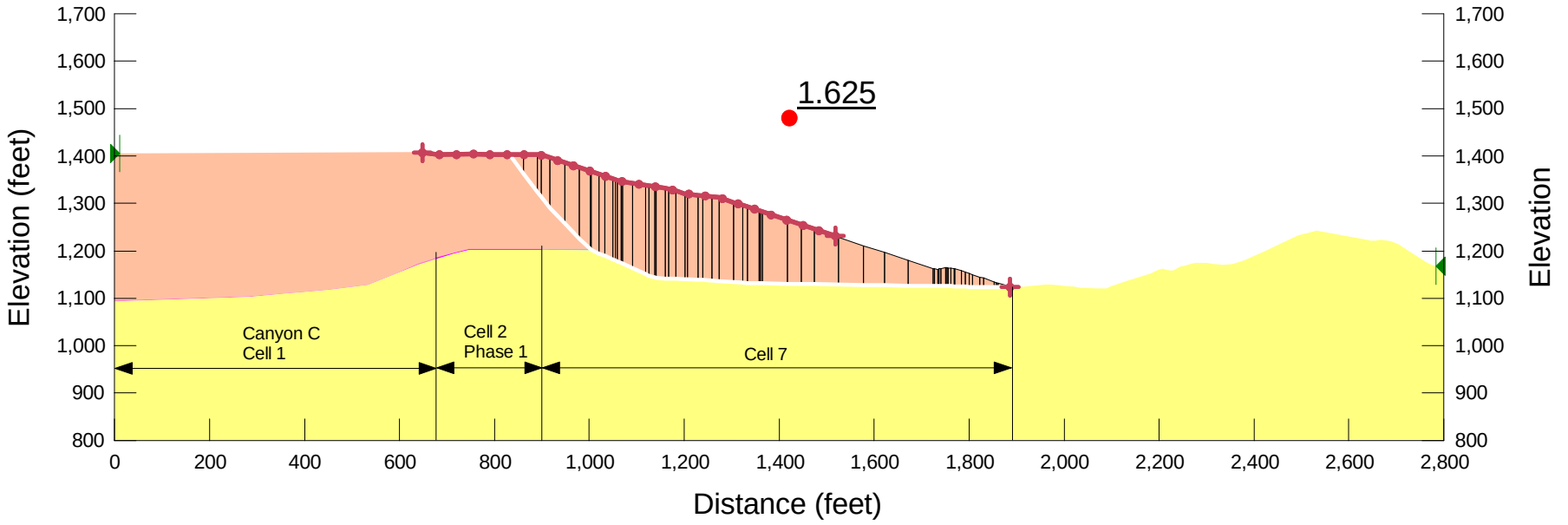


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-4_Static_Translational.gsz
Date: 11/7/2017
Time: 10:06:34 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 4: Static Translational Sliding



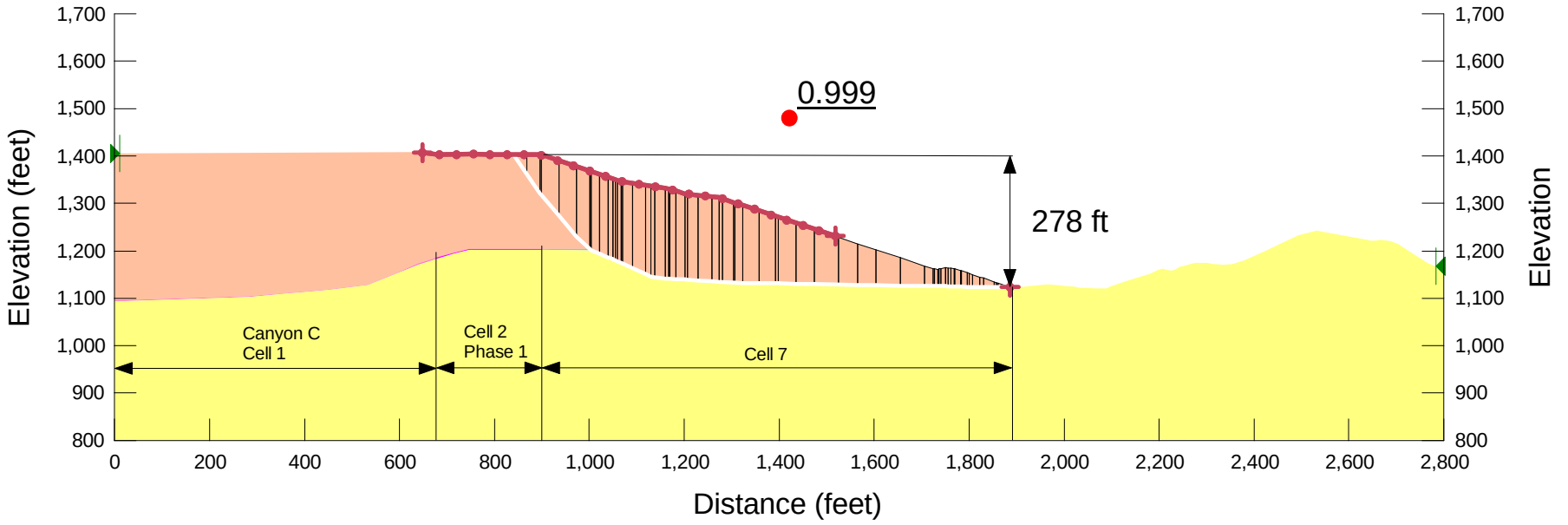
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-4_Seismic_Translational.gsz
Date: 11/7/2017
Time: 10:16:12 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 7_Section 4: Seismic Translational Sliding

Horz Seismic Coef.: 0.138

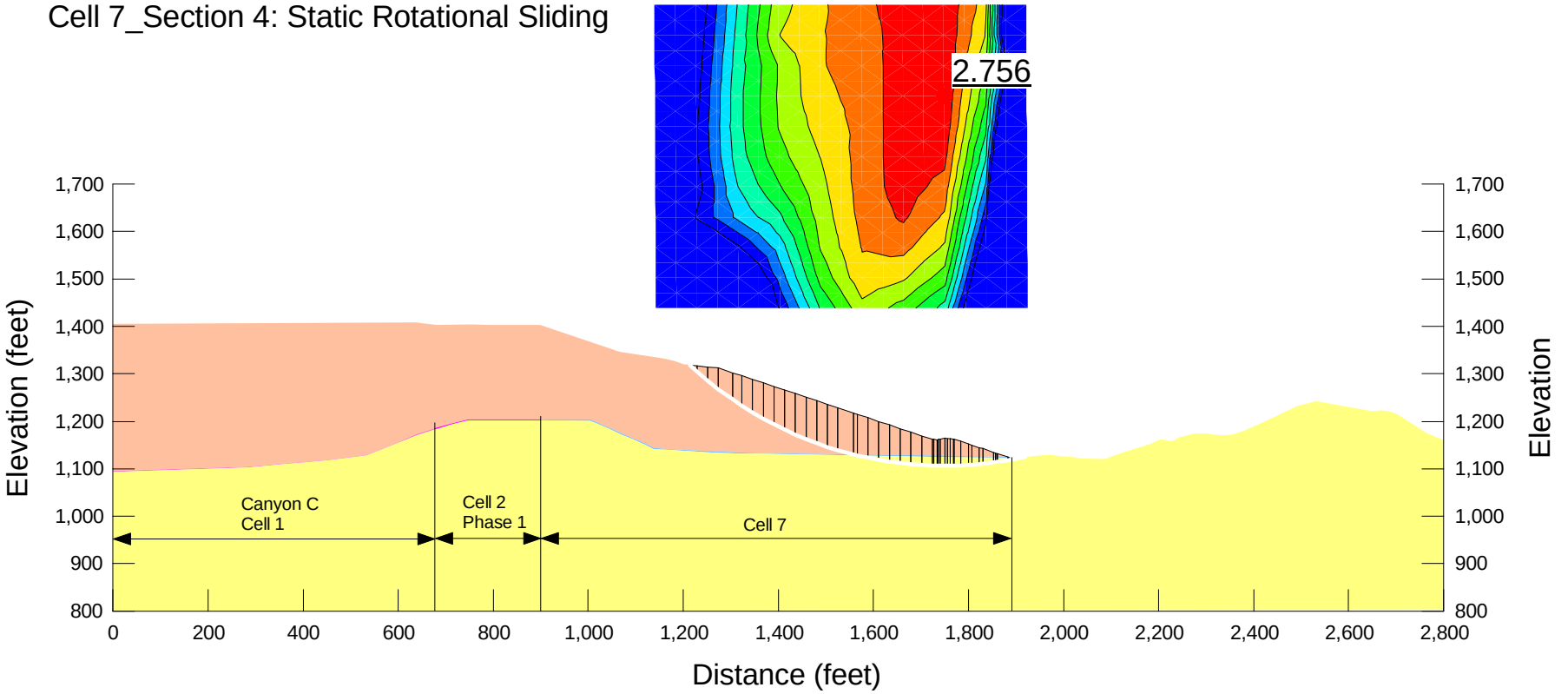


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 7-4_Static_Rotational.gsz
Date: 11/7/2017
Time: 10:26:25 AM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 7 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 7_Section 4: Static Rotational Sliding

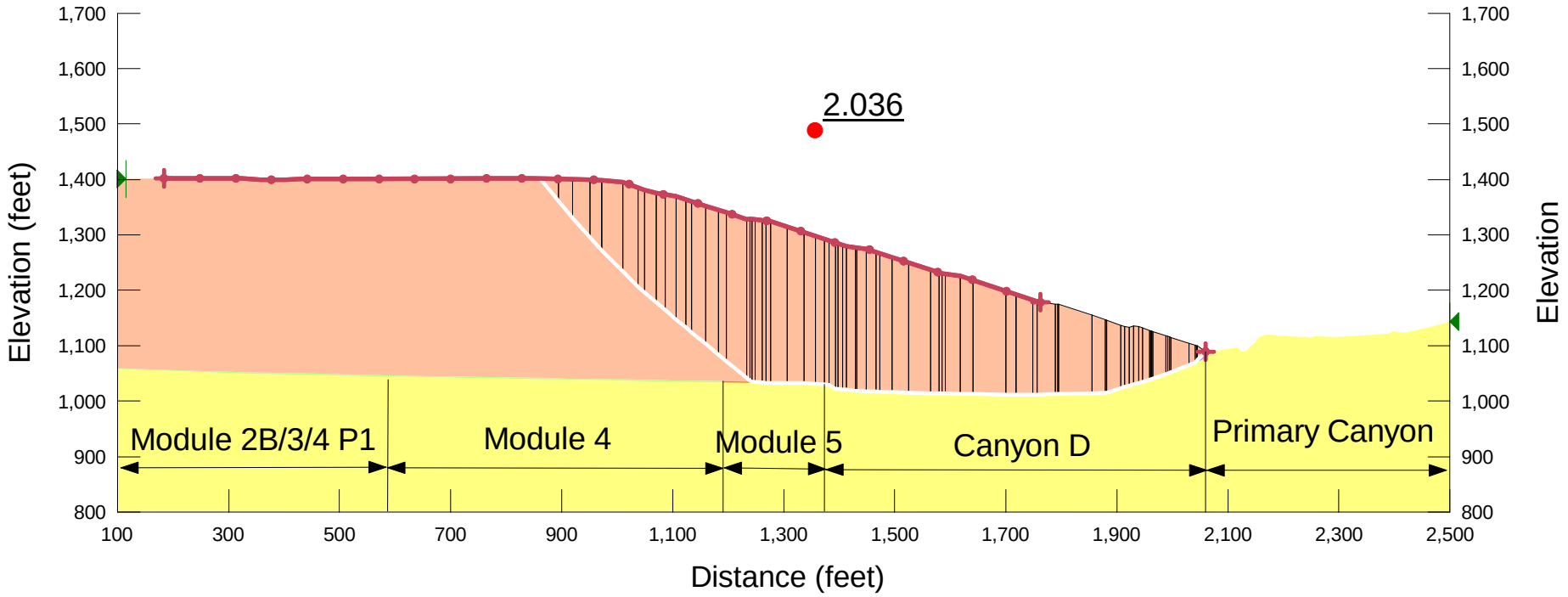


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 8-1_Static_Translational.gsz
Date: 11/13/2017
Time: 11:02:05 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Module 5 Bottom and Slope Liner	Mohr-Coulomb	120	100	12.5
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 8_Section 1: Static Translational Sliding



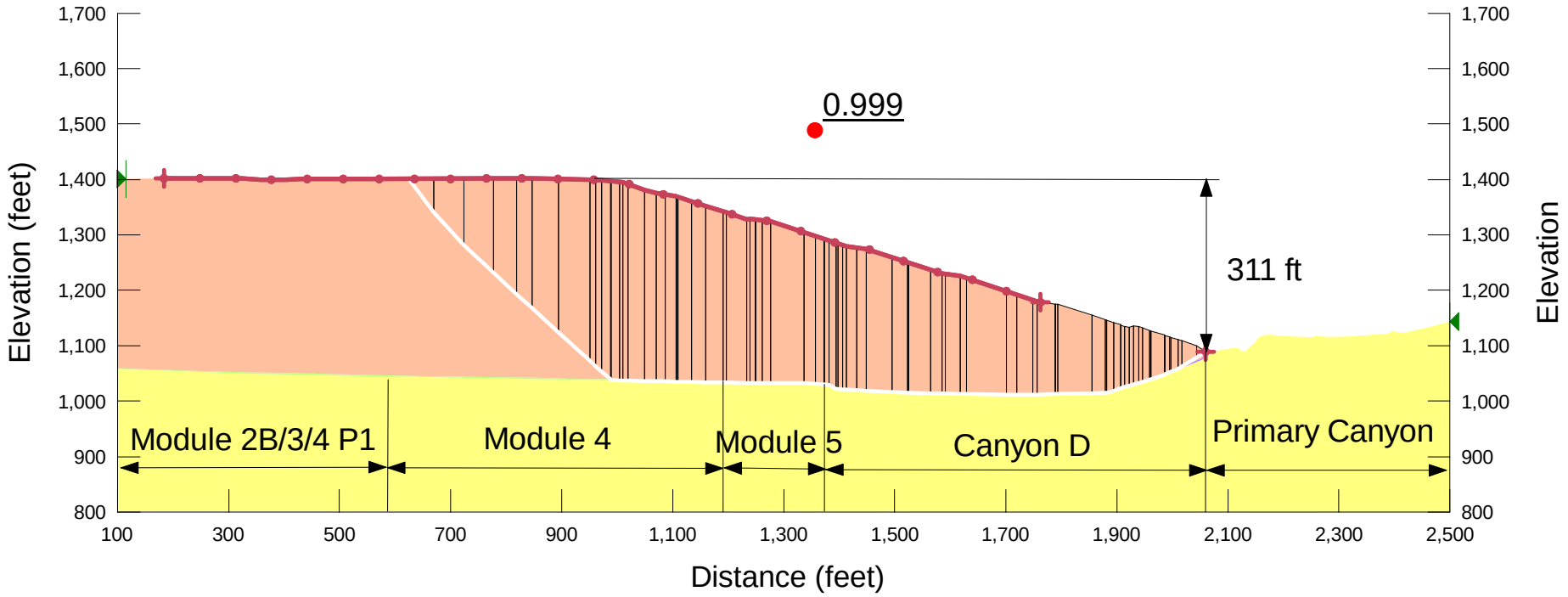
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 8-1_Seismic_Translational.gsz
Date: 11/13/2017
Time: 11:33:18 AM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Module 5 Bottom and Slope Liner	Mohr-Coulomb	120	100	12.5
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

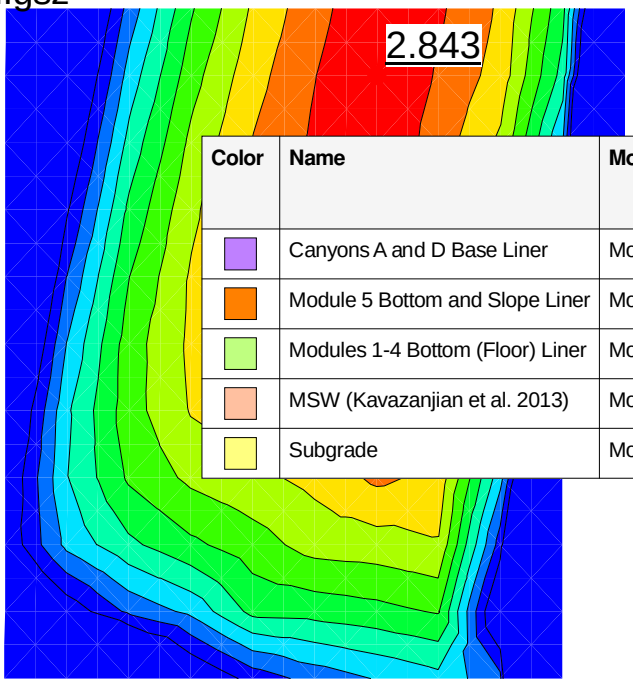
Cell 8_Section 1: Seismic Translational Sliding

Horz Seismic Coef.: 0.244



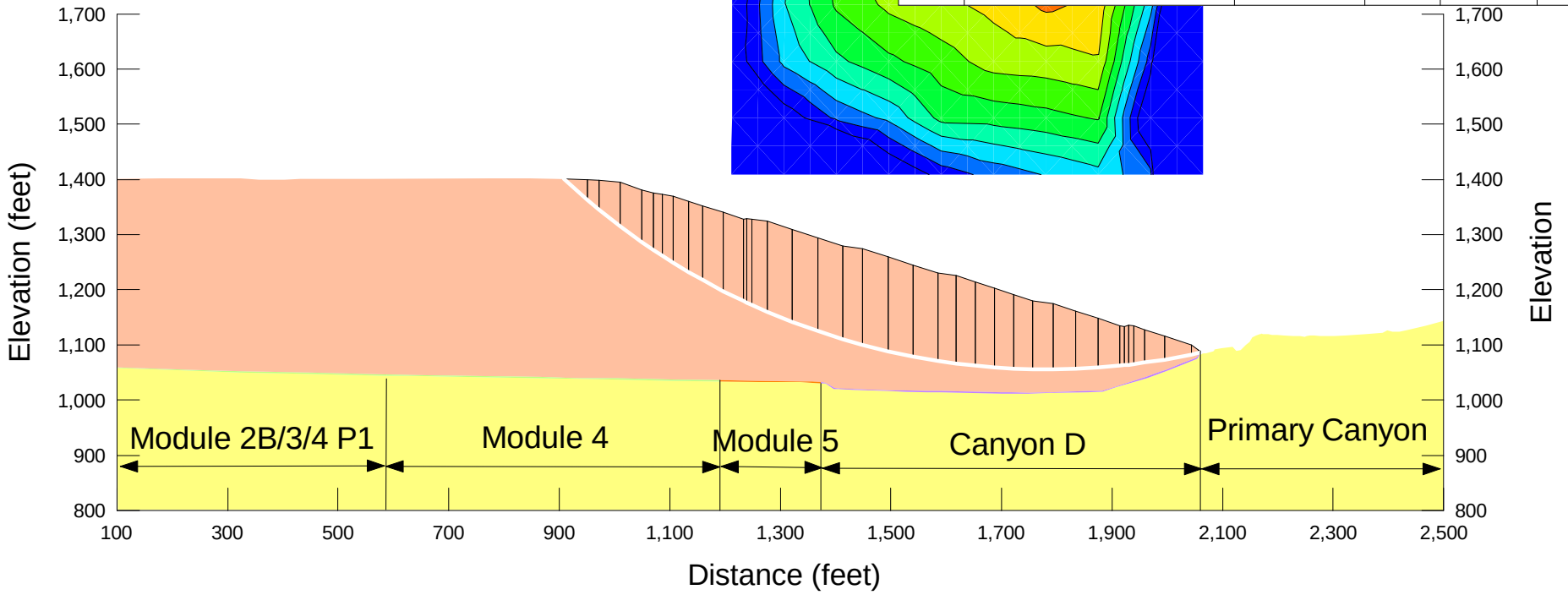
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 8-1_Static_Rotational.gsz
Date: 11/13/2017
Time: 11:41:27 AM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No



Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Module 5 Bottom and Slope Liner	Mohr-Coulomb	120	100	12.5
	Modules 1-4 Bottom (Floor) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 8_Section 1: Static Rotational Sliding

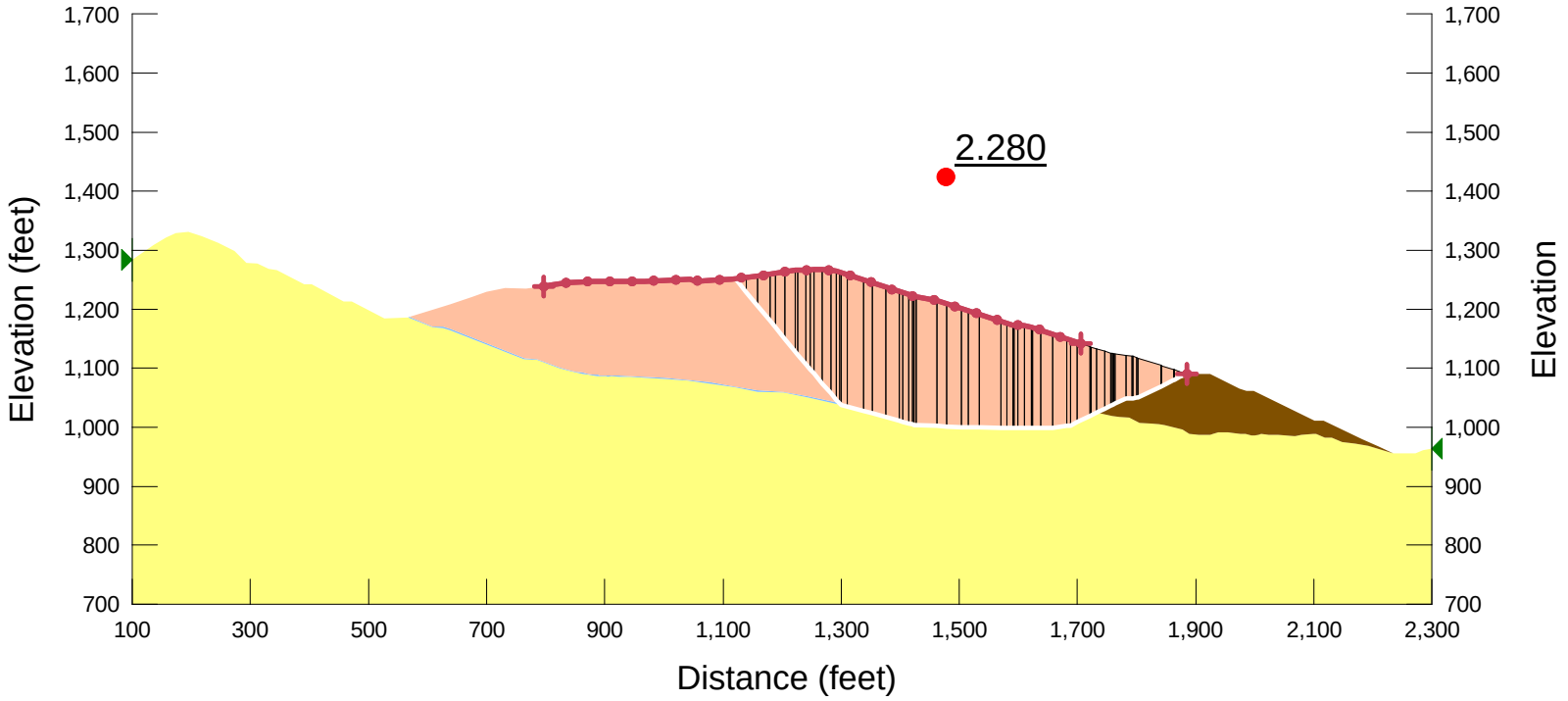


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 8-2_Static_Translational.gsz
Date: 11/13/2017
Time: 12:09:56 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 6 & 8 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Bedrock (Impenetrable)			
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 8_Section 2: Static Translational Sliding



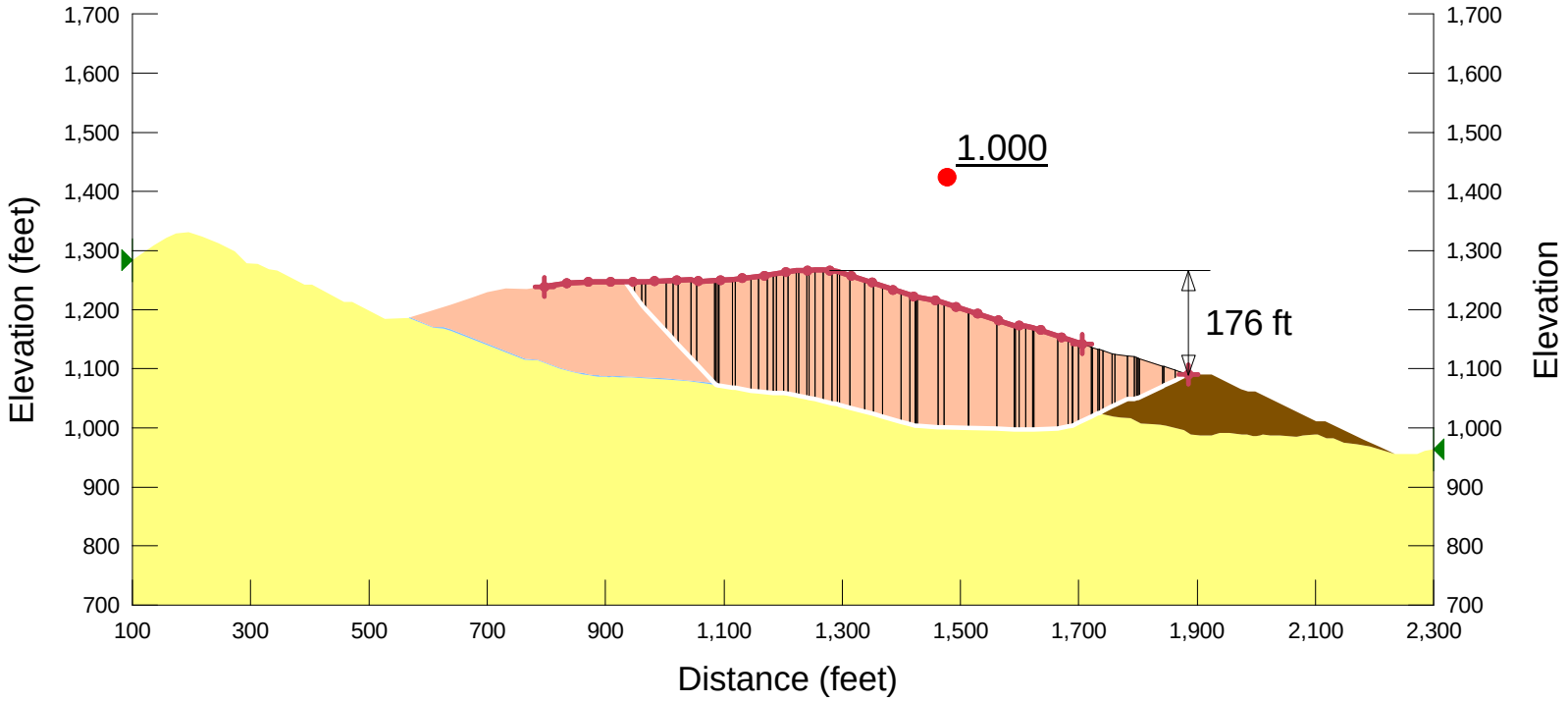
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 8-2_Seismic_Translational.gsz
Date: 11/13/2017
Time: 12:15:35 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 6 & 8 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Bedrock (Impenetrable)			
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 8_Section 2: Seismic Translational Sliding

Horz Seismic Coef.: 0.242

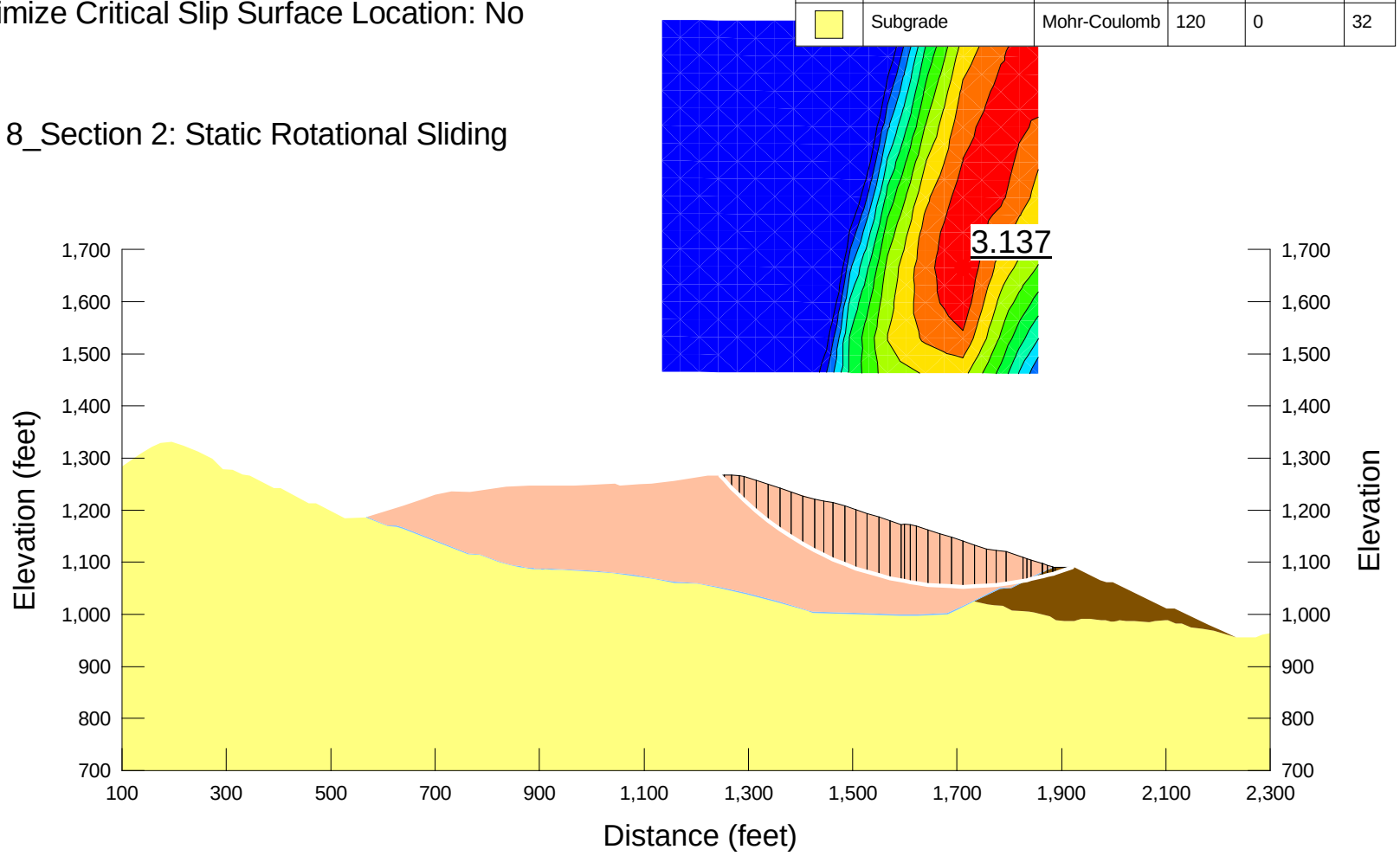


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 8-2_Static_Rotational.gsz
Date: 11/13/2017
Time: 12:31:30 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 6 & 8 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Mohr-Coulomb	125	0	35
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 8_Section 2: Static Rotational Sliding

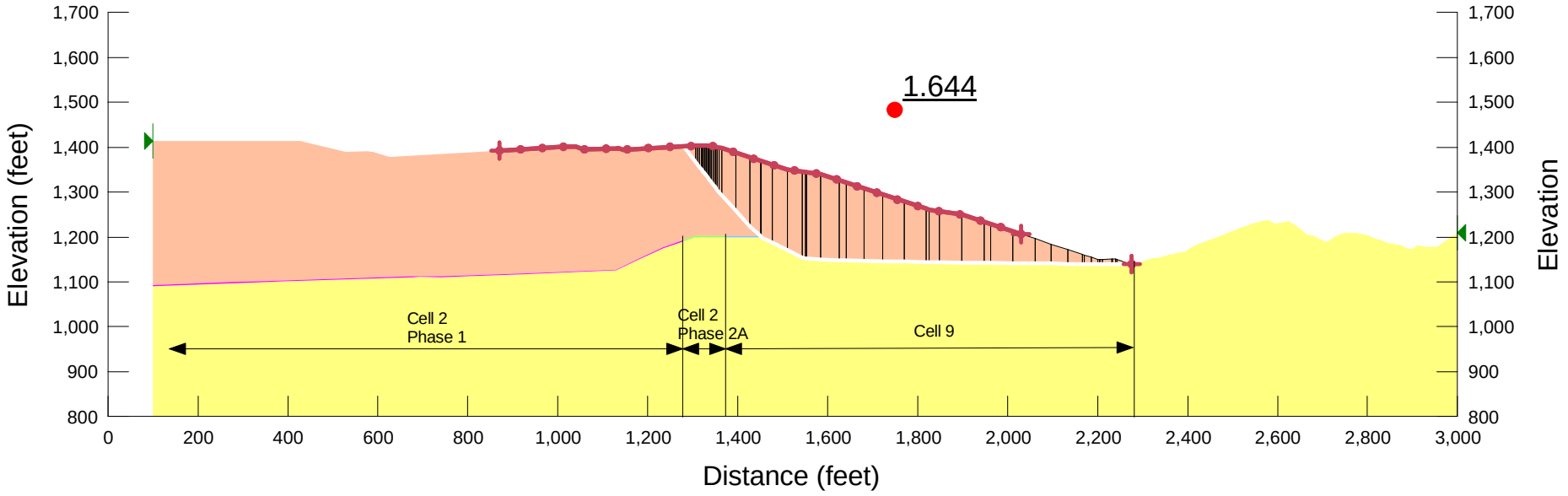


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 9-1_Static_Translational.gsz
Date: 11/7/2017
Time: 2:16:01 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A Base Liner	Mohr-Coulomb	120	0	12.7
	Cell 9 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 9_Section 1: Static Translational Sliding



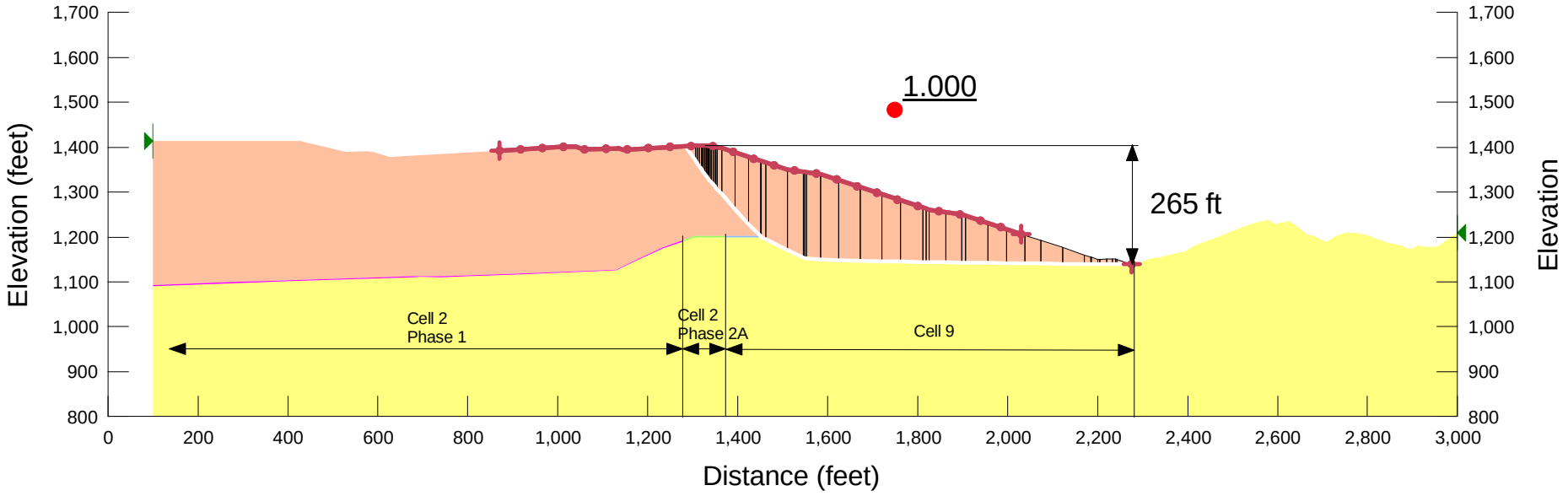
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 9-1_Seismic_Translational.gsz
Date: 11/7/2017
Time: 2:20:04 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A Base Liner	Mohr-Coulomb	120	0	12.7
	Cell 9 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 9_Section 1: Seismic Translational Sliding

Horz Seismic Coef.: 0.147

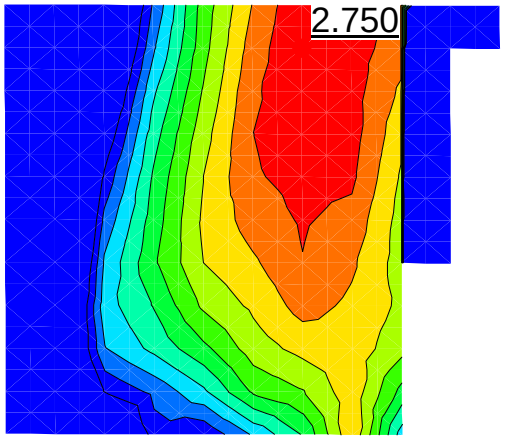


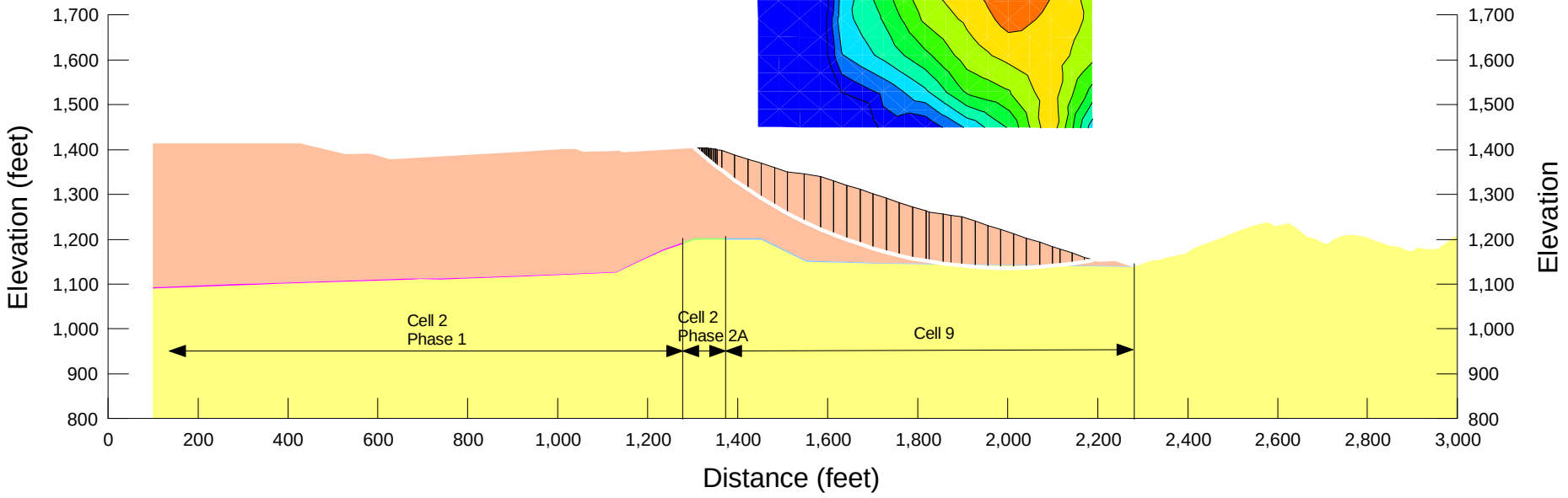
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 9-1_Static_Rotational.gsz
Date: 11/7/2017
Time: 2:27:21 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Cell 2 Phase 2A Base Liner	Mohr-Coulomb	120	0	12.7
	Cell 9 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 9_Section 1: Static Rotational Sliding



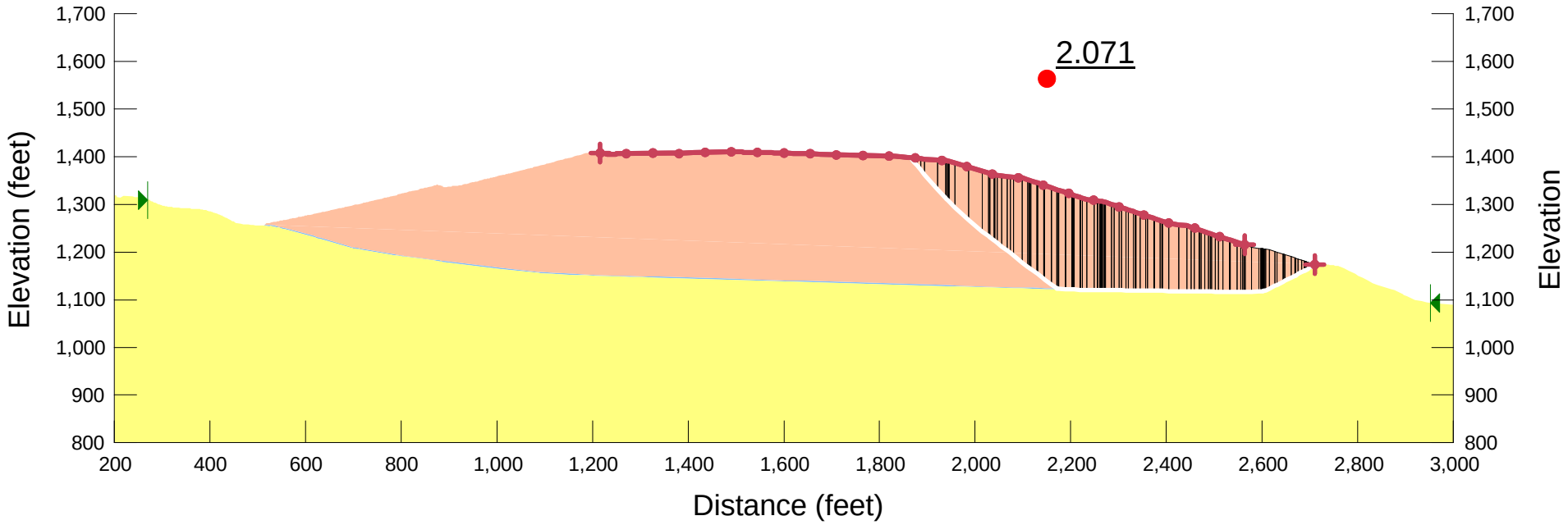


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 10-1_Static_Translational.gsz
Date: 11/7/2017
Time: 2:31:23 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 10 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 10_Section 1: Static Translational Sliding



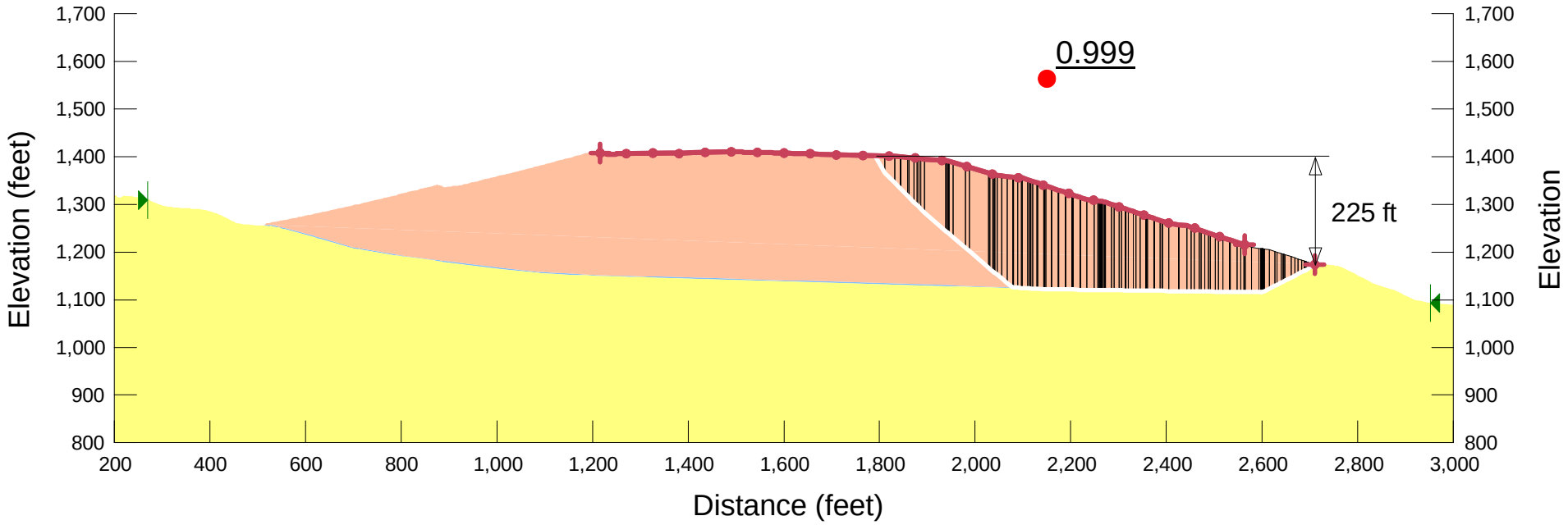
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 10-1_Seismic_Translational.gsz
Date: 11/7/2017
Time: 2:44:24 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 10 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Cell 10_Section 1: Seismic Translational Sliding

Horz Seismic Coef.: 0.234

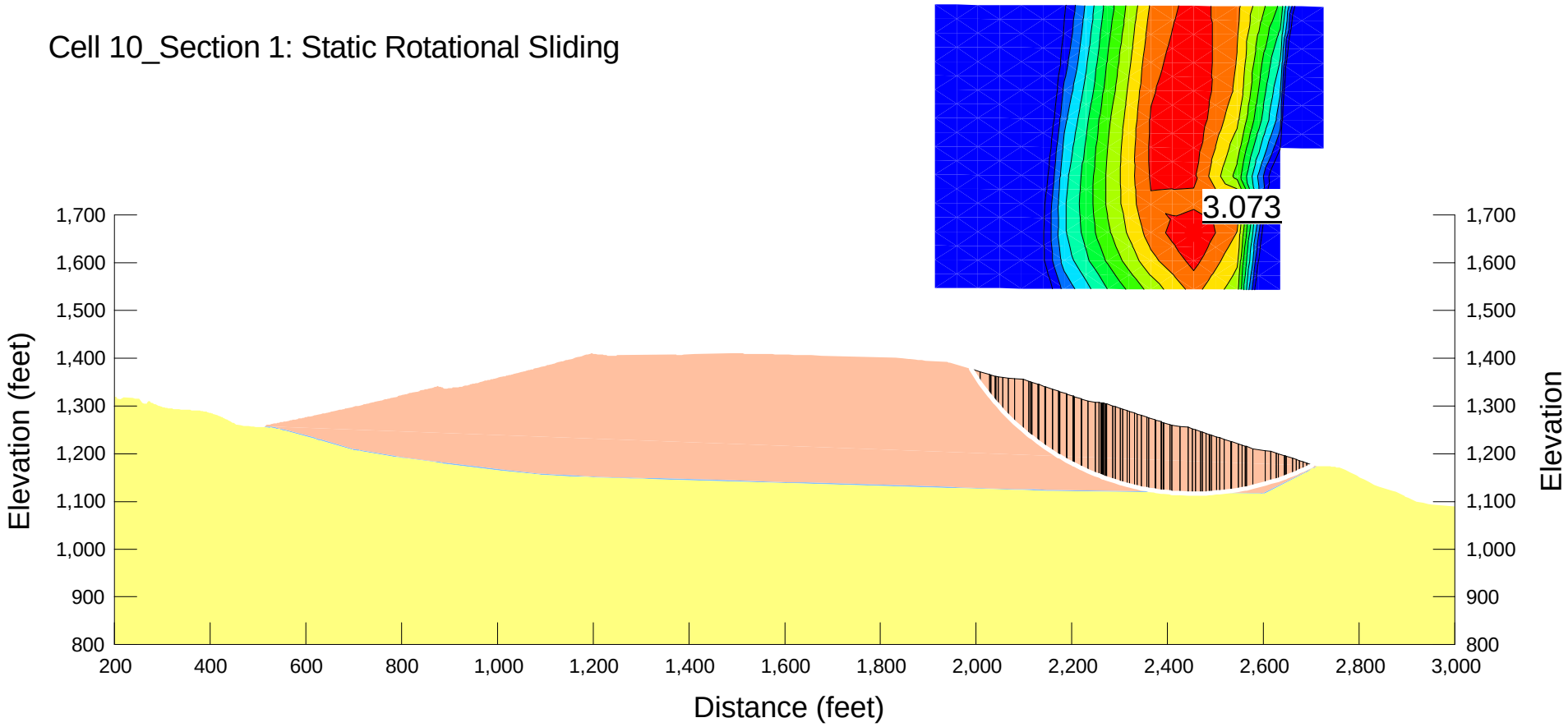


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section 10-1_Static_Rotational.gsz
Date: 11/7/2017
Time: 2:42:10 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cell 10 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Cell 10_Section 1: Static Rotational Sliding

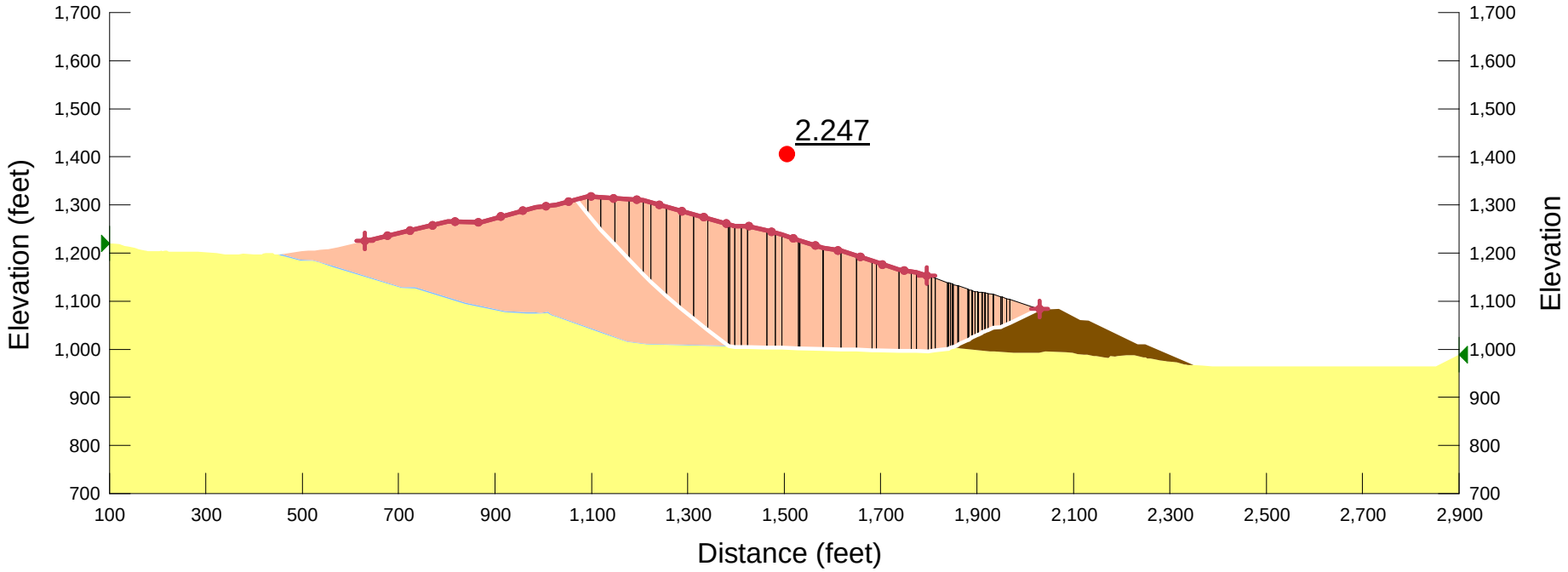


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-1_Static_Translational.gsz
Date: 11/13/2017
Time: 2:35:41 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Bedrock (Impenetrable)			
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Final Grades_Section 1: Static Translational Sliding



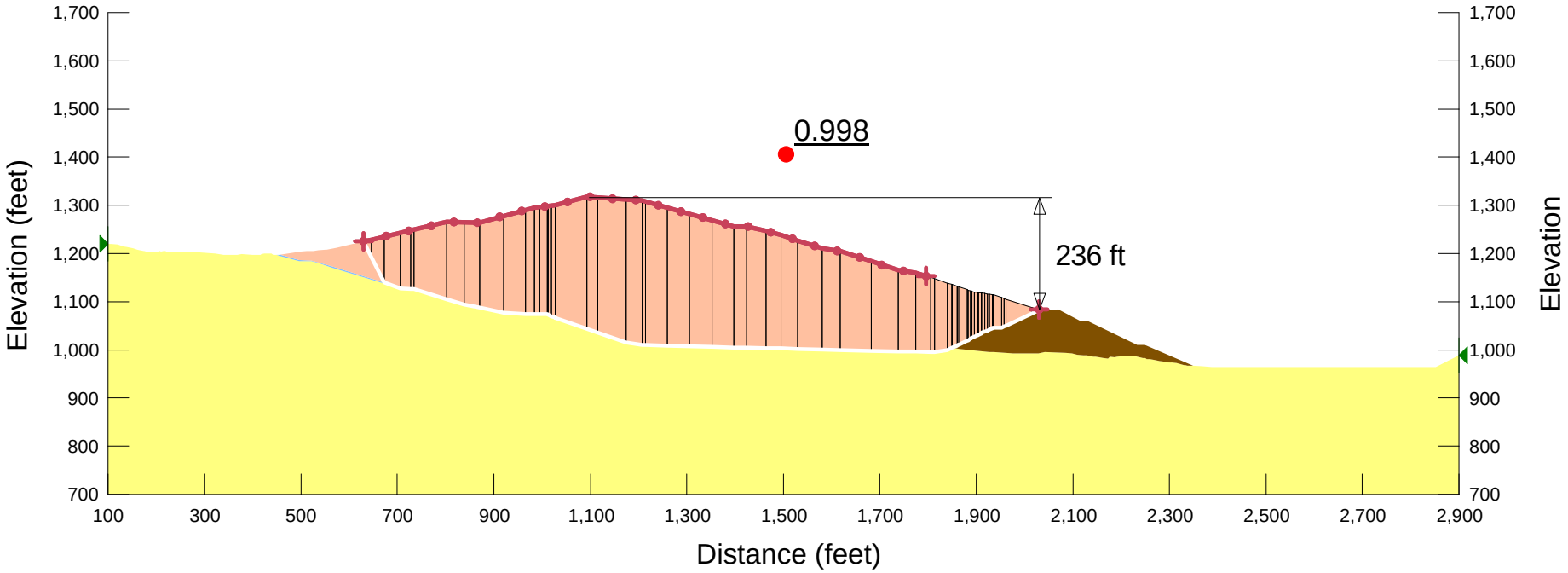
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-1_Seismic_Translational.gsz
Date: 11/13/2017
Time: 2:50:10 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Bedrock (Impenetrable)			
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Final Grades_Section 1: Seismic Translational Sliding

Horz Seismic Coef.: 0.228

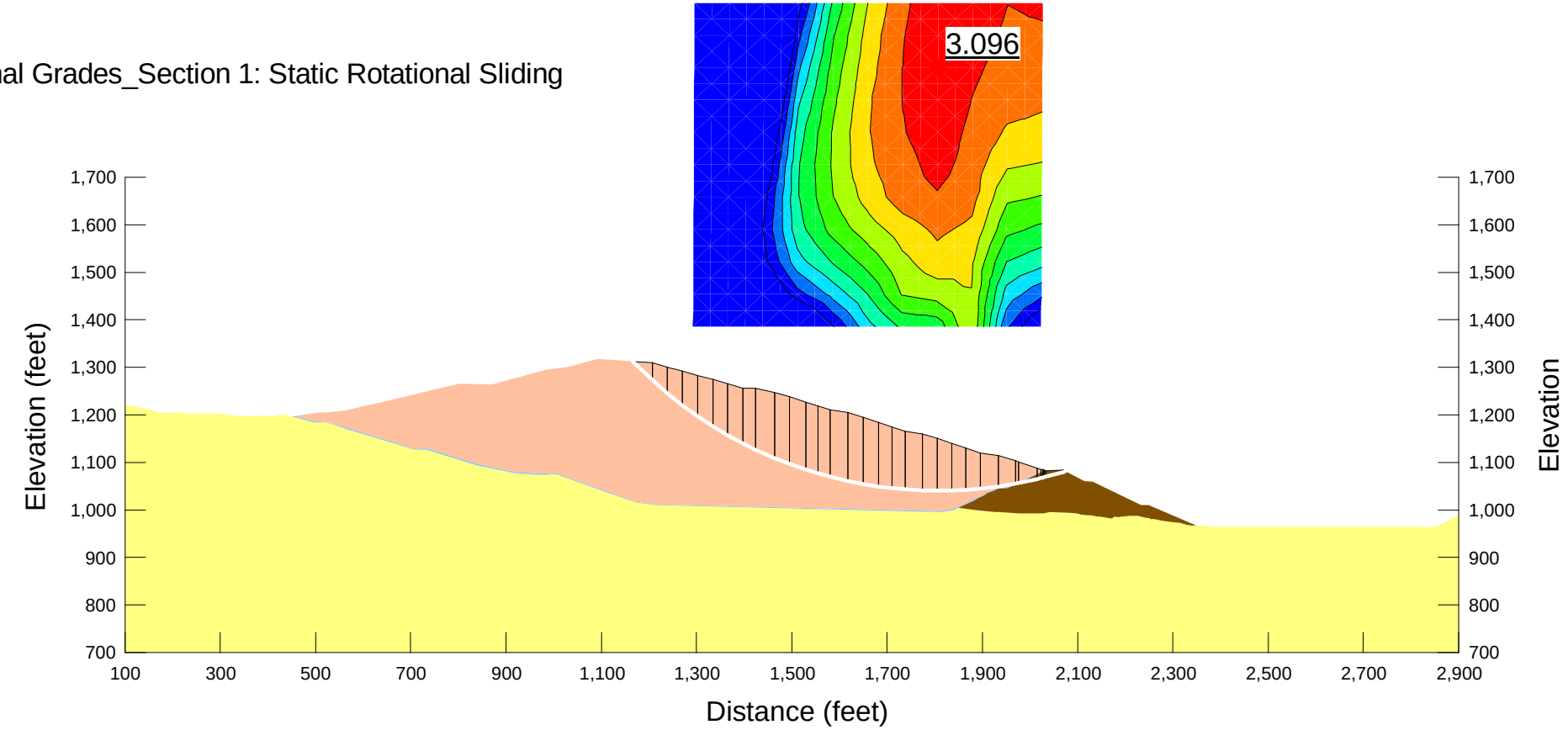


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-1_Static_Rotational.gsz
Date: 11/13/2017
Time: 3:18:57 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Mohr-Coulomb	125	0	35
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Final Grades_Section 1: Static Rotational Sliding

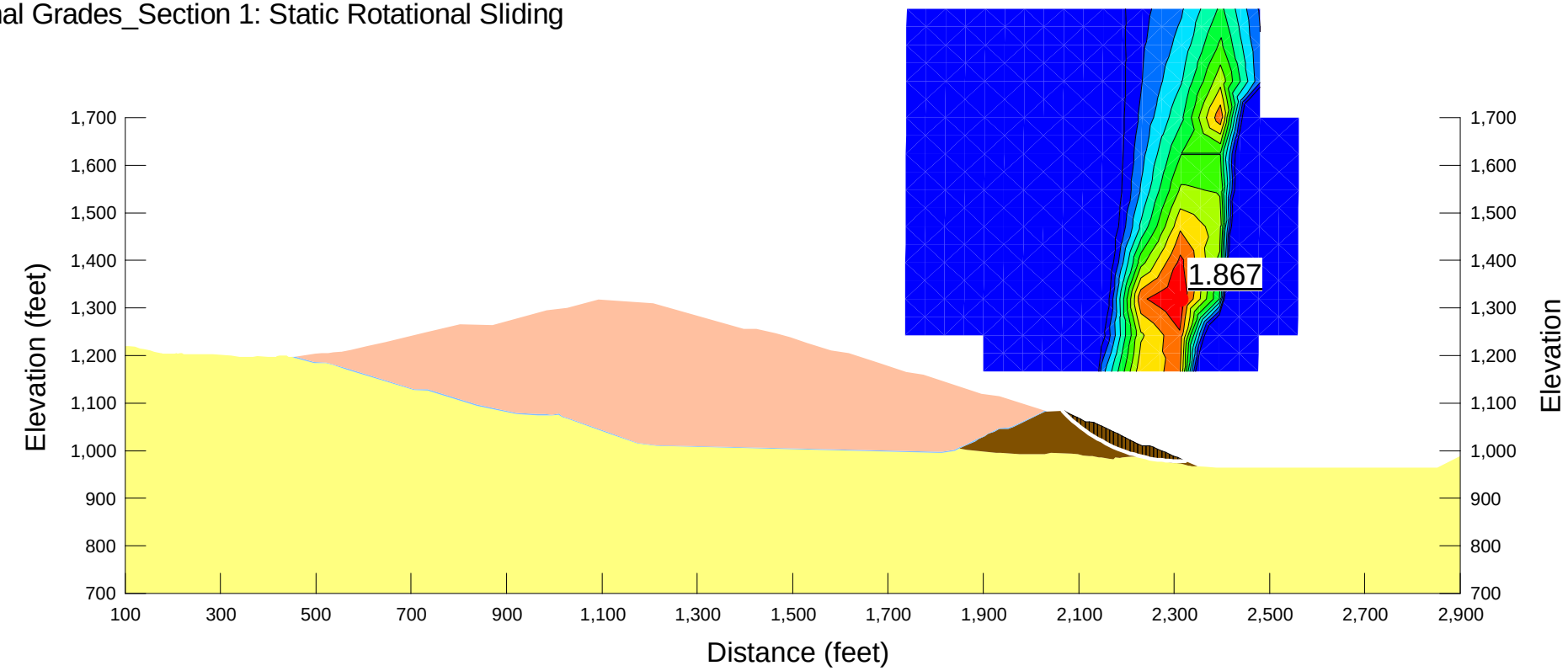


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-1_Static_Rotational.gsz
Date: 11/13/2017
Time: 3:05:39 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Mohr-Coulomb	125	0	35
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Final Grades_Section 1: Static Rotational Sliding

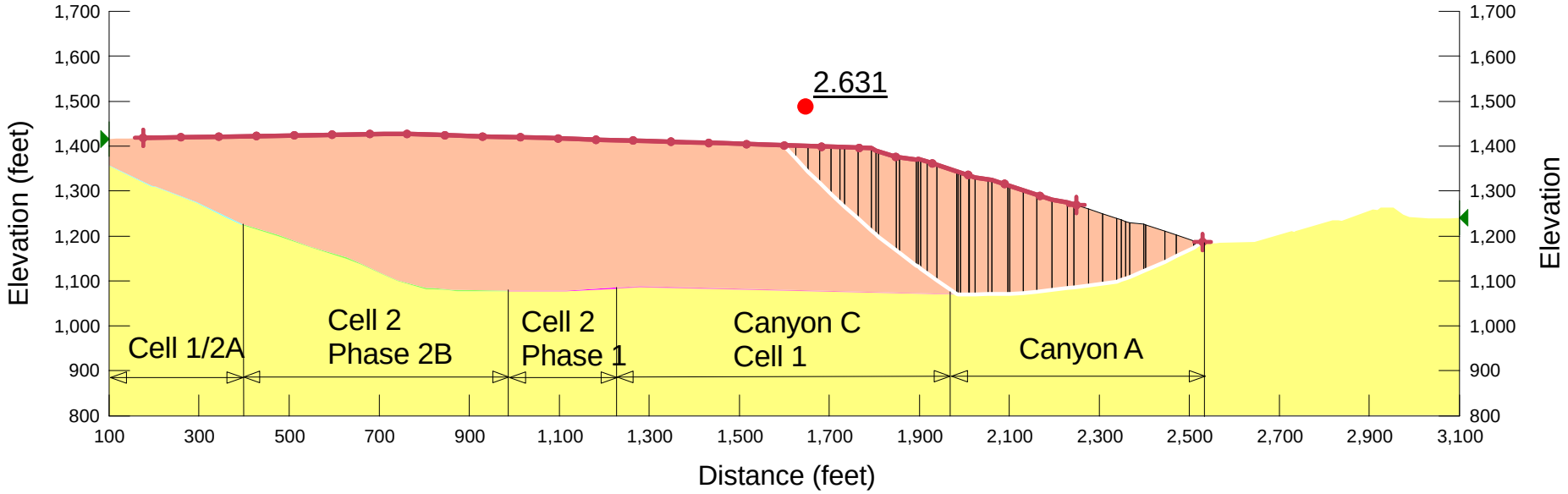


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-2_Static_Translational.gsz
Date: 11/13/2017
Time: 4:39:42 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Canyon C Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Canyon C Cell 2 Phase 2A/2B Base Liner	Mohr-Coulomb	120	0	12.7
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Final Grades_Section 2: Static Translational Sliding



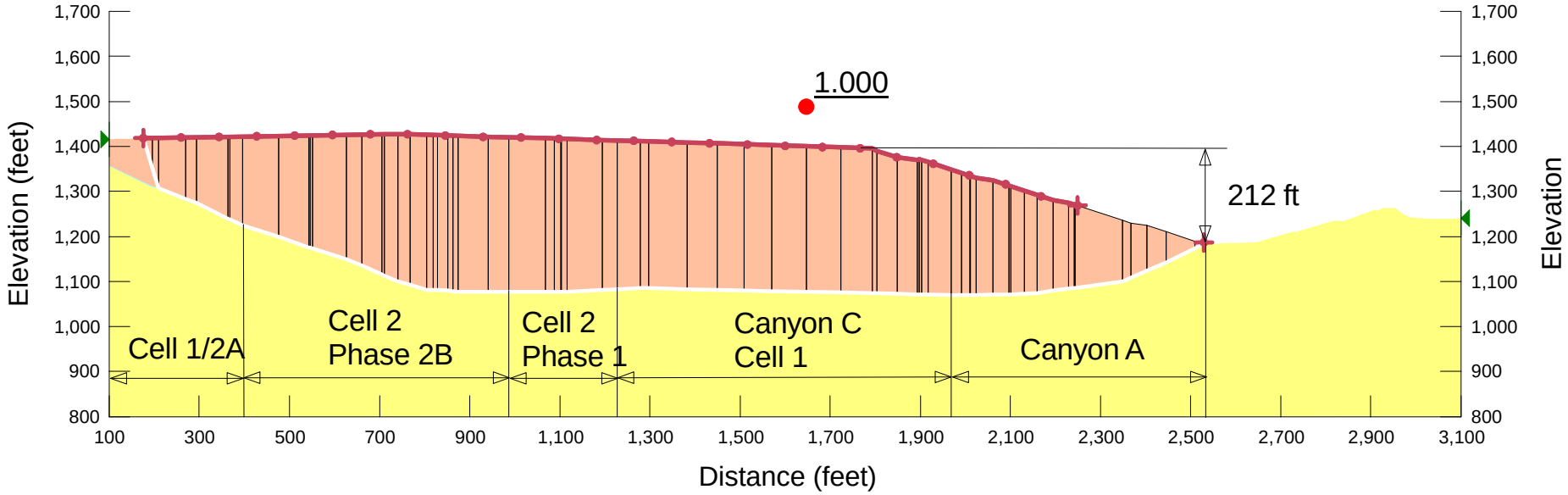
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-2_Seismic_Translational.gsz
Date: 11/13/2017
Time: 4:47:13 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Canyon C Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Canyon C Cell 2 Phase 2A/2B Base Liner	Mohr-Coulomb	120	0	12.7
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Final Grades_Section 2: Seismic Translational Sliding

Horz Seismic Coef.: 0.218

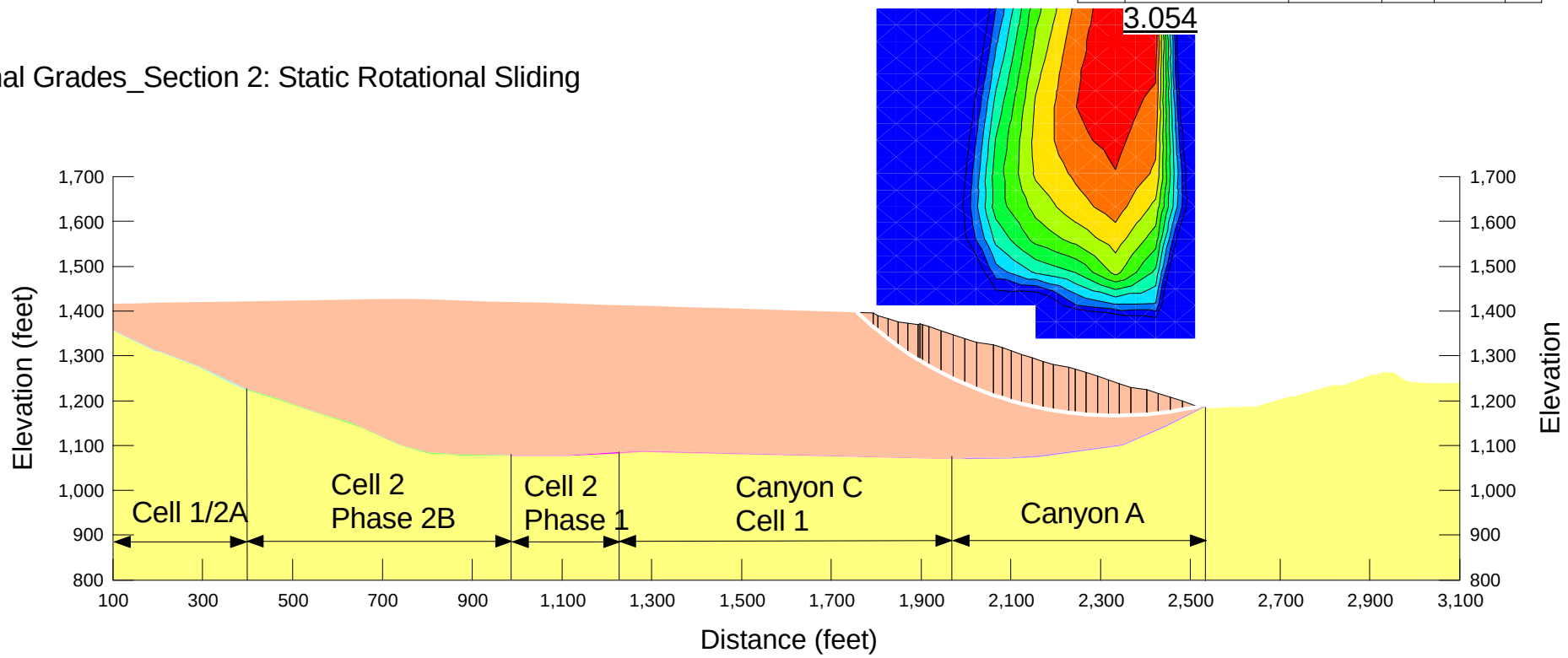


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-2_Static_Rotational.gsz
Date: 11/13/2017
Time: 4:53:18 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 1 Base Liner	Mohr-Coulomb	120	0	17
	Canyon C Cell 2 Phase 1 Base Liner	Mohr-Coulomb	120	0	10
	Canyon C Cell 2 Phase 2A/2B Base Liner	Mohr-Coulomb	120	0	12.7
	Canyons A and D Base Liner	Mohr-Coulomb	120	0	18
	Modules 1-4 Side (Slope) Liner	Mohr-Coulomb	120	100	14
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Final Grades_Section 2: Static Rotational Sliding

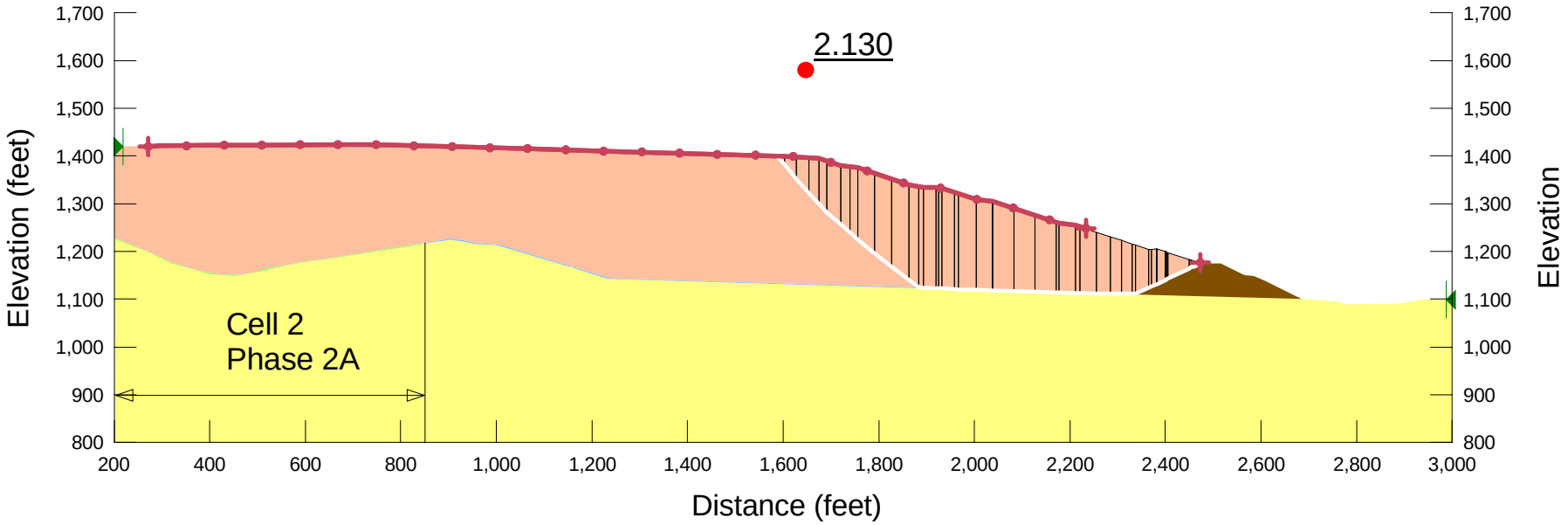


Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-3_Static_Translational.gsz
Date: 11/13/2017
Time: 5:12:39 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 2 Phase 2A/2B Base Liner	Mohr-Coulomb	120	0	12.7
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Bedrock (Impenetrable)			
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

Final Grades_Section 3: Static Translational Sliding



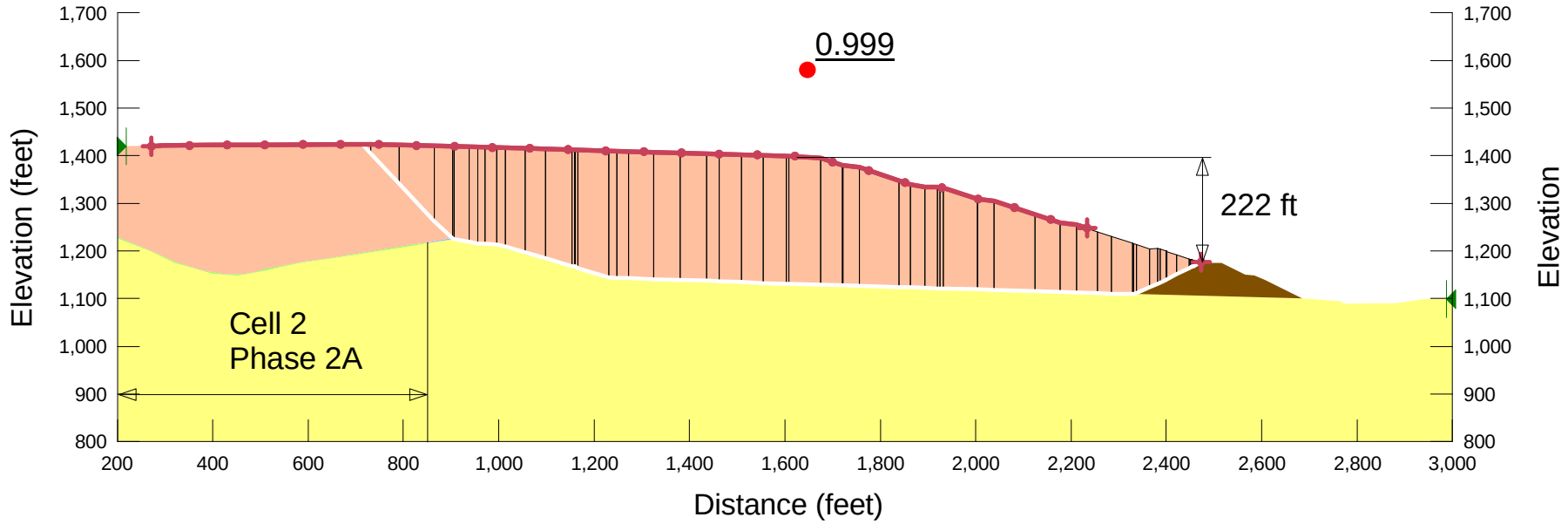
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-3_Seismic_Translational.gsz
Date: 11/13/2017
Time: 5:18:25 PM
Method: Spencer
Slip Surface Option: Entry and Exit
Optimize Critical Slip Surface Location: Yes

Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 2 Phase 2A/2B Base Liner	Mohr-Coulomb	120	0	12.7
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Bedrock (Impenetrable)			
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Bedrock (Impenetrable)			

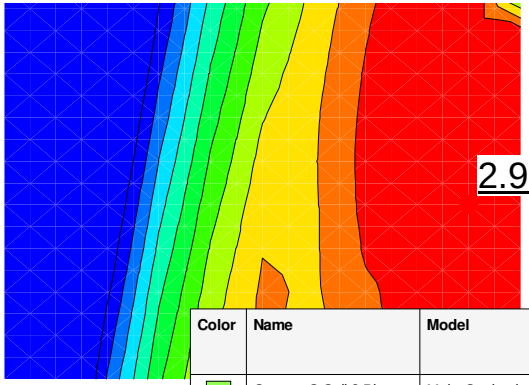
Final Grades_Section 3: Seismic Translational Sliding

Horz Seismic Coef.: 0.218



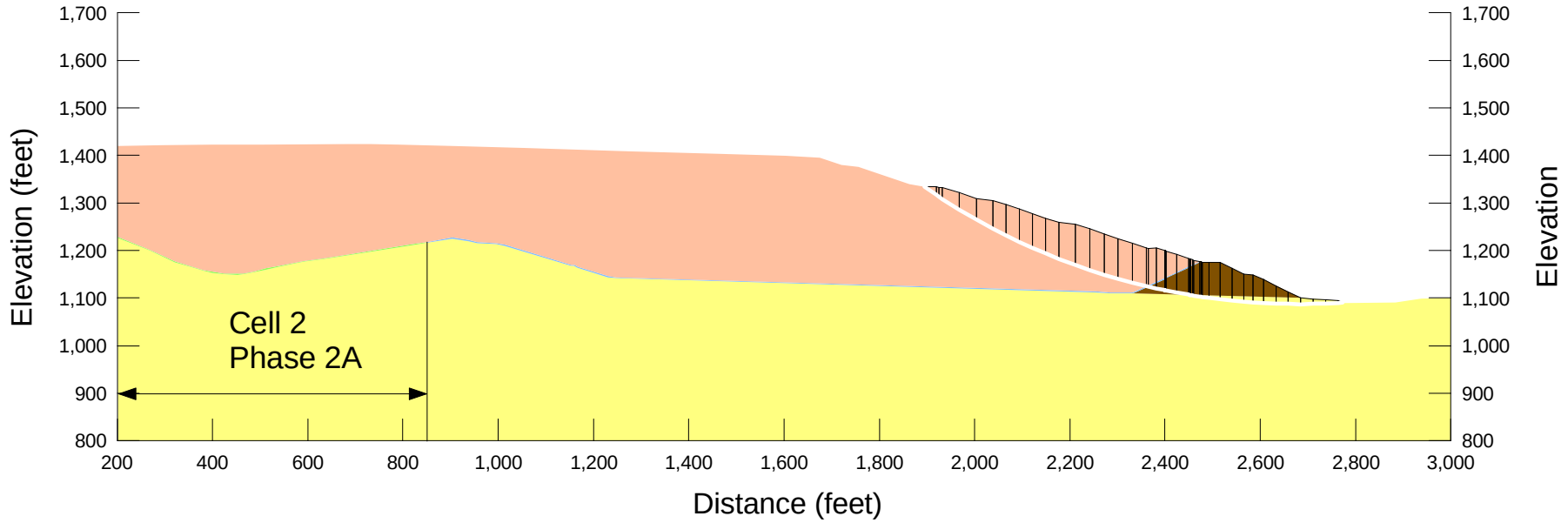
Geo-Logic ASSOCIATES

Chiquita Canyon Landfill
2017 Fill Sequence Plans
Chiquita Canyon LF_Section FG-3_Static_Rotational.gsz
Date: 11/13/2017
Time: 5:34:42 PM
Method: Spencer
Slip Surface Option: Grid and Radius
Optimize Critical Slip Surface Location: No



Color	Name	Model	Unit Weight (pcf)	Cohesion' (psf)	Phi' (°)
	Canyon C Cell 2 Phase 2A/2B Base Liner	Mohr-Coulomb	120	0	12.7
	Cells 6-13 Bottom and Slope Liner	Mohr-Coulomb	120	0	16
	Engineered Fill	Mohr-Coulomb	125	0	35
	MSW (Kavazanjian et al. 2013)	Mohr-Coulomb	75	900	31
	Subgrade	Mohr-Coulomb	120	0	32

Final Grades_Section 3: Static Rotational Sliding



Geo-Logic ASSOCIATES

ATTACHMENT D

RESPONSE TO
COUNTY DEPARTMENT OF PUBLIC WORKS
COMMENTS DATED SEPTEMBER 14, 2021

CHIQUITA CANYON
A Waste Connections Company

January 12, 2022

Via E-Mail
Martins Aiyetiwa, P.E.
Senior Civil Engineer, Environmental Programs Division
Los Angeles County Department of Public Works
900 South Fremont Ave.
Alhambra, CA 91803-1331
maiyet@dpw.lacounty.gov

Re: Chiquita Canyon Landfill Response to DPW's September 14, 2021 Fill Sequencing Plan Comments.

Dear Martins:

Thank you for your response to our June 17, 2021 Fill Sequencing Plan submittal. Chiquita Canyon, LLC ("Chiquita") has the following responses to your review letter dated September 14, 2021. Your comments are shown in *italicized* and our responses follow each comment.

Comment #1

- *Table 2 – Diminishing Landfill Capacity Phase Construction (sheet no. 6), Enclosure 1 - Column 11 (Landfill Unit) shows the Landfill operates in Cell 8A in 2021. However, Cell 8A has not yet been approved. Please review and revise table and any other tables and figures that may be affected.*

Response

In order to accommodate the County's request, Geo-Logic Associates has revised the fill drawings in the project set, which are provided with this response in Attachment A. Following this revision, the airspace for each unit was recalculated so that the tables could be updated. Other revisions of note are:

- The Cell 6 fill plan was changed to add setback area fills on the south side and sliver filling on the east and north side of the C Canyon mound, which was a change implemented in the fill operations by the site operator.

- Changes to the Cell 6 fill plan necessitated changes to the fill plans for Cells 7, 8A, 8B, 9, 11 and 12. The revised fill plans required the recalculation of gross airspace volumes which are now reflected in the revised plan set and Tables 2, B-1 and B-2.
- The proposed liner sections for future liner cells have been reviewed and approved by the Los Angeles Regional Water Quality Control Board (RWQCB), affecting liners 8A, 8B, 7, and 9 through 12. The revised liner sections are identified on the plan detail sheet and net airspace volumes have been adjusted accordingly on Tables 2, B-1 and B-2. There is no effect to final grades, grading limits, inbound tonnage or permit termination date due to these approved changes to the liner section.
- Table 2 is updated to show years of both earthwork construction and liner construction as many of the projects are multi-year. It is assumed in all cases that the finished liner is approved in January following the liner construction year. DPW should take note that Cell 8A is now behind schedule for construction start in 2022 as Chiquita awaits grading approval.

As stated in the accompanying resubmittal in Section 3.0 "Remaining Capacity," the occupation of a particular unit will be based on market conditions, inbound tonnage and operational efficiency. As an operational preference, the landfill operator will conduct liner construction for the next cell approximately 12-24 months prior to the date that capacity is reached in the prior cell as shown on Table 1.

Chiquita believes the intent of the sequencing is clearly presented and encourages Environmental Programs Division to swiftly approve our submittal for the Cell 8 liner construction. The site is nearing completion of filling the remaining currently constructed liner capacity. We have received all other regulatory approvals for the Cell 8 Liner including CalEPA, California Natural Resources Agency, and the US Army Corps of Engineers. Chiquita is hopeful to receive this approval soon to avoid any work stoppage, which could result in the temporary inability to receive waste, limiting the disposal options to the citizens of Los Angeles County.

Comment #2

- *All drawings should have clearly labeled grading limit and limit of refuse throughout. The grading on the sequencing plan should stay within the approved grading limit as shown on the Exhibit A, dated August 21, 2017. See Enclosure 2 for examples of discrepancies between the approved grading limit on the Exhibit A (left diagram) and the grading limit on the submitted Fill Sequencing plans (right diagram). Please review and revise the plans accordingly.*

Response

For clarity, we note that the limits of grading on Exhibit A are identified by a thin green line (the "Limit of Disturbance Area") which is far to the west and away from the grading identified by the Fill Sequencing Plan shown in Enclosure 2. DPW appears to be referring in this comment to the "Limit of Landfill" in Exhibit A, which is the same as the liner limit, and is denominated by spaced squares. The grading shown on the current plans for Cell 8 (currently under review by EPD) clearly indicate that the grading proposed is within the "Limit of Disturbance Area" in

Exhibit A. These fill sequence plans are based on Exhibit A, which is drawn at a site-wide scale. Due to this "high altitude view," we believe there will always appear to be some minor discrepancies between the grading proposed and the Limit of Landfill, but such anticipated grading will always be within the Limit of Disturbance Area. Chiquita will work with DPW to address any grading outside the Limit of Landfill on Exhibit A when such plans are being evaluated, but specific grading plans are not the purpose of the Fill Sequencing Plans.

Comment #3

- *Please ensure all pertinent plans are stamped and signed by a Registered Civil Engineer.*

Response

The Engineer will typically stamp the drawings once the review process is complete. As we now believe the package is complete, the plans are now stamped in PDF format.

Comment #4

- *See comments from the Geotechnical and Materials Division (GMED) in Enclosure 3.*

GMED General Comments (bullets 1-4):

1. **Response**: The geotechnical consultant R.T. Frankian & Associates has reviewed the revised plans and submits a letter concurrent with this submittal.

GMED Fill Sequencing and Liner Plans Comments.

1. **Response to Comments on Drawings 01 and 03**: Grading permits have not been issued for this work and so cannot be referenced on these plans. Therefore no changes have been made.
2. **Response to Comments on Drawings 12, 14, and 16**: All stockpile areas shown on the drawings have been removed from this submittal as this information is not appropriate to the fill sequencing and liner development. Any stockpile activity will be addressed with EPD at the appropriate stage of development of the site.
3. **Response to Comments on Drawings 17 and 18**: Detailed geotechnical designs will be submitted for Cell 11 when those projects are presented to EPD for approval of grading beyond the liner limit. No further response is provided at this time.

GMED Review Comments for referenced Geo-Logic sequencing plans dated June 2021 (all):

1. **Response**: Please refer to the letter from R.T. Frankian & Associates that accompanies this response.

Conclusion

This letter and the accompanying documents constitutes our complete response in this matter. We look forward to DPW's approval of the Fill Sequencing Plan. We believe the information as currently presented complies with the intent of the requirement to show the fill sequence plan for the site based on the current CUP.

Regards,

Steve Cassulo
District Manager
Chiquita Canyon, LLC

cc: Samuel Dea, Department of Regional Planning (*via e-mail*)

Richard Claghorn, Department of Regional Planning (*via e-mail*)

RTF&A
GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY

January 11, 2022

Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384

Job No. 2002-036-201

Attention: Mr. Randal Bodnar

Subject: Response to County of Los Angeles Review Comments
Department of Public Works
Public Works Review Comments
Master Development Plan Fill Sequencing Plans
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California

Reference: See Attached List of References

Ladies/Gentlemen:

The intent of this submittal is to address review comments provided by the County of Los Angeles, Department of Public Works (County), in their review comments, dated September 14, 2021, concerning the Fill Sequencing Plans at Chiquita Canyon Landfill (CCL). The review comments are in response to Fill Sequencing Plans (Plans) prepared by Geo-Logic Associates (GLA). The comments included in this response are limited to the headings of General Comments and Review Comments for Referenced Geo-Logic Sequencing Plans Dated June 2021 that was designated by the County as Enclosure 3. A copy of the review comments are attached to this submittal.

The comments provided by the County of Los Angeles are reproduced in bold type below; our response follows each comment in regular type. We have added a letter designation to each of the bullet items we have responded to since reference to the different comments are made within our response.

GEOTECHNICAL GENERAL COMMENTS

a) **The June 2021 Master Development Plan (Fill Sequence Plans) are inconsistent with what was presented in the previous RTFA reports, dated September 30, 2019, January 27, 2012, and August 12, 2011. It is recommended that RTFA review the June 2021 Master Development Plan (Fill Sequence Plans) and update their Master Development Plan recommendations as necessary.**

We previously prepared a Master Plan Revision (MPR Report) that evaluated an excavation plan at a scale of 1-inch equals 100 feet (RTF&A, 2012a). We have reviewed the GLA Master Plan Development Fill Sequence plans dated June 2021 prepared at a scale of 1 inch = 400 feet from a geotechnical perspective relative to the 1 inch = 100 feet scale excavation plan presented in the MPR Report. While it is expected that there will continue to be revisions to the proposed excavations for some of the cells in the future, the current revisions are not significant from a geotechnical perspective at the Master Plan Development Fill Sequence plan scale of 1 inch = 400 feet. As requested in bullet comment f, under the heading of Review Comments for Referenced Geo-Logic Sequencing Plans Dated June 2021 portion of the attached County Enclosure dated August 4, 2021, additional detailed evaluation will be performed at the grading plan stage for the future cells.

b) **Detailed subsurface data (borings, geotechnical testing, etc.) must be provided for each phase to justify parameters or assumptions made/used in slope stability analyses.**

Acknowledged. At the future grading plan stage, sufficient data will be provided to justify the slope stability analysis.

c) **The geotechnical consultant must address the proposed stockpiling areas show on Drawings 12, 14, and 16.**

Any non-engineered fill to be integrated into cell design should be adequately characterized.

Acknowledged. At the future grading plan stage, sufficient data will be provided to characterize any non-engineered fill that is proposed to be integrated into cell design.

REVIEW COMMENTS FOR REFERENCED GEO-LOGIC SEQUENCING PLANS DATED JUNE 2021

a) **Cell 6: Review of grading support area plan and geotechnical reports completed May 2019. No further action needed at this time.**

Acknowledged.

b) Cell 7: Proposed grading support area plan will not impact property boundary. No action needed at this time.

Acknowledged.

c) Cell 8: Review of grading support area plan reviewed and geotechnical reports completed July 2021, with the following outstanding conditions: Add the limits of the stability fill to Sheets C-102, C-103, C-105 and Cross Section C on Sheet C-302, per the recommendations of RTFA, June 1, 2021. Still under review.

Progress has been made on the above comments. However, it is acknowledged that Cell 8 is still under review by GMED.

d) Cell 9: Proposed grading support area plan will not impact property boundary. No further action required at this time.

Acknowledged.

e) **Cell 10: At grading plan stage, further analysis of finished slope conditions for CS-9, illustrated in S19 is required (RTFA, January 27, 2012).**

Acknowledged.

f) **Cell 11: At grading plan stage, further stability analysis of the proposed cut slope, CS-1, illustrated in S11, is required and the potential impact of the potential failure of the undesignated north facing landslide located offsite must be addressed. Stability of proposed cut slope, CS-2 (S12), must be analyzed.**

Acknowledged.

g) **Cell 12: At grading plan stage, stability analysis must be provided. S16 shows that portions of Qls E and Qls F are to remain. S24 shows a Qls F is to remain as part of the proposed cut slope, CS-5. (RTF&A, January 27, 2012)**

Acknowledged. At the grading plan stage additional slope stability analysis and evaluation of landslides will be provided.

h) **Cell 13: At the grading plan stage, several undesignated landslides must be characterized and analyzed to determine if potential failure due to landfill activities will impact off site properties. The extent and design of the proposed shear key proposed to mitigate Qls G must be determined. Further analysis for the apparent partial removal of Qls N (S25) is required. (RTFA, January 27, 2012**

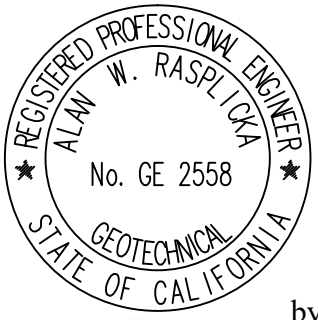
Acknowledged. At the grading plan stage additional slope stability analysis and evaluation of landslides will be provided.

-o0o-

If you have any questions regarding this response, please do not hesitate to call Alan Rasplicka at (661) 257-5800.

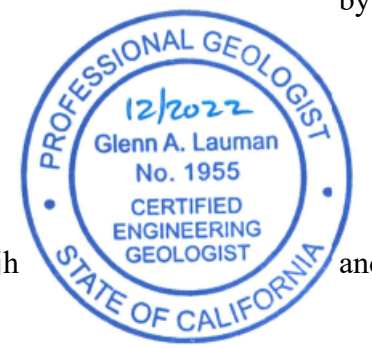
The following documents are attached and complete this response:

- List of References
- Los Angeles County Review Comments, Dated August 4, 2021
- GLA Master Development Plan Fill Sequencing Plans



Sincerely,
R. T. FRANKIAN & ASSOCIATES

by: Alan W. Rasplicka
Principal Geotechnical Engineer



AWR/GL/jh and: Glenn Lauman
Principal Engineering Geologist

PDF Distribution via Email:
– Waste Connections, Inc., Attn: Mr. Steve Cassulo, Mr. Randal Bodnar
– Geo-Logic Associates, Attn: Mr. Robert Johnson
– Rincon, Attn: Ms. Brenda Eells

RTF&A
GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY

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Enclosure 3

August 4, 2021

GEOTECHNICAL REVIEW
CHIQUITA CANYON LANDFILL (JUNE 2021 MASTERPLAN REVISION)
LINER AND FILL SEQUENCING PLANS FOR CELLS 6, 7, 8, 9, 10, 11, 12, AND 13

Current Report Reviews:
- No report(s) submitted

Current Plans Reviewed:
- Master Development Plan, Fill Sequence Plans, Chiquita Canyon Landfill, prepared by Geo-Logic Associates, dated June 2021

Previous Plans Reviewed:
- Response to County of Los Angeles Review Comments, Department of Public Works, Review Comments Dated May 23, 2019, Fill Sequencing Plans for the Landfill Master Development Plan, RTFA, dated September 30, 2019.
- Master Development Plan, Fill Sequence Stability Analyses, Chiquita Canyon Landfill, prepared by Geo-Logic Associates, dated November 2017.
- Liner and Fill Sequencing Plans, Drawing No. T1 and Drawing Nos. 01-20, Geo-Logic Associates, issue date December 2017.

Previous Geo-Logic Associates Reports Submitted:
- Master Development Plan, Fill Sequence Stability Analyses, Chiquita Canyon Landfill, *prepared by Geo-Logic Associates*, dated November 2017.
- Fill Sequencing Plan for the Landfill Master Development Plan, Chiquita Canyon Landfill, *prepared by Geo-Logic Associates*, dated December 2017.

Previous RT Frankian and Associates (RTFA) Reports Submitted:
- Response to County of Los Angeles Review Comments, Department of Public Works, Review Comments Dated May 23, 2019, Fill Sequencing Plans for the Landfill Master Development Plan, RTFA, dated September 30, 2019.
- Geotechnical Investigation, Master Plan Revision, Chiquita Canyon Landfill, Castaic California, for Chiquita Canyon Landfill, RTFA, dated January 27, 2012.
- Geotechnical Investigation, Master Plan Revision, Chiquita Canyon Landfill, Castaic, California, for Chiquita Canyon Landfill, RTFA, dated August 12, 2011.

General Comments:

a) - The June 2021 Master Development Plan (Fill Sequence Plans) are inconsistent with what was presented in the previous RTFA reports, dated September 30, 2019, January 27, 2012, and August 12, 2011. It is recommended that RTFA review the June 2021 Master Development Plan (Fill Sequence Plans) and update their Master Development Plan recommendations as necessary.

b) • Detailed subsurface data (borings, geotechnical testing, etc.) must be provided for each phase to justify parameters or assumptions made/used in slope stability analyses.

c) • The geotechnical consultant must address the proposed stockpiling areas show on Drawings 12, 14, and 16.
  - Any unengineered fill to remain or to be integrated into cell design should be adequately characterized.

d) • The geotechnical consultant must address the revised proposed cutslope, shown on Drawing Nos. 17 and 18, and required for grading support of Cell 11.

Fill Sequencing and Liner Plans Comments:

Drawing 01: Reference grading permit number associated with new entry grading. Reference BSD permit number.

Drawing 03: Reference grading permit number associated with new entry grading. New access road and associated grading to Cell 7 shown in interior of landfill. Reference BSD permit number.

Drawing No. 12: New access road and associated grading to Cell 7 shown in interior of landfill. Two temporary stockpiling areas in natural areas and future area of Cells 10 and 11. The stockpiles need to be addressed by the Geotechnical Consultant.

Drawing No. 14: Two temporary stockpiling areas in natural areas and future area of Cells 10, 11, and 13 (same as Drawing No. 12). The stockpiles need to be addressed by the Geotechnical Consultant.

Drawing No. 16: One temporary stockpiling area in a natural area and future area of Cell 11 (same as Drawing No. 12 and 14). The stockpiles need to be addressed by the Geotechnical Consultant.

Drawing No. 17: Required cutslope for Cell 11 has increased. Cutslope should be addressed by the Geotechnical Consultant.

Drawing No. 18: Required cutslope for Cell 11 has increased. Cutslope should be addressed by the Geotechnical Consultant.

Review Comments for referenced Geo-Logic sequencing plans dated June 2021:

a) Cell 6: Review of grading support area plan and geotechnical reports completed May 2019. No further action needed at this time.

b) Cell 7: Proposed grading support area plan will not impact property boundary. No action needed at this time.

c) Cell 8: Review of grading support area plan reviewed and geotechnical reports completed July 2021, with the following outstanding conditions: Add the limits of the stability fill to Sheets C-102, C-103, C-105 and Cross Section C on Sheet C-302, per the recommendations of RTFA, June 1, 2021. Still under review.

d) Cell 9: Proposed grading support area plan will not impact property boundary. No further action required at this time.

e) Cell 10: At grading plan stage, further analysis of finish slope conditions for CS-9, illustrated in S19 is required. (RTFA, January 27, 2012).

f) Cell 11: At grading plan stage, further stability analysis of the proposed cutslope, CS-1, illustrated in S11, is required and the potential impact of the potential failure of the undesignated north facing landslide located off site must be addressed. Stability of proposed cutslope, CS-2 (S12), must be analyzed. (RTFA, January 27, 2012).

g) Cell 12: At grading plan stage, stability analysis must be provided. S16 shows that portions of Qls E and Qls F are to remain. S24 shows a Qls F is to remain as part of the proposed cutslope, CS-5. (RTFA, January 27, 2012).

h) Cell 13: At the grading plan stage, several undesignated landslides must be characterized and analyzed to determine if potential failure due to landfill activities will impact off site properties. The extent and design of the proposed shear key proposed to mitigate Qls G must be determined. Further analysis for the apparent partial removal of Qls N (S25), is required. (RFTA, January 27, 2012).

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ATTACHMENT E

RESPONSE TO
COUNTY DEPARTMENT OF PUBLIC WORKS
COMMENTS DATED APRIL 19, 2021

CHIQUITA CANYON
a Waste Connections company

June 17, 2021

Mr. Martins Aiyetiwa
Senior Civil Engineer
Los Angeles County Public Works
900 S. Fremont Avenue
Alhambra, CA 91803

Subject: Chiquita Canyon Landfill Fill Sequencing Plans for the Landfill Master Development Plan

Dear Martins,

This letter transmits our detailed response to LACPW's July 16, 2020 comments on CCL's Fill Sequence Plan under CUP 2004-00042. The response includes updates to Table 2, Diminishing Landfill Capacity Phase Construction, columns 3 (beneficial reuse) and 10 (cumulative landfill volume consumed).

Regards,
Chiquita Canyon Landfill

Steve Cassulo
District Manager

cc: Ramon Herman, LACPW
David Nguyen, LACPW
Sam Dea, LADRP
Richard Claghorn, LADRP
Randal Bodnar, Waste Connections
Robert Johnson, Geo-Logic

MEMORANDUM

To: Steve Cassulo, Chiquita Canyon Landfill
Randal Bodnar, Waste Connections
Brenda Eells, Rincon Consultants

Subject: Chiquita Canyon Landfill
Explanation of Changes to the Site Fill Sequence Plan for submittal to DPW-EPD

Date: June 16, 2021

This is in response to a L.A. County DPW-EPD request dated April 19, 2021 (Aric Rodriguez email to Steve Cassulo) requesting the following:

> *Public Works would like to request an updated fill sequencing plan that with updated tables includes cells 8A and 8B in the plan.*

In addition we are including a response to an email from the same individual dated July 20,2020 regarding corrections to Table 2:

> ***Table 2 – Diminishing Landfill Capacity Phase Construction*** *(sheet no. 6), column 3 (Beneficial Re-use) showed the annual tonnage of beneficial use/composting material exceeds the permitted yearly maximum tonnage as allowed in the Conditional Use Permit. Please revise the table accordingly.*
>
> ***Table 2 – Diminishing Landfill Capacity Phase Construction*** *(sheet no. 6), column 10 (Cumulative Landfill Volume Consumed) showed the Cumulative Landfill Volume Consumed will exceed 60 million tons by 2045 and reach over 62 million tons by 2047. The maximum allowable tonnage over the life of this grant is 60 million tons per Condition 38 of the Conditional Use Permit. Please revise the table and readjust the respective annual tonnages accordingly.*

Enclosed are the following revised documents that constitute our response. These documents are intended to replace the particular documents that are included in our October 19, 2019 submittal:

- Drawing Set (all sheets)
- Table B-1
- Table B-2
- Table 2

The drawing set is submitted *in toto* as adding the phasing detail for Cell 8 required three additional new drawing sheets which caused changes to all drawings in the document. Sheet numbers of note to review changes are: 'T1' the Title Sheet, Drawing DWG No. 02 Phasing and Drawings DWG Nos. 07 through 11 which illustrate the liner and fill plans for the phasing of Cell 8.

Tables B-1, B-2 and Table 2 are revised to reflect the changes to the individual landfill unit capacities that were modified by the phasing of Cell 8.

Table 2 is also changed to address the July 20, 2020 comments regarding maximum annual tonnage. We believe the second comment is erroneous and possibly the reviewer was looking at the wrong column (i.e. confusing volumes and tons). Table 2 reflects a total of 60 million tons to the site over the permit period as indicated in the fifth column of the table.

Respectfully submitted,
Geo-Logic Associates





Robert D. Johnson, P.E.

ATTACHMENT F

RESPONSE TO
COUNTY DEPARTMENT OF PUBLIC WORKS
COMMENTS DATED JANUARY 29, 2020

Response to Fill Sequence Plan review
June 22, 2020

This is in response to DPW review dated January 29, 2020 for the fill Sequencing Plan resubmittal dated October 1, 2019. The following comments are from DPW letter and are presented as *italicized*. Our response follows each comment in **bold**. This response will constitute our resubmittal as most of the previous work is unchanged from our October 1, 2019 submittal.

General Comments:

- *Update Table 8-2 to be ordered chronologically, consistent with Table B-1 and Table 2.*

Table B-2 has been updated as requested so that units are arranged in the expected order of construction sequencing not the unit designation number.

- Update Table 2 and Table B-1 so that cell construction completion dates are consistent.
    - For example, Table 2 indicates existing capacity for Cell 6 reaches zero in 2021, where Table B-1 indicates Cell 6 will run out of capacity in 2022.

No changes have been made to either table. The reviewer confused the year of construction with the year of expiration of capacity. As stated in the report, construction of liner projects will typically precede expiration of capacity by 6 to 18 months depending on available budget and time of year that the capacity is projected to expire. Liner construction is generally performed in the non-rainfall season months of April through October.

Plans General Comments:

Provide cross. sections-for Figure 4.6 (Cell 11 Fill Plan), Figure 4.7 (Cell 12 Fill Plan), and Figure 4.8 (Cell 13 Fill Plan) for consistency.

The response to County comments relating to the addition of cross sections and their related stability calculations is attached for review.

Respectfully submitted,
Geo-Logic Associates





Robert D. Johnson, P.E.

ATTACHMENT G

RESPONSE TO
COUNTY DEPARTMENT OF PUBLIC WORKS
COMMENTS DATED MAY 23, 2019

Attachment G-1

Response to LA County DPW-EPD comments letter dated May 23, 2019.

County comments are *Italicized*. Responses are in **Bold**.

General Comments [outline numbers added for clarity]

1. Describe detail [sic] how the following tables are generated and explain how values in these tables were calculated:

- *Table 1: Waste Management Unit Capacities (page 3)*

  As described in the paragraphs preceding the table, the approximate date that capacity is reached for a unit is the theoretic date of maximum fill placement based on three factors: first, the total effective airspace (gross airspace less the volume of final cover and liner as calculated in Table B-2); second, the site's targeted operational density (1922 lbs./cubic yard) which is a simple calculation whereby the total permitted tonnage (60,000,000 tons) is divided by the total effective airspace (62,427,852 cubic yards, which is that volume which is constrained by the final grading plan, final cover thickness, proposed liner plan, and proposed liner thickness); third, the permitted inbound tonnage that for the purposes of this table is assumed at the maximum allowable depending on the year as permitted annual tonnage changes on January 1, 2025. No changes to the text have been made in response to this comment. The Table 1 has been changed based on the owner's decision to develop the Cell 8 in 2021 as the next liner unit following the development of Cell 6 in 2019.

- *Attachment B: Chiquita Canyon Expansion Projects Waste Management Unit Capacity and Soil Balance*

  This table B-1 is included as an Attachment and is meant to illustrate the mathematic calculations which are summarized in Table 1. Gross airspace volumes shown in this table are based on airspace calculations utilizing AutoCAD Civil 3D software for digital terrain model surface comparisons of the 2017 topo, preliminary liner designs and the final grading plan as appropriate for a particular landfill unit. No changes to the text have been made in response to this comment. The Table B-1 has been changed based on the owner's decision to develop the Cell 8 in 2021 as the next liner unit following the development of Cell 6 in 2019. Table B-1 has been renamed "Waste Management Unit Capacity and Operational Life."

- *Attachment B: Chiquita Canyon Fill Sequence Plans Landfill Units*

  This table B-2 is included as an Attachment and is meant to document the assumptions made for the calculation of volumes of final cover and liner for each landfill unit, including correction factors for floor and slope areas. Some of the values shown on this table roll up

into Table B-1. This table also provides a check to ensure total expansion areas agree with the EIR. Calculated volumes shown in this table are based on engineer's airspace calculations utilizing AutoCAD Civil 3D software for planimetric area then calculating volumes based on thickness and slope corrections. No changes to the text have been made in response to this comment. The Table B-2 has been changed based on the owner's decision to develop the Cell 8 in 2021 as the next liner unit following the development of Cell 6 in 2019. Table B-2 has been renamed "Waste Management Unit Volume Details."

2. Generate a table entitled "Diminishing Landfill Capacity Phase Construction". An example is enclosed for your reference. This table is necessary for the monitoring of yearly disposal tonnage to ensure that they are within the permitted tonnage.

The table is now included in Attachment B and entitled "Table 2 Chiquita Canyon Landfill Diminishing Landfill Capacity Phase Construction."

3. When a new cell is adjoining the old, existing cells, would the trash be exposed due to the grading operation? Please provide explanation on how to contain odor during grading process.

When new cells are constructed adjoining older lined cells, in-place refuse fill is not anticipated to be encountered as a general site condition. When this occurs (usually tie-ins along older units) the contractor is directed to cover the work site daily until the tie-in construction is completed and until protective cover soil is placed to help prevent odors.

4. Instead of using color to delineate different line types, also use different line types for future black and white plan reproduction.

The plans have been changed to remove use of color and to add line types.

Specific Comments:

Please include the details below in the plans and provide description/details in the report as appropriate:

- *Down-Drain details*
- *Erosion control and straw bale details*
- *Road and culvert details*
- *Cell layout details*

Two detail sheets have been added to the plans to show the details requested.

Plans General Comments

1. Interim "Liner Limit" and "Liner Sub-Unit Boundary" is not shown in any of the plans. Please show them if applicable (i.e. Drawings Number 06, 16, 18, and 20). If not applicable, please remove from the Legend.

The item is removed from the legend.

2. There are unspecified blue lines shown in various plans (such as DWG No. 1 by the Entrance area, or DWG No. 5 to the east of Cell 6). Please identify them in the legend or remove them if not applicable.

The item is removed from the drawings.

3. The limit of fill boundary cannot exceed the limit of liner in the proposed cells such as (DWG No. 5 or DWG No. 7). Please verify that the limit of fill will stay within the limit of liner and the limit of refuse.

The limit of fill will always be within the liner limit and the overall permitted limit of refuse.

4. Figures 4.6 (Cell 11 Fill Plan), Figures 4.7 (Cell 12 Fill Plan), and Figure 4.8 (Cell 13 Fill Plan) are missing the X-Section. Please include X-sections for these fill plans.

It was determined by the geotechnical engineer that these fill plans did not have a critical section requiring analysis, therefore no sections were prepared.

Geotechnical General Comments

1. It is recommended that Geo-Logic Associates review the RTFA reports referenced above for perimeter site conditions, including the Geotechnical Investigation of the proposed Cell 6 grading plan review.

2. It is recommended that RTFA review the subject sequencing plans and update the Masterplan review.

3. Detailed subsurface data (borings, geotechnical testing, etc.) must be provided for each phase to justify parameters or assumptions made/used in slope stability analyses.

4. Any non-engineered fill to be integrated into cell design should be adequately characterized.

Response: Please refer to response by R.T. Frankian and Associates dated 17 September 2019 (initial five pages included as an appendix to this response).

Geotechnical Specific Comments

Cell 6: Grading plan currently under review by Public Works. Changes to the Fill Sequencing Plans might be needed based on Cell 6's comments.

Cell 7: No Comment, completely contained.

Cell 8: At grading plan stage, a detailed analysis of QIs A shall be provided, which appears to be proposed to remain as part of the proposed cut slope, CS-18, on S23 (RTFA, January 27, 2012).

Cell 9: No Comment, completely contained.

Cell 10: At grading plan stage, further analysis of finished slope conditions for CS-9, illustrated in S19 is required (RTFA, January 27, 2012).

Cell 11: At grading plan stage, further stability analysis of the proposed cut slope, CS-1, illustrated in S11, is required and the potential impact of the potential failure of the undesignated north facing landslide located off site must be addressed. Stability of proposed cut slope, CS-2 (S12), must be analyzed.

Cell 12: S16 shows that portions of Qls E and QIs F are to remain. S24 shows a QIs F is to remain as part of the proposed cut slope, CS-5. Stability analysis must be provided.

Cell 13: Several undesignated landslides must be characterized and analyzed to determine if potential failure due to landfill activities will impact off site properties. The extent and design of the proposed shear key proposed to mitigate Qls G must be determined. Further analysis for the apparent partial removal of QIs N (S25) is required.

Response: Please refer to response by R.T. Frankian and Associates dated 17 September 2019 (initial five pages included as an appendix to this response).

End of review comments

***

RTF&A
GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY

September 30, 2019

Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384

Job No. 2002-036-019

Attention: Mr. Steve Cassulo
District Manager

Subject: Response to County of Los Angeles Review Comments
Department of Public Works
Review Comments Dated May 23, 2019
Fill Sequencing Plans for the Landfill Master Development Plan
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California

Reference: See Attached List of References

Ladies/Gentlemen:

The intent of this submittal is to address review comments provided by the County of Los Angeles, Department of Public Works (County), in their review comments, dated May 23, 2019, concerning the Fill Sequencing Plans at Chiquita Canyon Landfill (CCL). The review comments are in response to Fill Sequencing Plans (Plans) prepared by Geo-Logic Associates (GLA). A copy of the review comments is attached to this submittal.

The comments included in this response are limited to the Geotechnical General Comments and Geotechnical Specific Comments. The comments provided by the County of Los Angeles are reproduced in bold type below; our response follows each comment in regular type. We have added a letter designation to each of the bullet items since reference to the different comments are made within our response.

GEOTECHNICAL GENERAL COMMENTS

a) It is recommended that Geo-Logic Associates review the RTFA reports referenced above for perimeter site conditions, including the Geotechnical Investigation of the proposed Cell 6 grading plan review.

It should be noted that the RTFA reports were not referenced in the County review. However, representatives of GLA were included in the distribution list of the RTF&A reports included in the attached List of References. Geotechnical reports by RTF&A were referenced on the GLA Cell 6 Design Documents. An electronic copy of each of the listed reports has been provided to the Project Civil Engineer Geo-Logic Associates (GLA).

b) It is recommended that RTFA review the subject sequencing plans and update the Masterplan review.

We previously prepared a Master Plan Revision (MPR Report) that evaluated an excavation plan at a scale of 1-inch equals 100 feet (RTF&A, 2012a). We have reviewed the GLA Fill Sequence plans dated September 30, 2019 from a geotechnical perspective relative to the MPR Report. The most significant revision was to Cell 6 (See Geotechnical Specific Comments a)) where the eastern portion of the liner floor was raised by about 12 feet and the gradient of the ascending slopes was reduced which is a benefit to slope stability. While it is expected that there will continue to be revisions to the proposed excavations for some of the Cells in the future, the current revisions are not significant from a geotechnical perspective at the MPR Report plan scale. As requested in bullet comments c) and Geotechnical Specific Comments portion of this review, additional detailed evaluation will be performed at the grading plan stage for the future Cells.

c) Detailed subsurface data (borings, geotechnical testing, etc.) must be provided for each phase to justify parameters or assumptions made/used in slope stability analyses.

Acknowledged. At the future grading plan stage, sufficient data will be provided to justify the slope stability analysis.

d) Any non-engineered fill to be integrated into cell design should be adequately characterized.

Acknowledged.

GEOTECHNICAL SPECIFIC COMMENTS

a) **Cell 6: Grading plan currently under review by Public Works. Changes to the Fill Sequencing Plans might be needed based on Cell 6's Comments.**

The Cell 6 Grading plans were approved by the County in a May 23, 2019 document which included revisions from the current Fill Sequencing Plans. However, these revisions were approved by the County from a geotechnical perspective based on the information provided in the referenced RTF&A reports. Modification to future Fill Sequencing Plans to the satisfaction of the County for Cell 6 are referred to GLA

b) Cell 7: No comment, completely contained.

Acknowledged.

c) Cell 8: At grading plan stage, a detailed analysis of Qls A shall be provided, which appears to be proposed to remain as part of the proposed cut slope, CS-18, on S23 (RTFA, January 27, 2012).

Acknowledged. However, as discussed in our MPR report (RTF&A, 2012a) in the text on Page 24 under CS-18, Qls A will be removed and replaced with compacted fill prior to placing the future Cell 8 liner.

d) Cell 9: No comment, completely contained.

Acknowledged.

e) **Cell 10: At grading plan stage, further analysis of finished slope conditions for CS-9, illustrated in S19 is required (RTFA, January 27, 2012).**

Acknowledged.

f) **Cell 11: At grading plan stage, further stability analysis of the proposed cut slope, CS-1, illustrated in S11, is required and the potential impact of the potential failure of the undesignated north facing landslide located off must be addressed. Stability of proposed cut slope, CS-2 (S12), must be analyzed.**

Acknowledged.

g) **Cell 12: S16 shows that portions of Qls E and Qls F are to remain. S24 shows a Qls F is to remain as part of the proposed cut slope, CS-5. Stability analysis must be provided.**

Acknowledged. At the grading plan stage additional slope stability analysis and evaluation of landslides will be provided.

h) **Cell 13: Several undesignated landslides must be characterized and analyzed to determine if potential failure due to landfill activities will impact off site properties. The extent and design of the proposed shear key proposed to mitigate Qls G must be determined. Further analysis for the apparent partial removal of Qls N (S25) is required.**

Acknowledged. At the grading plan stage additional slope stability analysis and evaluation of landslides will be provided.

-o0o-

If you have any questions regarding this response, please do not hesitate to call Alan Rasplicka at (661) 257-5800.

The following documents are attached and complete this response:

- List of References
- Los Angeles County Review Comments, Dated May 23, 2019

Sincerely,
R. T. FRANKIAN & ASSOCIATES

by: Alan W. Rasplicka
Principal Geotechnical Engineer

SDR/TPL/AWR/jh

and: Timothy P. Latiolait
Principal Engineering Geologist

PDF Distribution via Email:
– Waste Connections, Inc., Attn: Mr. Steve Cassulo, Mr. Tom Reilly, and Mr. Jeffrey Clarin
– Geo-Logic Associates, Attn: Mr. Robert Johnson and Ms. Courtney Barrett
– Jacobs, Attn: Ms. Brenda Eells

RTF&A
GEOTECHNICAL ENGINEERING & ENGINEERING GEOLOGY

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COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

May 23, 2019

IN REPLY PLEASE
REFER TO FILE: EP-5

Mr. Steve Cassulo
Chiquita Canyon Landfill – District Manager
29201 Henry Mayo Drive
Castaic, CA 91384-2705

Dear Mr. Cassulo:

CHIQUITA CANYON LANDFILL
CONDITIONAL USE PERMIT NO. 2004-00042-(5)
FILL SEQUENCING PLANS FOR THE LANDFILL MASTER DEVELOPMENT PLAN

We have reviewed the Fill Sequencing Plans (Plans) prepared by Geo-Logic Associates in accordance to the requirements of the Condition No. 41 of the approved Conditional Use Permit (CUP) No. 2004-00042 and have the following comments:

General Comments:

- Describe detail how the following tables are generated and explain how values in these tables were calculated:
  - Table 1: Waste Management Unit Capacities (page 3)
  - Attachment B: Chiquita Canyon Expansion Projects Waste Management Unit Capacity and Soil Balance
  - Attachment B: Chiquita Canyon Fill Sequence Plans Landfill Units
- Generate a table entitled "Diminishing Landfill Capacity Phase Construction". An example is enclosed for your reference. This table is necessary for the monitoring of yearly disposal tonnage to ensure that they are within the permitted tonnage.
- When a new cell is adjoining the old, existing cells, would the trash be exposed due to the grading operation? Please provide explanation on how to contain odor during grading process.
- Instead of using color to delineate different line types, also use different line types for future black and white plan reproduction.

Specific Comments:

- Please include the details below in the plans and provide description/details in the report as appropriate:
  - Down-Drain details
  - Erosion control and straw bale details

- Road and culvert details
- Cell layout details

Plans General Comments:

- Interim "Liner Limit" and "Liner Sub-Unit Boundary" is not shown in any of the plans. Please show them if applicable (i.e. Drawings Number 06, 16, 18, and 20). If not applicable, please remove from the Legend.
- There are unspecified blue lines shown in various plans (such as DWG No. 1 by the Entrance area, or DWG No. 5 to the east of Cell 6). Please identify them in the legend or remove them if not applicable.
- The limit of fill boundary can not exceed the limit of liner in the proposed cells such as (DWG No. 5 or DWG No. 7). Please verify that the limit of fill will stay within the limit of liner and the limit of refuse.
- Figures 4.6 (Cell 11 Fill Plan), Figures 4.7 (Cell 12 Fill Plan), and Figure 4.8 (Cell 13 Fill Plan) are missing the X-Section. Please include X-sections for these fill plans.

Geotechnical General Comments:

- a) It is recommended that Geo-Logic Associates review the RTFA reports referenced above for perimeter site conditions, including the Geotechnical Investigation of the proposed Cell 6 grading plan review.
- b) It is recommended that RTFA review the subject sequencing plans and update the Masterplan review.
- c) Detailed subsurface data (borings, geotechnical testing, etc.) must be provided for each phase to justify parameters or assumptions made/used in slope stability analyses.
- d) Any non-engineered fill to be integrated into cell design should be adequately characterized.

Geotechnical Specific Comments:

- a) Cell 6: Grading plan currently under review by Public Works. Changes to the Fill Sequencing Plans might be needed based on Cell 6's comments.
- b) Cell 7: No Comment, completely contained.
- c) Cell 8: At grading plan stage, a detailed analysis of Qls A shall be provided, which appears to be proposed to remain as part of the proposed cut slope, CS-18, on S23 (RTFA, January 27, 2012).
- d) Cell 9: No Comment, completely contained.
- e) Cell 10: At grading plan stage, further analysis of finished slope conditions for CS-9, illustrated in S19 is required (RTFA, January 27, 2012).

- f) Cell 11: At grading plan stage, further stability analysis of the proposed cut slope, CS-1, illustrated in S11, is required and the potential impact of the potential failure of the undesignated north facing landslide located off site must be addressed. Stability of proposed cutslope, CS-2 (S12), must be analyzed.
- g) Cell 12: S16 shows that portions of Qls E and Qls F are to remain. S24 shows a Qls F is to remain as part of the proposed cut slope, CS-5. Stability analysis must be provided.
- h) Cell 13: Several undesignated landslides must be characterized and analyzed to determine if potential failure due to landfill activities will impact off site properties. The extent and design of the proposed shear key proposed to mitigate Qls G must be determined. Further analysis for the apparent partial removal of Qls N (S25) is required.

Please address the above comments and resubmit the fill sequencing plan by June 15, 2019, for our review and approval.

If you have any questions regarding this matter, please contact Mr. Martin Aiyetiwa at (626) 458-3533, Monday through Thursday, 7:00 a.m. to 5:30 pm.

Very truly yours,

MARK PESTRELLA
Director of Public Works

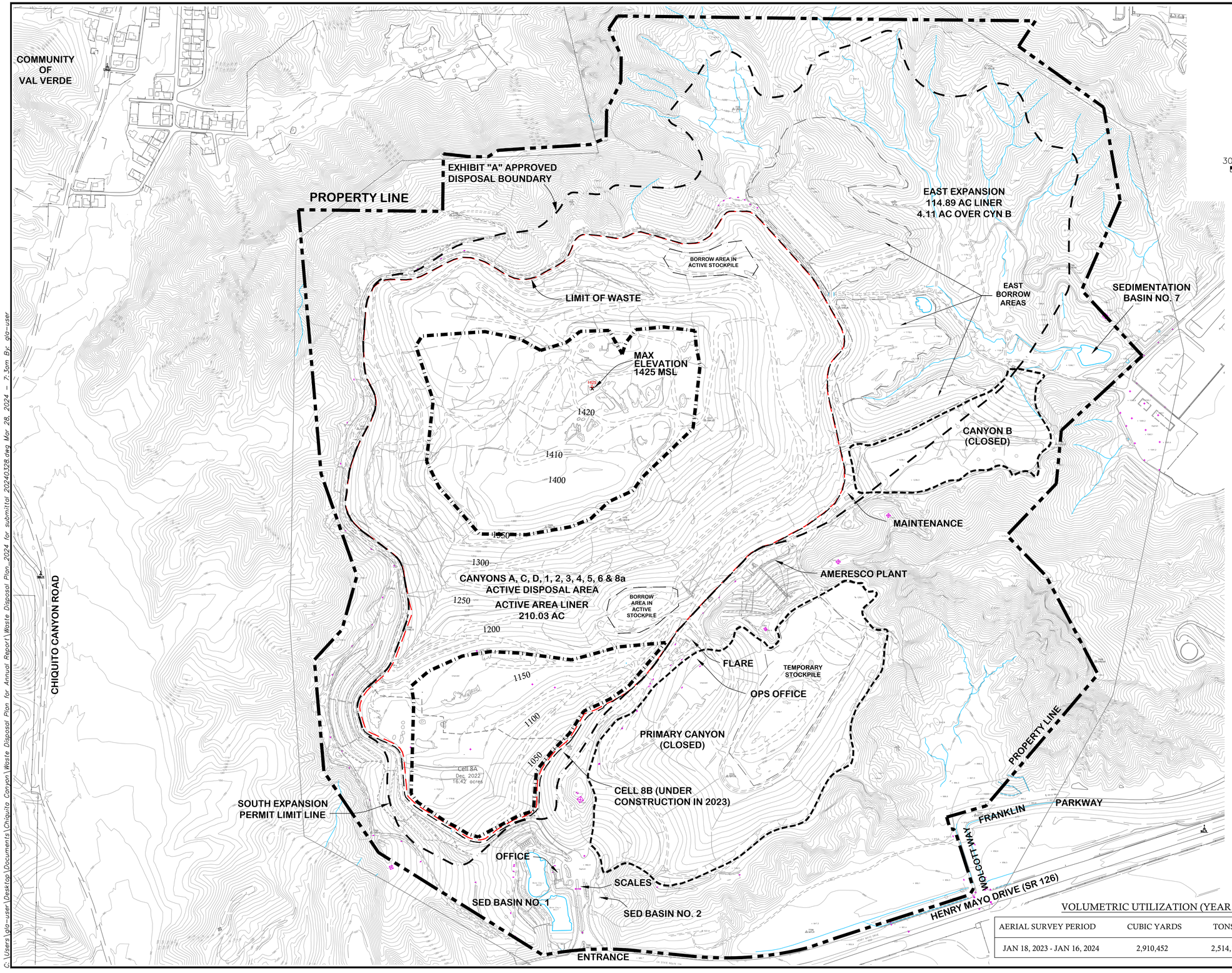
CARLOS RUIZ
Principal Engineer
Environmental Programs Division

SS:ak
P:\Sec\Casullo_CUP No.2004-00042

Enc.

cc: Department of Public Health (Maurice Pantoja, Shikari Nakagawa-Ota, Dorcas Hanson-Lugo)
Department of Regional Planning (Sam Dea, Richard Claghorn, Oscar Gomez, Jose De La Rosa, Thomas Dearborn)
Los Angeles County Fire Department (Ron Durbin, Bill Romo, Kelly Kim)

Appendix B
Waste Disposal Plan



LEGEND

- PROPERTY BOUNDARY
- PERMITTED LIMIT OF WASTE
- LIMITS OF LINER
- LIMIT OF CLOSED LANDFILL
- LIMIT OF WASTE
- STOCKPILE AND BORROW AREA LIMITS
- LIMIT OF WASTE PLACEMENT FOR REPORTING PERIOD

PERMITTED DISPOSAL AREA:

PRIMARY CANYON	55.00 AC.
B CANYON (REMNANT)	8.64 AC.
LINED AREA AS OF 2017	181.59 AC.
EAST EXPANSION LINER	117.03 AC.
EAST EXP. FILL OVER CYN B	3.21 AC.
SOUTH EXPANSION	34.53 AC.
TOTAL:	400.00 AC.

ACREAGE CONSUMED:

PRIMARY CANYON	55.00 AC.
B CANYON (REMNANT)	8.64 AC.
B CANYON (FUTURE OVERFILL)	3.21 AC.
LINED AREAS (2017)	181.59 AC.
CELL 6 LINER (2020)	12.29 AC.
CELL 8a LINER (2022)	16.42 AC.
TOTAL:	277.15 AC.

REGISTERED PROFESSIONAL ENGINEER
ROBERT DYER JOHNSON
C 39641
CIVIL
STATE OF CALIFORNIA

Dated: 28 March 2024

EXISTING TOPOGRAPHIC PLAN IS BASED ON MERGED FILES: JANUARY 16, 2024 AERIAL SURVEY WITHIN ACTIVE AREA BY TETRA TECH GEOMATIC TECHNOLOGIES AND APRIL 9, 2011 FOR THE SURROUNDING AREA BY CARTWRIGHT AERIAL SURVEY.

VOLUMETRIC UTILIZATION (YEAR VS. PREVIOUS YEAR)

AERIAL SURVEY PERIOD	CUBIC YARDS	TONS	TONS PER CUBIC YARD
JAN 18, 2023 - JAN 16, 2024	2,910,452	2,514,171	0.86

NO.	REVISION	DATE

SHEET TITLE: WASTE DISPOSAL PLAN

PROJECT TITLE: CHIQUITA CANYON LANDFILL
29201 HENRY MAYO DRIVE
CASTAIC, CALIFORNIA 91384

CLIENT: CHIQUITA CANYON LANDFILL

Geo-Logic ASSOCIATES
2777 E GUASTI RD
ONTARIO, CA
(909) 626-2282

PROJ. NO. 2013.0094 | DSN. BY: R. JOHNSON | DWN. BY: C. BARRETT | CHK. BY: R. JOHNSON | APP. BY: _ | ACAD FILE:

DATE: MARCH 28, 2024

SCALE: 1" = 300'-0"

1 of 1

G:\Users\qlo-user\Desktop\Documents\Chiquita Canyon\Waste Disposal Plan for Annual Report\Waste Disposal Plan_2024 for submittal 20240328.dwg Mar 28, 2024 - 7:3pm By: qlo-user

Appendix C
Complaint Log

January 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
1/1/2023	Sunday								
1/2/2023	Monday								
1/3/2023	Tuesday								
1/4/2023	Wednesday								
1/5/2023	Thursday								
1/6/2023	Friday	10:20 AM	Val Verde Resident	***Text***	***Odor***	***Odor Surveillance Log***	***Steve***	From Steve in VV: The landfill smells really really bad today. Been smelling it in my house for the last hour but didn't realize how bad until I walked outside	An odor Surveillance was conducted at 10:25am in Val Verde. Light trash odor was detected in Central Ave/Lincoln Ave and Very light trash odor was detected on San Martinez rd/Morningside dr. All odor control was operating properly.
1/7/2023	Saturday								
1/8/2023	Sunday								
1/9/2023	Monday								
1/10/2023	Tuesday								
1/11/2023	Wednesday								
1/12/2023	Thursday								
1/13/2023	Friday								
1/14/2023	Saturday								
1/15/2023	Sunday								
1/16/2023	Monday								
1/17/2023	Tuesday								
1/18/2023	Wednesday								
1/19/2023	Thursday								
1/20/2023	Friday								
1/21/2023	Saturday								
1/22/2023	Sunday								
1/23/2023	Monday								
1/24/2023	Tuesday								
1/25/2023	Wednesday								
1/26/2023	Thursday								
1/27/2023	Friday								
1/28/2023	Saturday								
1/29/2023	Sunday								
1/30/2023	Monday								
1/31/2023	Tuesday	2:38 PM	Val Verde Resident: Susan Evans	***Hotline/Text***	***Litter***	*Complainant does not want a call back. (661)702-9782 email:Sheffs@pacbell.net*	**Steve**	Hotline For: Steve Caller: Val Verde Resident Does Not Want A Call Back Location: Near 28131 Chiquito Canyon Rd In Val Verde Your Dump Is Spewing Trash All Over The Hills In Val Verde. I'm Referring To The Open Fields Across From The L.A. Co Fire Training Ctr In Val Verde 91384.	A third-party company was hired to pick up litter. All litter got picked up by 2/01/2023.

February 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
2/1/2023	Wednesday								
2/2/2023	Thursday								
2/3/2023	Friday								
2/4/2023	Saturday								
2/5/2023	Sunday								
2/6/2023	Monday								
2/7/2023	Tuesday								
2/8/2023	Wednesday								
2/9/2023	Thursday								
2/10/2023	Friday								
2/11/2023	Saturday								
2/12/2023	Sunday								
2/13/2023	Monday								
2/14/2023	Tuesday								
2/15/2023	Wednesday								
2/16/2023	Thursday								
2/17/2023	Friday								
2/18/2023	Saturday	4:46 PM	Darcy from VV	***Text***	Odor	***N/A***	***N/A***	Darcy from VV: In the last five minutes or so a massive wall of smell came from the south that smells like super strong rotted trash like the face of your landfill. Just wanted to give you heads up	The complaint was made after hours of operation. Winds were coming from the SW at about 4 mph.
2/19/2023	Sunday								
2/20/2023	Monday								
2/21/2023	Tuesday								
2/22/2023	Wednesday								
2/23/2023	Thursday								
2/24/2023	Friday								
2/25/2023	Saturday								
2/26/2023	Sunday								
2/27/2023	Monday								
2/28/2023	Tuesday								

March 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
3/1/2023	Wednesday								
3/2/2023	Thursday								
3/3/2023	Friday								
3/4/2023	Saturday								
3/5/2023	Sunday								
3/6/2023	Monday								
3/7/2023	Tuesday								
3/8/2023	Wednesday								
3/9/2023	Thursday								
3/10/2023	Friday								
3/11/2023	Saturday								
3/12/2023	Sunday								
3/13/2023	Monday								
3/14/2023	Tuesday								
3/15/2023	Wednesday								
3/16/2023	Thursday								
3/17/2023	Friday								
3/18/2023	Saturday								
3/19/2023	Sunday								
3/20/2023	Monday								
3/21/2023	Tuesday								
3/22/2023	Wednesday								
3/23/2023	Thursday								
3/24/2023	Friday								
3/25/2023	Saturday								
3/26/2023	Sunday								
3/27/2023	Monday								
3/28/2023	Tuesday								
3/29/2023	Wednesday	5:01 PM	Landscape Development Inc	**Website**	**Odor**	Nicole Ward called several times but there was no answer	N/A	Landscape Development Inc: Hello I just wanted to touch base I have been able to smell the dump at our office throughout the day today	Complaint was made after office hours. Winds were coming from the south at 15 mph when complaint was made. Throughout the day winds were over 5 mph.
3/30/2023	Thursday	4:46 PM	Landscape Development Inc	**Website**	**Odor**	Nicole Ward called several times but there was no answer	Nancy B drove over. No trash odors were detected.	Landscape Development Inc: Sorry I missed your call today. I will call you tomorrow. I can smell the dump today as well.	Nancy B drove twice to the location. At 8:25am winds were coming from the NE at 2mph a very-light candle/cotton candy odor was detected. At 10:40am winds were coming from the S at 2mph, no trash odors were detected.
3/31/2023	Friday	10:50 AM	Val Verde Resident	**Text**	**Odor**	*An odor surveillance was conducted*	*Nancy B completed a survey in the Val Verde area*	Val Verde Resident: It smells really really bad this morning 10 out of 10	An odor Surveillance was conducted at 11:00am in Val Verde. Very-Light trash odor was detected in San Martinez Rd/Morningside Dr. All odor control was operating properly.

April 2023 Complaint Log

Date	Day	Time of the Complaint	Who Complained or approximate location	How was the Complaint Received	Nature of complaint	Action taken to Identify complaint	Response from Chiquita (who/when)	Complaint	Final resolution
4/1/2023	Saturday	11:25 AM	Val Verde Resident	***Call***	***Odor***	*An odor surveillance was conducted*	*Nancy B completed a survey in the Val Verde area*	Val Verde Resident: Strong trash smell near Madison and Lincoln ave, its been for over a week.	An odor surveillance in the Val Verde area was conducted at 11:35am. No trash odors were detected. All odor control was operating properly.
4/2/2023	Sunday	8:30 AM	Val Verde Resident	***Text***	***Odor***	***N/A***	***N/A***	Val Verde Resident: Another 10 out of 10 smelling this morning same trash smell as Friday started at 8:30am still bad right now.	Sunday the landfill is closed.
4/3/2023	Monday								
4/4/2023	Tuesday								
4/5/2023	Wednesday	11:37 AM	Val Verde Resident	***Text***	***Odor***	*N/A*	*N/A*	Val Verde Resident: Didn't have time to text you earlier. But it smelled really bad at 5:30 when I was heading to work this morning.	High Winds. No survey was conducted. All odor control was working properly.
4/6/2023	Thursday								
4/7/2023	Friday								
4/8/2023	Saturday								
4/9/2023	Sunday								
4/10/2023	Monday	12:02 PM	Landscape Development Inc	***E-mail***	***Odor***	***N/A***	***N/A***	Landscape Development Inc: I can smell the dump today at our office.	High Winds. No survey was conducted. All odor control was working properly.
4/11/2023	Tuesday	11:01 AM	Val Verde Resident	***Website***	***Odor***	***N/A***	***N/A***	Val Verde Resident: The Landfill has been smelling almost everyday (morning) for 2 weeks now some days are so bad I can't go outside without getting sick to my stomach from the smell. Last Saturday 4/8 morning was was one of those really bad days Sunday 4/1 on a scale 1-5 it was a 10 in trash odor.	An odor surveillance was conducted in the Val Verde area at 11:30am. No trash odors were detected. All odor control was operating properly.
4/12/2023	Wednesday								
4/13/2023	Thursday	5:11 PM	Landscape Development Inc	***E-mail***	***Odor***	***N/A***	***N/A***	Landscape Development Inc: I could smell the dump when leaving work 5pm	Complaint was made after office hours. Winds were coming from the NW at 15 mph when complaint was made. Throughout the day winds were over 9 mph.
4/14/2023	Friday								
4/15/2023	Saturday								
4/16/2023	Sunday								
4/17/2023	Monday	9:33 AM	Castaic Resident/ Live Oak Community	***Call***	***Odor***	***N/A***	***N/A***	Castaic Resident: Trash odors intermittently mostly in the evenings after the rain season. Faint trash odors.	High Winds. No survey was conducted. All odor control was working properly.
4/18/2023	Tuesday	7:24 AM	Castaic Resident	***Website***	***Odor***	***N/A***	***N/A***	Castaic Resident: Bad rotting smell in early mornings 5:30am 28965 ave penn, Valencia Ca 91355.	High Winds. No survey was conducted. All odor control was working properly.
4/19/2023	Wednesday								
4/20/2023	Thursday								
4/21/2023	Friday								
4/22/2023	Saturday								
4/23/2023	Sunday								
4/24/2023	Monday								
4/25/2023	Tuesday								
4/26/2023	Wednesday	10:38 AM	Val Verde Resident	***Website / Text***	***Odor***	*An odor surveillance was conducted*	*Nancy B completed a survey in the Val Verde area*	Val Verde Resident: Trash odors are really bad this morning starting about 8:30am, working in my garden I had to go indoors as the smell made me sick	An odor Surveillance was conducted at 10:51am in Val Verde. Very-light trash odor was detected on CCR/Lincoln Ave. All odor control was operating properly.
4/27/2023	Thursday								
4/28/2023	Friday	9:18 AM	Val Verde Resident	***Website / Text***	***Odor***	*An odor surveillance was conducted*	*Nancy B completed a survey in the Val Verde area*	Val Verde Resident: 3rd day in a row very strong trash odor on a scale of 1-5 it's a 5. the smell is so sickening I cannot work outdoors without getting nauseous. Odors were faint at a 1 at 5:50am getting stronger to a 5 by 7:40am.	An odor surveillance in the Val Verde area was conducted at 10:40am. No trash odors were detected. All odor control was operating properly.
4/29/2023	Saturday	8:12 AM	Val Verde Resident	***Website***	***Odor***	*An odor surveillance was conducted*	*Nancy B completed a survey in the Val Verde area*	Val Verde Resident: Trash odors at my house again 5 out of 5 - started lightly smelling at 5:40am - up to a 5 by 7:30am. 4th day in a row, same smell, same times.	An odor surveillance in the Val Verde area was conducted at 9:12am. Light trash odor was detected on CCR/ Fire center, Very-light trash odors on Lincoln Ave/Jackson St & Lincoln Ave/Harding Ave. All odor control was operating properly.
4/30/2023	Sunday	8:39 AM	Val Verde Resident	***Website***	***Odor***	N/A	N/A	Val Verde Resident: Very strong trash odor this morning starting at 6am. It also smelled last night 4/29 from about 9:30pm til I went to bed at 12:30am	Sunday the landfill is closed.

May 2023 Complaint Log

Date	Day	Time of the Complaint	Who Complained or approximate location	How was the Complaint Received	Nature of complaint	Action taken to Identify complaint	Response from Chiquita (who/when)	Complaint	Final resolution
5/1/2023	Monday								
5/2/2023	Tuesday	1:10 PM	Landscape Development Inc.	***e-mail***	***Odor***	***Nancy B drove to the location.***	***Nancy B drove to the location.***	Landscape Development Inc: I can smell the dump 1pm. I could also smell the dump at my kids school as well SCVI	Nancy B. Drove to location and stops, 16, 17,18 no trash odor were detected. All odor control operating properly.
5/3/2023	Wednesday	8:48 AM	Val Verde Resident	***Website***	***Odor***	***Drove To Val Verde***	***Steve/Nancy B Drove To Val Verde***	Val Verde Resident: Very strong trash odors starting about 8:15am this morning 4 our 5. This is becoming a daily event - we are also smelling landfill gas odors at night usually around 10pm	An odor surveillance was conducted in the Val Verde area at 7:28am and no trash odors were detected. Another odor survey was conducted in the Val Verde area at 9:40am. Very light LFG odor was detected on CCR/Fire Center. All odor control was operating properly.
5/4/2023	Thursday								
5/5/2023	Friday								
5/6/2023	Saturday								
5/7/2023	Sunday	8:58 AM/ 9:41 AM	Val Verde Resident	***Text / Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steve H) Text:** This Morning around 8 AM we started smelling very strong landfill gas odor throughout Val Verde with multiple people complaining. FYI I know you're not in operation on Sunday so here's at least a heads up. **Val Verde Resident (Steve H) Website:** Smelled light trash odors (2 out of 5) on 5/6 Sat morning 6am, Sun 5/7 there is strong landfill gas or trash odors (4 out of 5) throughout Val Verde noticed by multiple residences in different areas of Val Verde. I texted Steve C, and he replied he is checking into it 2023/05/09 9:41:35 AM	Landfill is closed on Sundays.
5/8/2023	Monday	9:00 AM	Val Verde Resident	***Text***	Odor	*An odor surveillance was conducted*	*Nancy B completed a survey in the Val Verde area*	Val Verde Resident: Are you drilling today it is really bad.	An odor survey was conducted in the Val Verde area at 9:06am. Light LFG odor was detected on CCR/LincolnAve Very light LFG odor on LincolnAve/JacksonSt and LincolnAve/HardingAve. All odor control was operating properly.
5/9/2023	Tuesday	9:41 AM / 9:43 AM	Val Verde Resident	***Website / Text***	Odor	***An odor Survey was conducted in the Val Verde area***	***Nancy B conducted an odor survey in the Val Verde area.***	**Val Verde Resident (Steve H) Website:** Trash odors yesterday (5/8/23) starting around 6am progressively getting worse until around 10:30am trash odors confirmed by AQMD inspector - this morning at 9am very strong trash odors again throughout Val Verde **Val Verde Resident (Steve H) Text:** strong trash odors this morning.	An odor survey was conducted in the Val Verde area at 9:48am. Very-Light Trash odor was detected on Central Ave/Lincoln Ave . All odor control was operating properly.
5/10/2023	Wednesday								
5/11/2023	Thursday	9:07 AM - 10:11 AM	Val Verde Residents	***Website***	Odor	***An odor Survey was conducted in the Val Verde area***	***Nancy B conducted an odor survey in the Val Verde area.***	**Val Verde Resident (Text):** My wife says there's a strong trash odor now 9:06am **Val Verde Resident:** very strong trash odors this morning starting light around 6am getting very bad at 8am continuing on after 9am now **Val verde Resident (Sara)**: Came home at 8am Thursday May 11 from dropping my child off at school. Chiquita Landfill smelled at a 5/5 of horrible rotten trash. Had to find a mask in my car and cover my face to walk to my house it was that bad. The Chiquita Landfill has been smelling every morning for the past two weeks like this. I just learned about this complaint form. I usually just call AQMD. **Val Verde Resident (Natalie):** Trash odor heavy smell coming in waves between the wind and settling in my yard. **Val Verde Resident (Susie):** What is different in these last couple of weeks that the horrid smell is leaving the dump? Please donâ€™t say the weather.	An odor survey was conducted in the Val Verde area at 9:20am. Very-Light LFG odor was detected on CCR/Lincoln Ave and Buchannan Way/CCR . All odor control was operating properly.
5/12/2023	Friday								

5/13/2023	Saturday	6:08 AM - 9:44 PM	Val Verde Residents	***Website/Txt***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy) at 6:08am:** The landfill smells really bad at my house right now I had to close my windows. It smells worse than the working face like dug up rotten trash. It woke me up. Last night at 2:30am **Val Verde Resident (Steven) 8:00pm** starting about 8pm with wind blowing from the landfill direction there is a very stronf landfill gas odor 5 out of 5. Had to turn my swamp cooler off - guess I will have to sleep with a hot house tonight. **Val Verde Resident 8:30 pm** there is a really strong landfill gas smell odor throughout Val Verde right now, had to turn my swamp cooler off **Val Verde Resident (Susie) 8:36pm** The trash is stinking 5-13-2023 sine 7:30 PM it is 8:40 now **Val Verde Resident 9:44pm** It is insanely bad out right now I have a splitting headache and feel like I need to throw up. If this goes on longer tonight I am going to call 911. It seems that you may have a big issue going on worse then normal.	Odors occurred on Non-Operating hours.
5/14/2023	Sunday	9:46 AM - 9:50 AM	Val Verde Residents	***Website/Txt***	Odor	***N/A***	***N/A***	**Val Verde resident:** smelling landfill gas odors again this morning **Val Verde Resident (Steven) 9:46am** Smelling landfill gas odors this morning again, lighter than last night 2-3 out of 5 but enough that I get a headache trying to do my outside chores with my animals. These constant odors are effecting my way of living and health. **Val Verde Resident (Susie) 9:50am** Same as last night, 5-13-2023.	Landfill is closed on Sundays.
5/15/2023	Monday								
5/16/2023	Tuesday	1:30 AM - 8:36 AM	Val Verde Residents	***Website/Txt***	Odor	***Steve drove to Val Verde***	***2 Odor Surveys were conducted***	**Val Verde Resident (Txt) at 1:30am:** Lakdfill just woke me up it smells really bad **Val Verde Resident (Darcy) at 1:57am:** Thank you for waking me up. It is 1:45 am and I was asleep but now I am awake because you canâ€™t keep your smell under control. Your landfill is broken. Your flares are broken. Why is it that while you were under mitigation from AQMD the odors started to cease and was under control for the most part. And now you are no longer under mitigation and now smell every morning and every night like not just bad but really really bad. Why canâ€™t you fix this. **Val Verde Resident (Brandi) at 7:39am:** it is currently 1:30 am and the smell from the landfill is so bad that it woke me up and I have had to get up in the middle of the night to close all windows. So much for cooling the house down at night ðŸ˜¡ **Val Verde Resident (Darcy) at 8:12 am (Txt):** Come on Steve this is getting out of control it smells once again. You are now severely affecting our lives. Darcy Nothing yesterday. **Val Verde Resident (Sara) at 8:16am:** Got home at 8AM from dropping my child off at school. My car windows werenâ€™t even open and I could smell the rotten stench of trash seeping through into my car. Had to use my jacket to cover my face so I wouldnâ€™t smell it walking to my house. Had to shut all my windows so sadly I wonâ€™t have any cold air coming into my house even though it will be almost 90 degrees today. Had to light candles and turn on my diffusers to get the stench of the landfill out of my house. Nothing is being done to fix this situation. It has been like this almost every morning. **Val Verde Resident (Steve H) at 8:19am (Txt):** Landfill smelled really really bad last night at 1am and just started smell again about 20 minutes ago, the smell is literally making my family sick. 8:19am. **Val Verde Resident (Abigail) at 8:36am:** It stinks really awful at my house a lot for the past week and this morning it is making me sick. Why? Please fix this. Are we being poisoned? It feels like it.	An odor survey was conducted in the Val Verde area at 8:15am. Very-Light Chemical odor was detected on Lincoln Ave/Jackson St. A second odor survey was conducted at 10:31am and light LFG odor was detected on Del Valle Rd/Hasley Canyon Rd. All odor control was operating properly.
5/17/2023	Wednesday	8:35 PM - 8:48 PM	Val Verde Residents	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Susie) at 8:35 pm:** I smell the landfill gas at 8:30 PM WHAT THE HECK? **Val Verde Resident (Natalie) at 8:43 pm**: Itâ€™s 8:42 pm we can smell the landfill now at our home. Disgusting, headache producing odor **Val Verde Resident (Susie) at 8:48 pm** This odor is giving me a major headache and upset stomach.	Odors occurred on Non-Operating hours.

5/18/2023	Thursday	7:58 AM - 8:06 AM	Val Verde Residents	***Website/Text***	Odor	***Odor survey conducted in the Val Verde area***	***Nancy B conducted an odor survey in the Val Verde area.***	**Val Verde Resident (Steve H) at 7:58 am (Txt):** Landfill gas odors coming through Val Verde in waves started about 15 minutes ago. **Val Verde Resident (Steve H) at 8:06 am:** There was very strong landfill gas odors Wed morning around 8-10am then again in the evening around 8-11pm. The odors are making people physically ill throughout the community, we are not able to go outside, we are not able to cool our houses due to the constant odors in which is turning into a daily problem. This is affecting my family's way of life we cannot live the way we want and have to adjust our lifestyle to avoid the odors coming from a landfill that was promised to be shut down.	An odor survey was conducted in the Val Verde area at 8:04am. Very-Light LFG odors were detected on CCR/Lincoln Ave, Lincoln Ave/Jackson St, CCR/San Martinez Rd, Central Ave/Lincoln Ave, and light LFG odor on Buchannan Way/CCR. All odor control was operating properly.
5/19/2023	Friday								
5/20/2023	Saturday	8:30 PM	Val Verde Residents	***Website/Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Susie) at 8:30 pm:** You. Gasses and trash stink is in y neighborhood. Now you have triggered my asthma and a headache **Val Verde Resident (Steve H) at 8:30 pm (Txt):** just got hit with a really bad odor of landfill gas about 10 min ago. It is choking bad. 8:30pm Saturday	Odors occurred on Non-Operating hours.
5/21/2023	Sunday	9:32 AM - 10:24 PM	Val Verde Residents	***Website/Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steven H) at 9:32am:** There was a strong landfill gas odor last night Sat. 5/20 about 8pm, the odor was so strong if made my whole family nauseas with headaches in an instant, as I rushed to turn off our swamp cooler and verify the same odor outside it was coming in waves with the wind. This morning at 9am the same gaseous nauseating odor is back not quite a strong as last night - we are packing up quickly to leave the area so we do not get sick from the odors again. This is no way to live - we are subject to constant foul odors that are making us physically sick and have to adjust our life around what to do when the odors start. **Val Verde Resident (Darcy) at 10:24pm (Txt):** 10:24pm Sunday It smells like landfill gas really bad in front of my house. And super rotten egg smell	Landfill is closed on Sundays.
5/22/2023	Monday	8:34:00 AM-11:00 PM	Val Verde Residents	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steven H) at 8:34am:** Dealing with landfill gas odors again last night about 8pm went away after an hour then came back even stronger around 11pm, depriving us of enjoying opening the windows and cooling the house at night. This morning at 7:30am the odors are back strong again. **Val Verde Resident (Darcy) at 11:00pm:** You guys drilling right now it is super strong at 11 pm smells like landfill gas super bad	All odor control was operating properly/ Odors occurred on Non-Operating hours
5/23/2023	Tuesday								
5/24/2023	Wednesday								
5/25/2023	Thursday	7:00AM - 9:14AM	Val Verde Residents	***Text/ Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steve Howse) at 7:41am:** light landfill odors just started this morning. **Val Verde Resident (Steve Howse) at 8:31am:** We had landfill gas odors last night / early morning then trash odors this morning again starting around 7am.	All odor control was operating properly.
5/26/2023	Friday								
5/27/2023	Saturday								
5/28/2023	Sunday								
5/29/2023	Monday								
5/30/2023	Tuesday								
5/31/2023	Wednesday								

June 2023 Complaint Log

Beginning in June 2023, CCL began adding complaints reported after the fact by the SCAQMD in addition to the residential complaints provided directly to CCL via phone, text, or email.

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
6/1/2023	Thursday								
6/2/2023	Friday								
6/3/2023	Saturday	8:30 - 9:30 AM	AQMD	***Text***	Odor	***N/A***	***N/A***	AQMD: Received 5 odor complaints 2 confirmed.	All odor control was operating properly.
6/4/2023	Sunday	10:54 AM	Val Verde Resident	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steve H) Web**: Landfill odors yesterday morning 6/3 from about 8:30 to 11am then again around 9:30pm to 11pm. And it's back smelling again this morning started about 8:45am and continuing from the time of this complaint - This is more than a minor nuisance these constant odors are causing health issues to my family. I have family that cannot visit now because they get headaches, running nose, fatigue, nausea, sore throat when visiting, no symptoms before and it goes away very shortly after visiting	All odor control was operating properly.
6/5/2023	Monday								
6/6/2023	Tuesday								
6/7/2023	Wednesday								
6/8/2023	Thursday	7:39- 8:10 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	AQMD: Received 5 odor complaints 3 confirmed.	All odor control was operating properly.
6/9/2023	Friday								
6/10/2023	Saturday	11:04 AM	Val Verde Resident	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steve H) Web:** We were getting landfill gas odors last night at our house around 9- 11pm. I forgot to log in here but there were AQMD verified trash odors on Thursday morning 6/8/23 around 8am to almost 11am.	All odor control was operating properly.
6/11/2023	Sunday								
6/12/2023	Monday								
6/13/2023	Tuesday								
6/14/2023	Wednesday								
6/15/2023	Thursday								
6/16/2023	Friday	6:30: PM	Castaic Resident	**Call**	**Odor**	***N/A***	***N/A***	**Castaic Resident (Bob Bushard) Call**: Trash odor coming from live Oak Development.	All odor control was operating properly.
6/17/2023	Saturday	11:22 PM	Val Verde Resident	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Steven Howse) Web:** 10pm on Saturday night and there is a very strong trash / landfill gas odor. My whole house reeks of trash as I rushed to turn off my swamp cooler and close all the windows in my house.	Odors occurred on Non-Operating hours.

6/18/2023	Sunday	6:29 AM- 7:07:00 AM	Val Verde Resident	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Brandi Howse) Web:** The Landfill has been smelling all night and is still smelling this morning at 8:05. It smells like landfill gas. We can not cool our house down with our swamp cooler. This is continually a problem. It is not fair to the members of our community! **Val Verde Resident (Darcy) Web:** Last night at 11:30pm The Landfill is super super strong for the smell at my house on Lincoln. My entire inside of my house smells like the landfill now because of my swamp cooler. I hope you have guys at the that can fix whatever this is.	Landfill is closed on Sundays.
6/19/2023	Monday								
6/20/2023	Tuesday	7:30 AM	Val Verde Resident	***Website***	*Odor*	***N/A***	***N/A***	**Val Verde Resident (Steve H) Web:** very strong trash odor 5 out of 5 at my home this morning started about 8am, rushing to close all my windows- I'm now not able to use climate friendly free cool morning air to cool my house and my family cannot go outside to take care of our morning chores due to the sickening strong trash odor.	All odor control was operating properly.
6/20/2023	Tuesday	11:15 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina) 8:29am - 9:04am**: Received 4 odor complaints on Cottage Grove Dr, Lincoln, Buckman Way & Servilla Place, 1 confirmed at Cottage Grove Dr.	All odor control was operating properly.
6/21/2023	Wednesday								
6/22/2023	Thursday	7:47 AM - 7:50 AM	Val Verde Resident	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Sara Stinson) at 7:50am:** Rotting trash smell this morning. Sweet gas smell yesterday. **Val Verde Resident (Steven Howse) at 7:47am:** Trash odors at my house and throughout Val Verde this morning starting about 7:20am Started light and is getting stronger.	All odor control was operating properly.
6/22/2023	Thursday	10:19 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina) 7:35am- 9:02am** -: Received 6 Odor complaints from Lincoln, Cottage Grove, Hunstock St, Servilla place & Buckham Way; 4 were verified, 2 in Servilla Place, 1 in Hunstock & 1 in Lincoln.	All odor control was operating properly.
6/23/2023	Friday	9:04	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina):** Received 1 odor complaint 1 verifies.	All odor control was operating properly.
6/24/2023	Saturday								
6/25/2023	Sunday	11:00 PM	AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry)** : Hi Nicole, Just as an FYI, this morning I verified 5 LFG odor complaints in Val Verde and sice before 10pm there were 2 addditional odor complaints verified in the Live Oak residential community for a total of 7 today.	Odors occurred on Non-Operating hours.
6/26/2023	Monday	10:45 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel)** - Received 9 Complaints 0 verified.	All odor control was operating properly.
6/27/2023	Tuesday	11:30 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 730am- 9:20am**- Received 6 Complaints 4 verified.	Chiquita Canyon was notify approximately 2 hours later, and conducted an investigation and all odor control were operating properly.
6/28/2023	Wednesday	11:30 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 7:34am - 8:30am**: Received 8 Odor complaints from Hunstock, Cottage Grove & Trellis; 3 were verified.	All odor control was operating properly.

6/28/2023	Wednesday	8:48 AM	Val Verde Resident	***Call***	Odor	***N/A***	***N/A***	**Val Verde Resident (Brandi Howse) Call:** There Is A Bad Smell Today All Night We Cant Turn Our Air On Its Been Giving Us A Headache.	All odor control was operating properly.
6/29/2023	Thursday	10:18 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 7:33am - 9:12am**: Received 8 Odor complaints from Lincoln, Cottage Grove, Buchanan, & Jackson; 7 were verified.	Chiquita Canyon was notify approximately 1 hour later and conducted an investication and all odor control were operating properly.
6/30/2023	Friday	10:36 AM- 7:52:00 PM	Val Verde Resident	***Call***	Odor	***N/A***	***N/A***	**Val Verde Resident (Carolina Caprarelli) Call:** Chiquita Canyon Landfill I called Last Night Because There Was A Strong Sulfar Smell/ Sewer Trash Smell. It Lasted For About 15-20 Minutes **Val Verde Resident (Darcy) Call:** It smells really bad right now when the wind comes from your direction. Super strong landfill gas odors.	All odor control was operating properly.
6/30/2023	Friday	10:54 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 7:38am - 9:55am**: Received 8 Odor complaints from Lincoln, Cottage Grove, Buchanan; 6 were verified.	Chiquita Canyon was notify approximately 1 hour later and conducted an investication and all odor control were operating properly.

July 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
7/1/2023	Saturday								
7/2/2023	Sunday								
7/3/2023	Monday								
7/4/2023	Tuesday								
7/5/2023	Wednesday								
7/6/2023	Thursday	11:03 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 6:55am - 9:20am**: Received 10 Odor complaints 3 verified, complaints were coming from all over VV Community.	All odor control was operating properly.
7/7/2023	Friday	12:13 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 7:52am - 11:05am**: Received 15 Odor complaints 8 verified, complaints were coming from various locations from Val Verde & Castaic Community, odor of Landfill Gas.	All odor control was operating properly.
7/8/2023	Saturday								
7/10/2023	Monday	10:30 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD**: Gerardo stated there were 13 complaints from Val Verde 4 were verified on **Sunday 7/9/23.**	Odors occurred on Non-Operating hours.
7/10/2023	Monday	10:30 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 7:50am - 10:13am**: Received 10 Odor complaints from various locations in ValVerde, 8 were verified as a light smell of sweet trash odor.	All odor control operating properly.
7/10/2023	Monday	9:02 AM	Castaic	***Call***	Odor	***N/A***	***N/A***	**Castaic Resident**: Resident from Hasley Hills in Castaic, Strong trash odor, smells like sewer.	All odor control operating properly.
7/11/2023	Tuesday	9:30 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina) 8:00am - 8:53am**: Received 8 Odor complaints of strong trash smell, 7 verified on following locations, 4 in Lincoln, 1 Buchanan, 1 Evans Court & 1 in Harding.	All odor control operating properly.
7/12/2023	Wednesday	9:19 AM	Val Verde Resident	***Call***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy): w**e are smelling trash again right now this morning	All odor control operating properly.
7/12/2023	Wednesday	10:38 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina) 7:40am - 9:30am**: Received 6 trash odor complaints from Lincoln Ave & Evans Court, 5 were verified.	All odor control operating properly.
7/13/2023	Thursday	11:02 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina) 8:16am - 9:30am**: Received 10 Odor complaints 9 were verified in Lincoln Ave, Evans Court, Harding & Cottage Grove, residents complaint of LFG/ Trash odor 4 out of 5 of intensity.	All odor control operationg properly.
7/14/2023	Friday	9:48 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina):** Received 1 trash odor complaint and 1 was verified.	All odor control operationg properly.

7/14/2023	Friday	6:46 PM	Val Verde Resident	***Website***	Odor	***N/A***	***N/A***	**Val Verde Resident (Perfecto Lopez):** I have lived in the area for many years and it was not until recently that bad odors are being detected on Commerce Center Drive (near Harrison Parkway). Not sure what new activities are taking place at your facility, but wanted to bring this matter to your attention so it can be addressed.After 20 years living nearby, this is the first time the odors were detectable and strong.I am hopeful that this situation is only temporary. Thanks in advance for looking into this. P. Lopez	All odor control operating properly.
7/15/2023	Saturday	8:42 AM	Val Verde Resident	***Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy):** It smells super strong now. Like your face of the Landfill. It smells like rotten trash.	All odor control operating properly.
7/15/2023	Saturday	11:08 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo):** Received 15 Odor complaint and 8 were verified.	All odor control operating properly.
7/16/2023	Sunday								
7/17/2023	Monday	9:32 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo) 6:53 am- 9:35 am :** Received 9 Odor complaint and 6 were verified.	All odor control operating properly.
7/18/2023	Tuesday	10:46 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 7:28 am- 8:57 am :** Received 8 Odor complaint and 6 were verified in Lincoln, Del Wood, Buchanan, Evan Crt.	All odor control operating properly.
7/19/2023	Wednesday	5:26 AM	Val Verde Resident	***Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy):** It smells super bad and getting worse. Started an hour ago.	All odor control operationg properly.
7/19/2023	Wednesday	10:46 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 7:53 am- 8:30 am :** Received 9 Odor complaint and 6 were verified in Lincoln, Cottage Grove,Evans Crt, Harding, Cromwell Ave, & Buchanan.	All odor control operating properly.
7/20/2023	Wednesday	6:02 AM	Val Verde Resident	***Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy):** Just wanted to let you know your landfill once again like clockwork is interrupting my life. I had to turn off my swamp cooler as your LFG is super strong outside right now. What is it about the 9:00 hour at night that your gas comes into the neighborhood	All odor control operating properly.
7/20/2023	Thursday	11:22 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 8:10 am- 10:16 am :** Received 10 Odor complaint and 6 were verified in Lincoln, Harding, Cottage Grove Dr, Evans crt & Marvin Ave, odor of trash & LFG.	All odor control operating properly.
7/21/2023	Friday	11:25 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina & Gerardo) 7:12 am- 10:00 am :** Received 9 Odor complaints and 7 were verified in Harding, Buchanan, Lincoln, Jackson, Cottage Grove Dr, Residents complaining of ordor of LFG.	Chiquita Canyon was notify approximately 1 hour later and conducted an investigation and all odor control were operating properly.

7/22/2023	Saturday	10:02 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel) 8:28 am- 9:30 am:** Received 14 Odor complaint and 10 were verified in Trillis Rd, Lincoln, Ave, Cottage Rd, Fire Center Drive way, odor of LFG.	All odor control operating properly.
7/23/2023	Sunday	6:44 AM	Val Verde Resident	***Text***	*Odor*	***N/A***	***N/A***	**Val Verde Resident (Darcy):** Your landfill odor and gas problems just woke me up. It smells like landfill gas at 3:01 am at my home	All odor control operating properly.
7/24/2023	Monday	4:29:AM & 8:34 AM	Val Verde Resident	***Text***	*Odor*	***N/A***	***N/A***	**Val Verde Resident (Darcy):** When is this torture going to end your smells and whatever else comes with it just woke us up. It's insanely bad outside and now inside my house. **Val Verde Resident (Darcy):** It smells again this morning. It smells like rotten trash. Woke me up again when is this going to end. I can't get sleep at all.	All odor control operating properly.
7/24/2023	Monday	10:35 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 8:17 am- 9:36 am:** Received 8 Odor complaint and 7 were verified from Cottage Grove Dr, Trillis Rd, Lincoln, Harding, Madison Way & Buchannan.	All odor control operating properly.
7/25/2023	Sunday	3:49 AM	Val Verde Resident	***Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy):** Landfill gas really strong at my place right now.	All odor control operating properly.
7/26/2023	Wednesday								
7/27/2023	Thursday	10:43 AM	AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel) 9:00 pm:** Last evening After 8pm, I confirmed 3 LFG odor complaints in Live Oak and after 9pm 5 odor complaints confirmed in Val Verde for a total of 8.	All odor control operating properly.
7/27/2023	Thursday	9:20 PM	Val Verde Resident	***Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy):** LFG is so strong at my house right now	All odor control operating properly.
7/28/2023	Friday	9:58 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 7:58 am - 8:40 am:** Received 11 Complaints, 8 were verified on Lincoln, Buchannan, Harding, Chiquito Canyon Rd & Evans Court, odor of LFG and Trash.	All odor control operating properly.
7/29/2023	Saturday	10:00 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry) 8:00am - 9:30 am:** Received 8 Complaints, 8 were verified in Val Verde, odor of LFG.	All odor control operating properly.
7/30/2023	Sunday	10:00 PM	Val Verde Resident	***Text***	Odor	***N/A***	***N/A***	**Val Verde Resident (Darcy):** Once again, Landfill gas super strong started it around 9 PM hoping it was going to go away. My house is 91 degrees inside. And outside is 78 degrees and I have to sit and sweat and suffer in my home since I can't have my air on	Odors occurred on Non-Operating hours.
7/30/2023	Sunday		AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry)** Sunday evening: 13 complaints verified between 2025 hrs-2215hrs. 3 confirmed in Hasley Hills and Live Oak area. Distict to strong landfill gas odors.	Odors occurred on Non-Operating hours.
7/31/2023	Monday	4:22 PM	AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry)** Monday morning verified 11 complaints between 0740hrs-0945hrs all in Val Verde. Distinct landfill gas odor.	All odor control operating properly.

August 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
8/1/2023	Tuesday	10:38 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 8:00am - 9:30 am:** Received 14 Complaints, 7 were verified on Evans Crt, Buchannan, Taft Crt, Madison Way, Cottage Grove Dr, Harding, Keningston Place, Justamere Ave & Lincoln, Mix of LFG & Trash odor.	All odor control operating properly.
8/2/2023	Wednesday	10:08 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 5:34 am - 9:30 am:** Received 15 Complaints, 8 were verified on Buchannan, Lincoln, Harding, Taft, Chiquito Canyon Rd, Hayes St, Hunstock, Cromwell, & Cottage Grove Dr, odor of LFG & Trash.	All odor control operating properly.
8/3/2023	Thursday	9:44 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 8:04 am - 8:35 am:** Received 6 Complaints, 6 were verified on Lincoln, Chiquito Cyn Rd, Evans Crt, Taft Crt & Final one verified by Larry on Live Oak Community, Odor of LFG & Trash.	All odor control operating properly.
8/4/2023	Friday	11:16 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 7:19 am - 10:25 am:** Received 23 Complaints, 7 were verified on Lincoln, Cottage Grove, Jackson, Trellis Rd, Rangewood Rd, Silver St, Picadilly Place, Justamere Ave, Hunstuck, June Rose Crt, Cambridge, Cromwell, Spring Valle Lane, Madison Way, Harding, Buchannan, Sait Lawrence, Cannes Place, Odor of LFG & Trash.	All odor control operating properly.
8/5/2023	Saturday	10:22 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry) :** Received 38 Complaints, 21 were verified, odor of Sour LFG.	All odor control operating properly.
8/5/2023	Saturday	11:16 AM	Val Verde Resident	***Call***	Odor	***N/A***	***N/A***	**Val Verde Resident (Kerry Quiraete):** from Villa Ave, complaint of a crazy smell more at night.	All odor control operating properly.
8/6/2023	Sunday		AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry) :** Confirmed 4 in the morning and approximately 7 or so unique confirmed in the eveninig.	Odors occurred on Non-Operating hours.
8/7/2023	Monday		AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry) 9:00 pm :** Confirmed 7 LFG odor complaints in both Val Verde & Hasley Canyon.	All odor control operating properly.
8/8/2023	Tuesday	10:25 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 9:40 am - 10:06 am :** Received 3 Odor complaints, 2 were verified.	All odor control operating properly.

8/9/2023	Wednesday	11:37 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina) 2:37 am - 10:38 am :** Received 22 Odor Complaints 6 were verified; Complaints were from Sunny Ridge Terrance, Woodstock, Marvin Ave, Madison Way, Bancroft Place, Lincoln, Big Oak Lane, Arlington St & Rainbow Dr; Between 7:25 am - 10:56 am Christina confirmed 3 odor complaints, Larry confirmed an additional 3 after midnight, on Lincoln & Evans Court.	All odor control operating properly.
8/10/2023	Thursday	11:33 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry) 12 AM - 10:44 AM :** Received 29 Complaints, 4 were verified, 2 on Lincoln 1 Springvale Ln & 1 on Hunstock.	All odor control operating properly.
8/11/2023	Friday	12:39 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry)** 12:00 am - 11:00 am: 51 odor complaints 11 were verified; Val Verde 20 confirmed odors from Lincoln, Hunstock, Arlington, San Martinez, Hasley Hills, Creekbed Rd, Picadilly, Cottage Grove, Harding, Jackson, Cromwell & Starbridge; Castaic complaints from Justimere, Cottage Grove, Lincoln, Chiquito Cyn Rd, Jackson, Harding, Cromwell & Springvale Lane; Odor of LFG 4 out of 5 & 1 trash odor confirmed.	All odor control operating properly.
8/12/2023	Saturday	10:00 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry)** 8:20 am - 9:10 am: 11 odor complaints from Val Val Verde, Hasley Cyn & Live Oak. Odor of LFG the smell 3 out of 5.	All odor control operating properly.
8/13/2023	Sunday		AQMD	***e-mail***	Odor	***N/A***	***N/A***	**AQMD (Gerardo)** 8:20 am - 9:10 am: 20 odor complaints 8 verified	Odors occurred on Non-Operating hours.
8/14/2023	Monday								
8/15/2023	Tuesday	11:30 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 7:47 am - 10:25 am: 17 odor complaints from Val Val Verde & Castaic,11 verified on lincoln, Jackson, Evan Crt, Cromwell, Chiquito Cyn Rd, Taft Crt, Cottage Grv, Harding Ave & Vernon Ave.	All odor control operating properly.
8/16/2023	Wednesday	10:23 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 6:21 am - 10:04 am: 18 odor complaints 7 verified on the following: Castaic area, 2 confirmed in Picadilly Pl & Creekbed Rd; Val Verde area, 5 confirmed in Cottage Grv, Evans Crt, Jackson St, Chiquito Cyn Rd & Sheridan Rd, odor of strong LFG.	All odor control operating properly.
8/16/2023	Wednesday	7:31 PM	Castaic	***Call***	Odor	***N/A***	***N/A***	**Castaic Resident (Kevin Barrett):** reporting a smell in live oak neighborhood the whole street has a trash smell, you can't even go outside. It has been happening this week starting at sunset.	All odor control operating properly.
8/17/2023	Thursday	12:10 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina)** 11 Odor complaints from Val Verde 5 verified on Cottage Grove, Jackson & Lincoln. **(Larry Israel)** I confirmed a 6th complaint at 7pm in Live Oak area.	All odor control operating properly.

8/18/2023	Friday								
8/19/2023	Saturday	11:25 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Alemayehu Salomon)** 8:00 am - 10:00 am: 13 odor complaints 11 verified, odor of LFG.	All odor control operating properly.
8/20/2023	Sunday								
8/21/2023	Monday		AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel)** There were distinct to strong LFG odors first in Val Verde around 5-6pm and then in Live Oak and Hasley Hills after 7pm. I Confirmed 8	All odor control operating properly.
8/22/2023	Tuesday		AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel)** Received 10 odor complaints, 10 were verified on Live Oak & Hasley Hills.	All odor control operating properly.
8/23/2023	Wednesday	11:41 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 7:29 am - 11:02 am: 15 odor complaints 10 verified on Lincoln, Jackson, Harding, Chiquito Canyon Rd, Cottage Grove Dr & San Martinez, odor of LFG mix with trash.	All odor control operating properly.
8/24/2023	Thursday	12:10 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry)** 7:00 am - 10:00 am: 25-30 odor complaints from Val Verde **1 verified** , odor of LFG; Later on in the evening between 6-8pm, **6 additional odor complains verified** in the Live Oak area of Castaic (near Hasley Canyon Park).	All odor control operating properly.
8/25/2023	Friday	10:53 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 8:19 am - 10:26 am: 19 odor complaints from Val Verde, 14 verified on Lincoln, Jackson, Evans Crt, Chiquito Cyn Dr, Harding, Cromwell, Cottage Grove Dr & Mayfair, odor of LFG.	All odor control operating properly.
8/26/2023	Saturday								
8/27/2023	Sunday		AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel)** 7:00 pm - 8:00 pm: 6 odor complaints were verified on Live Oak area, High Plane, Diablo, Quincy St & Rangewood.	Odors occurred on Non-Operating hours.
8/28/2023	Monday	11:53 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 8:16 am - 11:30 am: 30 odor complaints from Val Verde, 16 verified on Lincoln, Jackson, Taft Crt, Harding, Keningston Rd, San Martinez Rd, Hunstuck, Cottage Grv Dr & Arlington St. Odor of LFG Mix with Trash.	All odor control operating properly.
8/29/2023	Tuesday	1:57 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 5:30 am - 1:30 pm: 19 odor complaints 7 verified, out from those seven 6 were from Val Verde, on Lincoln, Cottage Grove, Evans & final one on Springvale in Castaic area, odor of LFG.	All odor control operating properly.
8/30/2023	Wednesday	12:28 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 6:45 am - 11:58 am: 9 odor complaints from Val Verde, 7 verified on Lincoln, Cottage Grove Dr, San Martinez Dr & Hunstuck St, odor of LFG.	All odor control operating properly.
8/31/2023	Thursday								

September 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
9/1/2023	Friday	11:13 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina)** 1:51 am - 9:59 am; 27 odor complaints from Val Verde & Castaic, 9 verified on Lincoln, Harding, Jackson, Chiquito Cyn Rd, Taft & Rangewood Rd in the Live Oak Community.	All odor control operating properly.
9/2/2023	Saturday								
9/3/2023	Sunday								
9/4/2023	Monday								
9/5/2023	Tuesday	10:00 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Karen)** 8:00 am - 9:30 am: 11 odor complaints from Val Verde 7 verified on Lincoln Ave, Silver St, Jackson, Harding & Taft	All odor control operating properly.
9/6/2023	Wednesday	-	AQMD	**-**	Odor	**-**	**-**	AQMD: No notes were given.	All odor control operating properly.
9/7/2023	Thursday	11:28 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Gerardo)** 3:30am - 10:25am; 25 odor complaints from Val Verde & Castaic, 8 verified on Lincoln, Harding, Cottage Grove, Jackson & Marvin, Odor of LFG.	All odor control operating properly.
9/8/2023	Friday	10:22 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Aaron)** 8:30am - 9:30am; 9 odor complaints from Val Verde, 9 were verified on Lincoln, Hayes, Taft, Cottage Grove & Buchanan, Odor of LFG.	All odor control operating properly.
9/9/2023	Saturday								
9/10/2023	Sunday								
9/11/2023	Monday								
9/12/2023	Tuesday	12:05 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Hugo Campos)** 9:30am - 11:00am; 11 odor complaints from Val Verde, 6 verified on Lincoln, Chiquito Cyn & Jackson, odor of LFG.	All odor control operating properly.
9/13/2023	Wednesday	11:36 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Heidee & Christina)** 5:48 am - 11:16 am; 27 odor complants from Val Verde, 6 verified on Lincoln, Chiquito Cyn & Jackson, odor of LFG.	All odor control operating properly.
9/14/2023	Thursday	12:10 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Karen Wonllard)** 6:20 am - 11:42 am; 7 odor complaints from Val Verde, 7 verified on Lincoln, Harding, Evans Crt & Crawford in Castaic.	All odor control operating properly.
9/15/2023	Friday	-	AQMD	**-**	Odor	**-**	**-**	AQMD: No notes were given	All odor control operating properly.
9/16/2023	Saturday								
9/17/2023	Sunday								
9/18/2023	Monday								
9/19/2023	Tuesday	12:49 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Adam Martinez)** 8:00 am - 10:00 am: 24 odor complaints, 7 verified on Linoln, Buchanan & Madison, odor of a sour smell.	All odor control operating properly.

9/20/2023	Wednesday	10:05 AM	AQMD	***In Person***	*Odor*	***N/A***	***N/A***	**AQMD (Larry)** 8:00am; 50 odor complaints from Val Verde, Hasley Hills & Live Oak. Teachers from Placemaker Preschool in Live Oak complaint of strong odors, 13 children had to be place in shelter due to odors.	All odor control operating properly.
9/21/2023	Thursday	11:35 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Christina)** 3:38 am - 10:48 am: 11 odor complaints from Val Verde, 2 were verified on Conquer & Rangewood Rd, odor of LFG. Larry Israel verified 4 odor complaints after 10:00 pm in Wakefield, Cambridge Ave, Langley Place, Castlebury Place, odor of LFG.	All odor control operating properly.
9/22/2023	Friday	11:43 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Justin)** 6:05am; 16 odor complaints, 6 verified on Linve Oak, Rangewood Lane, Stage Line, Jackson, San Martinez, odor of LFG	All odor control operating properly.
9/23/2023	Saturday								
9/24/2023	Sunday								
9/25/2023	Monday	10:45 AM	AQMD	***Text***	Odor	***N/A***	***N/A***	**AQMD (Larry):** Yesterday morning Christina and Justin had verified 4 odor complaints in the morning hours: 2 from Val Verde (Jackson st and San martinez rd) and 2 from Live Oak (Rangewood and Stageline). Last evening between 6:30pm-8pm were received 32 complaints from Hasley Hills Williams Ranch and Hillcrest residential communities. I Responded and verified at least 10 distinct to strong landfill gas odors.	All odor control operating properly.
9/26/2023	Tuesday								
9/27/2023	Wednesday	7:16 AM	AQMD	***Email***	Odor	***N/A***	***N/A***	**AQMD (Christina)**: Tuesday, 9-26-2023, the complaints came in from around 6 - 9 p.m. from the Hasley Hills community. I confirmed 3 in the following streets: Castlebury Pl and Springvale Ln. At the time the odors detected were landfill gas odors which I was able to trace back to Chiquita Canyon Landfill One of our inspectors had confirmed four (4) unique odor complaints (landfill gas) during the morning hours on Tuesday September 26th as follows: 3 in Val Verde (Lincoln Avenue and Jackson Street) and one (1) in Hasley Hills on Gibraltar Lane. The odors were verified prior to 11am	All odor control operating properly.

9/27/2023	Wednesday	11:00 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Hugo)** 12:00am -3:00am; 8 Odor complaints, 8 Verified on Firebrand Rd, Hillcreast, Madrid Place, 2 Lincoln Ave, 1 San Rimos Place, Arlington, Mallarca Pl & Hasley Cyn.	All odor control operating properly.
9/28/2023	Thursday	12:00 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Beverly)** 6:43am -11:09am; 21 Odor complaints, 9 verified in Chiquito Canyon, Buchanan, Lincoln & Cottage Grv, odor of LFG.	All odor control operating properly.
9/29/2023	Friday								
9/30/2023	Saturday								

October 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
10/1/2023	Sunday								
10/2/2023	Monday	-	AQMD	-	Odor	-	-	**AQMD:** No notes were given	All odor control operating properly.
10/3/2023	Tuesday	-	AQMD	-	Odor	-	-	**AQMD**: No notes were given	All odor control operating properly.
10/4/2023	Wednesday	11:46 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Justin)**: 15 complaints received, 7 were verified from Val Verde, Cottage Grove, Harding, Jackson, Rangewood and Live Oak, order of LFG/ Trash.	All Odor control operating properly.
10/5/2023	Thursday	10:40 AM	AQMD	***In Person***	Odor	*N/A*	*N/A*	**AQMD (Daniel)**: 9 Complaints received (4:17am-8:54am). LFG odor 7:37 am-9:58am in Cottage Grove, Lincoln Ave, Harding, Evan st, Jackson.	All Odor control operating properly.
10/6/2023	Friday	2:45 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry)**: 7 complaints were received. 6 from Val Verde (6:18am), 1 from Castaic (9:42 am). None were confirmed.	All Odor control operating properly.
10/7/2023	Saturday								
10/8/2023	Sunday								
10/9/2023	Monday	-	AQMD	-	Odor	-	-	**AQMD:** No notes were given	All odor control operating properly.
10/10/2023	Tuesday	12:28 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Adam Martinez)**: Between the hours of 08:46 and 11:27 on 10/10/23 the South Coast AQMD received 22 complaints of which 10 were verified. Locations include: Lincoln Avenue, Buchanan Way, Jackson Street, Harding Avenue, Chiquito Canyon Road, San Martinez Road (Val Verde) and Castlebury Place (Hasley Hills)	All Odor control operating properly.
10/11/2023	Wednesday								
10/12/2023	Thursday								
10/13/2023	Friday	3:00 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Hugo Campos)**: Hard copy will be sent certified mail. 18 complaints received between the hours of 6:57am to 12:00pm. 10 were confirmed on the following locations; 2 on Chiquito Canyon rd, 1 Elk Ave. 1 Lomita, 3 on Lincoln ave, 2 on Harding, and 1 on Jackson.	All Odor control operating properly.
10/14/2023	Saturday								
10/15/2023	Sunday								
10/16/2023	Monday	11:41 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Justin):** 15 odor complaints, 6 verified between the hours of 7:30am-11am in the VV community; Harding, Jackson st, Lincoln odor of LFG.	All Odor control operating properly.

10/16/2023	Monday	12:05 PM- 12:27 PM	Val Verde Residents	***Hotline***	*Odor*	***N/A***	***N/A***	**Estella Ramirez (12:05pm)** Location: San Martinez Rd There Is Very Bad Smell Out Here. **Nabwire Butali (12:18pm)** Location: 30525 S Martinez Rd Report Odor. It Is Very Nauseating. It Started At 11am And Pretty Strong Today. I Have Closed Up House And Windows And Can Still Smell The Odor. Very Nauseating. **Carol Benitez (12:27pm)** Location: 29016 Lomita Dr, 91384 I Am Reporting An Odor That's Been Around For Three Days	All Odor control operating properly.
10/17/2023	Tuesday	9:09 AM	Business	***Hotline***	Odor	***N/A***	***N/A***	**Elizabeth Nivarro** Universal Pain Management Location: Kelly Johnson Parkway The Smell Is Disgusting, We Can Smell It All The Way In The Office.	All Odor control operating properly.
10/18/2023	Wednesday	8:36 AM	AQMD	***Email***	Odor	***N/A***	***N/A***	**AQMD (Daniel Woo):** I was able to verify 6 starting from 8:49pm-10:38pm in the Val Verde community. Another inspector was able to verify 1 complaint during the day which was also located in the Val Verde community. I received 12 complaints in the evening and from what I can see, it looks like we received 22 complaints during the day. (from 10/17/23)	All Odor control operating properly.
10/18/2023	Wednesday	2:40 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD: (Daniel del Rosario)** 36 complaints were received on 10/18/23 from 4:40am-11:13am and 6 were confirmed by 12:53pm on Lincoln Ave, Chiquito Cyn rd and Harding**.**	All Odor control operating properly.
10/19/2023	Thursday	12:32 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD: (Karen Woullard)** 18 complaints received on 10/19/23 from 6:57am to 11:53am; 7 were verified on Lincoln ave, Chiquito Cyn rd, Cottage grove, San Martinez & Harding ave. Faint trash odor.	All Odor control operating properly.
10/20/2023	Friday	11:09 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Laurie Ultan-Thoman** I'd Like To Report Extremely Bad Air Quality. The Gasses From The Landfill Are Blowing Through. It's Really Horrific.	All Odor control operating properly.
10/20/2023	Friday	12:35 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD: (Vincent Mota)** 16 complaints received on 10/20/23 from 8:40am to 11:55am; 7 were verified in the Val Verde community. Moderate LFG odor.	All Odor control operating properly.
10/21/2023	Saturday								
10/22/2023	Sunday								

10/23/2023	Monday	9:01 AM- 9:45 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Laurie Ultan-Thomas** Location: 29155 Grange Wood Road Smell From The Landfill Is Very Strong **Amy Lombardo** Location: Off Of Valley Glen 3 Mile Back Canyon The Odor Today Is Really Bad. **Elizabeth Navarro** Location: Walmart Near Kelly Johnson Pkwy The Smell In This Area Is Terrible And Irritating	All Odor control operating properly.
10/23/2023	Monday	-	AQMD	**-**	Odor	**-**	**-**	**AQMD:** No notes were given	All odor control operating properly.
10/24/2023	Tuesday	2:35 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Daniel del Rosario)** 40 Odor Complaints were received of LFG, Trash, Methane & Chemical between the hours of 6:11am-12:31pm. 1 was verified on Hunstock.	All Odor control operating properly.
10/25/2023	Wednesday	7:44 AM- 8:07 AM	Residents	***Hotline***	Odor	***N/A***	***N/A***	**Michelle Sypher** Location: Castaic I Would Like To Report That We Are Smelling The Dump Evan At My House. **Laurie Duhart** Location: Williams Ranch The Smell Is Really Strong This Morning **Elisabeth Navarro** Location: Valencia ** 7 Call ** I Am Calling To File A Complaint. I Am Calling About The Smell. **Pamela Carnes** Location: 28226 Cascade Rd Zip 91384 I Am Calling To Make A Complain About Odor This Is Ongoing Since July **Kelly Bomar** Location: Oak Valley Road Stinks Really Bad This Morning Was Told To Notify Please Call	All Odor control operating properly.
10/25/2023	Wednesday	10:44 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Cristina Ojeda)** 44 odor complaints received and ongoing starting at 6:19am 1 verified in Castaic Elementary by Park Vista drive. Strong LFG odor.	All Odor control operating properly.

10/26/2023	Thursday	8:26 AM- 8:59 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**David Conwell** Location: 29859 Mule Deer Lane Smell From The Dump Is So Bad Cant Go Out For A Walk **Pamela Carnes** Location: 28226 Cascade Rd. Castic 2nd Call To Report That The Smell Is So Bad, I Have All My Windows & Doors Closed And The Smell Is Still So Bad Inside My House. **Nicki Hann** Im Smelling Of Gas Today And I Think Probably Because Of The Weather, The Taste In My Mouth. I Think I Will Have To Calll Health Department	All Odor control operating properly.
10/26/2023	Thursday	9:25 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Aaron Neuhauser)** 47 complaints received and ongoing staring at 7:30am. 4 were confirmed including Castaic Elementary School. The odor was strong LFG. The places where I confirmed the odors came from Hartford Ave, Saguaro St, Rangewood Rd, and Park Vista Dr.	All Odor control operating properly.
10/27/2023	Friday	11:52 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Araceli Gil Rojas):** 25 complaints received and ongoing staring at 9:30am. Complaints came from Val Verde, Lincoln Ave, Jackson st, Chiquito, & Hunstock. 7 were confirmed.	All Odor control operating properly.
10/28/2023	Saturday	10:35 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Kristen Vincent** Location: Live Oak Brown Haze In The Air. The Air Is Making Me Sick. (From 10/27/23; 7:06pm)	All Odor control operating properly.
10/29/2023	Sunday								
10/30/2023	Monday								
10/31/2023	Tuesday	11:49 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Daniel Woo):** Received 4 complaints in Val Verde from 8:55am-11:20am by Lincoln and Jackson Ave of LFG. 1 was confirmed on Lincoln ave. at 10:30am.	All Odor control operating properly.

November 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
11/1/2023	Wednesday								
11/2/2023	Thursday	12:00 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Karen Woullard):** 11 odor complaints received from 8:15am to 11:18am from Lincoln, Harding, Cottage grove, Hunstock, Buchannan and Springvale. Moderate LFG and Trash odor. 6 verified.	All Odor control operating properly.
11/2/2023	Thursday	4:02 PM	Resident	***Hotline***	Air Purifier	***N/A***	***N/A***	**Rebecca Stone** Location: Hasley Hills I Registered On The Website About The Air Purifier & Never Heard Back.	2 air purifiers were picked up on 11/03/2023.
11/3/2023	Friday								
11/4/2023	Saturday	12:21 PM/ 8:27 PM	Residents	***Hotline***	Odor	***N/A***	***N/A***	**Carol Benitez** Location: 29016 Lomita Drive Im Calling To Report An Odor **Emmanuel** Location: 29016 Lomita Drive They Have An Odor Coming From The Landfill.	All Odor control operating properly.
11/5/2023	Sunday	10:49 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Manuel Benitez** Location: 29016 Lomita Dr We Are Getting The Smell Here.	Odor Complaint was made on Non Operating hours.
11/6/2023	Monday	9:05 AM 1:07 PM 10:14 PM	Business/ Residents	***Hotline***	Odor	***N/A***	***N/A***	**Elizabeth N** **Universal Pain Management** I Work At Universal Pain Management On Kelly Johnson Parkway And The Odor From The Landfill Is Overwhelming. Our Patients Are Even Complaining About The Smell. **Estela Castellanos** Location: 29710 Cambridge Avenue It Smells Very Bad Outside From Trash **Laurie Ultan-Thomas** Location: Live Oaks Neighborhood Bad Smell In The Area Coming From Landfill	All Odor control operating properly.
11/6/2023	Monday	11:48 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Arely Gil Rojas):** 27 odor complaints received from 8am to 11:26am; coming from Lincoln ave, cottage grove dr, Cromwell, Jackson st, Chiquito Canyon and Gilbrahar in Castaic. 7 confirmed. Moderate LFG.	All Odor control operating properly.
11/7/2023	Tuesday	8:29 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Carol Benitez** Location: 29016 Lomita Drive Reporting Odors	All Odor control operating properly.

11/7/2023	Tuesday	1:48 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Daniel del Rosario):** 47 odor Complaints received from 1:39am to 10:07am from the Val Verde area. 3 were verified. Faint trash and LFG on cottage grove, Jackson and Lincoln	All Odor control operating properly.
11/8/2023	Wednesday								
11/9/2023	Thursday								
11/10/2023	Friday	10:01 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Carol Benitez** Location: 29016 Lomita Drive Reporting A Bad Order From Land Field	All Odor control operating properly.
11/10/2023	Friday	1:15 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Larry Israel)**: 20 complaints received starting at 9am. 7 were verified in Valverde. LFG/Leachate odor.	All Odor control operating properly.
11/11/2023	Saturday								
11/12/2023	Sunday								
11/13/2023	Monday	11:40 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD: (Tung Allen Vu)** 15 odor complaints received from 9:45am to 11:00am From Val Verde area (Lincoln ave, Chiquito Canyon rd) 6 were verified of strong LFG odor.	All Odor control operating properly.
11/14/2023	Tuesday	12:40 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD: (Hugo Campos)** Received 10 odor complaints in the Val Verde area from 8:50am to 10:00am 6 confirmed, (Buchannan way 1, Lincoln 2, Jackson st 1 and Harding ave 2). Strong LFG odor.	All Odor control operating properly.
11/14/2023	Tuesday	12:55 PM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Carol Benitez** Location: 29016 Lomita Drive Castaic Ca 91384 Reporting An Odor In My Area	All Odor control operating properly.
11/15/2023	Wednesday	1:15 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Daniel del Rosario)** 30 odor complaints received between 7:28 am-11:48 am 6 confirmed (2 in Lincoln, 1 cottage Grove, 1 Harding ave, 1 Cromwell ave, 1 Avenue Sherman). LFG/trash faint odor.	All Odor control operating properly.
11/16/2023	Thursday	9:27 AM	Resident	***Hotline***	Air Purifier	***N/A***	***N/A***	**Danielle Jimenez** Location: Williams Ranch Community I Am Calling About Some Air Filters/ Purifiers And On Going Oder I Need To Know If Landfill Is Compensating	2 air purifiers were picked up on 11/22/2023.
11/16/2023	Thursday	11:20 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Heidee de la Cruz)** 89 odor complaints received staring at 7:14am from hayward dr, Hasley Cyn, Livingstone dr, lincoln ave. 6 verified of LFG odor.	All Odor control operating properly.

11/17/2023	Friday	12:16 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Justin Buncab)** 8 odor complaints received between 8:30am - 12:00pm. 2 confirmed of moderate LFG in Lincoln ave and 1 in live oak rangewood Castaic.	All Odor control operating properly.
11/17/2023	Friday	1:41 PM 3:10 PM	Residents	***Hotline***	Odor	***N/A***	***N/A***	**Michael Nave** Location: 29752 Silver Street There Is A Smell Coming From The Landfill To My House **Carol Benitez** Location: 29016 Lomita Drive Calling To Report Landfill Oder.	All Odor control operating properly.
11/18/2023	Saturday	6:46 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Jamie Mesa** Location: Hasley Hills In Castaic Smell Coming From The Landfill	All Odor control operating properly.
11/19/2023	Sunday								
11/20/2023	Monday								
11/21/2023	Tuesday								
11/22/2023	Wednesday								
11/23/2023	Thursday	11:45 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Cheryl Arabalo** (Residential) Location: 29736 Cambridge Ave-Castaic, Ca The Smell From Your Landfill Is Horrendous Today. I'm Cooking A Turkey And Can Still Smell The Terrible Odor. I'm Having 20 People For Dinner And You're Ruining Our Day! On-Going Problem	Odor Complaint was made on Non-Operating hours.
11/24/2023	Friday								
11/25/2023	Saturday								
11/26/2023	Sunday								
11/27/2023	Monday								
11/28/2023	Tuesday	10:43 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Karen Woullard):** 21 odor complaints received between 6:50am-10:25am. 7 confirmed on Harding, Hunstock, Buchannan, Lincoln & Cottage grove.	All Odor control operating properly.

11/29/2023	Wednesday	11:57 AM 5:51 PM 7:06 PM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Stephanie Hamburger** Location: Top Of Hillcrest Parkway I Am Calling To File A Complaint About A Landfill Near Where I Live Because The Odor Is Quite Bad. I Don't Live Super Close And I've Lived Here For 20 Years And Never Smelled It Before. **Raquel Villalobos** Location: Commerce Center Dr. There Is An Odor That Smells Like A Porta Potty. **Lourie Thomas** Location: Chiquita Landfill Report Smelly Air From Landfill. Whole Neighborhood Smells Awful	All Odor control operating properly.
11/29/2023	Wednesday	12:08 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Daniel Woo)** 41 odor complaints received between 8:54am - 11:33am 8 confirmed in Val Verde on Chiquito Canyon, Lincoln, Cottage grove and Lexington.	All Odor control operating properly.
11/30/2023	Thursday	12:30 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Hugo Campos)** 5 Odor complaints received for the following: Jackson, Cottage Grove, Chiquito Canyon and Castaic Elementary School. 5 confirmed of Strong LFG, all odors verified between 10:00am-11:00am, including Castaic Elementary School.	All Odor control operating properly.

December 2023 Complaint Log

Date	*Day*	*Time of the Complaint*	*Who Complained or approximate location*	*How was the Complaint Received*	*Nature of complaint*	*Action taken to Identify complaint*	Response from Chiquita (who/when)	Complaint	Final resolution
12/1/2023	Friday								
12/2/2023	Saturday	5:48 PM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Laura Thomas** Location: Live Oak Community Very Awful Strong Smell Coming From The Chiquita Canyon Landfill.	Odor Complaint was made on Non Operating hours.
12/3/2023	Sunday	9:30 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Sandra Torres** Location: 28652 Lincoln Avenue Reporting A Gas Smell. Coming From Landfill. Needing Further Assistance.	Odor Complaint was made on Non Operating hours.
12/4/2023	Monday	7:43 PM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Jackie Willen** I Am Having An Issue With The Smellof The Landfill.	Odor Complaint was made on Non Operating hours.
12/5/2023	Tuesday								
12/6/2023	Wednesday	11:45 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Araceli Gil Rojas):** 14 odor complaints received between 7:30am -11am Coming from Valverde and Castaic; Chiquito Cyn, Lincoln Ave, Harding, Parker road, Valley Glen st, San Martinez, Royal, Arlington st; 6 were verified of moderate LFG. 1 odor complaint received from Fillmore (Ventura County) on Cherry wood not verified.	All Odor control operating properly.
12/6/2023	Wednesday	4:09 PM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Carla Doss** Location: Live Oak Track Oder Is Super Bad. I Need A Call Back.	All Odor control operating properly.
12/7/2023	Thursday	12:25 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Hugo Campos):** 7 Odor complaints received between 7am-10am All 7 confirmed on Franklin Pkwy. LFG moderate odor.	All Odor control operating properly.
12/8/2023	Friday								
12/9/2023	Saturday								
12/10/2023	Sunday								
12/11/2023	Monday	11:28 AM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Estella Ramirez** Location: 30030 San Martinez Road There Is A Terrible Smell.	All Odor control operating properly.
12/12/2023	Tuesday	11:58 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Karen Woullard):** 25 odor complaints received between 7:58 am-11:53am. 7 were confirmed of strong trash odor at Hunstock, Lincoln Ave, Harding, Cottage Grove & Jackson st	All Odor control operating properly.
12/13/2023	Wednesday								

12/14/2023	Thursday	12:20 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Daniel Woo):** 9 odor compliants received between 8:50am-10:00am coming from Val Verde and 1 from live oak elementary school. None were verified.	All Odor control operating properly.
12/15/2023	Friday								
12/16/2023	Saturday								
12/17/2023	Sunday								
12/18/2023	Monday	7:24 AM - 12:23 PM	Residents	***Hotline***	Odor	***N/A***	***N/A***	**Jackie Willen** Location: Hasley Canyon Need To Make A Complaint, The Smell Is Horrid **Julie Checketts** Location: 30086 Valley Glen St. Castaic, Ca 91384 Reporting Landfill Odor **Pamela Carnes** The Odor Is Overwhelming. **Greg Mark** Location: Ashby Ct Im Near 5 Freeway Halsey Canyon Calling Re The Odor Coming From The Dump We Have No Wind Here At All, I Can Smell It Here	All Odor control operating properly.
12/18/2023	Monday	12:17 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Niyati Rami):** 60 odor Complaints were received between 7:53am -10:59am from Valverde & Castaic. 6 verified at Cottage Grove dr, Lincoln Ave, Jackson and Hunstock of LFG and Trash.	All Odor control operating properly.
12/19/2023	Tuesday	12:20 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Justin Kekona Buncab):** 6 complaints received between 7:15am-12:00pm coming from Castaic. 1 verified in Rangewood Castaic of LFG faint odor.	All Odor control operating properly.
12/20/2023	Wednesday								
12/21/2023	Thursday	8:34 AM-11:12 PM	Residents	***Hotline***	Odor	***N/A***	***N/A***	**Kiki Helland** Location: 29645 Baringer Rd I'm In Romero Canyon, Just Bordering The New High School. The Smell Is So Strong That I Can Taste It. Daughter Lives Next Door; Dropped Her Son Off At Daycare, Hasley & Canyon, It Smells Like That Too **Ryan Harper** Location: Castaic Im Calling To Report The Smell	All Odor control operating properly.

12/22/2023	Friday	12:15 PM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Hugo Campos):** 10 odor complaints received between 8am - 10am 7 were confirmed. 5 in Valverde (Jackson st 1, Hunstock st 2, Creekbed rd 1, Elk ave 1) and 2 in Castaic (Crawford Pl and Madrid Pl). Trash, LFG and feces.	All Odor control operating properly.
12/23/2023	Saturday								
12/24/2023	Sunday								
12/25/2023	Monday								
12/26/2023	Tuesday								
12/27/2023	Wednesday	5:33 AM - 3:34 PM	Resident	***Hotline***	Odor	***N/A***	***N/A***	**Elizabeth Jeffords** Location: Casaic , California No One Has Returned My Calls. I've Been Calling. Can Someone Please Call Me. There Is A Toxic Leak At Chiquita Canyon Landfill. I've Been Calling Since April. Why Is No One Calling Me Back. Call Me. **Emma Norihiro** Location: Valverde For The Past 3 Days The Odor Has Been Really Bad. My Other # Is 6616454004 **Lisa** Live View G.P.S. Location: Valencia Industrial Park Avenue Sherman Smell From Landfill Is Really Bad Today **Gina Allard** Location: Hartford Ave Wanting To Some Information On The Smell Of The Trash Dump.	All Odor control operating properly.
12/27/2023	Wednesday	14:35	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Evan Landi):** 6 odor complaints confirmed in the Valverde community. Inspector refused to say the total number of complaints received, odor type, time frame and the street names odor was confirmed.	All Odor control operating properly.
12/28/2023	Thursday								
12/29/2023	Friday	11:46 AM	AQMD	***In Person***	Odor	***N/A***	***N/A***	**AQMD (Araron Neuhauser)** 12 odor complaints received between 10:30am-11:15am. 6 were confirmed on Chiquito cyn and Lincoln ave. of LFG odor (moderate).	All Odor control operating properly.
12/30/2023	Saturday								
12/31/2023	Sunday								

Appendix D
Archaeological and Paleontological Reports

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012
213-788-4842

January 3, 2024
Rincon Project No: 23-13873

Steve Cassulo
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384-2705
Via email: Steven.Cassulo@WasteConnections.com

Subject: 2023 Archaeological Monitoring Report for the Chiquita Canyon Landfill Cell 8 Project, Los Angeles County, California

Dear Mr. Cassulo:

Rincon Consultants, Inc. (Rincon) is pleased to present this construction monitoring report documenting archaeological monitoring conducted in 2023 for the Cell 8 Project at Chiquita Canyon Landfill. This report presents the results of the archaeological resources monitoring conducted by Rincon under contract to Chiquita Canyon, LLC, during construction of the Project at Chiquita Canyon Landfill, located in the unincorporated community of Castaic, Los Angeles County, California. All work was conducted as stated in the Cultural Resources Monitoring Plan (CRMP) (Paleo Solutions 2018) and in compliance with the California Environmental Quality Act (CEQA); the California Public Resources Code (PRC); local regulations; Mitigation Measures (MMs) CR-1 to MM CR-3 and MM CR-9 of the Project's Final Environmental Impact Report (FEIR) (County of Los Angeles 2017); and the archaeological resources requirements of Condition No. 95 of the Project's Conditional Use Permit (CUP No. 2004-00042) and associated Implementation and Monitoring Program (IMP) Part IX. This work was required by the Los Angeles Department of Regional Planning (LADRP) to fulfill their requirements as the lead agency under CEQA.

Project Location and Description

The Chiquita Canyon Landfill is an existing Class III (municipal solid waste) waste facility located in northwestern Los Angeles County near the community of Castaic, California. The project is located at 29201 Henry Mayo Drive on approximately 639 acres. The site is bounded by California SR-126 to the south, Chiquita Canyon Road to the west, Franklin Parkway to the east, and Hunstock Street and Livingston Avenue to the north (Figure 1). The project site lies within Sections 10, 11, 14, and 15, Township 4 North, and Range 17 West of the United States Geological Survey 7.5-minute *Val Verde, California* Quadrangle (Figure 2).

The Project site is situated in the eastern Ventura Basin within the Transverse Range geomorphic province, which is characterized by east to west trending mountain ranges and valleys. The site is comprised of mostly mountainous terrain with elevations ranging between approximately 950 feet above mean sea level (amsl) in the southern portion to approximately 1,640 feet amsl near the northern portion.

The Project will increase the permitted waste footprint within the existing property lines of the CCL by approximately 143 acres, expanding the waste footprint from 257 acres to 400 acres and will include other improvements to facilitate operation of the landfill.

The Cell 8 Project consisted of work associated with Cell 8, Cell 8A, South Borrow Site, Cell 7, and North Borrow Site.

Construction activities associated with the Cell 8 Project included two categories of work requiring monitoring: excavation and grading, both of which used heavy equipment to include six (6) wheel tractor scrappers, one (1) dozer, one (1) motor grader, one (1) loader truck, one (1) metal roller compactor, and one (1) water wagon.

Regulations

Los Angeles County

Los Angeles County regulations pertaining to cultural resources in the Conservation and Natural Resources Element of the County of Los Angeles General Plan (County of Los Angeles 2015). The Plan recognizes cultural resources as non-renewable and irreplaceable and that are an important part of the County's identity. The general plan includes six (6) policies to protect cultural resources:

- **Policy C/NR 14.1:** Mitigate all impacts from new development on or adjacent to historic, cultural, and paleontological resources to the greatest extent feasible.
- **Policy C/NR 14.2:** Support an inter-jurisdictional collaborative system that protects and enhances historic, cultural, and paleontological resources.
- **Policy C/NR 14.3:** Support the preservation and rehabilitation of historic buildings.
- **Policy C/NR 14.4:** Ensure proper notification procedures to Native American tribes in accordance with Senate Bill 18 (2004).
- **Policy C/NR 14.5:** Promote public awareness of historic, cultural, and paleontological resources.
- **Policy C/NR 14.6:** Ensure proper notification and recovery processes are carried out for development on or near historic, cultural, and paleontological resources.

Cultural Resources Mitigation Measures

The Project's FEIR specifies MMs CR-1, CR-2, CR-3, and CR-9 that shall be implemented to protect known resources and avoid inadvertent impacts to archaeological resources during construction. The mitigation measures are:

- **CR-1.** A qualified archaeologist will flag off the area around Bowers Cave and establish a buffer in consultation with the Permittee to ensure avoidance of grading of the cave site. Grading plans will clearly depict the sensitive area and state that grading must not occur beyond the established buffer. The qualified archeologist will monitor earth-moving activities that would occur within 100 feet of the established buffer.
- **CR-2.** Prior to the start of monitoring activities, a Cultural Resources Monitoring Plan (CRMP) will be developed. The CRMP will include, at a minimum: (1) the location of areas to be monitored, (2) frequency of monitoring, (3) description of resources expected to be encountered, (4) description of circumstances that would result in a construction halt, (5) description of monitoring reporting requirements, and (6) disposition of found/collected materials. (*Note: the preparation of this CRMP fulfills this mitigation measure*).
- **CR-3.** Native American consultation has indicated that Bowers Cave and the surrounding region may be important to local Native Americans, specifically Tataviam. Provisions will be made to provide cave access to interested Tataviam, and Tataviam will have the option to provide a construction oversight monitor during ground-disturbing activities. The Tataviam monitor will act

as a liaison between archaeologists, the Permittee, contractors, and public agencies to ensure that cultural features are treated appropriately from the Tataviam point of view. All artifacts that may be found will be returned to the Tataviam or reinterred into the earth.

- **CR-9.** The monitor shall maintain daily monitoring logs. A final technical report of results and findings shall be prepared by the archaeologist and included with the material submitted for curation (see above).

Conditional Use Permit (2004-00042), Condition No. 95

The permittee shall develop and implement a program to identify and conserve all significant archaeological and paleontological materials found at the CCL facility, pursuant to Part IX of the IMP. If the permittee finds any evidence of aboriginal habitation or fossils during earthmoving activities, Landfill operations shall immediately cease in that immediate area, and the evidence and area shall be preserved until a qualified archaeologist or paleontologist, as appropriate, makes a determination as to the significance of the evidence. The Department of Regional Planning will review and approve this program if the determination indicates that the archaeological or paleontological resources are significant, the resources shall be recovered to the extent practicable, prior to resuming Landfill operations in that immediate area of the Landfill.

IMP Part IX – Archaeological/Paleontological Monitoring

The Permittee shall implement the monitoring program described in this Part IX to conserve archaeological and paleontological resources as required by Condition No. 95 of the Grant.

A. Before commencing grading activities in previously undisturbed areas, the Permittee shall nominate to the Director of the Department of Regional Planning, both a certified archaeologist and a qualified paleontologist from the Society of Professional Archaeologists which the Permittee intends to retain to perform the monitoring and conservation work required by this Part IX and Condition No. 95 of the Grant. If approved by the Director of the Department of Regional Planning, the archaeologist and paleontologist shall both submit a letter to the Director of the Department of Regional Planning stating that he/she has been retained to perform or supervise the work described herein, and that he/she agrees to report any failure of compliance with the Grant or this Part IX to the Director of Regional Planning.

B. The archaeologist and the paleontologist shall each submit a written report to the Permittee to be included in the Permittee's annual monitoring report required by Part XIII of the IMP for as long as on-site excavation activity continues at the Facility.

C. If either the archaeologist or paleontologist terminates employment before completion of the excavation work associated with the Facility, a replacement expert shall be selected, approved, retained, and certified as described in this Part IX.

Cultural Resources Within the Project Site

Record Search results and field surveys indicate that there are no known cultural (prehistoric, historic, or historic built environments) resources previously recorded within the Cell 8 Project locations. There is one (1) previously recorded archaeological site, located within the CCL facility: “Bowers Cave” (CA-LAN-36). Bowers Cave is a prehistoric Native American site that was first documented in 1952 by Richard Van Valkenburgh, who described the discovery of the cave’s objects as containing a cache of Native American artifacts, including baskets, feather robes, headdresses, stone axe heads, quartz crystals, obsidian knife blades, and four “wands or scepters” (Paleo Solutions 2018). Construction activities associated with the Cell 8 Project were not conducted near or adjacent to Bowers Cave,

therefore, there were no impacts or alterations to the cave, as specified in the Project's mitigation measures.

Methods

Worker Environmental Awareness Program (WEAP)

On May 10, 2023, Rincon Paleontologist/Assistant Project Manager Andrew McGrath conducted a Cell 8 Project Worker's Environmental Awareness Training, prior to the commencement of grading activities, as specified in the Project's CRMP Section 7.1 Pre-construction worker training (Attachment 1). The training included a PowerPoint presentation and handout that focused on archaeological and paleontological resources (fossils) and unique geological features that may be encountered during earthmoving activities, and the procedures to be followed in such an event; the duties of archaeological/paleontological monitor; notification and other procedures to follow upon discovery of archaeological or paleontological resources; and, the general steps a qualified professional archaeologist or paleontologist would follow in conducting on-site archaeological investigation if one is necessary.

Construction Monitoring

Construction monitoring was conducted in undisturbed areas (surface and subsurface) and in areas previously identified as having a moderate to high sensitivity for archaeological (prehistoric and historic) resources, as specified in the Project's CRMP.

Rincon provided an archaeological construction monitor during earthmoving operations for the Cell 8 Project to identify, record, and evaluate newly discovered archaeological (prehistoric and historic) resources encountered during construction, as specified by MMs CR-1 through CR-3 and MM CR-9, and the Project's CRMP. Rincon conducted archaeological monitoring for the Cell 8 Project on non-consecutive days from May 10 to September 11, 2023, for a total of 816 (non-consecutive) days.

Rincon's archaeological monitor examined the excavated areas for the presence of prehistoric artifacts (e.g., chipped stone tools and production debris, stone milling tools, ceramics), historic debris (e.g., metal, glass, ceramics), or soil discoloration that might indicate the presence of an archaeological feature, a new archaeological site, or isolate. The archaeological monitor examined all floors, sidewalls, and spoils piles for the presence or absence of archaeological (prehistoric and historic) resources within native soils at depth(s), as specified in MM-CR-1 and the CRMP.

The archaeological monitor also prepared a Daily Monitoring Report that summarized the daily results of the monitoring effort for the Cell 8 Project. The Daily Monitoring Report was prepared by the archaeological monitor and included information such as soils conditions, resource yields (if any), depth, type of excavation activity, and photographs, as specified by MM-CR-1 and the CRMP. The Daily Monitoring Reports are found in Attachment 2.

Table 1 Cell 8 Project: Daily Monitoring Activities and Findings

Date	Monitor(s)	Construction Activity Monitored	Compliance Issues? (Yes or No. If Yes, explanation included)
5/10/23	Andrew McGrath	Grubbing	No
5/11/23	Andrew McGrath	Soil excavation	No
5/15/23	Pedro Garcia Jimenez	Soil excavation	No
5/16/23	Pedro Garcia Jimenez	Soil excavation	No
5/17/23	Pedro Garcia Jimenez	Soil excavation	No
5/18/23	Pedro Garcia Jimenez	Soil excavation	No
5/19/23	Pedro Garcia Jimenez	Soil excavation	No
5/22/23	Pedro Garcia Jimenez	Soil excavation	No
5/23/23	Pedro Garcia Jimenez	Soil excavation and grading	No
5/24/23	Pedro Garcia Jimenez	Soil excavation	No
5/25/23	Pedro Garcia Jimenez	Soil excavation and grading	No
5/26/23	Pedro Garcia Jimenez	Soil excavation and grading	No
5/30/23	Pedro Garcia Jimenez	Soil excavation	No
5/31/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/1/23	Pedro Garcia Jimenez	Soil excavation	No
6/2/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/5/23	Pedro Garcia Jimenez	Soil excavation	No
6/6/23	Pedro Garcia Jimenez	Soil excavation	No
6/7/23	Pedro Garcia Jimenez	Soil excavation	No
6/8/23	Pedro Garcia Jimenez	Soil excavation	No
6/9/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/12/23	Pedro Garcia Jimenez	Soil excavation	No
6/13/23	Pedro Garcia Jimenez	Soil excavation	No
6/14/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/15/23	Pedro Garcia Jimenez	Soil excavation	No
6/16/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/19/23	Pedro Garcia Jimenez	Soil excavation	No
6/20/23	Pedro Garcia Jimenez	Soil excavation	No
6/21/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/22/23	Pedro Garcia Jimenez	Soil excavation	No
6/23/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/26/23	Pedro Garcia Jimenez	Soil excavation	No
6/27/23	Pedro Garcia Jimenez	Soil excavation and grading	No
6/28/23	Pedro Garcia Jimenez	Soil excavation	No
6/29/23	Pedro Garcia Jimenez	Soil excavation	No
6/30/23	Pedro Garcia Jimenez	Soil excavation	No
7/3/23	Pedro Garcia Jimenez	Soil excavation	No

Date	Monitor(s)	Construction Activity Monitored	Compliance Issues? (Yes or No. If Yes, explanation included)
7/5/23	Pedro Garcia Jimenez	Soil excavation	No
7/6/23	Pedro Garcia Jimenez	Soil excavation	No
7/7/23	Pedro Garcia Jimenez	Soil excavation and grading	No
7/10/23	Pedro Garcia Jimenez	Soil excavation	No
7/11/23	Pedro Garcia Jimenez	Soil excavation	No
7/12/23	Pedro Garcia Jimenez	Soil excavation	No
7/13/23	Pedro Garcia Jimenez	Soil excavation	No
7/14/23	Pedro Garcia Jimenez	Soil excavation	No
7/17/23	Pedro Garcia Jimenez	Soil excavation	No
7/18/23	Pedro Garcia Jimenez	Soil excavation	No
7/19/23	Pedro Garcia Jimenez	Soil excavation	No
7/20/23	Pedro Garcia Jimenez	Soil excavation	No
7/21/23	Pedro Garcia Jimenez	Soil excavation	No
7/24/23	Pedro Garcia Jimenez	Soil excavation	No
7/25/23	Pedro Garcia Jimenez	Soil excavation	No
7/26/23	Pedro Garcia Jimenez	Soil excavation	No
7/27/23	Pedro Garcia Jimenez	Soil excavation	No
7/28/23	Pedro Garcia Jimenez	Soil excavation	No
7/31/23	Pedro Garcia Jimenez	Soil excavation	No
8/1/23	Pedro Garcia Jimenez	Soil excavation	No
8/2/23	Pedro Garcia Jimenez	Soil excavation	No
8/3/23	Pedro Garcia Jimenez	Soil excavation	No
8/4/23	Pedro Garcia Jimenez	Soil excavation	No
8/7/23	Pedro Garcia Jimenez	Soil excavation	No
8/8/23	Pedro Garcia Jimenez	Soil excavation	No
8/9/23	Pedro Garcia Jimenez	Soil excavation	No
8/10/23	Pedro Garcia Jimenez	Soil excavation	No
8/14/23	Pedro Garcia Jimenez	Soil excavation	No
8/15/23	Pedro Garcia Jimenez	Soil excavation	No
8/16/23	Pedro Garcia Jimenez	Soil excavation	No
8/17/23	Pedro Garcia Jimenez	Soil excavation	No
8/18/23	Pedro Garcia Jimenez	Soil excavation	No
8/23/23	Pedro Garcia Jimenez	Soil excavation	No
8/24/23	Pedro Garcia Jimenez	Soil excavation	No
8/25/23	Pedro Garcia Jimenez	Soil excavation and sediment compaction	No
8/28/23	Pedro Garcia Jimenez	Soil excavation	No
8/29/23	Pedro Garcia Jimenez	Soil excavation	No

Date	Monitor(s)	Construction Activity Monitored	Compliance Issues? (Yes or No. If Yes, explanation included)
8/30/23	Pedro Garcia Jimenez	Sediment compaction	No
8/31/23	Pedro Garcia Jimenez	Soil excavation	No
9/1/23	Pedro Garcia Jimenez	Soil excavation	No
9/6/23	Pedro Garcia Jimenez	Excavation and sediment export	No
9/7/23	Pedro Garcia Jimenez	Soil excavation	No
9/8/23	Pedro Garcia Jimenez	Soil excavation	No
9/11/23	Pedro Garcia Jimenez	Soil excavation	No

Results and Conclusion

No archaeological (prehistoric or historic) resources were discovered or recorded during the monitoring effort and there were no impacts to archaeological (prehistoric, historic, or built environments) resources under CEQA. Based on these findings, the project did not impact surface or buried cultural resources, as defined in the MMs and CRMP. No construction activities were conducted near or adjacent to Bowers Cave.

The Project has complied fully with all project-specific MMs, CRMP, and regulatory requirements regarding archaeological resources. No archaeological resources were encountered during monitoring and there were no impacts to prehistoric, historic and/or historical resources under CEQA.

Please do not hesitate to contact Rincon Consultants, Inc. if you have any questions regarding this monitoring effort.

Sincerely,
Rincon Consultants, Inc.



Andrea Ogaz, MA, RPA
Archaeologist/ Project Manager



Alyssa Newcomb MS, RPA
Cultural Resources Program Manager



Christopher A. Duran, MA, RPA
Principal Investigator

Attachments

Figure 1 Vicinity and Location Map
Figure 2 Topographic Map
Attachment 1 WEAP Sign-In Sheets
Attachment 2 Daily Monitoring Reports

References

CH2M Hill

2017 Chiquita Canyon Landfill Master Plan Revision: Final Environmental Impact Report. Prepared for the County of Los Angeles Department of Regional Planning, available at: http://planning.lacounty.gov/generalplan/generalplan

County of Los Angeles

2017 Los Angeles County Department of Regional Planning (LADRP). *Chiquita Canyon Landfill Master Plan Revision Final Environmental Impact Report*. Project No. R2004 00559 (5). SCH No. 2005081071. Project Proponent: Chiquita Canyon Landfill. Prepared by CH2M HILL, Inc., available at: http://planning.lacounty.gov/generalplan/generalplan

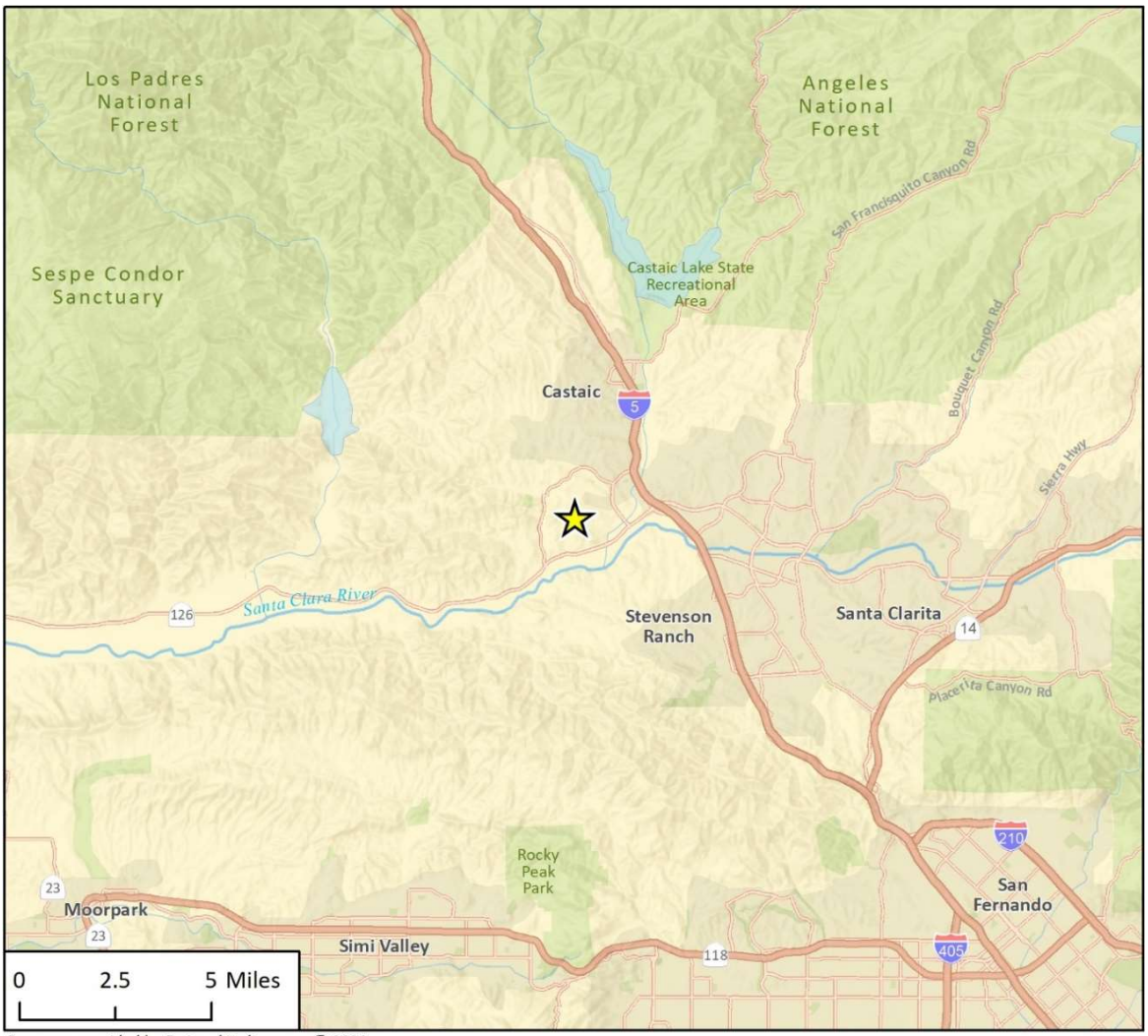
2015 Los Angeles County General Plan, available at: http://planning.lacounty.gov/generalplan/generalplan

Paleo Solutions, Incorporated

2018 Cultural Resources Monitoring Plan: Chiquita Canyon Landfill Expansion Project. Prepared for Los Angeles County Department of Regional Planning, on file at: South Central Coastal Information Center, California State University, Fullerton.

Figures

Figure 1 Vicinity and Location Map



Basemap provided by Esri and its licensors © 2021.

Project Location

N

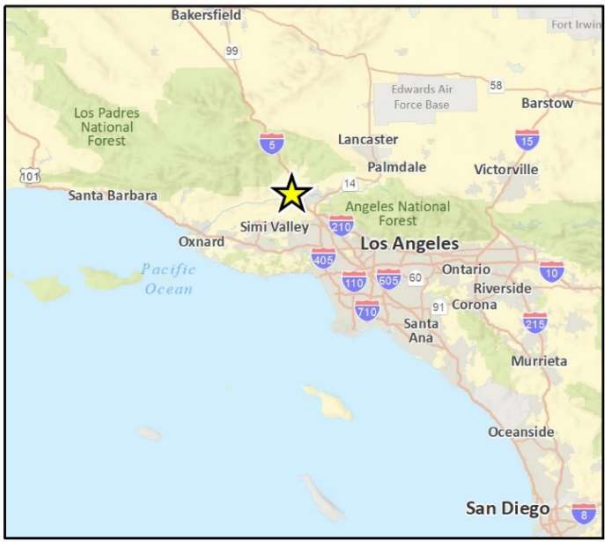
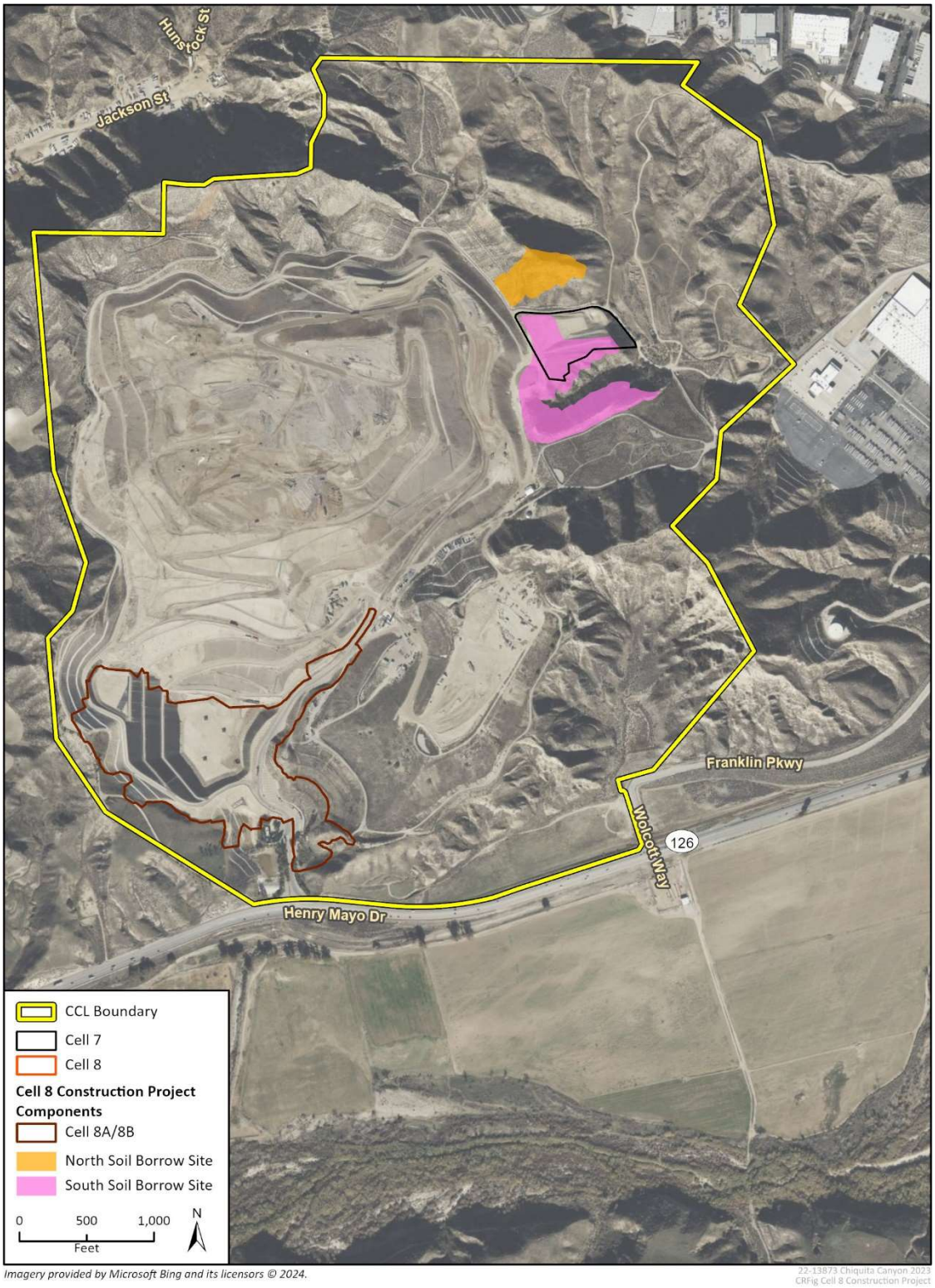


Figure 2 Project Location Map



Attachment 1

WEAP Sign-In Sheet

Chiquita Canyon Landfill

Worker Environmental Awareness Program

If any of these species are encountered, they shall be avoided, and a biologist must be notified immediately.

Purpose

To inform Chiquita Canyon Landfill (CCL) Master Plan Revision project personnel of the compliance requirements and their responsibilities while on the project site. This WEAP Training is required for all project personnel entering the project area and the materials must be onsite at all times.

Compliance Requirements

- The work area must be identified and staked prior to the start of construction.
- A pre-construction survey will be conducted prior to the initial start of construction to identify potential biological constraints.
- If a protected species enters the project site, work will stop, and the animal will not be disturbed. Work can commence when the animal leaves the project area on its own.
- All surface-disturbing activities within the range of any listed species shall be conducted in a manner that reduces, as much as possible, the potential for take of individuals of a listed species. Impacts to habitat shall also be minimized to the maximum possible extent.
- Activities, equipment, materials, etc. must remain within the staked work area.
- 15 mph speed limit for all project vehicles and equipment.
- Halt work immediately if requested by a Biological Monitor.
- Avoid approaching, handling, or touching any wildlife. If you encounter wildlife, alert Biological Monitor or CCL personnel.
- Avoid entering or conducting activities within Environmentally Sensitive Areas (ESAs). This includes active nest buffers or other areas marked as ESAs.
- Do not conduct vegetation removal, grading (removal of the top 12 inches of soil) without a Biological Monitor onsite.
- If fossils or cultural resources are discovered, stop work and notify CCL personnel.
- Park only in designated areas that are clear of vegetation. Do not park or drive over vegetation that could spark and start a fire.
- All trash (construction debris, food waste, plastic items, etc.) must me picked up and disposed of in covered trash bins with a secure lid.
- Secondary containment (drip pans) must be placed under stationary equipment and equipment staged overnight.
- If a spill occurs, begin the clean-up process and notify CCL personnel.
- Remember to stay within the staked work area and avoid entering ESAs.
- If you are unsure about an activity or have a question at any time, please ask the onsite Biological Monitor or CCL personnel before proceeding.

Definitions

Special-Status Species: include species listed as endangered, threatened, sensitive, or proposed for listing under the FESA and/or CESA; species listed as fully protected under CFGC; California Species of Special Concern; plants assigned a California Rare Plant Rank or locally rare; and other species identified in CDFW's Special Animals List, where the administration designations are applicable (e.g., BLM Sensitive species applies on BLM lands).

Take: The FESA defines "take" as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.

Common Species

Western spadefoot (*Spea hammondii*) – **State Species of Special Concern**



- **Identification/Life History**: This species is nocturnal and almost completely terrestrial, entering water only to breed.
  The spadefoot is able to inhabit hot dry environments by burrowing underground using the hardened spades on its hind feet. Rarely seen, spending most of its life buried underground in earth-filled burrows, and active for only a short period each year, typically between October to May, depending on rainfall. Occasionally emerges during rains at other times of the year. The burrows are probably away from the dried breeding pool.
- **Habitat:** Prefers open areas with sandy or gravelly soils, in a variety of habitats including mixed woodlands, grasslands, coastal sage scrub, chaparral, sandy washes, lowlands, river floodplains, alluvial fans, playas, alkali flats, foothills, and mountains. Rain pools which do not contain bullfrogs, fish, or crayfish are necessary for breeding.
- **Avoidance/Minimization: A qualified biological monitor will be onsite during initial ground disturbing and or vegetation removal activities, and during pre- and post-rain events.** The biological monitor will have the authority to halt any actions with the potential to result in impacts to the species.

Chiquita Canyon Landfill

American badger (*Taxidea taxus*) – **State Species of Special Concern**



- **Identification/Life History**: Active yearlong this species is both nocturnal and diurnal The American badger has a flat body with short legs and a triangular face with a long, pointed, tipped-up nose. It has long brown or black fur with white stripes on its cheeks and one stripe running from its nose to the back of its head. It has small ears on the side of its head and long, sharp front claws
- **Habitat:** The American Badger lives in open areas like plains and prairies, farmland, and the edges of woods.
- **Avoidance/Minimization: A qualified biological monitor will be onsite during initial ground disturbing and or vegetation removal activities. All potential dens will be identified by a qualified biologist.**

Southwestern willow flycatcher (*Empidonax traillii extimus*) – **Endangered**



- **Identification/Life History**: It has a grayish green back and wings, whitish throat, light gray-olive breast, and pale yellowish belly. Two wing bars are visible, and the eye ring is faint or absent. The upper beak is darker than the lower beak. It nests in trees and thickets in late May and early June, lays three to four eggs in one-day intervals with the young fledging in early July.
- **Habitat:** Southwestern willow flycatchers require moist microclimatic and vegetative conditions and breed only in dense riparian vegetation near surface water or saturated soil. While wet conditions are uniformly required, the structure and species of vegetation in which they nest vary by region and availability. The birds frequently build nests in nonnative tamarisk (*Tamarix* spp.), as well as in native willow (*Salix* spp.), typically in vegetation stands of 4–7 m in height. Patches of riparian habitat are commonly used by willow flycatchers during migration, but may be smaller in size, with shorter, sparser vegetation structure than those used for nesting. In the winter, willow flycatchers use a variety of habitats, but appear to prefer semi-open brushy areas that are near water.
- **Avoidance/Minimization: A qualified biological monitor will be onsite during initial ground disturbing and or vegetation removal activities. Individual will be identified by a qualified biologist.**

Least bell's vireo *(Vireo bellii pusillus)* – **State and Federally Endangered**



- **Identification/Life History**: Least Bell's Vireos are small birds. They are only 4.5 to 5.0 inches long. They have short, rounded wings and short, straight bills. There is a faint white eye ring. Feathers are mostly gray above and pale below. This species is hard to see and spend most of their time in trees and bushes. Often identified through bird songs and calls.
- **Habitat:** Dense shrubs and small trees along rivers and streams. The least Bell's vireo inhabits low-elevation, riparian habitats with a dense shrub understory that is near water. The ideal habitat contains both canopy and shrub layers. They prefer to nest in willows but will also use shrubs, trees, and vines. Most least Bell's vireos are found below 2,000 feet elevation.
- **Avoidance/Minimization: A qualified biological monitor will be onsite during initial ground disturbing and or vegetation removal activities. Individual will be identified by a qualified biologist.**

California gnatcatcher (*Polioptila californica*) – **State Species of Special Concern, USFW Threatened**



- **Identification/Life History**: California gnatcatchers are a tiny gray bird with a tiny range and flits through coastal sage scrub and desert scrub from southern California to southern Baja California, Mexico. This petite bird flicks its long, narrow black tail as it hops through the dry waist-high scrub. The male is distinguished by his black cap and the female by her gray head, thin white eye ring, and brown-washed sides
- **Habitat:** The California Gnatcatcher live in coastal sage scrub, desert scrub, and coastal dune scrub year-round. In California they occur along the coast in areas dominated by California sagebrush. They generally occur in areas less than 1,600 feet in elevation, but sometimes occur at higher elevation at inland scrub sites.
- **Avoidance/Minimization: A qualified biological monitor will be onsite during initial ground disturbing and or vegetation removal activities. Individual will be identified by a qualified biologist**

San Diego desert woodrat (*Neotoma lepida*) – **No Status Available**



- **Identification/Life History**: This species is active yearlong and is mainly nocturnal, but also crepuscular and occasionally diurnal. They are aggressively solitary and may defend water sources, such as succulent plants, against other species, and perhaps prevent other species from obtaining water during droughts.
- **Habitat:** These woodrats live in high desert areas, chaparral, sagebrush flats, pinyon-juniper pine, and desert trees such as catclaw and Joshua (yucca).
- **Avoidance/Minimization: A qualified biological monitor will be onsite during initial ground disturbing and or vegetation removal activities, and during pre- and post-rain events.** The biological monitor will have the authority to halt any actions with the potential to result in impacts to the species.

Chiquita Canyon Landfill

Conservation Measures

Noxious Weed Control

- To avoid the introduction or spread of exotic and invasive species, including weeds, into previously uninfested areas, Hanly's Contractors must implement preventative measures.
- All workers will receive a presentation from a qualified biologist discussing the invasive species currently present within the project site.
- Project activities will be conducted such that introduction, transfer, and spread of invasive species is prevented.
- Prior to entering and exiting the project site, workers should inspect all vehicles, tools, boots, and other project-related equipment and remove all visible soil/mud, plant materials, and animal remnants.
- Non-native plants on-site include tree tobacco, castor bean, and weedy grasses.



Prickly Lettuce (Lactuca serriola)



Tocalote (*Centaurea melitensis*)



Russian Thistle (*Kali tragus*)



Tree tobacco (*Nicotiana glauca*)

Environmental Requirements

Chain of Command

- Notify the Project Manager (Brenda Ells; 310-562-9374)
- Notify the Rincon Consultants Senior Biologists (Julie Love; 805-453-4840) and (Michael Moss; 805-220-0064)

Biologist Monitoring

- A qualified biologist will be on site daily for one week during the start of construction, during tarp installation, and then twice weekly during normal operations. The biologist will conduct a clearance sweep for any species prior to construction each day. If a species is found, the biologist will move the species out of the project site.
- A qualified biologist will survey for breeding/nesting birds within and adjacent to the project site.

General Best Management Practices (BMPs)

- Best Management Practices (BMPs) must be implemented to prevent erosion and the discharge of sediment and pollutants into streams during project activities (e.g. fiber rolls, straw waddles, hay bales).
- Clean up trash and other project debris daily; use fully covered trash receptacles with secure lids to contain all trash.
- All vehicles and equipment must be in good working condition and free of leaks. The contractor must prevent oil, petroleum products, or any other pollutants from contaminating the soil or entering a watercourse (dry or otherwise).
- During construction, heavy equipment must be operated in accordance with standard Best Management Practices (BMPs). All equipment used on-site must be properly maintained to avoid leaks of oil, fuel, or residues. Provisions must be in place to remediate accidental spills. Clean-up of spills must begin immediately and CDFW notified.
- No pets are allowed on the project site.
- No firearms are allowed on the project site.
- No rodent poisons or rodenticide will be used.
- Project building material and/or equipment will not be placed where materials could pass into waters.
- No concrete or any cement product may be poured if measurable rain forecasted within 15 days. If any concrete is poured after Nov. 1, a quick cure ingredient will be added to ensure a faster set time.
- Excess construction material or debris will be removed from the work area, following completion of operations.
- No work will be conducted within 100 feet of streams during rain events. After any storm event, the project site will be inspected within the next 72 hours prior to construction continuing.
- No night work requiring the use of artificial lighting is permitted in areas with streams.
- Trash receptacles with secure lids will be installed for food waste and trash.

Work Areas and Vegetation Removal

- Contractor must clearly delineate the construction limits and prohibit any construction-related traffic outside those boundaries.
- Project activities will not result in the removal or damage of vegetation.

Equipment and Vehicles

- Heavy equipment will not be operated in wetted areas unless an emergency situation exists, and a biological monitor is on site.
- Equipment will be cleaned daily to prevent spread of non-native species.
- All refueling, cleaning, and maintenance of equipment must occur within designated staging areas, not near or within any stream channel.
- When vehicles or equipment are stationary, mats or drip pans must be placed below vehicles to contain fluid leaks.

- Vehicles must not be parked overnight in areas other than the staging area, or where mechanical fluid leaks may potentially enter the water channel.

Natural Resources

Nesting Birds

- Nesting birds are protected by the Migratory Bird Treaty Act, California Fish and Game code, and under the County Coastal Development Permit (17RVP-00000-00019) and California Coastal Commission (CCC) Coastal Development Permit (#E-11-031).
- The PEC will apply permit conditions to establish appropriate buffers for known nests.
- If a previously unidentified nest is observed, contact the PEC immediately. Nest buffers may be established or modified to restrict some or all work.

Reptiles

- Typically, reptiles include snakes, lizards, turtles, and tortoises, which can be found in a variety of habitats.
- Snakes are both an environmental and a safety concern. Wear proper personal protective equipment (PPE) when in snake habitat and be aware of your surroundings.
- Check under vehicles and work equipment to avoid inadvertently crushing an individual and to avoid surprising an unseen snake when entering or exiting your vehicle.
- Certain species may crawl under work trucks, equipment, and materials to avoid the heat of the day.
- Lizards and snakes may hide in holes in the project area. Be aware that noise and vibrations can adversely affect these animals. When in doubt, check with the PEC before proceeding.

Amphibians

- Typically, amphibians are found in or near a water source, such as a pond or creek.
- As juveniles or adults, amphibians can be found a good distance away from a water source, in grassland or oak woodland habitat and often in small mammal burrows.
- Check under vehicles and work equipment to avoid inadvertently crushing an individual.
- Be aware that noise and vibrations can adversely affect these animals. When in doubt, check with the PEC before proceeding.

Mammals (Rodents, Badgers, Foxes, and Others)

- Mammals are frequent inhabitants of our project areas.
- Mammals can inhabit burrows, dens, logs, and man-made structures such as drainpipes. Watch for signs such as tracks, scat, burrows, and carcasses.
- Check under vehicles and work equipment to avoid inadvertently crushing an individual.
- Most mammals will scavenge trash, which can be harmful or fatal. Clean up trash and debris at the end of each day.
- Be aware that noise and vibrations can adversely affect these animals.
- When in doubt, check with the PEC before proceeding.

Plants

- The PEC will establish Exclusion Zones (EZs) for ESHA and native plants based on permit conditions. Avoidance of these EZs is required under the CDP's.
- EZ fencing, staking, and signage shall be maintained throughout all construction activities.

Cultural Resources

Examples of Cultural Resources

- Any trace of past human activity greater than 50 years old may be an important cultural resource.
- Look for any of the following conditions that could indicate the presence of cultural resources:
  - Discolored soil, particularly gray-black soil with a "greasy" feel to it, in an area of lighter-colored soils.
  - Any animal or human bone. The proper treatment of Native American graves is of great concern.
  - Possession of artifacts or human remains from a Native American grave is a felony (PRC 5097.99).
  - A thin layer or series of layers, particularly dark layers containing charcoal or ash, in an excavation side wall.
  - Shell, freshwater or marine, or shell artifacts.
  - Any unusual concentration of rocks, particularly if they sePEC to form a pattern (such as a campfire).
  - A concentration of small pieces of broken rock, particularly obsidian or chert with sharp edges.
  - A concentration of historic-era trash, including bottles, broken glass, broken ceramic, bone, and metal pieces.
  - A concentration of brick, concrete, or mortared stone that might indicate a structural foundation.

Examples of Cultural Resources

- **Flaked cobbles** were used for scraping, digging, or cutting. They may be found in a variety of shapes and sizes with a smooth end for holding.
- **Scrapers** had a variety of uses including preparing animal skins, shaping wood, or preparing food. They may be found in many shapes and sizes, indicating their various functions.
- **Projectile points** are also very distinctive and are commonly referred to as arrowheads. Projectile points can range in size from 1 to 6 inches long and several inches wide.
- **Historic artifacts** that may be present include glass bottles, bone, ceramics, metal cans, and other metal objects including wire, nails, and building hardware, as well as the remains of former building foundations and underground utilities.

Your Responsibility

- Take the following actions if you think you have found a cultural artifact:
  - Stop work in the immediate area.
  - Notify the PEC so that your "find" can be evaluated as quickly as possible.
  - Stake and flag the area of the find yourself in such a way that others will know not to enter that area.
  - If an PEC is not present, it is your responsibility to stop work and notify the construction supervisor. Work will not resume until the construction supervisor and the PEC determine how to redirect the halted work.
  - Most importantly, leave the it where it is until the PEC can evaluate it. Removing the artifact from the sediment may violate the law and may result in project delays and you being fined personally. In the event of an unanticipated archaeological discovery (such as shell midden flaked stone tools, arrowheads, bones, ceramics, historic bottles, or historic foundations), stop work and notify the C-PM

Project Specific Measures

BR-10 (MMRP) Preconstruction surveys by qualified biologists shall be conducted for special-status wildlife species in impact areas prior to ground-disturbing activities, and if necessary and feasible, resource relocation or avoidance for special-status species shall be implemented. Wherever practical, relocation shall be passive, allowing animals to exit the area on their own. Any grubbing, grading or other ground disturbing activities at CCL would be done in a manner that encourages mobile wildlife species to leave the Project area to escape safely into immediately adjacent undisturbed habitat, wherever feasible. For low mobility species, salvage and relocation by a qualified biological monitor would be implemented. Resource relocation shall be to a location deemed suitable for successful relocation by a qualified biologist and conducted by individuals with appropriate handling permits as required by CDFW or USFWS. Where practical, avoidance zones shall be established in lieu of relocation with fencing and/or signage that restricts access. Construction and construction monitoring for animals will occur at discrete time periods. Construction monitoring shall be conducted in areas containing native vegetation at the time of construction activity within the limit of active construction disturbance. Within areas containing native vegetation, ground-disturbing activities shall be prohibited until the area is cleared by a qualified biological monitor during a preconstruction survey within 7 days prior to the beginning of construction activities. Biological monitors shall also monitor construction activities within 100 feet of avoided CDFW and USACE jurisdictional drainages.

- For burrowing owl, suitable burrows will be identified during surveys and if feasible, protected from disturbance during construction. If avoidance is not feasible, burrows will be scoped during the non- breeding season (September 1 to January 31) to determine if they are occupied. If unoccupied, burrows will be collapsed. If burrows are occupied, owls will be evicted by installing one-way doors in burrow openings during the non-breeding season to exclude burrowing owls. After eviction, burrows will be collapsed. If feasible, alternative man-made burrows will be installed on lands not subjected to construction disturbance, and within 300 feet of cleared burrows. Surveys would be consistent with the CDFW requirements for burrowing owl survey; mitigation measures presented here are consistent with CDFW (2012), and details of how mitigation would be implemented would be consistent with this document.
- For special-status reptiles (coast patch-nosed snake, coastal western whiptail, California legless lizard, San Diego horned lizard), preconstruction surveys in areas where land clearing will occur shall consist of gently raking areas of soft soils, sand, and dense leaf litter to identify individuals burrowed or buried in leaf litter. Individuals encountered will be captured and translocated to an area of undisturbed, intact habitat nearby deemed suitable for successful translocation by a qualified biologist. Translocation will be performed by biologists with appropriate handling permits by CDFW.
- Special-status land mammals (San Diego black-tailed jackrabbit, San Diego desert woodrat, American badger): pre-construction surveys will consist of surveying and identifying evidence of occupancy and use, including rabbit forms, woodrat nests, and badger natal dens. If located during the breeding season for these species, features will be surveyed or scoped to determine occupancy if possible. If unoccupied, they will be dismantled or collapsed. If occupied, or if occupancy cannot be determined, avoidance zones will be established until occupancy can be determined or until the breeding season concludes. If features are identified during the non-breeding season, they will be gently dismantled or collapsed, allowing any occupants if present to disperse. Where habitat must be dismantled, alternative habitat features will be established in nearby undisturbed areas, including creating specific conditions suitable for the species if necessary, such as downed wood structures in shade suitable for woodrat.
- For western spadefoot, if ground-disturbing activities will be conducted within 1,000 feet of the sedimentation basins at CCL, preconstruction ground surveys shall occur within 1,000 feet of potential breeding ponds (sediment basins). The top 6 inches of soft soils and leaf litter shall be gently raked, and small mammal burrows and soil cracks will be inspected or scoped for aestivating spadefoot. In addition, silt fencing will be installed between upland habitat slated for vegetation removal and grading, and potential breeding ponds (detention basins), if the basins are holding water at the time of construction, with pitfall traps located along the silt fence. Depending on proposed scheduling of upland habitat disturbance (relative to spadefoot breeding season), fencing and pitfall traps will target spadefoot moving from or to the upland habitat. Pitfall traps will be inspected daily when active, which will be during periods of likely spadefoot emergence or movement (during early season rainfall and pool formation and during late season drawdown of the basins). If found or trapped, western spadefoot will be relocated tosuitable natural or artificial burrows adjacent to a proposed western spadefoot mitigation pond (BR-16).

This pond will serve as an alternative habitat for spadefoot found at CCL and will be set aside to support spadefoot breeding with adjacent upland habitat for aestivation. Any aestivating western spadefoot encountered during construction within 1,000 feet of sedimentation basins would be relocated to the spadefoot mitigation pond and placed in similar habitat and conditions. Details of spadefoot mitigation, to include components described above including the spadefoot mitigation pond, will be

	documented in a Spadefoot Mitigation Plan, to be reviewed by CDFW and LADRP. ▪ **Bird Nests.** Preconstruction surveys for nesting pairs, nests, and eggs shall occur in areas proposed for vegetation removal and in surrounding areas, including cliff sites, and active nesting areas flagged. Mitigation shall be implemented as described below under BR-13. ▪ **Bat Roosts.** Where bat roosting habitat cannot be avoided, preconstruction surveys consisting of exit surveys, roost surveys of potential roost sites, and evidence of bat sign (guano) shall occur to identify bat species, as feasible, and active roosts. Mitigation shall be implemented as described below under BR-14.
BR-13 (MMRP)	In habitats where nesting birds might occur, vegetation removal shall be avoided when feasible during the nesting season (December through August); winter months are included because this area has potential for owls and hummingbirds, which may breed during this period. In addition, raptor nesting may be initiated by early January. Where this is not feasible, preconstruction surveys for nesting pairs, nests, and eggs shall occur in areas proposed for vegetation removal, and in buffer areas affected by construction, and active nesting areas flagged. The biological monitor shall assign a buffer around active nesting areas (typically 300 feet for songbirds, 500 feet for raptors, and 1,000 feet for sensitive cliff-nesting raptors – golden eagle, prairie falcon, and turkey vulture). The biological monitor will also clearly communicate the limits of buffers to the contractor and crew, and post and maintain, throughout the time of nest use, flagging, fencing, staking, or signs as otherwise needed. Construction activities shall be prohibited within the buffer until the nesting pair and young have vacated the nests, unless it can be demonstrated through biological monitoring that the construction activity is not hindering the nesting effort. Alternatively, if unused nests are identified in the disturbance area during preconstruction surveys, nests may be destroyed prior to active nesting. Rocky escarpments that may support cliff-nesting raptors not proposed for current construction activity at CCL would not be disturbed for the duration of the construction activity.

BLM = Bureau of Land Management

LADRP = Los Angeles Department of Regional Planning

MMRP = Mitigation Monitoring and Reporting Program

USACE = U.S. Army Corps of Engineers

Other Sensitive Species



Burrowing Owl (*Athene cunicularia*)



Coast Patch-Nosed Snake (Salvadora hexalepis)



Western Whiptail (*Cnemidophorus tigris*)



CA Legless Lizard (*Anniella pulchra*)



Golden Eagle (*Aquila chrysaetos*)



Prairie Falcon (*Falco mexicanus*)

Any Questions?

Attachment 2

Daily Monitoring Reports

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Andrew McGrath		
Date: May 10, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 12:30
Weather (Temperature, wind speed, cloud cover, precipitation): 80 ° F, 5 mph mph, 5 %, None		
Start Location: Zone 11S 349219E 3811974N		

Worker Environmental Education Program provided: ☑ **Yes** ☐ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

- N/a

Type of Monitoring: Other

Additional Notes: Only activity of the day included grubbing in low sensitivity arch area

Location:



Facing south; Grubbing in Cell 7

Summary of project related communications:
Crew planned to begin excavating for road to top of north borrow site. Delivery of bridge structure delayed to afternoon. Mechanical issues with D8 dozer prevented digging to prepare for bridge from happening.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No
Native American Monitor: Richard Ortega
Time Monitor Present: 07:00 - 12:30
Archaeological Discovery Made? ☐ Yes ☑ No
Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Andrew McGrath		
Date: May 11, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 14:00
Weather (Temperature, wind speed, cloud cover, precipitation): 85 ° F, 5 mph mph, 0 %, None		
Start Location: Zone 11S 349275E 3811671N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

13:47 - Dozer Pioneering sediments in north soil borrow area

Type of Monitoring: Continuous Monitoring

Additional Notes: In low archaeological sensitivity area.

Location: 11S 349275E 3811671N



13:47 Facing northeast; Dozer at top of hill in north soil borrow area

Summary of project related communications:
Attended morning tailgate. In communication with Rasmussen foreman/operator throughout day

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No
Native American Monitor: Richard Ortega
Time Monitor Present: 07:00 - 14:00
Archaeological Discovery Made? ☐ Yes ☑ No
Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 15, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 70/85 **Start / Stop**	**Cloud Cover (%):** 30/30 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A. Rasmussen Inc. started over excavation at the NW end of cell 7. The excavated soil was picked up by the scrappers and dropped at a hill slope to the SW of Cell 7. The excavated soil was also compacted to make a dirt road on a 65 feet high hill slope.

Upcoming Planned Construction Activities' Forecast: At cell 7 of the Chiquita Canyon landfill project. Soil over excavation, vegetation removal and soil compaction will continue this week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - Over excavation, vegetation removal, soil dumping and compaction. The dimensions of the excavation done today at the NW of cell 7 CCL are about 3 feet of soil removed on an area measuring 110 feet going East to West by, 270 feet going North to South.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking NW start of over excavation by the bulldozer and scrappers at cell 7



Scrapper coming down the compacted dirt road at the SW of cell 7

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 16, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/85 **Start / Stop**	**Cloud Cover (%):** 15/20 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: On the North side of cell 7 a D8T bulldozer removed vegetation and over excavated the top of a hill slope with a 180 feet high and a 250 feet high summit. The soil is tan and yellow silt sand, there are pockets of light brown clay. Shell fragments found.

Upcoming Planned Construction Activities' Forecast: Over excavation at cell 7, vegetation removal and soil compaction will continue this week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - At the N hill slope excavation, Shell fragments were observed on tan and gray silt-sand stone, these fragments were not in situ. No paleo material was collected. The equipment used are 2 CAT 657 B Scrappers, 2 CAT D8 T bulldozer and 1 DEERE 872 GP grader.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking NW photo shows the continuation of over excavation at the SW and NW of cell 7



Photo looking N shows bulldozer excavating the top of a N hill slope



Shell fragments found on the N hill slope but not collected the local is at UTM: E:349206.2 and N: 3811881.4. Height of hill 180 feet from surface of cell 7

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 17, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 70/88 **Start / Stop**	**Cloud Cover (%):** 0/0 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: On the SE end of cell 7 a CAT bulldozer of C.A Rasmussen started to remove vegetation on a hill slope measuring about 230 feet in height. On the north hill slope of cell 7 a bulldozer excavated and compacted soil to make a road for scrappers to come in.

Upcoming Planned Construction Activities' Forecast: Vegetation removal, over excavation and soil compaction will continue all week at cell 7.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The area excavated on the SE hill side of cell 7 measures about 35 feet from the South to North by about 380 feet from the East to West this area is a path that the bulldozer is cutting for the scrappers. No cultural resources. Equipment 2 D8T bulldozers.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Over excavation and vegetation removal at SE Hill slope



NW shows the cut at the top of the N hill slope and variation is soil and stone.

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 18, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 68/85 **Start / Stop**	**Cloud Cover (%):** 0/0 **Start / Stop**	**Wind (mph):** 6/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: Excavation and vegetation removal continued at the SE hill slope. C.A Rasmussen paused excavation activities at the N hill slope because the D10 bulldozer broke down yesterday, once the bulldozer was fixed excavation resumed. No cultural resources found.

Upcoming Planned Construction Activities' Forecast:

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The D8 T bulldozer cut the ground and pushed excavated soil to the side of the SE hill slope to even out the top surface at the SE hill. The soil is tan fine grain silt-sand and gray-white fine grain silt-sand. There are large silt-sand stone chunks.

11:00 - North hill slope a D10 bulldozer excavated the highest point of the hill to even out the ground and widen the path for the scrappers. Soil is light tan fine grain silt, coarse grain tan- yellow sand, gray-white fine and coarse grain sand, brown clay.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Phasing West shows bulldozer over excavating the East end of the SE hill slope



Photo looking East shows bulldozer moving to grade soil at the SE hill side



Looking NE shows progress of excavation by bulldozer at the top of the N hill slope

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 19, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/75 **Start / Stop**	**Cloud Cover (%):** 100/0 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rasmussen Inc. sent two bulldozers a D8 T and a D10 T bulldozer to excavate soil at the top of the North hill slope. This hill measures about 250 feet in height the area excavated its the very top of this hill the bulldozer made a path going E to W.

Upcoming Planned Construction Activities' Forecast: Over excavation, soil grading, soil compaction and soil removal activities will continue next week by C.A Rasmussen Inc.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The focus of the excavation was the center top of the North hill slope. This area was compacted for CAT scrappers to grade soil on Monday. The area excavated measures about 40 feet in width by 410 feet in length East to West. No cultural resources found.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Over excavation at the top of the North hill slope by the D8 T and D10 T bulldozers.



Looking NE shows end of excavation

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 22, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/85 **Start / Stop**	**Cloud Cover (%):** 20/0 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: On the SE area of cell 7 C.A Rasmussen inc excavated soil using the D10 CAT bulldozer and the 2 657B CAT scrappers. At the NE hill slope the D8T bulldozer continued cutting and compacting soil, the 2 657B scrappers also graded the NE hillslope. No finds.

Upcoming Planned Construction Activities' Forecast: Soil over excavation, vegetation removal, soil dumping and soil compaction activities will continue this week at cell 7.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The area excavated at the SE of cell 7 measures about 135 feet from the South to North. By 245 feet from the East to the West. Amount of soil excavated is about 3 feet. The soil type is light tan-brown-yellow silt-sand. No cultural resources found.

07:00 - At the NE hill the measurements of the excavated area are 410 feet from the S to the E. The width of the dirt paths that were made by the 2 CAT 657 B scrappers is about 35 feet. The height of the NE hill slope is about 250 feet. Predominant soil tan silt.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☐ Yes ☑ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking SW shows bulldozer an CAT scrapper continuing the cut



Looking NE shows the new path cut by the scrappers to get uphill

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 23, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/78 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rasmussen continued excavating the NE hill slope the 4 657 B scrappers graded soil going up the hilll slope to the East and coming down to the West. At the start both D19 and D8 bulldozers graded the N. The D8 moved to the SE hill to grade. No finds.

Upcoming Planned Construction Activities' Forecast: Over excavation, vegetation removal, soil grading, and soil compaction will continue all week here at cell 7.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The work area at the North hill slope measures about 245 feet East to West by 135 feet South to the North. The excavated roads where the scrappers grade and go through have a width of about 40 feet. Soil is tan-yellow-brown, and gray silt-sand. No finds.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking NW shows bulldozer pushing soil down hill and scrapper going up hill to grade.



Looking East shows the D 8T bulldozer starting excavation at the SE hill slope cell 7



Afternoon C.A Rasmussen added 2 more scrappers for a total of 4 CAT 657 B scrappers

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 24, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: At cell 7 of CCL project C.A Rasmussen Inc. continued excavating the NE hill slope with the 657 B scrappers and D10 T. At the SE at base level the D8T and the 872GP removed the remaining top soil and continued soil compaction. No cultural resources found.

Upcoming Planned Construction Activities' Forecast: Vegetation removal, excavation, lowering of grade, soil compaction and soil dumping will continue this week at cell 7 of CCL

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - On the NE hill 4 CAT 657 B scrappers, 1D8T and 1 D10 T bulldozer lowered the grade at the top of the hill. The excavated soil was taken West by the 657s it was dumped up a West road. The soil is tan, brown, yellow silt-sand. White-gray sand. No finds.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Photo looking West shows the 872GP grader and the D8T bulldozer compacting soil at the SE



Looking NE it shows the path of the scrappers up and down hill hill the bulldozers grade soil at the top

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 25, 2023	
Start Time: 07:00	**Stop Time:** 11:30	**Total Hours Worked:** 4.5
Temp (F): 65/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rasmussen excavated at the NE hill side of cell 7, the D8T bulldozer cut and compacted the top center of the hill. At the SE hill slope 3 657 B scrappers went through and graded down soil while the D10N made cuts and compacted the bottom SE. No finds

Upcoming Planned Construction Activities' Forecast: The excavation, grading of soil and soil compaction at the SE and NE hill slopes of cell 7 will continue this week and keep going next week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - On the NE hillside C.A Rasmussen used the D8T bulldozer to keep cutting the top center of the hill. The purpose is to compact soil and push it down to lower the grade. The top center is 280 feet high at an elevation of 1250 ft above sea level. No finds.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Photos



Photo looking SW shows the path the 657 B scrappers take grading the SE hillslope



Looking South shows the D8T bulldozer cutting and compacting the top center of the NE hillslope

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 26, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** /100 **Start / Stop**	**Wind (mph):** 8/12 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: SE hill slope of cell 7 C.A Rasmussen excavated/graded soil. Work area measures about 340 feet in length, the width of the area excavated ranges from 40 feet to 80 feet this includes the roads taken by the 657s. Soil removed is about 6 feet across the SE.

Upcoming Planned Construction Activities' Forecast: Over excavation, soil grading, soil compaction, vegetation removal and soil dumping will continue next week. Next Monday no work.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The SE hillslope was excavated by 5 657 B scrappers these took a figure 8 route from the east to the west of the hill. The D8T bulldozer cut the ground to lower the grade, while the 657s removed about 6ft of excavated soil. No cultural resources found.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking SW shows the 657 B scrappers grading the SE hill side



Looking SW shows the bulldozer making new cuts while scrappers grade soil

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 30, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen Inc. used 5 657 B CAT scrappers, to lower the grade at the SE of cell 7 CCL. 1 D8T bulldozer and 1 D10N bulldozer were used to cut the ground on the paths going through the hill and the center top. Excavation was extended to a lower SE slope

Upcoming Planned Construction Activities' Forecast: Pioneering excavation, soil grading, vegetation removal and soil compaction activities will continue this week at cell 7 of Chiquita Canyon Landfill.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The amount of soil removed at the SE hill is about 6 feet at the roads used by the CAT scrappers. These go up to the SE and come down NW. The center top of the hill has been excavated about 8 feet the soil has been taken W to the tailboard meeting spot.

10:00 - The soil type at the SE is brown mulch and loam at the surface most of this soil was brought in it has been slowly removed. The soil at depths lower than 2 feet is tan silt-sand, below 3 ft its gray-white silt sand. No archaeological resources observed.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☑ Yes ☐ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Photos



The D10N and the D8T bulldozers making new cuts for the 657B scrappers to keep grading soil.

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** May 31, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: At the N hill slope C.A Rasmussen Inc. used 1 D10 N CAT bulldozer to cut the ground at the center top, and 5 657 B CAT scrappers lowered the grade. At the SE 1 D8T CAT bulldozer did pioneering excavation, graded soil and compact the top surface. No finds.

Upcoming Planned Construction Activities' Forecast: Pioneering excavation, vegetation removal, soil grading, soil compaction and soil dumping will continue this week at cell 7.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The area excavated at the SE hill measures about 320 feet east to west and it has a varying width of about 30 feet to 60 feet going south to north. The soil is light tan silt, with tan, brown and gray silt-sand stone. No archaeological finds observed

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking north shows the 5 657 B CAT scrappers and the D



Looking west shows the progress of excavation made by the CAT bulldozer

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 1, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen Inc. continued excavation activities at cell 7. On the lower SE center a D8T bull dozer ripped the ground and graded soil on a E to W benched road, the bulldozer moved to the north hill where 5 657 B scrappers and the D10N were grading soil.

Upcoming Planned Construction Activities' Forecast: Pioneering excavation, vegetation removal, soil grading, soil compaction and dumping of soil will continue this and next week at cell 7 CCL.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The D8T bulldozer stayed at the lower SE center half cutting the ground and grading soil. The bulldozer benched out a road that measured about 6 feet in width by 280 feet east to west the amount of soil removed is about 4 feet. No archaeological resources.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Photos



Looking south shows the D8T bulldozer grading soil at the SE benched road

Photos



Looking NE shows the SW path taken by th Caterpillar scrappers when grading soil

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 2, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/78 **Start / Stop**	**Cloud Cover (%):** 80/70 **Start / Stop**	**Wind (mph):** 4/6 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen Inc. used the CAT D10N Bulldozer to pioneer soil at the W side, the base, and the top E end of the N hill slope of cell 7. At the W roads 6 ft of soil were removed and 15 ft at the center top. The D10N and 657B graded soil SE. No arch finds.

Upcoming Planned Construction Activities' Forecast: Pioneering excavation, vegetation removal, grading, soil compaction and soil removal will continue this week and next week at cell 7CCL.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The D10N ripped the ground at the top center of the N hill for the 657Bs to take the soil W to be dumped on compacted work roads going W the majority of the soil was dumped at the tailboard meeting spot. 15 ft of soil have already been removed at the top.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking North show the Caterpillar 657B scrappers going up and down the West side of the N hill

Photos



Looking SE shows the soil grading at the top center of the North hill side of cell 7

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 5, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: Today 5 C.A Rassmussen 657B scrappers graded the W side of the N hill slope. A D10N bulldozer ripped soil at the center top and the D8T pioneered the W side of the N hill. At the center SE of cell 7 a John Deere tractor compacted soil. No arch finds.

Upcoming Planned Construction Activities' Forecast: Excavation, soil grading, soil compaction, pioneering and vegetation removal will continue this week at the North hill of cell 7 CCL.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - At the Top center and West slope of the North hill the 2 CAT bulldozers ripped the ground to loosen up soil for the 657 B CAT scrappers to excavate and remove soil at the West side of the North hill slope, this soil was taken up to the tailboard spot.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Lookin NE shows the 657B C.A scrappers going up the North hill slope, while the D10N and D8T grade soil at the top



Looking SE shows the 657B scrappers also compacting soil at the top center of the North hill

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 6, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen Inc. excavated on the N hillslope of cell 7. Grading excavation was resumed by the 657B scrappers on a dirt road going up the east side of the hill. At the west side the CAT scrappers came down. At the W the D8T did pioneering excavation.

Upcoming Planned Construction Activities' Forecast: Soil excavation, pioneering excavation, vegetation removal, soil grading, soil removal and soil compaction will continue this and next week at the north hill of cell 7 Chiquita Canyon Landfill.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - About 6 feet of soil were removed today on the work areas of the E work road and the W road of the N hill. The top center work wrea measures about 105 ft by 100 ft at 200 ft of height. At the W side the D8T removed vegetation. No archaeological finds.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking NE shows shows the 657 B scrappers coming down the N hill roads and the D8T bulldozer doing pioneering excavation at the West side of the N hill



Looking NW shows the main excavation area at the center top of the North hill side

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 7, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen excavated the N hill of cell 7. At the base of the hill a 85G DEERE excavator removed vegetation and loose soil away of a concrete channel. The 5 657B scrappers graded soil at the E side of the hill. The D10N ripped soil at the top center.

Upcoming Planned Construction Activities' Forecast: Soil over excavation, pioneering excavation, vegetation removal, soil grading, soil benching and soil compaction will continue at the North hill of cell 7 Chiquita Canyon landfill.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - At the N hill slope of cell 7 on the W side of the hill at a height of about 180 feet from the bottom of the hill the D10N bulldozer did pioneering excavation. And the 5 657 B CAT scrappers excavated soil from the E work road going up and coming down W.

12:57 - The work area on the N hill slope is the dirt roads going up and coming down the hill, these roads measure each about 40 feet in width by 220 feet in length from the bottom of the hill to the top. The center top area measures about 100x105 ft. No finds.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Photos



Looking North shows the soil removal excavation at the base of the North hill to clear out a concrete channel



Picture looking NE shows the D10N at the top of the North hill and the 657 B scrappers coming down

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 8, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 70/85 **Start / Stop**	**Cloud Cover (%):** 0/0 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen is grading and excavating soil at the N hill slop. The bulldozer is ripping the ground at the E end of the hill and at the center top it loosened up soil. The 5 657 B scrappers go up the E road and loop around the hill to come down W.

Upcoming Planned Construction Activities' Forecast: Here at the north hill of cell 7 Chiquita Canyon Landfill C.A Rassmussen will continue excavating soil, grading, pioneering and compacting soil at the north hill of cell 7 the rest of this week and next week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The soil type encountered on the excavation areas is varied the most common soil at the base and west side of the hill is fine grain tan silt-sand. At the top center there are layers of brown silt-clay. No archaeological resources have been encountered.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking N east shows the 657B scrappers coming down and going up the N hill of cell 7.



Looking SE shows the 657 B CAT scrappers looping around the east end of the north hill of cell 7

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 9, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen excavated soil at the N hill of cell 7. The 5 657 B CAT scrappers graded the E road going up the hill and looping around W. The D8T CAT bulldozer did some soil compaction halfway the N hill. The 657Bs moved to the SE hill to grade. No finds

Upcoming Planned Construction Activities' Forecast: Excavation of soil, pioneering excavation, soil grading and soil compaction will continue next week at the north hill of cell 7 CCL.

Important Communications:

Daily Activities in Time – Activity Format:

07:00 - At a height of about 200 feet the 657 B CAT scrappers compacted soil and evened out the top center of the N hill of cell 7. The D8T bulldozer focused on grading/compacting soil at the East road halfway the N hill slope. The 657 Bs excavated the SE hill.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking SE shows the 657 b CAT scrappers compacting soil at the top of the N hill



Looking SE shows the 657B scrappers excavating soil at thd SE hill slope of cell 7

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 12, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen is excavating the SE hill of cell 7. The D10N bulldozer is ripping the ground for the 6 657Bs to move the soil. On the N hill the D8T bulldozer is benching the top center. At the bottom of the hill a DEERE excavator is clearing a channel.

Upcoming Planned Construction Activities' Forecast: On the SE and North hillslopes of cell 7 pioneering excavation, vegetation removal, hillside benching, and soil compaction will continue all week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - At the base of the N hill of cell 7 a DEERE mini excavator is removing soil from a concrete water drain channel. On the top of the N hill the D8T CAT bulldozer benched the W side of the peak of the N hill the area measured 105ft in length by 10ft width.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking SW shows the soil excavation at the SE hill slope by the 6 657B scrapers



Looking N shows the excavation at the bottom of the North hill to clear the concrete channel

Daily Monitoring Report

Photos



Photo looking N shows the side of the North hill that was benched by the D8T bulldozer

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 13, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/75 **Start / Stop**	**Cloud Cover (%):** 80/80 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen used six 657 B CAT scrappers to excavate the north hill slope of cell 7. The D10N and the D8T CAT bulldozers did pioneering excavation and soil compaction at the west work roads of the hill and the center top of the N hill. No arch finds.

Upcoming Planned Construction Activities' Forecast: Excavation, soil removal, vegetation removal, pioneering and soil compaction will continue at the North hill of cell 7 CCL.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The soil type at the top of the north hill is fine grain tan silt-sand with sandstone fragments. Fine grain Brown silt-sand with siltstone. And fine grain light gray silt-sand with siltstone fragments. There are gravel size conglomerates. No arch finds.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Photos



Looking North shows the grading of soil by the 657 B CAT scrapers



Looking South shows the 657 B CAT scrappers coming down the N hill slope.

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 14, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 65/78 **Start / Stop**	**Cloud Cover (%):** 0/0 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: Today 8 657 B CAT scrappers were used by C.A Rassmussen to excavate/grade soil at the SE hill slope of cell 7 and the north hill. At the N hill the D8T CAT bulldozer did excavation to bench the top W side of the N hill. No Archaeological resources found.

Upcoming Planned Construction Activities' Forecast: At the north hillslope and SE hill slope of cell 7 CCL soil excavation, pioneering excavation, vegetation removal, soil grading and soil compaction will contine the rest of the week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - On the N hill slope of cell 7 at a height of 220ft from the base of the hill to the work area the D8T benched the top NW side of the hill. The area is 120ft long E to W by 5ft of width. The soil on this area is yellow-tan silt-sand with brown silt stone.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking SE shows the 657 B caterpillar scrappers excavating the lower center area of cell 7



Looking south shows the D8T bulldozer benching the top W side of the N hill

Daily Monitoring Report

Photos



Looking SW shows the 657 B scrappers coming down the SE slope to go up to the W tailboard meeting spot

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 15, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen used the 8 657B CAT scrappers to excavate the north hill slope of cell 7. The D10N bulldozer was used to make deeper cuts at the center top and East end of the N hill. The D8T continued benching the side wall. No archaeological finds.

Upcoming Planned Construction Activities' Forecast: Soil excavation, pioneering excavation, soil compaction, and vegetation removal will continue at the N hill of cell 7 the rest of this week.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The amount of soil removed at the N hill of cell 7 is about 5 ft at the top center area and 8ft at the E an W work roads. The predominant soil at the center N hill is tan silt-sand. There is brown and yellow silt-sand and gray-brown silt stone observed.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking NE shows the 657 B scrappers going up the E road and coming down the W road at the N hill slope



Looking SE shows the D8T bulldozer benching while the 657 B scrapers excavate soil and the D10N rips the ground

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 16, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 40/0 **Start / Stop**	**Wind (mph):** 5/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: C.A Rassmussen excavated the SE hill of cell 7 using 8 657 B CAT scrappers the soil was taken W to cell 8 and the tailboard meeting spot. The D10N bulldozer graded the center and E end of the SE. While the D8T benched the top W side of the N hill slope.

Upcoming Planned Construction Activities' Forecast: Soil excavation, pioneering excavation, vegetation removal and soil compaction will continue next week at cell 7 of CCL

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - At the north hill slope of cell 7 the benched area excavated by the D8T measures about 140 feet east to west by about 5 feet in width. The soil type there is tan silt-sand, with white silt-sand and brown-gray siltstone. No archaeological resources found.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Daily Monitoring Report

Photos



Looking SW shows the 657 B scrappers coming down from having excavated soil at the SE hillslope



Looking N shows the D8T bulldozer benching the top W side of the North hill slope

Daily Monitoring Report

Project Name: Chiquita Canyon Landfill	**Location:** Chiquita Canyon Landfill, Los Angeles County	
Monitor(s): Pedro Garcia	**Date:** June 19, 2023	
Start Time: 07:00	**Stop Time:** 15:30	**Total Hours Worked:** 8
Temp (F): 60/75 **Start / Stop**	**Cloud Cover (%):** 100/100 **Start / Stop**	**Wind (mph):** 8/8 **Start / Stop**

Environmental Education Provided: ☐ No ☐ Yes

Summary of Day's Activities and Progress of Work Completed To Date: At the north hill of cell 7 C.A Rassmussen used 8 657 B CAT scrapers to lower the grade level of the hill slope. The D8T CAT bulldozer did compaction and soil removal above the bridge of metal plates and the D10N did pioneering excavation at the E end.

Upcoming Planned Construction Activities' Forecast: Soil excavation, soil grading, soil compaction and pioneering excavation will continue all week at the north hill slope of cell 7 CCL.

Important Communications:

Critical Action Items To Follow Up On:

Daily Activities in Time – Activity Format:

07:00 - The excavated soil was taken W into the tailboard meeting spot. The dominant soil type at the N hill slope is tan-yellow silt-sand this soil layer has gravel size rounded conglomerate rocks. At the center of the hill there are brown and gray siltstone.

Checklist

Construction-related trash visible on site? ☑ Yes ☐ No	Observed a 15-mph speed limit? ☑ Yes ☐ No
Trash receptacles with lids? ☐ Yes ☑ No	Construction activity within 100 feet of JD? ☑ Yes ☐ No
Removed Daily? ☑ Yes ☐ No	Clearance Sweep Conducted? ☑ Yes ☐ No
Equipment staged away from JDs? ☑ Yes ☐ No	Photos taken? ☑ Yes ☐ No
Crew and equipment remained within delineated work boundary? ☑ Yes ☐ No	Fugitive dust minimized? ☑ Yes ☐ No

Photos



Looking north shows the 657 B scrappers coming down from grading soil at the north hill of cell 7

Photos



Looking south shows the D8T bulldozer breaking the ground at the center and east of the north hill slope

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 20, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 65 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349236E 3811779N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, benching excavation and soil compaction at the North hill of cell 7 CCL

Type of Monitoring: Continuous Monitoring

Additional Notes: The excavated area at the center of the north hill slope measures about 230 feet east to west by about 100 feet north to south. The height at which the excavations activities are taking place ranges from 180 feet to 160 feet from the work area to the bottom of the North hill. No archaeological resources observed.

Location: 11S 348973E 3811038N

Depth of Ground Disturbance: 12 feet is the amount of soil removed today from the center of the north hill and the east and west work roads.

Soils/Lithology Description: The predominant soil type at the north hillslope is fine grain tan silt-sand. At the center and west of the north hill there are layers of brown-red siltstone, as well as dark gray siltstone. The east end of the north hill also has yellow-tan silt-sand with fragments of sandstone. There are patches of light gray-white fine grain sand. And there is brown silt close to the chaparral vegetation.



07:00 Facing east
Looking East shows the 657 B CAT scrappers excavating at the center of the north hill while the bulldozers break the ground.

11:32 - Soil compaction and excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: The D10N bulldozer is also compacting soil for the 657B scrappers to be able to drive the N hill without getting stuck.

Daily Monitoring Report

Location: 11S 349239E 3811905N

Depth of Ground Disturbance: 12 feet below the previous grade at about 160 feet from the bottom of the N hill

Soils/Lithology Description: Tan-yellow silt-sand with gray silt-sand and brown siltstone.



11:32 Facing southwest
Looking SW shows the D10N bulldozer compacting soil while the 657 B scrappers come down the North hill.

Summary of project related communications:
Excavation activities will continue all this week at the north hill of cell 7 CCL

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 21, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:03
Weather (Temperature, wind speed, cloud cover, precipitation): 78 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349281E 3811711N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Pioneering excavation, soil compaction and soil grading at the north hill of cell 7

Type of Monitoring: Continuous Monitoring

Additional Notes: Today C.A Rassmussen used six 657 B CAT scrappers to lower the soil grade at the north hill slope of cell 7 CCL. A D8T bulldozer was used to do pioneering and benching excavation on the west side of the north hill. A D10N bulldozer did pioneering and benching excavation at the east side of the north hill slope. The dimensions of the work area are about 40 feet in width for the work road going up the north hill by 160 feet in length from the base of the hill to the back east side. The height of the center excavation is about 140 to 160 feet.

Location: 11S 349169E 3811795N

Depth of Ground Disturbance: About 10 feet of soil are being removed daily at the Center top, East and West roads coming down the north hill of cell 7

Soils/Lithology Description: The most abundant soil type at the north hill slope of cell 7 is tan silt-sand, this sand has gravel size rounded rocks with sandstone fragments. At the west of the north hill there is also a layer of brown siltstone at around 140 to 160 feet of height. At the center of the north hill there is gray silt-sand and gray siltstone.



07:00 Facing northeast
Looking northeast shows the D8T bulldozer doing pioneering excavation at the west of the north hill while the 657B scrappers graded soil

12:22 - Benching excavation at the west side of the North hill

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: The D8T bulldozer continued to excavate soil at the west side of the hill. The benching of soil happened in an area measuring about 5 feet in width by 160 feet in length East to West.

Location: 11S 349188E 3811888N

Depth of Ground Disturbance: About 12 feet from previous soil grade

Soils/Lithology Description: Tan silt-sand mixed with sandstone and gravel conglomerates, there is a layer of brown silt stone above the tan silt.



12:22 Facing east
Looking East shows the D8T CAT bulldozer benching soil at the West side of the North hill slope.

Summary of project related communications:
Excavation at the north hillslope of cell 7 will continue this week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Tanya Pancho

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 22, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 78 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349309E 3811645N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation, benching and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: The 657 B CAT scrappers removed about 12 feet of soil from the previous grade level at the top center of the north hill and at the road going up the west side of the hill to the back east end of the center top excavation. The excavated soil is being taken west into a stockpile located at the tailboard meeting spot.

Location: 11S 349216E 3811895N

Depth of Ground Disturbance: 12 feet from previous excavation grade at about 140 feet in height from the base of the hill to the center excavation area

Soils/Lithology Description: The predominant soil type at the base of the north hill on the road going up east is tan-yellow silt sand with brown and gray siltstone and tan-yellow sandstone fragments as well as gravel size conglomerate rocks.



07:00 Facing north
Looking north shows the 657 B scrappers lowering the grade at the north hill slope of cell 7

11:21 - Soil excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: At a height of about 140 feet the center excavation area of the north hill of cell 7 measures about 205 feet going east to west by 80 feet north to south. About 12 feet of soil have been removed today from this area. No archaeological resources found.

Location: 11S 349220E 3811897N

Daily Monitoring Report

Depth of Ground Disturbance: 12 feet from the previously excavated grade level at about 140 feet in height from the bottom of the hill to the excavation area.

Soils/Lithology Description: The soil type at the center top of the north hill is diverse. The dominant soil is tan-yellow silt sand, this soil has sandstone and siltstone fragments as well as gravel size conglomerates. There are layers of brown and gray siltstone across the north hill from the east to the west. Coarse grain yellow sand is seen at the east and center of the north hill. While gray sand is seen mainly at the east and north side.



11:21 Facing southeast
Looking SE shows the 657 B scrappers excavating soil from the East side of the North hill while the D10N bulldozer compacts soil

Summary of project related communications:
Excavation at the North hill of cell 7 will continue the rest of the week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 23, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 65 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349284E 3811709N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Pionering excavation, grading excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: The excavation area at the center of the north hill measures about 224 feet from the east to the west by about 80 feet from north to south at a height of about 140 feet from the bottom of the north hill.

Location: 11S 349286E 3811715N

Depth of Ground Disturbance: About 12 feet from previous soil grade.

Soils/Lithology Description: The soil type at the center excavation area of the north hillslope is tan-brown fine grain silt-sand with tan sandstone fragments, as well as gravel size rock conglomerate. There are layers of brown siltstone at the center and the west side of the north hill. Gray siltstone layers are also present at the center and east end of the north hill.



07:00 Facing north
Photo looking north shows the 657 B scrappers lowering the grade of the N hill

11:41 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: The 657 B scrappers continue excavating the center area of the north hillslope to lower the grade level of the north hill by about 12 feet. All the excavated soil is being taken west into the tailboard meeting spot.

Location: 11S 349304E 3811928N

Daily Monitoring Report

Depth of Ground Disturbance: About 12 feet of soil from the previuos grade at a height of about 140 feet feom the bottom of the north hill

Soils/Lithology Description: The predominant soil type is tan/yellow silt sand adjacent to visible layers of brown and gray siltstone



11:41 Facing southwest
Photo looking Southwest shows the center area the 7 657 B scrappers focused on grading today

Summary of project related communications:
Excavation activities at the different work areas of cell 7 CCL will continue next week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Sisco Valenzuela

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 26, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 67 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349208E 3811590N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, pioneering excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Today C.A Rassmussen started excavating at the SE hill slope of cell 7 all six 657 B Caterpillar scrappers lowered the grade of that area before moving into the north hillslope. The D8T and D10N CAT bulldozers also moved to the north hill slope after doing pioneering excavation on the SE. No archaeological resourdes were observed today.

Location: 11S 349209E 3811587N

Depth of Ground Disturbance: About 6 feet of soil from the previous soil grade is being removed on the north hillslope of cell 7

Soils/Lithology Description: On the west side of the north hill the soil type is varied the most abundant going east to west across the center is fine grain tan silt-sand with sandstone fragments and gravel size rounded conglomerate rocks. There is a layer of brown-red siltstone that runs acroos the west side of the hill going to the east end of the center excavation. Across the center and east excavation areas there are patches of gray siltstone. Fine grain gray-white silt sand is seen at the east side of the north hill.



07:00 Facing southeast
Looking SE shows the D8T bulldozer doing pioneering excavation on the SE hill slope of cell 7 after the 657B scrappers came down the hill

11:13 - Pioneering excavation and soil grading

Type of Monitoring: Continuous Monitoring

Additional Notes: The six 657 CAT scrappers removed the excavated soil that was lossened up by the D8T and the D10N bulldozers to lower the soil grade at the west side of the north hill by about 6 more feet. This center top area has a height that ranges from 140 to 165 feet from the bottom of the hill to the center top. The center excavation area measures about 190 feet

east to west by 80 feet north to south. The road going up the north hill is about 45 feet in width by about 250 feet in length from the west base of the Hill to the back east side. No archaeological finds.

Location: 11S 349178E 3811788N

Depth of Ground Disturbance: About 6 feet from the previous grade level

Soils/Lithology Description: The most abundant soil type at the west side of the north hill is fine grain soft silt-sand. This soil has fragments of brown and gray siltstone as well as tan-yellow sandstone and round conglomerate rocks. The soil close to the chapparral vegetation is brown silt.



11:13 Facing northeast
Looking northeast shows the 657 B CAT scrappers excavating going uphill and downhill at the NE slope

Summary of project related communications:
Excavation at the North hill and SE hillslope of cell 7 will continue this week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 27, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 78 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348965E 3811038N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, soil grading and soil compaction.

Type of Monitoring: Continuous Monitoring

Additional Notes: The six 657 B CAT scrappers focused on lowering the grade at the west side of the north hillslope of cell 7 about 8 feet of soil were removed today from the previous soil grade level. The center excavation area measures about 215 feet going east to west by about 80 Feet going north to south. The height of the hill from the base to the top ranges from 140 feet to 160 feet.

Location: 11S 349211E 3811895N

Depth of Ground Disturbance: About 8 feet from previous soil grade at a height that varies between 140 feet to 165 feet from the bottom of the hill to the top.

Soils/Lithology Description: The most abundant soil type at the center excavation area of the north hillslope is tan silt-sand, this sand has gravel size rounded conglomerates and sandstone fragments. There is a continuous layer of brown-red siltstone that runs across the center of the north hill going east to west. And there are patches of gray siltstone across the top center of the north hill.



07:00 Facing southeast
Looking southeast shows the 657B CAT Scrappers lowering the grade level at the east side of the north Hill slope of cell 7

11:24 - Pioneering excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: Using the side blade the D8T bulldozer did benching excavation at the NW wall of the north hill as well as pioneering excavation on the west side to even out the ground and compact soil for the 657 B scrappers to come in and excavate.

Daily Monitoring Report

Location: 11S 349219E 3811902N

Depth of Ground Disturbance: About 8 feet from previous soil grade.

Soils/Lithology Description: The soil type at the west end of the north hill is tan silt-sand. The layer of brown siltstone runs throughout the west side.



11:24 Facing west
Looking west shows the D8T bulldozer doing pioneering excavation at the west side of the north hillslope

Summary of project related communications:
Excavation, soil grading and compaction will continue at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 28, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 77 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349286E 3811773N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, pioneering excavation, benching and soil compaction.

Type of Monitoring: Continuous Monitoring

Additional Notes: Today C.A Rassmussen continued excavating soil at the center area of the north hill slope. This center excavation area measures about 215 feet going east to west by 80 feet going north to south. The area of the road coming down the north hill has a width of about 40 feet by at least 140 feet in height.

Location: 11S 349282E 3811778N

Depth of Ground Disturbance: About 8 feet from the previous soil grade at a height that ranges from 140-160 feet from the bottom of the north hill to the top excavation area.

Soils/Lithology Description: At the north hill slope of cell 7 there is a layer of brown-red siltstone that runs across from the east to the west side of the hill. At the center top area and west road coming down the north hill the most abundant soil type is the fine grain soft tan silty-sand. This soil type has sandstone fragments and has been mixed with brown and gray siltstone fragments. The siltstone fragments come from the scattered patches of gray siltstone and the layer of brown siltstone.



07:00 Facing northeast
Looking northeast shows the 657 B CAT scrappers coming down the west side of the north hill of cell 7 CCL

00:19 - Over excavation activities at the north hill of cell 7

Type of Monitoring: Continuous Monitoring

Additional Notes: The west side of the north hill is the area from where the 657 B scrappers come up the hill slope to excavate. This bottom side of the hill has been compacted by the D10N bulldozer to even out the ground for the scrappers to have an easier time coming up and down the hill.

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Location: 11S 349278E 3811905N

Depth of Ground Disturbance: About 8 feet from the previous soil grade the north hill has a height that varies from 140 feet to 160 feet

Soils/Lithology Description: Tan silty-sand with sandstone fragments and gravel size round conglomerates. Sporadic patches of gray siltstone and a continuous layer of brown-red siltstone.



00:19 Facing southeast
Looking southeast shows the progress of excavation at the west side of the north hillside near the bottom of the hill

Summary of project related communications:
Excavation activities at the north hill slope of cell 7 will continue the rest of this week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 29, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 80 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349289E 3811773N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, pioneering excavation, soil compaction and vegetation removal

Type of Monitoring: Continuous Monitoring

Additional Notes: Today, C.A Rassmussen continued excavating the north hill slope of cell 7. Six 657 B CAT Caterpillar scrappers were used to lower the grade of the hill and take the excavated soil west into cell 8. The excavated soil was dumped on work areas like roads of cell 8. On the west side of the north hill the D8T bulldozer continued benching excavation at a height of about 60 to 80 feet from the base of the hill. While at the East end the D10 N bulldozer ripped the ground, loosening up soil for the soil to be taken by the scrappers. The D10N also compacted soil for the 657 B scrappers to have an easier time grading.

Location: 11S 349289E 3811772N

Depth of Ground Disturbance: About 12 to 8 feet from the previous soil grade.

Soils/Lithology Description: At the center top of the north hillslope there is a vein of brown-red siltstone that runs in an east to west direction. The most abundant soil type at the base of the north hill, the road going up the hill and the center top excavation area is fine grain tan-yellow silty-sand. At the west and east ends where there is chaparral vegetation there is brown silt loam soil.



07:00 Facing north
Looking north shows the difference in grade level on the north hill slope the west side has a lower height than the east end that has a higher soil grade level

11:15 - Soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: The D10N bulldozer and the D8T bulldozer occasionally would go into the road that goes up the north hill to compact soil so the 657 B scrappers do not get stuck going downhill or coming up the hill. The west side of the north hill has a

lower height beginning at about 15 feet above the base grade of cell 7 to 80 feet. While the east end excavation is at a higher soil grade level of about 140 to 160 feet from the base of the hill. No archaeological resources observed.

Location: 11S 349333E 3811745N

Depth of Ground Disturbance: About 8 to 12 feet from the previous soil grade.

Soils/Lithology Description: The most abundant soil type at the base and road going up the north hill is fine grain tan silty-sand. This soil has been mixed by the 657B scrappers and the D10N and D8T bulldozers with fragments of brown and gray siltstone. Sandstone fragments are also found as well as rounded conglomerate rocks.



11:15 Facing northeast
Looking northeast shows the D10N bulldozer also compacting soil at the base of the north hill.

Summary of project related communications:
Excavation activities at cell 7 will continue the rest of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: June 30, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 80 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348959E 3811022N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation at the east end of the North hill

Type of Monitoring: Continuous Monitoring

Additional Notes: Today, C.A Rassmussen is using six 657 B CAT Caterpillar scrappers to lower the grade level at the east end and center top of the north hill slope of cell 7 CCL. The height of the north hill at the east end ranges from 160 to 140 feet. There the D10N and the D8T bulldozers are also rippingn the ground to loosen up soil, the loose soil is being taken west into cell 8 by the 657 B scrappers. About 8 feet of soil were removed today from the east top end of the north hill of cell 7.

Location: 11S 348959E 3811022N

Depth of Ground Disturbance: About 8 feet from previous soil grade

Soils/Lithology Description: The north hill slope is inside the pico formation. There is a vein of brown siltstone that runs across the north hill going east to west. There are also scattered patches of dark and light gray siltstone especially at the center west and center east of the hill. Fine grain silty sand with sandstone and siltstone fragments is the most abundant soil at the north hill of cell 7.



07:00 Facing northeast
Looking northeast shows the 657 B CAT scrappers coming down the north hill after excavating soil at the east top end

- Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: The D10N bulldozer focused mainly on breaking the ground at the east top end of cell 7 while the D8T bulldozer also moved to the west sid of the hill to do pioneerimg excavation at the west end near the chapparral vegetation.

Daily Monitoring Report

Location: 11S 349183E 3811855N

Depth of Ground Disturbance: About 8 feet from the previous soil grade

Soils/Lithology Description: The most abundant soil type at the west side of the north hill is tan silt-sand. On this side of the hill there are patches of dark gray siltstone and the vein of brown siltstone that runs east to west.



Facing northeast
Looking northeast shows the excavation area at the west and center top of the north hill the D8T and D10N bulldozers are ripping the ground for the 657 B scrappers to grade soil.

Summary of project related communications:
Excavation at cell 7 will continue next week

☐ **COMPLIANCE** ☑ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 12:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 3, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 85 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349191E 3811774N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Soil compaction, benching, pioneering and grading excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen continued excavating the north hill slope of cell 7. At the west face of the north hill the D8T CAT Caterpillar bulldozer did pioneering excavation to remove the chaparral vegetation and break through the brown siltstone layer. At the east end the D10N bulldozer did pioneering excavation, soil compaction and continued breaking the ground for the 657 B scrappers to go through at the center top excavation area. The five 657 B scrappers that worked today took the excavated soil west and dropped it off into access roads of cell 8.

Location: 11S 349189E 3811774N

Depth of Ground Disturbance: About 8 feet of ground disturbance from the previous soil grade

Soils/Lithology Description: At the north hill slope of cell 7 there is a layer of brown siltstone that runs across the hill from the west side to the east end. Around the siltstone vein there is soft fine grain tan silty sand. The silty sand has yellowish sandstone fragments and brown and gray siltstone fragments. The topsoil at the west side where the chaparral vegetation is at is brown-red silt loam that soil has roots on it.



07:00 Facing northeast
Looking northeast shows the excavation done today by the five 657 B Caterpillar scrappers, the D8T and D10N bulldozer

12:02 - Compqction and benching excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: The area that was benched at the west of the north hill measures about 5 feet in width south to north by 215 feet east to west. The east end was the focus of the grading excavation done by the 657B CAT scrappers. The measurements of the

east and center excavation are about 80 feet north to south by 215 feet east to west. About 8 feet of soil were removed at the east end of the hill. No archaeological resources observed

Location: 11S 349194E 3811856N

Depth of Ground Disturbance: About 8 feet from previous soil grade.

Soils/Lithology Description: The soil at the center excavation area has been mixed by the 657 B scrappers but it consists of tan-yellow silty-sand, layers of brown-orange and dark gray-olive siltstone. There are fragments of sandstone inside the silt-sand as well as rounded conglomerate rocks.



12:02 Facing north
Looking north shows the D8T doing benching excavation and the D10 N bulldozers compacting soil at the top center area

Summary of project related communications:
Excavation at the north hill will continue the rest of this week after the 4th of july

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Sisco Valenzuela

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 5, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 80 ° F, 6 mph, 10 %, None		
Start Location: Zone 11S 349237E 3811458N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, pioneering, benching and soil compaction.

Type of Monitoring: Continuous Monitoring

Additional Notes: At the north hill of cell 7 C.A Rassmussen excavated from the west to the east end of the hill to lower the soil grade. The west side of the north hill has the lowest soil grade. It ranges from 15 feet in height from the base grade of cell 7 to 20 and 40 feet in height. The height of the hill gradually increases from the west to the center and the east end of the north hill. The height of the east end reaches about 140 to 150 feet in height. No archaeological resources observed.

Location: 11S 349284E 3811709N

Depth of Ground Disturbance: About 10 feet from previous soil grade

Soils/Lithology Description: The north hill slope of cell 7 is inside the pico formation. On the west end of the hill the dominant soil type is tan silty sand. Closer to the west chaparral vegetation there is also brown silty sand. Scattered patches of dark and light gray siltstone are seen across the hill from the east to the west end. The layer of brown siltstone now is more centralized less to the west more to the center and east end.



07:00 Facing northeast
Looking northeast shows the D8T bulldozer doing pioneering excavation at the west end of the north hill

11:20 - Over excavation, benching excavation and soil compaction.

Type of Monitoring: Continuous Monitoring

Additional Notes: Looking northeast shows the 657 b CAT caterpillar scrappers coming down from excavating soil at the north hill of cell 7. The dimensions of the benching excavation area at the northwest wall of cell 7 are about 6 feet in width by 220 feet in

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length east to west. The main excavation area at the top center of the north hill measures about 80 feet in width north to south by 240 feet east to west.

Location: 11S 349181E 3811782N

Depth of Ground Disturbance: About 10 feet from the previous soil grade

Soils/Lithology Description: Fine grain tan-brown and yellow silty-sand with fragments of yellow sandstone and gravel size conglomerate rocks.



11:20 Facing northeast
Looking northeast shows the 657 B scrappers coming down the north hill from excavating the east wnd of the north hill

Summary of project related communications:
Excavation will continue this week at the north hill of cell 7

☐ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

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Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 6, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 84 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349218E 3811558N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Pioneering excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeast hill slope of cell 7 the D8T CAT caterpillar bulldozer was clearing an access road that ran throughout the southeast excavation area. Soil compaction was also done to even out the ground at the dirt roads made from the 657 B scrappers excavating soil. The dimensions of the gravel road that was cleared is about 10 feet in with by 300 feet in length east to west. No archaeological resources encountered.

Location: 11S 349230E 3811592N

Depth of Ground Disturbance: About two feet of ground disturbance from the grade of cell 7

Soils/Lithology Description: The soil type on the southeast hill slope of cell 7 is tan-gray silt-sand soil with rounded gravel size conglomerate rocks. This area has some minor ground disturbance in the form of gravel roads and underground gas lines adjacent to the brush vegetation.



07:00 Facing north
Looking north shows the D8T bulldozer compacting soil and clearing up a path at the southeast hillslope of cell 7.

09:21 - Over excavation, pioneering and soil grading.

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen used the six 657 b CAT scrappers to excavate soil from the east to the west end of the north hill. The D8T bulldozer moved to the north hill to continue doing benching excavation and the D10N bulldozer did pioneering excavation and soil compaction at the east end of the north hill. A DEERE grader was used to compact the dirt road that goes up and comes down the north hill as well as the access roads used by the 657 B scrappers to take the excavated soil to the west

tailboard meeting spot. The excavation area at the center top of the north hill measures about 80 feet in width by 240 feet in length from the east to the west. The west side of the north hill gradually increases in height to reach the highest point at the east end which measures about 140 to 150 feet from the base of the hill to the excavation area.

Location: 11S 349327E 3811750N

Depth of Ground Disturbance: About 8 feet of ground disturbance from the previous soil grade

Soils/Lithology Description: Fine grain soft silt-sand, this soil is tan in color. The silty sand has fragments of yellowish sandstone. There are patches of dark gray and light gray siltstone scattered at the excavation areas from the west to the east end of the north hill. A light brown siltstone layer is present from the center of the excavation reaching the east end.



09:21 Facing northeast
Looking northeast shows the 657 b scrappers excavating the north hill while the D8T bulldozer does benching excavation at the north wall

Summary of project related communications:
Excavation at the north and southeast slope of cell 7 will continue the rest of this week at ccl cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 7, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 80 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348958E 3811053N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation and soil grading at the southeast hill of cell 7

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen started to excavate the southeast hill slope of cell 7 this area is also labeled as the south borrow. Six 657 B CAT Caterpillar scrappers were used to lower the grade level at the southeast hill slope. The excavation area measured about 40 to 50 feet in width north to south by about 320 feet in length in an east to west direction. The amount of soil excavated today was about 6 feet from the previous soil grade. All the excavated soil was taken west to work areas of cell 8. No archaeological resources observed.

Location: 11S 348958E 3811053N

Depth of Ground Disturbance: About 10 feet from the previous soil grade

Soils/Lithology Description: The soil type at the southeast hillslope inside the south borrow area is more uniform the dominant soil type is soft light tan silt-sand this soil has gravel size round edge conglomerate rocks. The silt-sand soil interminently varies in color from gray to light brown. Coarse grain light gray-white sand is also seen. Tan siltstone/ tan sandstone fragments are observed all throughout the southeast slope from the east to west. Patches of brown/ gray siltstone are also observed but in small amounts.



07:00 Facing west
Looking west shows the 657 b scrappers taking the excavated soil up west to work areas of cell 8

10:26 - Soil grading excavation

Type of Monitoring: Continuous Monitoring

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Additional Notes: The southeast hillslope is an area that measures about 40 feet by 320 feet the east end of this hill slope is about 35 feet higher than the base grade of the south side of cell 7 that has the gravel roads. The west side of the hill is about 35 feet lower than the east side. In front of the southeast slope to the north there is a drop of about 250 feet. The slope is covered with shrub vegetation.

Location: 11S 349211E 3811588N

Depth of Ground Disturbance: About 6 feet of soil from the previous grade

Soils/Lithology Description: The southeast hill slope excavation area is inside the saugus formation. Soft tan-brown-gray silt sand is the prevalent soil type at the southeast hillslope of cell 7. The topsoil at the northside of the hill with the shrub vegetation is brown silt-sand.



10:26 Facing east
Looking east shows the 657 b scrappers coming down from excavating soil at the southeast hillslope.

Summary of project related communications:
Excavation activities will continue next week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 10, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 84 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349179E 3811780N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Pioneering excavation, over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen is excavating at the north borrow hill slope. Six 657 b scrappers are excavating the center and east end of the north hill to take the loose soil west into work areas of cell 8. The D8T bulldozer is doing pioneering excavation at the west side of the hill while the D10N bulldozer does pioneering excavation at the east end. At the base of the north hill a small DEERE H67 mini excavator is removing soil to clear a concrete ditch from loose soil that blocks the continuous path of the ditch. About 8 feet of soil were excavated today. At the end of the day C.A Rassmussen moved into cell 8 to excavate at the hill landslide area.

Location: 11S 349167E 3811799N

Depth of Ground Disturbance: About 8 feet from the previous soil grade.

Soils/Lithology Description: The north borrow hill slope is located inside the pico formation. The most abundant soil type of the north borrow is fine grain tan-yellow silty-sand. This soil has gravel size round conglomerate rocks.



07:00 Facing north
Looking northeast shows the 657 b scrappers excavating soil at the center of the north hill while the two bulldozers excavate at the east and west ends.

11:00 - Over excavation, benching excavation.

Type of Monitoring: Continuous Monitoring

Additional Notes: The main excavation area at the north hill slope measures about 295 feet going east to west by 80 to feet in width going north to south. The west side of the excavation at the north borrow measures about 5 to 15 feet of height compared

to the base geade of cell 7. The height of the excavation at the north hill slope gradually increases from the west to the east. The center area has a soil height of about 120 to 130 feet above the grade of cell 7. The highest point of excavation is the east end with about 150 feet in height from the base of the north hill.

Location: 11S 349182E 3811867N

Depth of Ground Disturbance: 8 feet from previous soil grade

Soils/Lithology Description: The soil type at the north hill slope is highly varied. There is a vein of brown siltstone that goes from the center to the east end of excavation. At the north wall benching excavation area, there is tan-gray- brown silty sand as well as fine grain yellow silty sand. Small fragments of shell fossils were seen at the west benched area out of situ.



11:00 Facing east
Photo looking at the center excavation of the north hill and the north wall that is the benched excavation area.

Summary of project related communications:
Excavation at the north hill slope of cell 7 will continue the rest of this week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 11, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 94 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348808E 3811009N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Excavation activities continued today at the north borrow hill slope of cell 7. C.A Rassmussen used the D10N CAT bulldozer to break the ground at the main center excavation area of the north hill. The D10N is working from the east to the west end of the hill. All the loose sediment is being picked up by the 5 657b caterpillar scrappers and taken west into roadwork areas of cell 8. A John DEERE tractor also comes into the north slope to compact the sediment and even out the surface.

Location: 11S 349288E 3811893N

Depth of Ground Disturbance: About 8 feet from the previous soil grade

Soils/Lithology Description: At the west side of the excavation going up the north hillslope the stratigraphy is varied there is soft tan-yellow silty sand. This sediment type is occasionally mixed with yellow sandstone and brown or gray siltstone. The sediments are usually in beds of 2 feet of depth or more. The lithology closer to the center is changing to yellowish tan siltsand. At the east end brown sediment is also present on the brush chaparral vegetation area.



07:00 Facing north
Looking north shows the path that the 657 b CAT excrapers take to go up the north borrow hill slope

11:08 - Over excavation, soil grading and compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: At the east end the D10N bulldozer did pioneering work to remove brush vegetation and break the continuous bed of brown siltstone. The excavation area at the north borrow hill slope measures about 80 feet in width in a north to south

direction while the length of the excavation area measures about 295 feet from the east to the west end of the excavation area. The amount of soil removed today is about 8 feet from the previous soil grade, no archaeological resources observed.

Location: 11S 349288E 3811893N

Depth of Ground Disturbance: About 8 feet from the previous soil grade

Soils/Lithology Description: The lithology at the east end of the north hill slope of cell 7 is varied at the north wall that is being benched there is brown-orange siltstone and light gray silty sand sediment with gray siltstone. Closer to the center and south side of the east end the sediment becomes tan silty sand with yellow sandstone fragments.



11:08 Facing south
Looking south shows the D10N bulldozer doing pioneering excavation at the east end of the north hill slope

Summary of project related communications:
Excavtion work will continue this week at cell 7.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 12, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 94 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349210E 3811574N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation, pioneering excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Today, C.A Rassmussen focused on excavating the southeast hillslope of the south borrow area. Five 657 b CAT scrappers excavated from the west to the east end of the south hill slope to lower its soil grade level. About 8 feet of soil were removed today from the previous grade. The D10N bulldozer started doing pioneering excavation at the east end of the southeast slope to remove brush vegetation and loosen up the sediment. Later in the day, the D10N bulldozer moved west to begin cutting the west side of the southern hill to make another access road for the scrappers to take the excavated soil west. No archaeological resources observed.

Location: 11S 349216E 3811546N

Depth of Ground Disturbance: About 8 feet from previous soil grade level

Soils/Lithology Description: At the southeast hill slope of the south borrow the dominant soil type is fine grain tan silty sand. On the southeast there is also coarse grain light gray-white sand. At the areas close to the shrub vegetation brown silt loam is the sediment. Rounded edge gravel size conglomerates are visible.



07:00 Facing southeast
Photo looking southeast shows the 657 b scrappers excavating at the south borrow hillslope and the D8T bulldozer doing pioneering excavation.

11:00 - Benching excavation and pioneering excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the east end and the north wall of the north borrow hillslole of cell 7 a D8T bulldozer kept excavating. The purpose of the excavation is to remove all the loose soil and large conglomerate rocks to compact the surface area of the continuous north wall benched area. The D8T bulldozer also removed brush and grass vegetation.

Location: 11S 349188E 3811849N

Depth of Ground Disturbance: About 6 feet from the previous soil grade

Soils/Lithology Description: The sediments at the east end of the north borrow are mainly beds of tan-yellow silty sand. There are also silty sand sediments light gray and light brown in color. There are a good amount of conglomerate rocks and tan-yellow sandstone in this area.



11:00 Facing east
At the east end of the north borrow of cell 7 the D 8T CAT bulldozer is doing benching and pioneering excavation

Summary of project related communications:
Excavation will continue at the south and north borrow areas of cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 13, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 94 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349281E 3811454N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Today C.A Rassmussen excavated soil at the north borrow hill slope. Six 657 b scrappers started grading soil at the north hill to lower the depth and grade of the excavation area. The 657 b scrappers took the excavated soil west into work areas of cell 8. The 657 b scrappers also dropped excavated soil into the newly cut access road that is at the southeast hillslope of cell 7. An 824 C CAT front loader compacted the soil at the new access road of the southeast hill slope. About 8 feet of sediment was excavated today. No cultural resources encountered.

Location: 11S 349281E 3811454N

Depth of Ground Disturbance: About 8 feet from the previous soil grade

Soils/Lithology Description: The sediment at the west access road of the southeast hillslope is fine grain silty sand, and coarse grain gray sand. This sediment has rounded rock conglomerates and fragments of gray sandstone.



07:00 Facing west
Looking west shows the 657 b scrappers dropping soil from the north hillslope intk the newly cut west access road

09:37 - Excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: The excavation area of the north borrow hill slope measures about 290 feet from the west side to the east end of the excavation. The width of the excavation is about 80 feet north to south. About 8 feet of soil were excavated today by the 657 b scrappers.

Daily Monitoring Report

Location: 11S 349216E 3811872N

Depth of Ground Disturbance: About 8 feet from the previous soil grade

Soils/Lithology Description: At the west end of the north borrow the nature of the lithology is tan silt-sand. The silty sand is also observed in olive-gray and light brown color. Coarse grain yellow sand is also present. And patches of dark gray siltstone is visible at the west side of the north borrow. At the north wall and the eastern end of the north hill there is a continuous bed of brown siltstone. The east end also has fine grain tan-yellowish and brown silt-sand.



09:37 Facing west
Shows the 657 b cat scrappers lowering the sediment depth at the north borrow hill slope.

Summary of project related communications:
Over excavation activities will continue this week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 14, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 95 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349269E 3811477N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Today, C.A Rassmussen continued excavating at the north borrow hill slope. The six 657 B Caterpillar scrappers lowered the sediment grade at the center excavation area of the north hill from the east to the west end. At the north center wall, the D8T bulldozer continued benching excavation and later moved west to do pioneering excavation. At the east end the D10N bulldozer did pioneering excavation to break siltstone beds and compact the loose soil. A small excavation was also done at the west end of the north hill by a DEERE mini excavator to fix the end of the benched area.

Location: 11S 349269E 3811478N

Depth of Ground Disturbance: About 8 feet of soil from the previous grade level

Soils/Lithology Description: At the west side of the north borrow hill slope the sediment types are varied the dominant sediment is light tan silty sand, there is also light brown and tan-yellow silty sand. A bed of dark gray siltstone is present at the west end. At the north wall area that is being benched the sediment is light gray-light yellow-brown silty sand. Moving to the east end there are beds of brown siltstone and coarse grain yellow-brown sand.



07:00 Facing northeast
Looking northeast shows all the excavation activities happenning at the north borrow hill slope

10:37 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: Later in the day two 657 b Caterpillar scrappers and a DEERE 873 GP grader blade did over excavation and soil compaction at the south borrow. The excavation area at the center south borrow measures about 110 feet north to south by 360 feet east to west. About 4 feet of soil were removed from this area today. No archaeological resources have been observed.

Location: 11S 349270E 3811720N

Depth of Ground Disturbance: About 4 feet from the previous soil grade

Soils/Lithology Description: At the south borrow center excavation area the dominant soil type is soft fine grain tan- light gray silty sand. There is also light gray coarse grain sand with gravel size round conglomerates. Running east to west there is a bed of dark gray-olive siltstone.



10:37 Facing east
Looking east shows the 657 b cat scrappers excavating at the center south borrow area of cell 7

Summary of project related communications:
Excavation activities will continue next week at cell 7.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☐ Yes ☑ No

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 17, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 95 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348303E 3810884N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Pit excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At 1158 feet of elevation on a west hill slope of cell 8, C.A Rassmussen is excavating a pit the purpose of the excavation is to remove loose soil from a landslide area. The excavated pit measures about 12 feet east to west by 35 feet south to north. The depth of the excavation is about 8 feet. The excavated soil was stockpiled on site. After the pit was excavated by the DEERE excavator, the pit was slowly backfilled with compacted soil, a BW177PDH-3 roller compactor was used to compact the bottom sediment of the pit. No archaeological resources observed.

Location: 11S 348308E 3810881N

Depth of Ground Disturbance: About 8 feet of depth was reached

Soils/Lithology Description: The sediment type at the landslide area of cell 7 is light gray-tan silt and coarse grain dark gray- tan sand. The excavation area is mapped as being part of the saugus formation.



07:00 Facing southeast
Looking southeast shows the DEERE excavator at cell 8 excavating a pit to remove loose sediment from the hilltop landslide

11:29 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the north hill slope of cell 8 C.A rassmussen continued over excavation activities. Five 657 b scrappers excavated soil at the top center of the north hill going east to west. At the west end a D8T bulldozer did pioneering excavation and at the east end of the hill a D10N bulldozer did pioneering excavation. No archaeological resources observed.

Daily Monitoring Report

Location: 11S 349166E 3811795N

Depth of Ground Disturbance: About 12 feet from the previous soil grade

Soils/Lithology Description: The sediment type at the west of the north hill is a bed of dark gray siltstone surrounded by tan-yellow silt-sand. At the center and east end of the north hill there are small beds of brown siltstone. The tan-yellow silt-sand sediment reaches the east end on the north hill.



11:29 Facing east
Photo looking east shows the D8T bulldozer doing pioneering excavation at the west of the north hill. At the east end the D10N bulldozer is also doing pioneering excavation.

Summary of project related communications:
Excavation at the north hillslope of cell 7 will continue the rest of the week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 18, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 96 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349269E 3811467N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen continued over excavation activities at the north borrow hill slope of cell 7. The purpose of the excavation is to lower the grade of the slope. Five 657 B scrappers are grading soil from the east to the west end of the hill. The D10N bulldozer is doing pioneering excavation at the south side and east side of the center excavation to break the brown and gray siltstone.

Location: 11S 349269E 3811467N

Depth of Ground Disturbance: About 12 feet from the previous soil grade

Soils/Lithology Description: The soil at the west side of the north hill slope is light gray-white silty sand. There is also tan- yellow brown silty sand closer to the southwest of the hill. At the north wall area of the west side that has been benched there is a small bed of dark gray siltstone.



07:00 Facing southeast
Looking southeast shows the progress of excavation at the west end of the north hill slope, the grade has been brought down to the level of the concrete water way

09:36 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen is doing over excavation and lowering the soil grade at the main excavation area of cell 7. The purpose of the excavation is to bring down the grade of the excavated area evenly from the east to the west end of the hill. The

Daily Monitoring Report

D10 N bulldozer continues to break the ground to crumple beds of hard silstone. The excavation area measures about 315 feet east to west by 80 feet north to south about 12 feet of soil were removed today. No cultural resources observed.

Location: 11S 349182E 3811826N

Depth of Ground Disturbance: About 12 feet from the previous soil grade

Soils/Lithology Description: The soil type at the east end of the north hill slope is mostly tan-yellow silty sand, there is a continuous bed of brown-orange siltstone at the north wall of the east end.



09:36 Facing east
Looking east shows the 657 b CAT scrappers excavating the east end of the north hillslope at cell 7

Summary of project related communications:
Over excavation activities at cell 7.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 19, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 96 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349278E 3811466N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: On the southeastern hill slope of cell 7 in the south borrow area C.A Rassmussen inc is doing over excavation. The purpose of the excavation is to lower the soil grade across the east and west ends of the hillslope. Four 657 b Caterpillar scrappers were used to do the over excavation. About 8 feet of soil were excavated in an area measuring about 60 feet north to south by 330 feet east to west. At the east end of the south borrow, the D10N bulldozer did pioneering excavation to remove the shrub vegetation. No archaeological resources observed.

Location: 11S 349278E 3811464N

Depth of Ground Disturbance: About 8 feet from the previous soil grade

Soils/Lithology Description: At the southeastern hill slope of the south borrow area the lithology is predominantly tan-gray silty sand. The silty sand also is visible in brown-gray color. Coarse grain gray-white sand is observed in it. There are rounded conglomerate rocks. There is brown silty loam at the east end of the hill where shrub vegetation is seen.



07:00 Facing east
Photo looking east shows the 657 b CAT scrappers grading the southeastern hill slope of cell 7, the D10N bulldozer is at the east end doing pioneering excavation.

09:45 - Over excavation and benching excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the north borrow hill slope of cell 7 C.A Rassmussen had a D8T bulldozer do benching excavation and over excavation to breakdown sediment beds of brown and gray siltstone. Two 657b CAT scrappers also graded soil at the north borrow

going east to west. The excavation area covered today at the north hill slope measures about 80 feet north to south by about 315 feet east to west about 6 feet of soil were excavated today. All the excavated soil was taken west to be dumped in work areas of cell 8. No archaeological resources observed.

Location: 11S 349351E 3811910N

Depth of Ground Disturbance: About 6 feet from the previous soil grade

Soils/Lithology Description: The lithology of the center south side area of the north hill slope is light gray-tan sediment. At the east end of the north borrow excavation there is a bed of yellow coarse grain sand. At the north wall of the excavation area there is a continuous layer of brown-orange siltstone. Patches of brown silt and gray siltstone are seen at the center of the north hill slope.



09:45 Facing west
Looking west shows the D8T bulldozer breaking the brown siltstone layers at the east end and center north wall of the north borrow.

Summary of project related communications:
Over excavation at the south and north hillslopes of cell 7 will continue this week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 20, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 96 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349267E 3811464N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen started doing over excavation at the area between the north borrow and the south borrow hill slopes. Three 657 B Caterpillar scrappers did over excavation in this area measuring about 60 feet south to north by 320 feet east to west. At the east end of the center excavation area a D10N CAT Caterpillar bulldozer was used to do pioneering excavation and break sediment beds of siltstone. All the excavated soil was taken west into work areas of cell 8. No archaeological resources observed.

Location: 11S 349269E 3811470N

Depth of Ground Disturbance: 10 feet from the previous soil grade

Soils/Lithology Description: The soil lithology at the excavation area between the north and south borrow is predominantly gray-tan, soft, fine grain silty sand there is also coarse grain light gray-white sand with round edge conglomerate rocks. The northwest side of excavation has sediment beds of dark gray siltstone and brown-orange siltstone. As depth increases coarse grain orange sand is also visible in patches across the excavation area from the east to the west end of excavation.



07:00 Facing south
Looking southwest shows the D10N bulldozer breaking the ground while a 657 b CAT scrapper excavates soil at the area between the south and north borrow

10:12 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the north borrow excavation area, C.A Rassmussen had 2 CAT 657B scrappers do over excavation going east to west. The D8T Caterpillar bulldozer did pioneering excavation at the east and west ends of the north borrrow to break a path for the 657 b scrappers to not get stuck. The work area at the north borrow measures 335 feet east to west by 80 feet north to south. About 8 feet of soil were removed from this area today. No paleontological resources observed.

Location: 11S 349340E 3811909N

Depth of Ground Disturbance: About 12 feet from the previous soil grade.

Soils/Lithology Description: The dominant soil lithology at the north borrow hill slope is tan-yellow silt-sand. At the center and east end of the north wall benched area there is a continuous bed of brown-orange siltstone. At the west end of the north wall benching area there is a sediment bed of gray siltstone.



10:12 Facing west
Looking west shows the two 657 b CAT scrappers doing over excavation at the north borrow while the D8T bulldozer does pioneering excavation at the west end

Summary of project related communications:
Excavation activities at cell 7 will continue the rest of the week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 21, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 99 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349264E 3811492N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Today C.A Rassmussen inc focused on excavating the center area between the north and south borrows. Five 657 B CAT Caterpillar scrappers were used to do over excavation. The purpose of the excavation is to lower the grade depth level and compact the ground. A D10N Caterpillar bulldozer did pioneering excavation at the east end of the center excavation area to remove shrub vegetation. The bulldozer also broke sediment beds of dark gray and brown siltstone. At the road going to the north borrow, a D8T bulldozer compacted the soil at the base of the north hill slope. No cultural resources observed.

Location: 11S 349264E 3811492N

Depth of Ground Disturbance: About 12 feet from the previous soil grade

Soils/Lithology Description: The lithology at the center excavation area between the north and south borrow is mainly gray-tan silty sand. As depth increases beds of dark gray siltstone are encountered as well as coarse grain orange sand. There is also coarse grain gray-yellow sand with round conglomerates. Brown silt sediment is also encountered at the south side close to the shrub vegetation. Patches of brown siltstone are encountered at the center and east area of work.



07:00 Facing southwest
Looking southwest shows the D10N bulldozer breaking the ground and 657 b scrappers excavating at the center excavation area between the north and south borrow.

09:58 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: The area of excavation at the center of cell 7 between the north and south borrows measures about 330 feet east to west by 135 feet north to south. About 10 to 12 feet of soil were removed today and taken west to work areas of cell 8. Soil was also dumped at the new access road made at the southwest of the south borrow. No archaeological resources observed.

Location: 11S 349225E 3811677N

Depth of Ground Disturbance: About 12 feet from the previous soil grade

Soils/Lithology Description: The lithology of the center excavation area between the north and south borrow is mainly gray-tan silty sand. As depth increases beds of gray siltstone are encountered as well as coarse grain orange sand. There is also coarse grain gray-yellow sand with round conglomerates. Brown silt is also encountered at the south side close to the shrub vegetation.



09:58 Facing east
Looking east shows the excavation area of the center of cell 7 between the south and north borrows.

Summary of project related communications:
Over excavation at the south borrow of cell 7 will continue next week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 24, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 79 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349292E 3811463N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation and soil compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc is over excavating soil at the south borrow southeastern hill slope and at the center area of cell 7 between the north and south borrows. 3 657 B CAT Caterpillar scrappers are excavating the south borrow hill slope. A D9L bulldozer is doing pioneering excavation at the east end of the southeast south borrow hill slope. The 657 b scrappers begin excavating at the west side of excavation and loop around the hill at the east end. The excavated soil was taken west into work areas of cell 8. The south borrow excavation area measures about 79 feet north to south by 335 feet east to west. About 10 to 12 feet of soil was excavated today.

Location: 11S 349276E 3811480N

Depth of Ground Disturbance: About 10 to12 feet from previous soil grade

Soils/Lithology Description: The dominant soil type at the southeast hills lope of the south borrow is tan-gray silt sand, at the north and east areas with chaparral vegetation there is brown silt soil.



07:00 Facing east
Looking east shows the 657 b CAT scrappers excavating at the southeastern hill slope of the south borrow

09:42 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the north and south borrows C.A Rassmussen over excavated soil using 5 657 B Caterpillar scrappers. A D8T bulldozer was used to breakdown brown and gray siltstone sediment beds that run east to west. The

area of excavation at the center of cell 7 measures about 335 feet east to west by 135 feet north to south. About 10 to 12 feet of soil were excavated today.

Location: 11S 349251E 3811721N

Depth of Ground Disturbance: About 10 to 12 feet from the previous soil grade

Soils/Lithology Description: The lithology at the center excavation area of cell 7 between the north and south borrow is mainly gray-tan silty sand. At the north side of excavation there is a layer of dark gray siltstone. On the south side of the excavation there is light gray-white sand. At the center the sediments are mixed there is brown-yellow silty sand.



09:42 Facing east
Looking east shows the excavation at the center of cell 7 between the south and north borrows

Summary of project related communications:
Excavation activities will continue all week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 25, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 80 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349269E 3811483N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continued over excavation at the center area of cell 7 between the north and south borrows. A D8T caterpillar bulldozer did pioneering excavation at the east end to lower the soil grade and breakdown sediment layers. Two 657 b CAT scrappers over excavated this area taking all the soil west into work areas of cell 8. About 10 to 12 feet of sediment was excavated today. No archaeological resources encountered.

Location: 11S 349268E 3811485N

Depth of Ground Disturbance: About 10 to 12 feet from the previous soil grade

Soils/Lithology Description: The lithology at the center area of cell 7 is predominantly a mixture of tan-gray and yellow- brown silty sand. At the north side there is a sediment bed of dark gray siltstone. And at the east end there is a sediment bed of brownish orange siltstone.



07:00 Facing southeast
Looking southeast shows the 657 b CAT scrappers excavating the center of cell 7 and the D8T bulldozer at the east end

10:06 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the east end of the south borrow a D9L Caterpillar bulldozer helped push three 657 b Caterpillar scrappers to continue cutting soil to take it west into cell 8. A D10N bulldozer also did pioneering excavation at the east and north sides of the south borrow to breakdown sedimentary beds of hard gray and brown siltstone. No archaeological resources encountered.

Daily Monitoring Report

Location: 11S 349279E 3811716N

Depth of Ground Disturbance: 10 to 12 feet from the previous soil grade

Soils/Lithology Description: The soil type at the east end of the south borrow is yellow-tan silty sand. Close to the shrub vegetation area at the east end and north side there is brown silt mixed with gray silt-sand. At the center of the south borrow there is also white-gray sand with conglomerate rocks.



10:06 Facing northwest
Looking northwest shows the over excavation activity at the east end of the south borrow.

Summary of project related communications:
Excavation activities will continue at cell 7 this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: David casarez

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 26, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:00
Weather (Temperature, wind speed, cloud cover, precipitation): 101 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349271E 3811459N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen continues excavation activities at the southeastern hill slope of the south borrow. Both a D9L and a D10N Caterpillar bulldozer continue doing pioneering excavation at the east end of the hill slope to remove vegetation and break sediment beds to loosen up soil. Four 657 b caterpillar scrappers took the loose excavated soil west into work areas of cell 8. About 10 to 12 feet of soil were excavated today. No archaeological resources observed.

Location: 11S 349271E 3811459N

Depth of Ground Disturbance: 10 to 12 feet from previous soil grade

Soils/Lithology Description: At the south borrow area the lithology of the southeastern hill slope is dominated by gray-tan silty sand. At the north and east ends of this excavation area there is brown silt on the areas with chaparral vegetation. There is also a combination of tan-yellow silt-sand at the center of the hill slope.



07:00 Facing east
Photo looking east shows the two CAT bulldozers at the east end and the 657 b Caterpillars scrappers excavating the Southeastern hillslope of the south borrow

10:07 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continued over excavating the center area of cell 7 between the south and north borrows. Three 657 b CAT caterpillar scrappers used their bottom blade to cut the sediment beds and take all the excavated soil west into

Daily Monitoring Report

cell 8. The D8T bulldozer constantly broke sediment beds to loosen up the soil for the 657 b scrappers to pick it up. No archaeological resources observed.

Location: 11S 349247E 3811680N

Depth of Ground Disturbance: About 8 to 10 feet of soil were removed today

Soils/Lithology Description: The lithology of the center excavation area at cell 7 is comprised of a continuous dark gray-black siltstone sediment bed at the north side of the excavation. At the center of excavation there is a mixture of yellow-brown tan silty sand. And the south side has white-light gray sand.



10:07 Facing east
Looking east shows the excavation area at the center of cell 7 between the north and south borrows

Summary of project related communications:
Over excavation will continue the rest of the week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 27, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 102 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349268E 3811475N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues over excavation activities at the center area of cell 7 between the north and south borrows. Five 657 B Caterpillar scrappers are doing the over excavation going east to west. A D8T bulldozer is also breaking sediment beds for the scrappers to have an easier time cutting the ground. All the excavated sediment is being taken west into worm areas of cell 8. No cultural resources observed.

Location: 11S 349268E 3811475N

Depth of Ground Disturbance: About 10 to 12 feet

Soils/Lithology Description: The lithology at the center excavation area of cell 7 between the south and north borrows is predominantly tan- gray/yellow silty sand. There is also a new brown siltstone layer at the north side of the center excavation. And there are dark-gray siltstone patches scattered at the north of excavation.



07:00 Facing east
Looking east shows the 657 b CAT scrappers doing over excavation at the center area of cell 7 between the south and north borrows

09:56 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc used three 651 b caterpillars scrappers to excavate the southeastern hill slope at the south borrow of cell 7. A D9L bulldozer helped the 651 b scrappers cut the ground by pushing the scrappers forward. While a D10N

caterpillar bulldozer continued breaking sediment beds to facilitate excavation for the 651 b scrappers. No cultural resources observed.

Location: 11S 349271E 3811465N

Depth of Ground Disturbance: 8 to 10 feet of soilmfeom the previous grade level

Soils/Lithology Description: The lithology at the southeastern hill slope of the south borrow of cell 7 is predominantly tan-gray silty sand. There are fragments of tan sandstone and siltstone as well as rounded conglomerate rocks on this sediment. At the north and east end of this area there is brown silt with shrub vegetation. And there are patches of white and yellow coarse grain sand at the center of this excavation.



09:56 Facing north
Looking north shows the 651 b CAT scrappers doing over excavation at the east end of the southeastern borrow

Summary of project related communications:
Excavation activities will continue this week at cell 7 CCL

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 28, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 102 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349266E 3811468N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues over excavation activities at the southeastern hill slope of cell 7 this area is part of the south borrow. At the south side the D8T Caterpillar bulldozer broke the ground to expand the area being over excavated. In total three 651 b CAT scrappers continued cutting and excavating soil going east to west. The purpose of the D9L bulldozer was to compact soil and help the 651 b scrappers on the cut by pushing them when excavating. About 8 to 10 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349266E 3811468N

Depth of Ground Disturbance: 8 to 10 feet from the previous depth level

Soils/Lithology Description: At the southeastern hill slope of cell 7 inside the south borrow area, the lithology is predominantly gray-tan and yellow silty sand. At the east and north sides there is brown silt on the areas with chapparral vegetation. On the silty sand there is rounded conglomerate rocks.



07:00 Facing east
Looking east shows the 651 b scrappers over excavating at the southeastern hill slope of the south borrow, the D8T bulldozer is breaking the ground at the south side

11:06 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center excavation area of cell 7 between the south and north borrows C.A Rassmussen inc used five 657 b CAT scrappers to keep cutting sediment beds to lower the depth level of this area. The D10N Caterpillar bulldozer also broke

sediment beds of siltstone at the north and center of this area and helped push the five 657 b scrappers when excavating siltstone. About 8 to 10 feet of soil were excavated today. No cultural resources found today.

Location: 11S 349269E 3811731N

Depth of Ground Disturbance: About 8 to 10 feet feom the previous soil grade

Soils/Lithology Description: At the north side of the center excavation area between the south and north borrows there is a sediment bed of brown-orange siltstone. The dominant sediment type is tan-gray silty sand there is also yellow-brown silty sand. Patches of dark gray siltstone are observed scattered at the north and center of excavation.



11:06 Facing southeast
Looking southeast shows the excavation at the center of cell 7 the bulldozer is breaking the ground at the north side and the 657 b CAT scrappers continue over excavation

Summary of project related communications:
Excavation at the center and south borrow of cell 7 will continue next week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: July 31, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 96 ° F, 5 mph, 80 %, None		
Start Location: Zone 11S 349274E 3811468N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hill slope of the south borrow C.A Rassmussen inc continues over excavation to lower the overall depth level of this area. Here, three 651 b CAT scrappers are being used to over excavate soil. A D9L CAT bulldozer helps compact soil and pushes the scrappers forward. At the east end of excavation, a D10N Caterpillar bulldozer is doing pioneering excavation to remove shrub vegetation, break hard sediment beds, and occasionally push scrappers. No cultural resources observed.

Location: 11S 349274E 3811468N

Depth of Ground Disturbance: About 8 to 10 feet from the previous depth level

Soils/Lithology Description: At the southeastern hill slope of cell 7 the lithology is predominantly tan-gray silty sand. The color of the silty sand is also brown-yellow at the center and north side of the hill. At the east end there are brown siltstone sediment beds. The southeastern hill slope has undisturbed shrub vegetation at the north and east sides of excavation.



07:00 Facing northeast
Looking northeast shows the D9L bulldozer pushing the 651 b CAT scrappers to cut the ground and excavate soil

11:38 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the north and south borrows, C.A Rassmussen continues to over excavate soil to lower the depth level of this area down to the level marked by orange flagged wood stakes. At the north side of excavation, the stakes are about 40 feet lower than the current excavation grade. A D8T Caterpillar bulldozer is breaking sediment beds of orange-

brown and dark gray siltstone. While four 657 b Caterpillar scrappers cut through the sediment and take the excavated soil west into stockpile areas of cell 8. No cultural resources observed.

Location: 11S 349324E 3811506N

Depth of Ground Disturbance: About 6 to 8 feet from the previous soil grade

Soils/Lithology Description: The lithology at the center area of cell 7 between the north and south borrows is predominantly tan-gray silty sand. At the south side the silty sand is also yellow-brown. At the center of excavation there is a sediment bed of brown siltstone and light-dark gray siltstone.



11:38 Facing east
Looking southwest shows the 657 b Caterpillar scrappers taking the excavated soil west into work areas of cell 8

Summary of project related communications:
Over excavation at cell 7 will continue all of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 1, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 90 ° F, 5 mph, 30 %, None		
Start Location: Zone 11S 349265E 3811466N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center excavation area of cell 7 between the north and south borrows, C.A Rassmussen inc continued over excavation activities. A D8T Caterpillar bulldozer focused on doing pioneering excavation at the south side of the center area removing shrub vegetation. Four 657 b CAT scrappers continued cutting sediment beds at the east and north sides of the area, all the excavated sediment was taken to work areas of cell 8. About 8 to 10 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349270E 3811474N

Depth of Ground Disturbance: About 8 to 10 feet from the previous soil grade

Soils/Lithology Description: At the center excavation area of cell 7 between the south and north borrows the lithology is varied; tan-gray silty sand dominates this excavation area. At the North side there is a sediment bed of brown siltstone and a separate sediment bed of gray siltstone. Coarse grain yellow and white sand is also observed at the south side of excavation. Round gravel size conglomerate rocks are observed. No cultural resources observed.



07:00 Facing south
Looking south shows the D8T bulldozer doing pioneering excavation at the south side of the center excavation area, and the 657 b scrapers are excavating soil going west

10:44 - Pioneering excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the north and east sides of the southeastern hill slope of the south borrow there is a hill drop off about 80 feet or more of depth. Part of this hillside is going to be over excavated by the 651 b scrappers. The D8T bulldozer did preliminary pioneering excavation at the east end of the south borrow above this drop off area.

Location: 11S 349500E 3811694N

Depth of Ground Disturbance: 8 feet from previous depth level

Soils/Lithology Description: At the east and north ends of the southeastern hill slope excavation of the south borrow the lithology is predominantly yellow-brown silty sand. This area is full with shrub vegetation that has not been disturbed.



10:44 Facing southwest
Looking southwest shows the D8T bulldozer doing pionering excavation at the east end of the southeastern hillslope excavation of the south borrow

Summary of project related communications:
Excavation activities will continue the whole week at cell 7 of CCL.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 2, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 91 ° F, 5 mph, 20 %, None		
Start Location: Zone 11S 349274E 3811474N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues excavating the southeastern hill slope of the south borrow at cell 7. Today a D10N caterpillar bulldozer is being used to do pioneering excavation at the east end of the south borrow to remove shrub vegetation and break sediment beds. Three 651 b Caterpillar scrappers continue cutting sediment beds going in an east to west direction. The D9L CAT bulldozer helps the scrappers by pushing them when cutting sediment. The south side of excavation is being benched so it stands about 3 feet higher than the north side. No cultural resources observed.

Location: 11S 349273E 3811475N

Depth of Ground Disturbance: About 6 to 8 feet from the previous depth level

Soils/Lithology Description: The predominant sediment type at the southeastern hill slope of the south borrow is tan-gray silty sand. At the east end of excavation there are two separate swdiment beds of brown and gray siltstone. To the north and center of excavation coarse grain yellow and white sand with conglomerate rocks is observed.



07:00 Facing northeast
Looking northeast shows the D9L bulldozer pushing the 651 b scrapper west to cut sediment

10:18 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center excavation area of cell 7 between the south and north borrows C.A Rassmussen has four 657 b Caterpillar scrappers over excavating sediment to lower the depth level of the area. A D8T bulldozer also excavated the north and

south sides of this area to breakdown brown and gray siltstone sediment beds. All the excavated sediment was taken west into dump areas of cell 8. About 6 to 8 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349254E 3811694N

Depth of Ground Disturbance: About 8 to 10 feet from the previous sediment depth level

Soils/Lithology Description: The lithology at the center area of cell 7 between the south and north borrows is predominantly tan-gray silty sand. At the center and north side of excavation there are two continuous sediment beds of dark gray siltstone. The north side also has a sediment bed of brown siltstone. At the south and east ends there is coarse grain yellow- olive, tan sand, as well as gray-white sand with few conglomerate rocks.



10:18 Facing east
Looking east shows the progress of excavation at the center area of cell 7

Summary of project related communications:
Excavation at cell 7 of CCL will continue this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 3, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 91 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349272E 3811472N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center area of cell 7 between the north and south borrows C.A Rassmussen inc continues over excavation. Five 657 b Caterpillar scrappers cut sediment on this area going east to west. A D10N bulldozer stayed on the south side of excavation removing vegetation and breaking down sediment beds of siltstone. About 6 to 8 feet of soil were excavated today. The center excavation area is now closer to the depth level represented by orange flaged wood stakes at the north and south of the excavation. No cultural resources observed.

Location: 11S 349272E 3811472N

Depth of Ground Disturbance: 6 to 8 feet from the previous depth level

Soils/Lithology Description: The lithology at the center of cell 7 between the north and south borrows is predominantly fine grain, gray-tan silty sand with sandstone and gravel size conglomerates. The south and north sides of excavation also have brown and gray siltstone sediment beds. Yellow and white coarse grain sand is found all throughout the excavation area.



07:00 Facing east
Looking east shows the 657 b scrappers excavating sediment and the D10N bulldozer breaking sediment beds at the center excavation of cell 7

10:09 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hill slope of the south borrow C.A Rassmussen inc continued over excavation work. A D8T caterpillar bulldozer is being used to breakdown sediment beds of gray and brown siltstone and to do benching excavation at the

south side of the hill. Three 651 b CAT scrappers excavated sediment at the east end and north side of the hill slope. The D9L bulldozer helped the scrappers when cutting by pushing them. The south side of the hill is about 8 to 10 feet higher than the north side because of the benching. About 6 to 8 feet of sediment were excavated today. No paleontological resources observed.

Location: 11S 349280E 3811493N

Depth of Ground Disturbance: About 6 to 8 feet from the previous depth level

Soils/Lithology Description: The lithology at the southeastern hillslope of cell 7 is predominantly tan-gray silt-sand. Rounded conglomerate gravel size rocks are observed. At the north side of excavation there is coarse grain yellow and white-gray sand. Shrub vegetation is also present at the north, south and east ends of excavation. At the center there are two sediment beds of brown and gray siltstone.



10:09 Facing east
Looking east shows the north side of the excavation at the south borrow, there is shrub vegetation at the hillside drop off area

Summary of project related communications:
Excavation activities at cell 7 of ccl will continue the rest of the week

☐ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 4, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 92 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349275E 3811474N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues excavating the southeastern hill slope of the south borrow at cell 7. A D8T caterpillar bulldozer focused on vegetation removal and breaking sediment beds at the north side of the hillslope. A second D8T CAT bulldozer stayed on the east end of the borrow to help push the 657b scrappers when cutting sediment. Three 651 b Caterpillar scrappers continued the over excavation of sediment. About 8 to 6 feet of sediment were excavated. No cultural resources observed.

Location: 11S 349275E 3811474N

Depth of Ground Disturbance: 6 to 8 feet of depth from the previous level

Soils/Lithology Description: The predominant sediment type at the southeastern hill slope of cell 7 is tan-gray, fine grain silty sand. This sediment has sandstone fragments and conglomerate rocks. At the east and center area of excavation there are sediment beds of brown and gray siltstone. Yellow and white coarse grain sand is also seen at the east and north sides of excavation, as well as brown silt and shrub vegetation.



07:00 Facing northeast
Looking northeast shows the D8T caterpillar bulldozer removing shrub and brush vegetaion at the north side of the south borrow excavation

10:55 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the center of cell 7 between the south and north borrows C.A Rassmussen inc continued excavating sediment and taking it west into work areas of cell 8. A D10N caterpillar bulldozer was used to do pioneering excavation at the east and south sides of the hill slope to remove brush and shrub vegetation. The D10N bulldozer also moved to the center of excavation to breakdown sediment beds of brown and gray siltstone. Four 657 b caterpillar scrappers were used to cut sediment and do over excavation. About 6 to 8 feet of soil were excavated today. No cultural resources observed.

Location: 11S 349283E 3811715N

Depth of Ground Disturbance: 6 to 8 feet from the previous depth level

Soils/Lithology Description: At the center excavation area of cell 7 the lithology is varied. The dominant sediment is fine grain, tan-gray silty sand. At the south side of excavation there is coarse grain white sand with conglomerate rocks, the south and east sides of excavation also have brown silt with the shrub and chaparral vegetation, a sediment bed of dark gray siltstone runs accross the center of excavation going east to west, there is also yellow-olive coarse grain sand throughtout the excavation area.



10:55 Facing south
Photo looking south shows the 657 b CAT scrappers excavating sediment a the south side of the center excavation area of cell 7

Summary of project related communications:
Excavation activities will continue next week at cell 7 of CCL.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 7, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 91 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349244E 3811591N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the north and south borrows, C.A Rassmussen inc continues over excavation to lower the overall depth level of this area. Going east to west a D10N CAT bulldozer broke down sediment beds of siltstone for the four 657 b caterpillar scrappers to pick up loose sediment. All the excavated sediment was taken west into work areas of cell 8. Abput 6 to 8 feet of sediment were excavated today, no cultural resources observed.

Location: 11S 349244E 3811591N

Depth of Ground Disturbance: About 8 to 6 feet from the previous depth level

Soils/Lithology Description: At the center of cell 7 between the south and north borrows the predominant soil type is gray-tan fine grain silty sand. There is a sediment bed of orange-brown siltstone at the north side of excavation. A sediment bed of dark gray-black siltstone is visible at the southeast of excavation. Coarse grain yellow-olive tan and white-gray sand is observed at the south side of excavation.



07:00 Facing northeast
Photo looking northeast shows the excavation at the center of cell 7 between the north and south borrows and the adjacent drop off area

11:06 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: Three 651 b Caterpillar scrappers were used by C.A Rassmussen inc to do over excavation at the southeastern hillslope of the south borrow. The focus of excavation was the east and north sides of the hill. About 8 to 6 feet of sediment were

excavated. The south side was gradually excavated and compacted by the D8T CAT bulldozer to have it benched and be 15 feet higher than the north side. All excavated soil was taken west into work areas of cell 8. No archaeological resources observed.

Location: 11S 349291E 3811495N

Depth of Ground Disturbance: About 8 to 6 feet from the previous depth level

Soils/Lithology Description: The lithology at the southeastern hill slope of cell 7 is predominantly gray-tan silt-sand. This sediment has conglomerate rocks and sandstone fragments. There is coarse grain yellow-white sand at the center of excavation at the north and east ends there is brown silt sediment on the areas with shrub and chaparral vegetation.



11:06 Facing east
Photo looking east shows the progress of excavation at the southeastern hillslope of the south borrow

Summary of project related communications:
Over excavation activities at cell 7 will continue the rest of the week.

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 8, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 90 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349305E 3811507N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the south and north borrows C.A Rassmussen inc continues over excavation activity to lower the depth level of the area. A D10N caterpillar bulldozer worked on the south side removing shrub vegetation. The D10N bulldozer also worked across the center and going east to west to breakdown siltstone sediment beds. Four 657 b Catterpillar scrappers continued excavation cutting through sediment beds to lower the overall depth level of this area. About 6 to 8 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349305E 3811507N

Depth of Ground Disturbance: 6 to 8 feet from the previous depth level

Soils/Lithology Description: The lithology at the center excavation area of cell 7 between the north and south borrows is predominantly fine grain, soft, tan silty sand. There is a continuous sediment bed of brown siltstone at the north side of excavation, coarse grain yellow-olive tan sand with conglomerate rocks is observed at the center and south side of excavation as well as coarse grain gray-white sand. Brown silt is also seen in the south and east areas that have chaparral vegetation.



07:00 Facing northeast
Looking northeast shows the excavation activity at the center of cell 7 between the south and north borrows.

10:37 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues excavation at the southeastern hill slope of the south borrow. A D9L Caterpillar bulldozer is pushing the 651 b caterpillar scrappers when turning around at the east end of the hill slope. Three 651 b scrappers

are excavating the north side and east end of the hill to cut sediment beds of brown and gray siltstone as well as coarse grain white and yellow sand. A D8T caterpillar bulldozer focused on exccavating the south side of the hill to compact the loose sediment at the benched area that goes east to west. All the excavated sediment from the excavation at the north side is being taken west into dump areas of cell 8. About 6 to 8 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349241E 3811700N

Depth of Ground Disturbance: About 6 to 8 feet from the previous depth level

Soils/Lithology Description: The lithology at the southeastern hill slope of the south borrow is predominantly fine grain tan-gray silty sand, this sediment has rounded gravel size conglomerate rocks and sandstone fragments. At the north side and east end areas with shrub and chapparral vegetation there is brown-tan silt sediment. The north center also has brown siltstone sediment. White and tan-yellow coarse grain sand is observed at the center west of excavation.



10:37 Facing east
Looking east shows the progress of excavation at the south borrow and the difference in depth at the north side of the southeastern hill slope

Summary of project related communications:
Excavation at cell 7 will continue the rest of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 9, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 67 ° F, 5 mph, 35 %, None		
Start Location: Zone 11S 349302E 3811503N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hill slope of the south borrow C.A Rassmussen inc continues over excavation to lower the depth level of this south borrow area. Three 651 b CAT scrappers were used to cut sediment at the north side of the hill slope, at the south side the scrappers and a D8T caterpillar bulldozer compacted loose sediment to give shape to the benched area which gradually stands 15 feet higher than the north side. A D9L CAT bulldozer pushed the scrappers to have an easier time cutting sediment. The amount of sediment excavated today is about 5 to 6 feet. No cultural resources observed.

Location: 11S 349302E 3811503N

Depth of Ground Disturbance: About 5 to 6 feet from the previous depth level

Soils/Lithology Description: At the southeastern hill slope of the south borrow the predominant sediment type is tan-gray soft silt-sand this sediment has conglomerate rocks, as well as sandstone fragments. Pockets of coarse grain yellow and white sand are observed at the center and north sides of excavation. Sediment beds of brown and dark gray siltstone are also observed at the east end of the hillslope.



07:00 Facing east
Looking east shows a 657 b caterpillar scrapper excavating the north side of the southeastern hillslope while the D8T bulldozer does benching excavation

10:21 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: C.A Rassmussen inc made progress excavating the center area of cell 7 between the south and north borrows. A D10N bulldozer focused on breaking sediment beds of hard siltstone at the north and south sides of the excavation area. While four 657 b Caterpillar scrappers focused on cutting sediment at the north side of excavation. About 5 to 6 feet of sediment were excavated. All excavated soil was taken west into cell 8.

Location: 11S 349278E 3811461N

Depth of Ground Disturbance: About 5 to 6 feet from the previous depth level

Soils/Lithology Description: At the center of cell 7 between the south and north borrows the dominant sediment type across the whole center area is tan-gray fine grain silty sand with round conglomerate rocks and sandstone fragments. At the north side there is a sediment bed of brown siltstone that runs east to west, closer to the center there is a sediment bed of dark gray siltstone that runs east to west. Coarse grain yellow and white sand is also observed in small amounts throughout the excavation area.



10:21 Facing northeast
Photo looking northeast shows the four 657 b CAT scrappers excavating sediment from the north side of the center excavation at cell 7

Summary of project related communications:
Excavation activities will continue this week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 10, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 81 ° F, 5 mph, 95 %, None		
Start Location: Zone 11S 349243E 3811605N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the north and south borrows C.A Rassmussen inc keeps excavating sediment to drop the overall depth level of the area. Five 657 b Caterpillar scrappers cut sediment on the north and east sides of excavation. A D10N CAT bulldozer helps out the scrappers by pushing them forward when excavating. The D10N bulldozer also broke sediment beds of siltstone at the north and east ends of excavation. About 5 to 6 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349243E 3811605N

Depth of Ground Disturbance: 5 to 6 feet from the previous depth level

Soils/Lithology Description: At the center of cell 7 between the south and north borrows the dominant sediment type is tan-gray silty sand this sediment has gravel size round conglomerate rocks. At the north side there is a brown sediment bed of siltstone that runs from the east to the west end of excavation. Closer to the center there is a sediment bed of dark gray siltstone. Coarse grain yellow and white sand sediment is observed at the center and south sides of excavation.



07:00 Facing southeast
Start of excavation at the center of cell 7 between the south and north borrows.

11:46 - Over excavation and sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen continues excavating the southeastern hillslope of the south borrow. Currently three 651 b Caterpillar scrappers are focusing on excavating sediment at the north and east ends of the hillslope. The south side of excavation

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is being benched by a D8T CAT bulldozer that excavates and compacts sediment. The south benched area stands gradually about 15 feet higher than the center and north sides of excavation. About 5 to 6 feet of sedimemt were removed today. No cultural resources observed.

Location: 11S 349270E 3811560N

Depth of Ground Disturbance: 5 to 6 feet feom the previous depth level

Soils/Lithology Description: The lithology at the southeastern hill slope of the south borrow is predominantly fine grain, tan-gray silt-sand with gravel size conglomerate rocks and sandstone fragments. There are also pockets of coarse grain yellow and white sand sediment at the north and center of excavation. Brown silt sediment is also present on the north and east ends of the hill slope that have shrub vegetation.



11:46 Facing east
Looking east shows the D8T bulldozer doing benching excavation at the south side while the 657 b CAT scrappers excavate the north side of the south borrow

Summary of project related communications:
Excavation will continue the rest of this week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 14, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 92 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349273E 3811464N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hillslope of the south borrow C.A Rassmussen inc is continuing overexcavation at the north side of the hillslope. Three 651 b caterpillar scrappers are cutting sediment going east to west and taking the excavated sediment west into cell 8. While a D8T CAT bulldozer is breaking sediment beds at the east end of the hill and sloping the south bench area. A D9L CAT bulldozer assists the scrappers by pushing them while excavating. About 5 to 6 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349273E 3811464N

Depth of Ground Disturbance: About 5 to 6 feet of ground disturbance

Soils/Lithology Description: The lithology at the southeastern hillslope is predominantly fine grain, soft silt-sand, this sediment type has gravel size conglomerates and sandstone fragments, the north and east sides of excavation have shrub and chapparral vegetation, the sediment there is brown and tan silt. There are patches of brown and gray siltstone at the east end of excavation. Coarse grain yellow and gray sand is observed at the center of excavation.



07:00 Facing east
Looking east shows the 651 b scrappers excavating sediment at the north side of the southeastern hillslope

09:21 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the south and north borrows C.A Rassmussen inc continues over excavation to lower the depth level of the whole center area. Six 657 b caterpillar scrappers were used to cut sediment going east to west, all the

excavated sediment was taken west into work areas of cell 8. The orange flagged limit wood stakes at the east end of the north side are about 10 feet below the current elevation, at the west end of the north side the orange limits are 15 feet below the current elevation. About 5 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349277E 3811719N

Depth of Ground Disturbance: About 5 to 6 feet from the previous depth level

Soils/Lithology Description: At the center of cell 7 between the south and north borrows the lithology is predominantly fine grain, soft, tan-gray, silt-sand with round conglomerate rocks. At the north side there is a sediment bed of light brown siltstone that runs east to west. Right at the center of excavation there is a sediment bed of dark gray-black siltstone. And there is coarse grain yellow-olive and white sand at the center and south side of excavation.



09:21 Facing northeast
Looking northeast shows the 657 b catterpillar scrappers excavating at the center of cell 7 and taking the excavated sediment west.

Summary of project related communications:
Excavation at cell 7 will continue the rest of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 15, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 99 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349261E 3811489N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the north and south borrows C.A Rassmussen inc continued over excavation. Six 657 b caterpillar scrappers cut sediment going east to west taking all excavated sediment west into areas of cell 8. Early in the day a D10N CAT bulldozer stayed on the north side of the excavation removing spoils piles, the bulldozer also compacted sediment to even out the area. All throughout the center excavation the D10N also broke sediment beds for the scrappers to pick up all the loose soil. Later in the day, a DEERE excavator moved to the north and east ends of excavation to remove spoils piles and brush vegetation. About 5 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349261E 3811489N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: The lithology at the center of cell 7 between the south and north borrows is predominantly fine grain, tan-gray silty-sand. At the north side of excavation there is a sediment bed of brown-orange siltstone, a sediment bed of dark gray-black siltstone is located closer to the center of the area. Coarse grain, yellow and white sands with conglomerate rocks are present at the south side and in small pockets at the center, east, and west ends of excavation.



07:00 Facing northeast
Photo looking northeast shows the 657 b CAT scrappers excavating sediment at the center of cell 7 going east to west

09:40 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the southeastern hillslope of the south borrow C.A Rassmussen inc has made progress on benching the south side of the hill. This area stands 20 feet above the north side which is being excavated by four 651 b CAT scrappers. The scrappers keep cutting sediment from the hillslope going east to west, with the help of the D9L bulldozer the scrappers cut sediment and take it west into cell 8. A D10N CAT bulldozer moved to the southeastern slope later in the day to breakdown sediment beds at the north of the hillslope and to make a flat surface for the equipment to move. About 5 feet of sediment were excavated. No cultural resources observed.

Location: 11S 349257E 3811576N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: The lithology at the southeastern hillslope of the south borrow is predominantly soft, fine grain, tan-gray silty-sand. At the north and east sides of the hill there is brown silt where the brush vegetation is at. There are also pockets of brown and gray siltstone. Coarse grain yellow and gray sand is found at the north west sides of the hill and in smaller amounts at the east end.



09:40 Facing west
Looking west shows the D8T CAT bulldozer sloping the south side of the hill. Progress has been made at the northeast side of the hillslope.

Summary of project related communications:
Excavation will continue the rest of the week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 16, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 100 ° F, 5 mph, 10 %, None		
Start Location: Zone 11S 349278E 3811464N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the south and north borrows C.A Rassmussen inc continued over excavation activities. A DEERE excavator was used to clear vegetation at the south side, it also started making spoil piles for the scrappers. The D10N CAT bulldozer broke sediment beds at the center of excavation and also moved to the south side to remove spoils piles. To keep lowering the overall depth level of the center of cell 7, six 657 b CAT scrappers continued cutting sediment going east to west and taking it into cell 8. About 5 feet of sediment were removed today. No archaeological resources observed.

Location: 11S 349280E 3811465N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: The lithology at the center of cell 7 between the south and north borrows is dominated by soft tan-gray, silty -sand that has round conglomerate rocks. At the north side there is a sediment bed of brown-orange siltstone, further to the center of excavation there is another sediment bed of dark gray-black siltstone. Coarse grain yellow and gray sand are observed in small pockets at the northwest and southwest sides of excavation.



07:00 Facing northeast
Looking northeast shows the DEERE bucket excavator removing shrub vegetation at the south side of the center of cell 7

11:04 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hillslope of the south borrow C.A Rassmussen kept excavating the north side of the hillslope to lower the depth level on that side and give the area a basin shape. Three 651 b CAT scrappers cut the sediment at the north side

going east to west to take the excavated sediment west into cell 8. The south side of the hill was excavated by the D8T CAT bulldozer to give it a gradual slope, the south benched area stands more than 15 feet higher than the north excavation side. The amount of sediment excavated today is about 5 feet. No cultural resources observed.

Location: 11S 349254E 3811685N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: The lithology at the southeastern hillslope of the south borrow is dominated by fine grain, tan-gray silty sand that has rounded conglomerate rocks. All throughout the hill slope, there are small pockets of coarse grain white and yellow sand. The north and east side areas with shrub vegetation have brown silt and tan-gray silt. There are also small pockets of brown and gray siltstone at the center of excavation.



11:04 Facing east
Photo looking west shows the progress of excavation at the north of the southeastern hill slope.

Summary of project related communications:
Excavation activities will continue the rest of the week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 17, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 99 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349274E 3811464N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the south and north borrows C.A Rassmussen inc continues excavating to lower the depth level and reach the final grade of excavation. A D10N CAT bulldozer broke sediment beds all throughout the center excavation area. Six 657 b CAT scrappers continued cutting sediment from the south side and east end of the slope. The east end is the closest to the final grade marked by the orange flaged wood stakes that are about 6 feet below the current grade. The west side is about 10 feet above the limit of orange flagged wood stakes. The excavated sediment was taken west into cell 8. About 5 feet of sediment were excavated. No cultural resources observed.

Location: 11S 349274E 3811464N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: At the center of cell 7 between the north and south borrows the lithology is dominated by fine grain, soft, tan-gray silty-sand, this sediment type has conglomerate rocks. At the north side of excavation there is a sediment bed of brown-orange siltstone that runs east to west. At the very center there is another sediment bed of dark-gray to black siltstone. At the south side there are pockets of coarse grain white sand. There is also coarse grain yellow sand at the west end of excavation.



07:00 Facing south
Looking south at the center of cell 7 shows the D10N caterpillar bulldozer breaking sediment beds of silstone for the scrappers to excavate

12:53 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the southeastern hillslope of the south borrow C.A Rassmussen inc continues over excavation three 651 b CAT scrappers excavate the north side of the hill cutting sediment and taking it west into cell 8. The south half of the hillslope has been benched by the D8T CAT bulldozer and it stands more than 14 feet above the north side. The D8T bulldozer is excavating the side of the benched area to give it a slope. The D9L mini bulldozer is pushing the scrappers to pick up sediment and take it west into cell 8. About 5 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 348975E 3811014N

Depth of Ground Disturbance: About 5 feet from the current depth level

Soils/Lithology Description: The lithology at the southeastern hillslope of the south borrow is predominantly tan-gray, fine grain, soft silt-sand with round conglomerates. At the south side of the hill slope there are pockets of coarse grain white sand. The east and north sides of excavation have shrub vegetation with tan and brown silt. At the north half of the hill slope there are pockets of brown and dark gray siltstone.



12:53 Facing east
Photo looking east shows the 651 b CAT scrappers excavating the north half of the southeastern hillslope

Summary of project related communications:
Excavation at cell 7 will continue the rest of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Adam fregoso

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 18, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 94 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349274E 3811471N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the center of cell 7 between the north and south borrows C.A Rassmussen inc continues over excavation. The six 657 b CAT scrappers are cutting sediment going east to west turning at the east end of the hill slope to take excavated sediment west into cell 8. At the south side there is a DEERE bucket excavator removing brush vegetation and excavating sediment on the side of the hill for the scrappers to pick it up. A D10N CAT bulldozer also kept breaking sediment beds of siltstone at the center and sides of excavation. About 5 feet of sediment were excavated today. No cultural resources observed.

Location: 11S 349274E 3811471N

Depth of Ground Disturbance: About 5 feet of depth

Soils/Lithology Description: The dominant sediment type at the center of cell 7 between the south and north borrows is tan-gray silty-sand. At the north side there is a continuous sediment bed of brown-orange siltstone. Closer to the center there is a sediment bed of dark gray-black siltstone sediment. At the south side there is coarse grain white sand. There are also pockets of coarse grain yellow sand at the center of excavation.



07:00 Facing south
Looking south shows the excavation at the center of cell 7 between the north and south borrows.

11:26 - Over excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hillslope of the south borrow C.A Rassmussen continues excavating the north half of the hill. Three 651 b CAT scrappers cut sediment at the north half while a D8T CAT bulldozer does pioneering excavation at the east

end of the hill to remove vegetation. At the south half the D8T bulldozer started to cut sediment with its side blade to give the benched area a gradual slope of more than 15 feet. About 5 feet of sediment were excavated. No cultural resources observed.

Location: 11S 349275E 3811478N

Depth of Ground Disturbance: About 5 feet of depth from the previous level

Soils/Lithology Description: At the northwest and southwest sides of the southeastern hill slope the sediment type is coarse grain sand with conglomerate rocks. The dominant sediment type is tan-gray silty-sand. At the east end of the hill there are pockets of gray and brown siltstone sediment. The sediment at the north and east sides of the hill is brown and gray silt with shrub vegetation.



11:26 Facing east
Looking east shows the 651 b scrappers excavating the back east side of the slope while a D8T CAT bulldozer does pioneering excavation.

Summary of project related communications:
Excavation at cell 7 will continue next week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Adam fregoso

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 23, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 92 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349470E 3811572N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: Today at the south borrow cell 7 of the Chiquita Canyon landfill C.A Rassmussen inc is excavating the east end of the southeastern hill slope. The purpose of excavation at the southeastern hill slope is for the H53 DEERE bucket excavator to remove the shrub vegetation that is located at the side slope of the hill. The purpose of the D8T CAT bulldozer is to break the siltstone sediment beds at the east end and to push all the loose sediment to the north side to compact the surface area of the hill. About 5 feet of sediment were removed today from the previous depth level. No cultural resources observed.

Location: 11S 349470E 3811572N

Depth of Ground Disturbance: About 5 feet from the previous grade level

Soils/Lithology Description: The lithology at the east end of the southeastern hillslope is tan-gray silt/clay, the sediment is wet because of the rain. There are also round rock conglomerates, and sharp edge siltstone fragments. As the depth of excavation increases coarse grain gray and yellow sand is encountered at the east end of the south borrow in cell 7.



07:00 Facing east
Photo looking east shows the H53 DEERE bucket excavator making spoils piles and the D8T CAT bulldozer breaking sediment beds

11:42 - Excavation work

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc has a D8T caterpillar bulldozer breaking sediment beds of siltstone at the east end of the southeastern hill slope. The H53 DEERE excavator is excavating sediment beds to make spoils piles and remove all the shrub vegetation. The end purpose of excavation today is to make a flat surface at the southeast side of the hill by removing the

vegetation debris that is on the way and by breaking all the uneven sediment beds so that the D8T bulldozer can compact the recently excavated sediment and push it to the north side. About 5 feet of sediment were excavated today. No cultural resources found today.

Location: 11S 349457E 3811563N

Depth of Ground Disturbance: About 5 feet from the previous grade

Soils/Lithology Description: The lithology at the east end of the southeastern hillslope is tan-gray silt/clay. There are round rock conglomerates, on the silt-sand sediment and sharp edge siltstone fragments. There is also coarse grain gray and yellow sand at the east end of the southeastern hillslope. All the sediment is wet because of the rain.



11:42 Facing east
Photo looking east shows the D8T bulldozer pushing the loose sediment northwest to compact the ground

Summary of project related communications:
Excavation work will continue at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 00:00

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 24, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 85 ° F, 5 mph, 35 %, None		
Start Location: Zone 11S 349454E 3811573N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation, soil compaction and vegetation removal

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southeastern hill slope of the south borrow C.A Rassmussen inc kept excavating the east end of the hill. The pursose of the excavation is to remove all the vegetation at the east side of the hill while lowering the depth level of the area closer to the orange flaged wood stakes that represent the final depth level and to make a flat surface for the scrappers to continue the over excavation. No cultural resources observed.

Location: 11S 349454E 3811573N

Depth of Ground Disturbance: About 5 feet of depth

Soils/Lithology Description: The predominant sediment type at the southeastern hill slope of the south borrow is tan-gray silty-sand. This sediment has rounded conglomerate rocks and sharp edge siltstone. The east end of the hill has shrub and chapparral vegetation, the sediment there is brown/gray silt, as the depth increases there is also gray and yellow coarse grain sand at the east end. At the north half of the hill there is coarse grained gray sand with conglomerates and orange brown/ gray siltstone and clay sediment.



07:00 Facing east
Looking east shows the D8T CAT bulldozer pushing loose sediment west while the H53 bucket excavator removes vegetation at the east end

11:14 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the east end of the southeastern hillslope in cell 7 the D8T bulldozer kept breaking sediment beds of siltstone and sand to push loose sediment northwest. At the same time the H53 DEERE excavator was removing brush vegetation and making spoils piles with the excavated sediment. The area excavated today measures about 90 feet north to south by about 150 feet east to west. The D8T bulldozer also compacted the loose sediment at the northeast of the hill for future over excavation by the 657 b scrappers. The amount of sediment excavated today is about 4 to 5 feet in an area measuring about 90 feet north to south by 150 feet east to west. No cultural resources observed.

Location: 11S 349470E 3811564N

Depth of Ground Disturbance: About 5 feet from the previous delth level.

Soils/Lithology Description: The predominant sediment type at the southeastern hillslope of the south borrow is tan-gray silty-sand, this sediment has rounded conglomerates, and sharp edge quartz and siltstone. The east end of the hill has shrub and chapparral vegetation, the sediment there is brown/gray silt, but there is also gray and yellow-orange sand. At the north half of the hill there is coarse grain gray sand. There is also orange-brown and gray siltstone/clay sediment.



11:14 Facing east
Looking east shows the D8T bulldozer and the H53 DEERE excavator lowering the grade at the east end of the hill

Summary of project related communications:
Excavation activity will continue this week at the south borrow of cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 25, 2023	**Start Time (24 hour):** 07:30	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 90 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348619E 3810767N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation and sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: At the road leading to the north borrow area from Cell 8, C.A Rassmussen inc had a D8T CAT bulldozer perform benching excavations on the east side of the road. The D8T bulldozer broke sediment beds to make a flat slope on the east side of the road to give it a gradual benching. The excavated sediment was pushed north to be compacted. The work area measures around 25 feet in width east to west by about 215 feet north to south. The amount of sediment moved on this area is about 4 to 5 feet. No cultural resources observed.

Location: 11S 348619E 3810767N

Depth of Ground Disturbance: 5 feet from previous grade

Soils/Lithology Description: The lithology along the road that goes up the north borrow is varied. The predominant type of sediment found there is tan-gray silty sand. At the southwest of excavation there is a sediment bed of dark gray siltstone/clay sediment. There are also patches of light gray-white coarse grain sand that reach the north end of excavation. Small patches of brown-orange siltstone/clay are also found scattered from the south to the east end of the road. All the sediment is wet because of the rain.



07:00 Facing north
Looking North shows the D8T Caterpillar bulldozer breaking sediment at the road leading to the north borrow

11:00 - Over excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: At the southeastern hill slope of the south borrow C.A Rassmusen inc has a H53 DEERE bucket excavator excavating sedimemt from the east end of the hill. The excavated sediment is being stockpiled on site and being dumped into a KAO5 DEERE loader truck and a C5 Volvo loader truck. All the excavated sediment is being taken by the KAO5 and the C5 volvo trucks west into work areas of cell 8. The excavation area at the southeastern hillslope measures about 85 feet in width south to north by 180 feet in length east to west. About 5 feet of sediment were removed today. No archaeological resources observed.

Location: 11S 349472E 3811571N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: The lithology at the east end of the south borrow is predominantly tan-gray silt-sand. The north side of the east end has shrub and tree vegetation the sediment there is dark brown silt and dark brown loam. There is also coarse grain gray and yellow sand sediment at the northwest side of the hill and as depth increases on the east end. The southeast side of the hill has brush and chaparral vegetation.



11:00 Facing east
Looking east shows the H53 DEERE excavator dropping the excavated sediment into a loader truck

Summary of project related communications:
Excavation activities will continue next week at cell 7 chiquita canyon landfill

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 28, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 90 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349449E 3811580N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation and stockpilling of sediment

Type of Monitoring: Continuous Monitoring

Additional Notes: At the east end of the south borrow in the southeastern hill slope, C.A Rassmussen Inc. continues excavation activities. A H53 DEERE bucket excavator is being used to excavate sediment from the east side and make stockpiles west of the excavation. The purpose of excavation is to remove brush and tree vegetation as well as keep lowering the overall depth at the east end of the hill to reach the final grade marked by orange flaged wood stakes. About 6 feet of sediment were removed today. No cultural resources observed.

Location: 11S 349449E 3811580N

Depth of Ground Disturbance: About 5 feet from the previous grade

Soils/Lithology Description: The sediment at the southeastern hill slope of the south borrow is predominantly tan-gray silty-sand. There is also dark brown silt with roots at the northeast side of the hill, this area has green trees/brush. As depth increases on the east end, coarse grain tan-yellow and gray sand with conglomerate rocks is observed. Small patches of brown and gray siltstone are observed across the east end. At the southeast side of the hill there is yellow brush vegetation. No paleontological resources observed.



07:00 Facing east
Photo looking east show the DEERE excavator excavating the east end of the south borrow and making a stockpile

10:14 - Excavation and sediment stockpilling

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: The H53 excavator is excavating sediment in segments starting from the east end. The bucket excavator removes about 5 feet of sediment and then it drops the sediment west of the excavated area to make stockpiles. The excavated sediment was later dumped by a CAT front loader onto a CAT loader truck to be taken west into cell 8. The work area excavated today measures about 156 feet in length east to west by about 80 feet in width north to south. No cultural resources observed.

Location: 11S 349473E 3811564N

Depth of Ground Disturbance: About 5 feet from the previous depth level

Soils/Lithology Description: The sediment at the southeastern hillslope of the south borrow is predominantly tan-gray silt-sand. There is also dark brown silt with roots at the northeast side of the hill. As depth increases on the east end, coarse grain tan-yellow and gray sand with conglomerate rocks is observed. Small patches of brown and gray siltstone are observed. At the southeast side of the hill there is yellow brush vegetation. No paleontological resources observed.



10:14 Facing southeast
Looking southeast shows the excavation at the east end of the south borrow and the gradual change in depth of excavation

Summary of project related communications:
Excavation at the south borrow of cell 7 will continue all week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 29, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 101 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349454E 3811622N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation and vegetation removal

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues excavation actitivities at the southeastern hill slope of cell 7 to remove shrub and tree vegetation while lowering the depth of the east side of the hill. The H53 DEERE bucket excavator continued dumping the sediment that had been stockpiled into a C5 Volvo dump truck and a KAQ5 DEERE dump truck. About 5 feet of sediment were excavated today. All the excavated sediment was taken west into cell 8. No cultural resources observed.

Location: 11S 349454E 3811622N

Depth of Ground Disturbance: About 5 feet from the previous depth

Soils/Lithology Description: The predominant sediment type at the east end of the south borrow is tan-gray silt-sand. The top soil at the northeast side of excavation is dark brown loam and brown silt. This area has shrub and tree vegetation. The southeast side of the hill has yellow brush and gray silt. As depth gets below 6 feet there is coarse grain gray and tan-yellow sand with conglomerate rocks. Small patches of brown and gray siltstone are seen across the east end of the southeastern hill slope.



07:00 Facing south
Photo looking south shows the H53 DEERE excavator continuing to stockpile sediment at the east side of the south borrow

11:31 - Excavation and vegetation removal.

Type of Monitoring: Continuous Monitoring

Additional Notes: The H53 DEERE bucket excavator excavated today an area that measures about 80 feet in width north to south by 60 feet in length east to west. The depth in this area ranges from 5 feet to 15 feet below the depth level of the benched area at the south side of the hill. The depth at the east side of the hill slope increases incrementally from the tallest point at the south side

on the compacted benched area to the lowest point of the hill slope being the east end which is about more than 40 feet below the current grade. About 5 feet of sediment were removed today.

Location: 11S 349451E 3811624N

Depth of Ground Disturbance: About 5 feet of sediment

Soils/Lithology Description: The predominant sediment type at the east end of the south borrow is tan-gray silty-sand. The topsoil at the northeast side of excavation is dark brown loam and brown silt, this area has shrub and tree vegetation. As depth gets below 6 feet there is coarse grain gray and tan-yellow sand with conglomerate rocks. Small patches of brown and gray siltstone are seen across the east end of the southeastern hill slope. At the southeast side of the hill there is yellow brush vegetation.



11:31 Facing west
Looking west shows the gradual change in depth at the east side of the southeastern hillslope of the south borrow

Summary of project related communications:
Excavation at cell 7 will continue next week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 30, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 101 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 348498E 3810716N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc started to compact sediment at the southeastern slope of cell 8. This area has an open pit that leads to a drainage line. A D5K CAT mini bulldozer was used to push loose sediment and compact the surface area of the open pit. A VT6N64 metal roller compactor was also used to flatten out the ground at the open pit area. The excavated area leads up the hill slope into the drainage line above the line the hill slope continues and there is another mini bulldozer benching and cutting the top of cell 8. No cultural resources observed.

Location: 11S 348498E 3810716N

Depth of Ground Disturbance: About 8 feet of depth at the area where the sediment is being compacted.

Soils/Lithology Description: In cell 8 the sediment at the open excavation area where the drainage line is at is predominantly tan-gray silty-sand. There is also coarse grain yellow and gray sand at the west slope of the hill adjacent to the open excavation pit. To the east side the sediment is highly disturbed with visible trash and tarp covers.



07:00 Facing southeast
Looking southeast shows the metal roller compactor and the CAT mini bulldozer compacting sediment at the drainage line area of cell 8.

13:14 - Sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: At the western hillslope of cell 8 the excavation area of the drain line flooded and sunk because of the rain. Today C.A Rassmussen kept compacting sediment with the CAT mini bulldozer and the metal roller ground compactor. This area is

adjacent to the landslide of cell 8. A C5 Volvo loader truck and a CAQ5 loader truck were used to dump sediment on the open excacation pit. The sediment was brought from the main stockpile of excavated sediment from cell 7. No cultural resources observed.

Location: 11S 348494E 3810717N

Depth of Ground Disturbance: About 6 to 8 feet in depth

Soils/Lithology Description: In cell 8 the sediment at the open excavation area where the drainage line is at is predominantly tan-gray silty-sand. There is also coarse grain yellow and gray sand at the west slope of the hill adjacent to the open excavation pit. To the east side the sediment is highly disturbed with visible trash and tarp covers.



13:14 Facing northwest
Photo looking northwest shows the exposed drainage line after the rain at the hillslope of cell 8

Summary of project related communications:
Excavation activities at cell 7 and 8 will continue this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: August 31, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 91 ° F, 5 mph, 8 %, None		
Start Location: Zone 11S 349239E 3811585N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation

Type of Monitoring: Continuous Monitoring

Additional Notes: At the begining of the day C.A Rassmussen had a 335 F CAT bucket excavator excavate a trench at the road leading to the north borrow hillslope. The purpose was to drain water from a stagnant rain pond. The dimensions of the trench are 4 feet in width by about 5 feet in depth and 45 feet in length. The excavated sediment was stockpiled on site. No cultural resources observed.

Location: 11S 349239E 3811585N

Depth of Ground Disturbance: About 5 feet

Soils/Lithology Description: The sediment at the road leading to the north borrow is predominantly tan-gray silty-sand. There is white coarse grain sand at the southwest end of the rain pond. As the depth increases below 5 feet there is dark gray coarse grain sand as well as patches of brown and gray siltstone.



07:00 Facing northwest
Looking northwest shows the trench excavated by C.A Rassmussen inc to drain the water of the rain pond

10:05 - Pioneering excavation and stockpilling of sediment

Type of Monitoring: Continuous Monitoring

Additional Notes: At the east end of the south borrow C.A Rassmussen had a D8T CAT bulldozer do pioneering excavation to break sediment beds and remove shrub vegetation. A CAT 335 F bucket excavator continued excavating the east end of the south borrow to keep stockpilling sediment for the C5 Volvo and the CAQ5 dump trucks to take the sediment west into cell 8. The area excavated

today measures about 80 feet in width north to south by 140 feet in length east to west, the excavated area has a depth that varies from 5 to 35 feet. No cultural resources observed.

Location: 11S 349447E 3811623N

Depth of Ground Disturbance: From 5 feet to 35 feet of depth

Soils/Lithology Description: Sediment at the southwestern hill slope of cell 7 is very varied. At the northeast side where there are green shrubs and tree vegetation the sediment is brown silt and dark brown loam. West of the hill slope the predominant sediment is tan-gray silty-sand with conglomerate rocks. Some of the sediment is wet because of the rain.



10:05 Facing south
Looking north shows the CAT 335F bucket excavator stockpilling sediment to be taken into cell 8 while the D8T bulldozer pushes sediment west

Summary of project related communications:
Excavation activities will continue the rest of the week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: September 1, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 82 ° F, 5 mph, 25 %, None		
Start Location: Zone 11S 349484E 3811604N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation, sediment export and stockpilling

Type of Monitoring: Continuous Monitoring

Additional Notes: C.A Rassmussen inc continues the excavation activities at the southeastern hill slope of the south borrow. The 335 F CAT bucket excavator moved closer to the east end of the hill to excavate sediment at an area with a greater depth level. The D8T CAT bulldozer moved to the very east end of the hill to keep removing tree and shrub vegetation as well as continue compacting sediment to flatten out the upwards slope at the east side of the hill.

Location: 11S 349484E 3811604N

Depth of Ground Disturbance: The depth varies from 5 to 35 feet.

Soils/Lithology Description: The predominant sediment type at the east side of the southeastern hill slope is tan-gray silty-sand especially at the southwest side of excavation. The top sediment at the northeast side of the hill slope where there is green shrub and tree vegetation is dark-brown loam with roots and light brown silt. Past 6 feet of sediment, coarse grain white and yellow sand is found throughout the excavated area. The southeastern side of the hill has yellow brush vegetation and tan-gray silt sediment.



07:00 Facing east
Looking east shows the CAT 335F bucket excavator dumping the excavated sediment onto dump trucks at the east end of cell 7

10:37 - Sxcavation and sediment exporting

Type of Monitoring: Continuous Monitoring

Additional Notes: The 335 F CAT excavator stockpiled the excavated sediment west of the cut to load it onto a C5 Volvo and a CAQ5 Deere dump truck. The excavation area measures about 140 feet in length east to west by 80 feet in width north to south. The depths reached today range from 5 to 35 feet. No cultural resources observed.

Daily Monitoring Report

Location: 11S 349487E 3811552N

Depth of Ground Disturbance: Fekm 5 to 35 feet

Soils/Lithology Description: The predominant sediment type at the east side of the southeastern hillslope is tan-gray silty-sand especially at the southwest side of excavation. The top sediment at the northeast side of the hill slope where there is green shrub and tree vegetation is dark-brown loam with roots and light brown silt. Past 6 feet of sediment, coarse grain white and yellow sand is found throughout the excavated area. The southeastern side of the hill has yellow brush vegetation and tan-gray silty sediment.



10:37 Facing northeast
Looking northeast shows the extend of the area of excavation today at the south borrow of cell 7

Summary of project related communications:
Excavation activities will continue next week at cell 7

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: September 6, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 79 ° F, 5 mph, 100 %, None		
Start Location: Zone 11S 348500E 3810700N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation and sediment export

Type of Monitoring: Continuous Monitoring

Additional Notes: At the southwestern end of the western hill slope of cell 8, C.A Rassmussen inc is excavating a pit. The purpose of the excavation is to remove the old storm drain line. A 345Glc DEERE bucket excavator was used to excavate sediment to remove the plastic and concrete debris. All the sediment is being stockpiled on site. No cultural resources observed.

Location: 11S 348500E 3810700N

Depth of Ground Disturbance: About 6 feet from the surface

Soils/Lithology Description: The predominant sediment type at the southwestern side of the hillslope and at the top of the west side of cell 8 is tan-brown and gray silty-sand. The sediment at the slope of cell 8 is also moderately disturbed with construction material like gravel, concrete, brick, plastics, and metal.



07:00 Facing southwest
Looking southwest shows the 345Glc DEERE bucket excavator stockpiling the excavated sediment at the southwest end of cell 8

11:19 - Excavation and sediment stockpiling

Type of Monitoring: Continuous Monitoring

Additional Notes: A 335 F CAT bucket excavator worked at the top of the western hill slope of cell 8 excavating sediment to fix the excavated trench area for the new storm drain since sediment came in with the rains. A rectangular area was excavated, it measured about 12 feet east to west by 150 feet north to south. The sediment was exported in a DEERE CAQ5 dump truck. No cultural resources observed.

Daily Monitoring Report

Location: 11S 348462E 3810700N

Depth of Ground Disturbance: 6 feet from the surface

Soils/Lithology Description: The predominant sediment type at the southwestern side of the hill slope and at the top of the west side of cell 8 is tan-brown-gray silty-sand. The sediment at the slope of cell 8 is also moderately disturbed with construction material like gravel, concrete, brick, plastics, and metal.



11:19 Facing northwest
Looking northwest shows the area of excavation leading up the west slope of cell 8 following the storm drain line

11:56 - Excavation and sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: After the bucket excavator excavated the top western area of cell 8 the side blade of a mini bulldozer was used to cut the sides of the new storm drain trench excavation. The mini bulldozer also compacted sediment and a metal roller compactor was also used to compact the sediment. No cultural resources observed.

Location: 11S 348344E 3810763N

Depth of Ground Disturbance: 6 to 25 feet below grade

Soils/Lithology Description: The predominant sediment type at the southwestern side of the hill slope and at the top of the west side of cell 8 is tan-brown-gray silty-sand. The sediment at the slope of cell 8 is also moderately disturbed with construction material like gravel, concrete, brick, plastics, and metal.



11:56 Facing south
Looking south shows the DEERE mini bulldozer cutting sediment from the sides of the storm drain excavation area

Daily Monitoring Report

Summary of project related communications:
Excavation at cell 8 will continue ocationally at CCL

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: September 7, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 88 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349308E 3811777N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation and sediment export

Type of Monitoring: Continuous Monitoring

Additional Notes: At the bottom of the north borrow hillslope in cell 7 C.A Rassmussen inc had a 335 F CAT bucket excavator, excavating sediment to be exported into cell 8 and cell 6. All the excavated sediment was transported off cell 7 by the C5 CAT and the 410E DEERE dump trucks. The excavated area at the bottom of the north borrow measures about 50 feet in width east to west by about 70 feet in length north to south. About 6 feet of sediment was excavated today. No cultural resources observed.

Location: 11S 349308E 3811777N

Depth of Ground Disturbance: The amount of sediment removed at the bottom of the north borrow is about 6 feet from the previous sediment grade.

Soils/Lithology Description: The sediment type at the bottom of the north borrow is predominantly tan-gray silty-sand. There are patches of gray coarse grain sand that run across north to south as well as patches of brown-orange siltstone.



07:00 Facing west
Photo looking west shows the 335 F CAT bucket excavator dumping the excavated sediment into a DEERE 410 E dump truck

09:42 - Breaking of sediment beds and sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: At the north half of the southeastern hillslope of cell 7 C.A Rassmussen inc had the D10T CAT bulldozer break sediment beds at the main excavation area of the south borrow. The caterpillar bulldozer used its ripper blades to make multiple passes breaking the ground and mixing wet sediment and mud for the rain water to evaporate. The bulldozer also compacted the ground and pushed spoils piles of loose sediment to flatten out the surface of the south borrow. The area excavated at the south

borrow measures about 60 feet north to south by 250 feet east to west. About 3.5 feet of sediment were excavated. No cultural resources observed.

Location: 11S 349251E 3811799N

Depth of Ground Disturbance: About 3.5 feet from the previous grade level

Soils/Lithology Description: The sediment at the north side of the south borrow is varied. The most abundant sediment type is light tan-gray silty-sand. The north side of the south borrow has green shrub and tree vegetation, the sediment there is brown and tan silt with roots. Patches of brown-orange siltstone and coarse grain gray sand with round conglomerate rocks are seen.



09:42 Facing northwest
Looking northwest shows the D10T caterpillar bulldozer pushing spoils of loose sediment at the north side of the south borrow

Summary of project related communications:
Excavation at cell 7 will continue the rest of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: September 8, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 92 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349416E 3811614N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Sediment compaction and the breaking of sediment beds

Type of Monitoring: Continuous Monitoring

Additional Notes: Today at the center of cell 7 between the south and north borrows C.A Rassmussen inc has a D10T CAT bulldozer breaking sediment beds as well as compacting sediment to flatten out the surface area of excavation. The excavation area measures about 60 feet north to south by 240 feet east to west. The sediment disturbance reached about 3.5 feet, the limit grade of excavation has been reached on some areas of the east end of the center excavation area between the north and south borrows. No cultural resources observed.

Location: 11S 349414E 3811614N

Depth of Ground Disturbance: About 3.5 feet of ground disturbance

Soils/Lithology Description: The dominant sediment type at the center of cell 7 between the north and south borrows is tan-gray silty-sand. This sediment has been mixed with fragments of sharp edge gray and brown siltstone. Patches of dark gray siltstone and brown-orange siltstone are encountered at the center of cell 7. At the south side of excavation patches of white-gray coarse grain sand with conglomerate rocks and coarse grain yellow-tan sand are observed.



07:00 Facing north
Looking north shows the D10T CAT bulldozer compacting sediment and breaking sediment beds at the center area of cell 7 between the north and south borrows

09:23 - Excavation and sediment export

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: Today at the bottom of the north borrow C.A Rassmussen inc continued excavating sediment to be exported off cell 7. A 345 G lc DEERE bucket excavator was used to excavate sediment and dump it onto dump trucks like the C5 CAT dump truck. The area excavated today measures about 50 feet in width east to west by 60 feet in length north to south. No cultural resources observed.

Location: 11S 349301E 3811775N

Depth of Ground Disturbance: About 6 to 12 feet from the previous grade

Soils/Lithology Description: At the bottom of the north borrow the dominant sediment type is tan-gray silt-sand. There are patches of coarse grain white sand with conglomerate rocks surrounding the excavation area. As depth increases sediment beds of brown- orange siltstone are observed. At the west side of excavation patches of gray siltstone are observed.



09:23 Facing southwest
Photo looking southwest shows the 345G lc DEERE bucket excavator loading sediment onto a C5 CAT loader truck to be taken off cell 7

Summary of project related communications:
Excavation activities at cell 7 will continue next week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Daily Monitoring Report

Project Number: 22-13873		**Project Name:** Chiquita Canyon Landfill
Monitor: Pedro Garcia		
Date: September 11, 2023	**Start Time (24 hour):** 07:00	**Stop Time (24 hour):** 15:30
Weather (Temperature, wind speed, cloud cover, precipitation): 90 ° F, 5 mph, 0 %, None		
Start Location: Zone 11S 349305E 3811496N		

Worker Environmental Education Program provided: ☐ **Yes** ☑ **No**

Daily activities and compliance summary in format of Time – Activity (i.e., 07:00 – Arrived at project site):

07:00 - Excavation and sediment compaction

Type of Monitoring: Continuous Monitoring

Additional Notes: Today C.A Rassmussen inc continued excavating sediment at the road leading to the north borrow. The purpose of the excavation is to remove some excess of sediment at the bottom of the north borrow to give the excavated area a gradual downslope. The area of excavation measures about 55 feet east to west by 80 feet north to south. The depth reached today is about 6 feet.

Location: 11S 349305E 3811496N

Depth of Ground Disturbance: About 6 feet

Soils/Lithology Description: The sediments at the road leading to the north borrow is predominantly tan-gray silt-sand. There are continuous sediment beds of brown siltstone as well as white-gray siltstone running north to south. There is also coarse grain white sand with rounded conglomerate rocks. Some of the sediment was wet because of the water truck spraying the excavated area.



07:00 Facing southwest
Photo looking southwest shows the D8T CAT bulldozer is breaking sediment beds and pushing loose sediment to make a flat space

11:15 - Excavation

Type of Monitoring: Continuous Monitoring

Daily Monitoring Report

Additional Notes: A 345 G lc bucket excavator was used to keep excavating sediment and stockpiling it to be exported off site. The excavated sediment was loaded into dump trucks by the bucket excavator. The DEERE C5 dump truck took the sediment west into stockpile areas of cell 6 and cell 8. No cultural resources observed.

Location: 11S 349314E 3811735N

Depth of Ground Disturbance: About 6 feet of sediment disturbance

Soils/Lithology Description: The sediment at the road leading to the north borrow is predominantly tan-gray silt-sand. There are continuous sediment beds of brown siltstone as well as white-gray siltstone running north to south. There is also coarse grain white sand with rounded conglomerate rocks.



11:15 Facing west
Photo looking west shows the 345 Glc DEERE bucket excavator loading sediment onto a C5 DEERE dump truck.

Summary of project related communications:
Excavation at cell 7 will continue all of this week

☑ **COMPLIANCE** ☐ **REMEDIATION ACTION NEEDED** (see Non Compliance Report)

See final page for additional notes regarding non-compliances, if any.

Native American Monitor present? ☑ Yes ☐ No

Native American Monitor: Richard Ortega

Time Monitor Present: 07:00 - 15:30

Archaeological Discovery Made? ☐ Yes ☑ No

Safety Concerns? ☐ Yes ☑ No

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012
213-788-4842

January 2, 2024
Rincon Project No: 22-13873

Steve Cassulo
Chiquita Canyon Landfill
29201 Henry Mayo Drive
Castaic, California 91384
Via email: Steven.Cassulo@WasteConnections.com

Subject: 2023 Paleontological Construction Monitoring Report, Chiquita Canyon Landfill Cell 8 Construction Project, Los Angeles County, California

Dear Mr. Cassulo:

Rincon Consultants, Inc. (Rincon) is pleased to present this construction monitoring report documenting paleontological monitoring conducted in 2023 for the Cell 8 Project at Chiquita Canyon Landfill (CCL).

This report presents the results of the paleontological monitoring conducted by Rincon under contract to Chiquita Canyon, LLC, during construction of the Cell 8 Project in 2023 at CCL, located in the unincorporated community of Castaic, Los Angeles County, California. All work was conducted as stated in the Paleontological Monitoring and Mitigation Program (PRMP) (Paleo Solutions, Inc. [Paleo Solutions] 2018) and in compliance with the California Environmental Quality Act (CEQA); the California Public Resources Code; local regulations; Mitigation Measures (MM) CR-4 through CR-9 of the CCL Master Plan Revision Project's Final Environmental Impact Report (FEIR) (Los Angeles County Department of Regional Planning [LADRP] 2017); the paleontological requirements of Condition No. 95 of the CCL Master Plan Revision Project's Conditional Use Permit (CUP No. 2004-00042) and associated Implementation and Monitoring Program; and guidelines set forth by the Society of Vertebrate Paleontology (SVP; 2010). This paleontological work was required by the LADRP to fulfill their requirements as the lead agency under CEQA.

Project Location and Description

The CCL is an existing Class III (municipal solid waste) facility located in northwestern Los Angeles County near the community of Castaic, California. The CCL covers approximately 639 acres in the *Val Verde, California* United States Geological Survey 7.5-minute topographic quadrangle. The CCL is bounded by California State Route 126 to the south, Chiquita Canyon Road to the west, Franklin Parkway to the east, and Livingston Avenue to the north.

The Master Plan Revision Project includes various construction projects at CCL to increase capacity over a 30-year planning horizon. The individual construction projects are based on capital expenditure planning and independent utility. The Cell 8 Project is an element of the CCL Master Plan Revision to provide additional disposal capacity to help meet the solid waste management needs of Los Angeles County.

Ground-disturbance for the Cell 8 Project occurred primarily within the North Soil Borrow Site (NSBSB) and South Soil Borrow Site (SSBS). The NSBS and SSBS are located in the eastern part of CCL, in the vicinity of Cell 7. The NSBS is underlain by the Pico Formation and Saugus Formation, whereas the SSBS is underlain solely by the Saugus Formation. Both of these geologic units have high

paleontological sensitivity (LADRP 2017). Ground-disturbing construction activities associated with the Cell 8 Project consisted of excavation to provide sediment needed for construction elsewhere in CCL for the Cell 8 Project. Additional ground-disturbance for the Cell 8 Project consisted of storm damage repair and utility pole installation within Cell 8. Cell 8 is underlain by Quaternary alluvium, which has low paleontological sensitivity, and the Saugus Formation, which has high paleontological sensitivity (LADRP 2017).

Definition and Significance of Paleontological Resources

The PRMP (Paleo Solutions 2018), approved for the Master Plan Revision Project by LADRP in May 2018, contains a detailed discussion of the definition and significance of paleontological resources as considered during monitoring activities and preparation of this report.

Laws, Ordinances, Regulations, and Standards

A complete discussion of the state and local regulatory requirements pertaining to paleontological resources that applied to the Master Plan Revision Project, including full text of the FEIR mitigation measures CR-4 through CR-9, CUP Condition No. 95, and IMP Part IX, are included in the PRMP (Paleo Solutions 2018).

Methodology

The paleontological scope of work conducted by Rincon in 2023 consists of construction monitoring, laboratory preparation of collected fossils, and preparation of this report. All monitoring and laboratory work was conducted under the supervision of Jennifer DiCenzo, who served as Project Paleontologist. Andrew McGrath was the primary author of this report for which Jennifer DiCenzo provided senior-level review.

Field Methods

Paleontological monitoring was conducted for a total of 103 days between May 10 and December 18, 2023, by Rincon monitors Pedro Garcia Jimenez, Andrew McGrath, Edgar Garcia, and Christopher Tessier. In accordance with the PRMP, paleontological construction monitoring was conducted for all earth-moving activities occurring in the Saugus Formation and the Pico Formation (Paleo Solutions 2018). Ground disturbance in Cell 7 in 2023 occurred for 102 days and consisted of grading and excavating with scrapers and dozers (Attachment 1, Photographs 1-2). Ground disturbance in Cell 8 in 2023 occurred for 3 days and consisted of excavating for storm drains with trackhoes (Attachment 1, Photograph 3), reshaping and re-compacting roads with dozers, creating access roads with dozers (Attachment 1, Photograph 4), and drilling for utility pole installations with a truck-mounted auger (Attachment 1, Photograph 5). Monitors followed scrapers and dozers, when it was safe to do so, to check for exposed fossils. Photographs were taken to document monitoring activities and record lithologic observations (Attachment 1). Paleontological monitors completed daily monitoring logs, which summarized daily activities, including the size and extent of ground disturbances, types of excavations, and equipment used for construction activities (Attachment 2). The monitor also provided lithologic descriptions of sediments observed during ground disturbances.

Laboratory Methods

Rincon is currently preparing several potentially significant salvaged paleontological resources in Rincon's paleontological lab in Carlsbad, California, for curation in the Natural History Museum of Los Angeles (NHMLA). The fossils are being prepared with a PaleoTools ME-9100.

Data Distribution

Copies of this report will be submitted to Chiquita Canyon, LLC; LADRP; and, if the recovered fossils are determined to be scientifically significant, NHMLA. Rincon will retain an archival copy of all Cell 8 Project information including field notes, maps, and other data.

Results and Conclusions

Geological Data

Within Cell 7, strata of the Pico Formation and Saugus Formation are highly tilted, in agreement with Dibblee and Ehrenspeck (1993), who reported that these beds dipped 40 to 50 degrees toward the south.

Initial grading of the northern part of the SSBS impacted disturbed sediments. These sediments were generally 1 to 3 feet thick and consisted of very loose, low-density, dark brown soil mixed with woody debris (mulch), vegetation, and trash (Attachment 1, Photograph 6).

The Saugus Formation entirely underlies the SSBS, and field observations showed that this geologic unit is somewhat variable with lithologically distinct beds generally being only a few feet thick and not showing any sequential pattern. These beds included tan, poorly sorted, gravelly sandstone; light gray, sometimes laminated, gravelly coarse-grained sandstone; and (much less commonly) light brown, friable, silty clay (Attachment 1, Photographs 7-9).

Per the map of Dibblee and Ehrenspeck (1993), the NSBS is bisected roughly east-west by the conformable contact between the Pico Formation and Saugus Formation. Many authors (e.g., Campbell et al. 2016; Squires 2012) observe interfingering of these two formations as the depositional environment repeatedly shifted between offshore marine (Pico Formation) and terrestrial fluvial (Saugus Formation). The particular facies of these formations mapped in Cell 7 by Dibblee and Ehrenspeck (1993) and Campbell et al. (2016) are somewhat similar in being light-colored and generally sandy. Therefore, it is unsurprising that no obvious contact between the Saugus Formation and Pico Formation was observed during paleontological monitoring. Several beds could not be confidently assigned to either geologic unit, such as brown, pebbly sandstone which likely represented a transition between the two depositional environments (Attachment 1, Photograph 10). Nonetheless, on the northern side of the NSBS and, after substantial grading had already occurred across the southern side of the NSBS, strata clearly representing the Pico Formation were observed. These sediments were generally tan, yellowish-tan, or brown in color (as opposed to the grayer sediments of the Saugus Formation) and consisted of claystone, siltstone, silty sandstone, and sandstone (as opposed to the gravelly sandstone common in the Saugus Formation; Attachment 1, Photographs 11-13). However, the most obvious sign of the Pico Formation are several-foot-thick layers of shell hash in which generally fragmented bivalve, and occasionally gastropod, shells within a silty or sandy matrix, which Campbell et al. (2016) reported are common in the upper part of the Pico Formation (Attachment 1, Photograph 14).

The hillslopes of Cell 8 are mapped as the high-sensitivity Saugus Formation, whereas the lower-lying areas are mapped as low-sensitivity Quaternary alluvium (Dibblee and Ehrenspeck 1993; Paleo

Solutions 2018). However, all ground-disturbing construction activities within Cell 8 in 2023 solely impacted previously disturbed sediments. These sediments were generally homogenous in color and lithology, lacked any sort of bedding structures, and often contained trash or woody debris.

Paleontological Data

The most common fossils observed within Cell 7 during 2023 were the shell hash layers within the upper Pico Formation described above (Attachment 1, Photograph 14). The overwhelming majority of these specimens were fragmentary, and invertebrates from the Pico Formation are well-studied in the scientific literature and well-represented in museum collections (Paleobiology Database 2023; Squires 2012). Given the state of preservation and commonality of the fossils in these shell hash beds, they are largely non-significant (SVP 2010). However, relatively intact, potentially identifiable specimens were still collected (Attachment 1, Photograph 15). These specimens will be prepared in Rincon's paleontological laboratory in Carlsbad, California.

Several trace fossils likely representing invertebrate burrows were discovered within the Pico Formation. They were identified by virtue of consisting of darker, finer-grained sediment relative to the surrounding strata and their slightly curved shape (Attachment 1, Photograph 16). These specimens were not collected.

On June 5, 2023, several large mammal bone fragments were collected by Rincon paleontologist Pedro Garcia Jimenez from the Pico Formation in the NSBS (Attachment 1, Photograph 17). This specimen will be prepared in Rincon's paleontological laboratory in Carlsbad, California.

No significant or non-significant paleontological resources were observed during paleontological monitoring within Cell 8 during 2023.

A fossil was discovered in Cell 8 during late 2021. At this time, paleontological monitoring was conducted by Paleo Solutions. CCL gained possession of this fossil in September 2022 after which it was provided to Rincon. Laboratory preparation, significance determination, and discussions with the Natural History Museum of Los Angeles County regarding curation of this fossil are ongoing at the time of this report.

We appreciate the opportunity to provide you with paleontological resources consulting services for this project. If you have any questions regarding this report, please contact Jennifer DiCenzo at jdicenzo@rinconconsultants.com.

Sincerely,

Rincon Consultants, Inc



Jennifer DiCenzo
Paleontological Program Manager



Andrew McGrath, PhD
Paleontologist/Project Manager

Attachments

Attachment 1 Site Photographs
Attachment 2 Daily Monitoring Logs

References

Campbell, R.H., C.J. Wills, P.J. Irvine, and B.J. Swanson. 2016. Preliminary geologic map of the Los Angeles 30' x 60' quadrangle, California: version 2.1. [map.] California Geological Survey. Preliminary Geological Maps PGM-13-06.2016, scale 1:100,000.

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Dibblee, T.W. and H.E. Ehrenspeck. 1993. Geologic map of the Val Verde quadrangle, Los Angeles and Ventura Counties, California. [map]. Dibblee Geologic Foundation, Dibblee Foundation Map DF-50, scale 1:24,000.

Paleo Solutions, Inc. (Paleo Solutions). 2018. Paleontological Resources Mitigation Plan: Chiquita Canyon Landfill Expansion Project. April 16, 2018.

Society of Vertebrate Paleontology (SVP). 2010. Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources. Society of Vertebrate Paleontology Impact Mitigation Guidelines Revision Committee. https://vertpaleo.org/wp-content/uploads/2021/01/SVP_Impact_Mitigation_Guidelines-1.pdf.

Squires, R.L. 2012. Late Pliocene megafossils of the Pico Formation, Newhall area, Los Angeles County, southern California. Natural History Museum of Los Angeles County Contributions in Science. Number 520, pp. 73-93.

Attachment 1

Site Photographs



Photograph 1. Scrapers grading in the North Soil Borrow Site. South Borrow Site in background.



Photograph 2. Dozers pioneering and grading in North Soil Borrow Site.



Photograph 3. Dozer repairing storm-damaged road in Cell 8.



Photograph 4. Dozer grading for new access road in Cell 8.



Photograph 5. Truck-mounted auger drilling for utility pole installation in Cell 8.



Photograph 6. Disturbed sediments seen in the South Soil Borrow Site. Topsoil mixed with woody debris, trash, and vegetation.



Photograph 7. Light gray gravelly sand of Saugus Formation.



Photograph 8. Light gray, laminated sandstone of Saugus Formation.



Photograph 9. Brown, friable, silty clay bed of Saugus Formation.



Photograph 10. Brown pebbly sandstone of Saugus Formation or Pico Formation.



Photograph 11. Yellowish-tan sandstone of Pico Formation.



Photograph 12. Brown, laminated fine sandstone-siltstone of Pico Formation.



Photograph 13. Brown, well-sorted, plastic clay of Pico Formation.



Photograph 14. Shell hash within tan siltstone of Pico Formation.



Photograph 15. Six bivalve specimens collected from Pico Formation.



Photograph 16. Trace fossil within Pico Formation. Not collected.



Photograph 17. Potentially significant mammal fossils recovered from Pico Formation.

Attachment 2

Daily Monitoring Logs

Attachment 2

Daily Monitoring Logs

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Andrew McGrath	**Date:** May 10, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 12:00	**Total Monitoring Hours:** 5
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 80 °F Clear		

Project Location:

Zone 11S 349262E 3811703N Unincorporated Los Angeles California

Construction Activities Monitored:

Grubbing with D10 dozer in Cell 7

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Checked sediments exposed behind dozer

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Sediment was disturbed and fill (mulch, trash, etc). Mapped as Saugus Formation

Comments:

WEAP delivered. Crew planned to begin excavating for road to top of north borrow site. Delivery of bridge structure delayed to afternoon. Mechanical issues with D8 dozer prevented digging to prepare for bridge from happening.

Paleontological Daily Monitoring Report

Photographs



Facing: South
D10 dozer grubbing in Cell 7



Facing: East
Disturbed/fill sediments being grubbed

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Andrew McGrath	**Date:** May 11, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 14:00	**Total Monitoring Hours:** 7
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 85 °F Clear		

Project Location:

Zone 11S 349260E 3811684N Unincorporated Los Angeles California

Construction Activities Monitored:

Pioneering with dozer. Road to top of north soil borrow site and top of north soil borrow site. Pioneering with dozer for road to south soil borrow site.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Checked sediments exposed behind path of dozer

Were Fossils Collected? ☑ **YES** ☐ **NO (If yes, describe below)**

Fossil Description:

3 different locations. All bivalve shell fragments. All in gray, well-sorted, medium grained sandstone of Saugus Formation (Fm.)

Geologic Observations and Lithologic Descriptions:

In roads, soil and Saugus Fm. intermittently exposed. Soil made up of light brown, low density, very fine-grained loamy silt Saugus Fm. consisted of 2 facies Clay facies: brown and dark gray, well-sorted, silty clay. Coherent. Somewhat plastic. Sand facies: light gray, sometimes laminated, gravelly sand. Gravel is subrounded plutonic or metavolcanic rocks.

Comments:

Tailgate meeting attended.

Photographs

Paleontological Daily Monitoring Report



Facing: North
Soil exposed in road up to north soil borrow site.



Facing: North
Saugus Fm. Sand facies showing lamination.



Facing: North
Saugus Fm sand facies



Facing: North
Saugus Fm clay facies close up



Facing: North
Saugus Fm clay facies



Facing: North
Dozer pioneering at top of north soil borrow site.

Paleontological Daily Monitoring Report



Facing: North
Part of AM_05112023_01



Facing: North
Part of AM_05112023_01l



Facing: North
Part of AM_05112023_02



Facing: North
Part of AM_05112023_03



Facing: North
Site of AM_05112023_03

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 15, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 85 °F Clear sunny with occasional clouds		

Project Location:

Zone 11S 349323E 3811699N Castaic Los Angeles California

Construction Activities Monitored:

On the NW side of cell 7 C.A Rasmussen general engineering is over excavating and compacting soil using 2 CAT D8T bulldozers, a 872 GP DEERE grader and 2 657 b Caterpillar scrappers. The purpose of the excavation is to lower the grade at the NW and use the excavated soil to compact the ground and make a dirt road to the SW of cell 7. The bulldozer made the initial cuts and the scrappers picked up the soil to drop it on a nearby hill slope about 60 feet above the excavated area going towards the SW. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The soil types observed today are varied. The soil observed at the previously disturbed area is brow/black mulch mixed with brown loam. The predominant soil type at the undisturbed excavated areas is well sorted, fine grain tan silt sand, but as depth increases about 3 feet there are patches of well compacted brown clay, well compacted dark gray clay, coarse grain yellow silt sand, light gray coarse grain sand and dark orange coarse grain sand. There are some rounded rock conglomerates on the light gray to white coarse grain sand. The color of the soils is darker from the fresh cut, as soil dries the colors become lighter. No paleontological resources found.

Comments:

Photographs



Overview of excavation by the scrappers
Facing: Southeast
Location: Zone 11S 349192E 3811357N



Photo looking NW shows the difference in soils and geological units
Facing: Northwest
Location: Zone 11S 349309E 3811691N

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita canyon landfill	
Monitor: Pedro Garcia	**Date:** May 16, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 85 °F Clear sunny skies occasionally partly cloudy		

Project Location:

Zone 11S 349347E 3811734N Castaic Los Angeles California

Construction Activities Monitored:

On the N side of cell 7 a D8T bulldozer started to remove vegetation and over excavate a hill slope that varied in height the first summit area graded was about 180 feet high and the second summit excavated was about 250 feet high. The purpose of the excavations at the N is to make a way for the scrappers to be able to over excavate the N hill slope. At the180 feet summit shell fragments were observed located at UTM: E:349206.2 and N: 3811881.4. The fragments were on silt-sandstone tan and gray- white in color. Shells were not collected because the fragments were not found on situ. At the SW and NW of cell 7 over excavation continued. The excavated soil was taken to the SW by the scrappers, and it was dumped and compacted into the SW dirt road. Equipment used today are 2 D8T CAT bulldozers, 2 Caterpillar 657 B scrappers and 1 DEERE 872 GP grader.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The dominant soil type at the North hill slope is fine grain tan silt, there is also more yellow tan silt-sand, in the North hill slope there are small 2 feet deep pockets of brow-orange clay. The shell fragments were found inside tan-orange silt-sandstone. The shape of the silt-sand stones are rounded with coarse grains. The North hills slope is inside the Pico Formation there are sand and siltstone with pebble and gravel size conglomerates.

Comments:

Photographs



Looking N shows the hill slope graded at the N
Facing: Northeast
Location: Zone 11S 349203E 3811883N



Shell fragments observed half way to the North hill slope
Facing: North
Location: Zone 11S 349206E 3811878N

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 17, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 88 °F Clear sunny		

Project Location:

Zone 11S 349288E 3811731N Castaic Los Angeles California

Construction Activities Monitored:

Monitored Vegetation removal done by a D8T bulldozer on a hill slope at the Southeast of cell 7. Area excavated is a dirt path across the hill slope it measures about 35 feet from the South to North by 380 feet from the East to West. The height of the hill is about 250 feet. Also Monitored over excavation on a hill slope at the North of cell 7. The height of the North hill slope is about 280 feet high. The bulldozer is cutting the ground to make a dirt path for the scrappers to come in. The Equipment used is 2 D8T CAT bulldozers. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The SE hill slope is inside the Saugus formation. Excavation is being done at an elevation of about 1250 feet above sea level. The soil type of the excavation area at the SE is varied; there is tan silt-sand, compacted light brown silt stone, brown-orange clay, poorly consolidated white-gray coarse grain sand. The North Hill slope excavation is inside the Pico formation, the soil type is tan silt-sand, tan silt-sandstone, light brown clay, and unconsolidated gray-white sand. Iron oxidation was observed on tan sand-silt stone and on gray-white sandstone. No paleontological resources found.

Comments:

Photographs



SE hill slope excavation and vegetation removal
Facing: Southeast
Location: Zone 11S 349224E 3811575N



Excavation at the top of the North hill slope to make a way for the scrappers.
Facing: North
Location: Zone 11S 349203E 3811883N

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 18, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 68 °F **High Temperature:** 85 °F Clear sunny		

Project Location:

Zone 11S 349316E 3811658N Castaic Los Angeles California

Construction Activities Monitored:

A D8 T bulldozer of C.A Rasmussen Inc. continued removing vegetation and over excavating the SE hill slope at cell 7. Here the bulldozer worked in an area measuring about 360 feet in length by 35 feet width. The height of this hill is about 230 feet. The amount of soil removed is about 5 feet across the hill path, excavated soil was pushed down hill. At the North hill slope the D10 T CAT bulldozer came back to make a cut at the top center of the hill. The work area measures about 245 feet east to west by about 80 feet north to south at the very top of the hill. This hill has a height of about 260 feet. The elevation above sea level is about 1250 feet. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment at the SE hill slope is fine grain light tan -gray silt, to a lesser amount there is light brown silt, light gray-yellow coarse grain sand with gravel size rocks, gray-yellow consolidated sandstone, dark gray consolidated siltstone. The geological units are closely overlapping with light gray sand dominating the east and west sides coming up the hill. At the bottom of the SE hill excavation the cobble and boulder size consolidated silt and sandstone fell from the soft silt-sand. The soil that is dominant at the N hill slope is fine grain tan silt sand. It has pockets of light brown clay and coarse grain gray-white sand. This area is inside the Saugus Formation and it's at an elevation of about 1250 feet above sea level. No paleontological resources found.

Comments:

Photographs



Looking East shows progress of over excavation at the SE hill slope
Facing: East
Location: Zone 11S 349314E 3811524N



Phasing West shows progress of excavation by bulldozer at the East to the SE hill slope
Facing: West
Location: Zone 11S 349489E 3811557N



Looking NE shows C.A Rasmussen Inc. resuming excavation activities at the N hill slope
Facing: Northeast
Location: Zone 11S 349212E 3811788N

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita canyon landfill	
Monitor: Pedro Garcia	**Date:** May 19, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 64 °F **High Temperature:** 85 °F Completely cloudy in the morning, clear sunny after 11 am		

Project Location:

Zone 11S 349337E 3811796N Castaic Los Angeles California

Construction Activities Monitored:

On the north hill slope C.A Rasmussen Inc. continued over excavation and soil compaction. The purpose is to make an east to west dirt road for scrappers to come in and grade soil Monday. The size of the area excavated is a dirt road measuring about 35 feet in width and 410 feet in length east to west. Most of the excavation happened at the center top of the hill. The bulldozers pushed the excavated material down to even out the ground. Equipment used a Caterpillar D 8T bulldozer, and a CAT D 10T bulldozer.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hill slope has varied soils and geological units. The predominant sediment is tan fine grain silt, brown-tan fine grain silt, yellow- tan fine grain silt, shell fragments were found on the spoils of excavation not in situ inside fragments of yellow-tan silt-sandstone UTM: E 349163.5. N: 3811924.7. The elevation at which the excavation is taking place is about 1300 feet above sea level. The height of the north hill slope is about 240 feet high. No paleontological resources were collected.

Comments:

Photographs



C.A Rasmussen Inc. continued excavation at the North hill slope
Facing: Northeast
Location: Zone 11S 349283E 3811712N



Shell fragments found not in situ on the spoils of the North hill excavation
Facing: North
Location: Zone 11S 349208E 3811864N



Shell fragments inside tan/orange silt-sand found on the spoils of North excavation not in situ
Facing: North
Location: Zone 11S 349207E 3811862N



Looking NE shows progress of excavation
Facing: Northeast
Location: Zone 11S 349197E 3811800N

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 22, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 85 °F Partially cloudy, clear sunny afternoon		

Project Location:

Zone 11S 349207E 3811822N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rasmussen Inc. moved over excavation activities to the southeast bottom center edge of Cell 7. Here the D8T bulldozer made ground cuts about 3 feet in depth for the 2 657 E Caterpillar scrappers to grade down this area. The excavated sediment was dropped on a raised slope at the SW and NW of cell 7. The excavation at the northeast hill slope of Cell 7 also continued, there a D 10 bulldozer made the initial cut, it pushed and evened out the slope at the top of the hill for the 2 CAT scrappers to continue lowering the grade and making a path that goes east to west. No paleontological resources found. Equipment used 2 CAT 657 B scrappers, 1 D 10 N CAT bulldozer and a D 8 T bulldozer.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Soil type on the SE of cell 7 is dark brown mulch on the top this area has been disturbed mulch was brought in and it is mixed with trash. At the east edge of the hill there is bush vegetation. The excavated sediment at 3 feet of depth after the mulch is yellow-tan silt-sand, which has gravel size rock conglomerates, after 3 feet of depth there is white-gray silt-sand and coarse gray to white sand. Patches of light brown and dark gray clay and silt stone are also seen at a depth lower than 3 feet. Sediment at the north hill slope is fine grain yellow-tan silt-sand, there are pebble and cobble size rock conglomerates, and there are scattered spots of dark gray and brown clay and silt stone. There are also yellow and white gray sandstone conglomerates, and brown, yellow and dark gray silt stone fragments. No paleontological resources observed.

Comments:

Photographs



Looking NE shows bulldozer over excavating at the NE hill.
Facing: Northeast
Location: Zone 11S 349199E 3811807N



Looking South shows soil grading at the bottom SE
Facing: South
Location: Zone 11S 349246E 3811765N



NE scrappers coming up the N slope to grade down soil
Facing: Northeast
Location: Zone 11S 349174E 3811800N

Paleontological Daily Monitoring Report

Project Number: 22-13206	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 23, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 78 °F Completely cloudy		

Project Location:

Zone 11S 349198E 3811801N Castaic Los Angeles California

Construction Activities Monitored:

At the beginning of the day CA Rasmussen Inc focused on excavating the northeast hill slope of cell 7. At the start of today 2 CAT bulldozers removed and pushed sediment downhill while 2 Caterpillar scrappers continued making their way through the NE hill going east to west. Later on the D8T bulldozer moved to the SE hill slope to grade down sediment and make a path for scrappers. Two more 657 B scrappers were used to excavate the NE hill slope in total 4 scrappers were used. Equipment used 4 657 B Caterpillar scrappers, 1 D10 T CAT bulldozer and 1 D 8 T CAT bulldozer.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the NE hillside of cell 7 the sediment consists of fine grain tan silt-sand, there is also brown silt-sand and yellow and white-gray coarse grain silt-sand with gravel size conglomerates. At the SE hillslope the sediment consists of fine grain tan-brown silt-sand at about 2 feet close to the surface from vegetation removal, at about 3.5 feet of depth there is fine grain yellow- brown silt, at a depth lower than 4 feet soil becomes light white-gray silt sand. The yellow and gray coarse grain sand has gravel and pebble size conglomerates with calcified inclusions. There is also well consolidated brown silt stone and dark gray clay. No paleontological resources observed.

Comments:

Photographs



Looking NE shows the continuation of over excavation at the top of the north hill slope
Facing: Northeast
Location: Zone 11S 349199E 3811801N



Looking East shows the D8T Bulldozer grading soil at the east end of the SE hill slope
Facing: East
Location: Zone 11S 349376E 3811520N



657 B scrappers coming down the North hill going SW in total 4 scrappers were used
Facing: West
Location: Zone 11S 349294E 3811774N

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 24, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Completely clout		

Project Location:

Zone 11S 349228E 3811565N Castaic Los Angeles California

Construction Activities Monitored:

On cell 7 of CCL at the base of the SE hill the CAT D8T bulldozer removed the remaining topsoil, it consisted of mulch and loam soil that was previously brought in and dumped there. Deeper cuts were also made with about 3 to 4 feet of sediment being removed. Silt-sand and clay was the nature of the soil at lower depths. On the NE the C.A Rasmussen Bulldozers made further cuts and compacted sediment at the very center top of the NE hill. The 4 657 B scrappers also continued driving up and down the hill grading sediment and dumping the excavated sediment up a west work road and all the way up the tailboard meeting area passing the workers parking area. No paleontological resources were found today. Equipment 1 D8T CAT bulldozer, 4 657 B CAT scrappers, 1 John Deere tractor grader, and 1 DEERE 14M grader.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The geological unit at the NE hillside area is the Saugus formation, which is fine grain tan yellow silty sand. This sediment type is prevalent at surface level and at lower depths. The heavy consolidated tan, yellow, gray, and brown silty sandstone dropped to the bottom and sides of the hill. Gravel size and pebble size rock conglomerates can be seen on the poorly consolidated gray-white sand and yellow-tan silt-sand stones. The sediment type and geological unit at the SE bottom area is dark brown mulch and loam. This soil is heavily disturbed with plastics, and metal fragments the mulch was brought into the site; this soil is non-native. The native sediment is fine grain brown silt at the very top surface 1-2 feet of depth, the soil varies gradually to fine grain tan silt-sand. Coarse grain yellow sand is observed in patches, as well as gray tan silt, well consolidated dark gray silt stone is also seen, as well as well consolidated brown silt stone. No paleontological resources found.

Comments:

Photographs



Looking NW shows the continuation of soil over excavation at the NE hillside
Facing: Northwest
Location: Zone 11S 349263E 3811794N



Looking NW shows progress of excavation at the NE bills and variation in soil at the SE
Facing: Northwest
Location: Zone 11S 349335E 3811692N

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** May 25, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 11:30	**Total Monitoring Hours:** 4.5
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 349245E 3811426N Castaic Los Angeles California

Construction Activities Monitored:

On the SE hill side of cell 7 C.A Rasmussen Inc. started to use 3 657 B CAT scrappers to lower the grade of the SE hill, the D10N CAT bulldozer helped cut sediment for the scrappers to come in and pick up the sediment. The excavated sediment was taken west and dropped on the work roads going up to the tailboard meeting area. A D8T bulldozer kept cutting and compacting the top of the NE hill side. This is to flatten the surface at the top center of the hill and at the east and west side roads that help the CAT scrappers come up and down. Equipment used 3 657 B Caterpillar scrappers, 1 SA074 John Deere tractor grader, 1 D10 T CAT bulldozer and 1 D 8 T CAT bulldozer.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The excavated area at the sides of the SE hill has tan-brown silt at the top surface. Tan-yellow silt-sand sediment is the prevalent sediment type. There is also gray-white silt-sand that has some coarse grain sandstone and gravel size pebble conglomerates. On the Northeast the topsoil at the sides that have not been excavated have brush vegetation the soil is black organic with dry roots. At about 1 feet of depth soil is brown silt loam, there is also brown-orange silt loam at depths lower than 2 feet orange-brown silt clay is seen, the dominant sediment after that is coarser grain tan-yellow silt-sand, there are some pockets of dark brown clay-silt stone and dark gray silt-sandstone. There is light gray to white sandstone and gray clay with orange and red iron oxidation. Small shell fragments were observed going up the North hill on tan-yellow silt sand sediment. Sediment erosion from rain wash has exposed some underlying sediment. Going downhill there is an area with exposed shell fragments about 30 centimeters in thickness the location is at about 1250 feet of elevation from sea level. The hill has a height of 280 feet and the UTM: 11S Easting: 349238.8, Northing: 3811924.4. This area of the hill has not been excavated. No paleontological resources were collected.

Comments:

Paleontological Daily Monitoring Report

Photographs



Found an area of the NE hill side that has an exposed layer of small shell fragments.
Facing: Northwest
Location: Zone 11S 349261E 3811934N



Shows the small shell fragments seen on the layer of the hill this area has not been excavated.
Facing: Northwest
Location: Zone 11S 349261E 3811934N

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garcia	**Date:** May 26, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 349275E 3811483N Castaic Los Angeles California

Construction Activities Monitored:

At cell 7 of the Chiquita Canyon Landfill C.A Rasmussen Inc. continued sediment grading activities at the SE hillside. The 5 657 B Caterpillar scrappers graded the sediment across the hill using the east to west roads that were cut by the D8T bulldozer. The work area graded today has a length of about 340 feet. And the roads going up and down the hill slope have a thickness of about 40 feet. The Width of the top center of the hill is about 80 feet. About 8 to 6 feet of sediment were removed. The excavated sediment was taken west, and it was dumped on compacted work roads and up to the tailboard meeting spot. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment type and geological unit at the southeast is brown solidified silt-clay at the sides of the hill that have not been excavated. Once excavation is done, tan silt-sand is the predominant sediment type across the whole hill. After 2 feet of excavation, there is well consolidated solid brow-tan siltstone, there is also dark gray solid sand-siltstone. The heavy consolidated silt and sandstone drop to the side of the hill, these have sharp edges. Gravel and pebble size sharp edge conglomerate stones were observed. This work area is inside the Saugus formation. No paleontological resources found.

Comments:

Paleontological Daily Monitoring Report

Photographs



Looking NE shows the path the scrappers take at the SE hill side
Facing: Northeast
Location: Zone 11S 349274E 3811483N



Looking southwest shows the progress of excavation
Facing: Southwest
Location: Zone 11S 349249E 3811611N

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** May 30, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348947E 3811033N Castaic Los Angeles California

Construction Activities Monitored:

5 657 B Caterpillar scrappers graded sediment at the SE hill slope of cell 7. The CAT D8T Bulldozer and the CAT D10N bulldozers cut the ground to loosen out the sediment for the scrappers to pick it up and take it up to the west work roads and to the tailboard meeting spot. Pioneering at a low SE hill slope was done after removing storm drainpipes. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The excavation at the SE is inside the Saugus Formation. This area is 1250 feet above sea level. At the lower SE there is an area being extended for excavation which measures about 60 feet south to north by 190 feet east to west. The purpose of the excavation is to remove old storm drain lines and storm drainpipes. The bush vegetation, mulch and brown loam were removed from the sides and top of this new area. The depth ranges from about 8 feet to 3 feet. The sediment type is dark brown mulch at the top. This sediment has been brough into the site and is not native sediment. At about 2 feet of depth the sediment type is light tan silt-sand with conglomerate rocks with mostly rounded edges. There are pockets of orange coarse grain poorly sorted sand. There is also tan silt and sandstone fragments with sharp edges. The main excavation area which is the SE hill measures 350 feet east to west, the width varies at certain areas from 40 to 80 feet. No paleontological resources found.

Comments:

Paleontological Daily Monitoring Report

Photographs



Looking SE shows the CAT scrappers coming down from grading the SE hill. At the top is the bulldozer making a cut

Facing: Southeast

Location: Zone 11S 348947E 3811033N



Looking East show some of the pioneering done at the new lower SE excavation areas

Facing: East

Location: Zone 11S 349281E 3811639N

Paleontological Daily Monitoring Report

sediment **Project Number:** 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** May 31, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 349403E 3811584N Castaic Los Angeles California

Construction Activities Monitored:

Equipment used 5 657 B Caterpillar scrappers, 1 D10 T CAT bulldozer and 1 D 8 T CAT bulldozer.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment type at the N hill is brown-orange silt-clay at the sides of the hill that has been rain washed and still has chaparral vegetation. The sediment varies a lot with small 1 and 2 feet geological units and sediment layers with tan-yellowish silt-sand. The predominant sediment is light tan silt, and there are small pockets of dark brown clay-silt stone, dark gray silt-clay stone. The conglomerates found at the coarse grain yellow sand sediment are rounded gravel size white, black, orange, and brown in color. The gravel size rocks found at the silt and clay surface sediment have sharp edges and are red, black, yellow, and white.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D8T bulldozer lowering they grade at the east end of the southeast hill



Facing: West
Looking west shows center top of north hill slope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 1, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348851E 3811131N CASTAIC Los Angeles California

Construction Activities Monitored:

C.A Rassmussen continued over excavation activities at the north hill side of cell 7. 5 657 B Caterpillar scrappers went up and down the work roads at the north hill to lower the sediment grade level, at the center top and west side of the N hill. The D10N CAT bulldozer ripped the sediment at the center and east end of the N hill to loosen up sediment and even out the work surface for the 657Bs to take the excavated sediment up the west roads and up the tailboard meeting spot. At the southeast lower center area of cell 7 the D8T bulldozer was ripping the ground and grading sediment to bench out a east to west road. This area measured about 6 feet in width by 280 feet east to west. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The excavation activities at the north hill are inside the Saugus formation. The sediment types on the north area are brown/orange clay-silt at the top and back NW side, at about 220 feet of height. There are also dark gray silt-clay stone fragments. The predominant sediment type at a height of about 200 feet and below is tan-yellow silt-sand. At a height of about 200 feet Inside coarse grain tan-yellow sandstone small fragments of shell were observed but not collected. There are pockets of light brown clay and light gray clay scattered downhill. And some pockets of yellow coarse grain sand with gravel size rounded conglomerate stone. At the center SE area, the sediment type found on the top side of the benched road is coarse grain light tan silt-sand, there are gravel and pebble size rounded conglomerate stones on the edge of the road. At the surface of the excavation from today, there is a layer of orange-brown clay-silt stone very fragmented. The dominant sediment observed is tan-gray silt sand. No paleontological resources found.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D8T evening out a bench road at the SE lower hill



Facing: North
Looking N shows the continuation of sediment grading at the north hill of cell 7



Facing:
Looking SE show the bulldozer at the center top



Facing:
Shell fragments observed at the north hill were not collected

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 2, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 68 °F **High Temperature:** 85 °F Partially cloudy to clear sunny day.		

Project Location:

Zone 11S 348956E 3811044N Castaic Los Angeles California

Construction Activities Monitored:

On the north hill slope of cell 7 C.A Rassmussen continued grading sediment using the 5 657 B CAT scrappers the D10N bulldozer also started doing pioneering excavation at the west side of the north hill. Chaparral vegetation was removed. The bulldozer also graded the base of the north hill to flatten out the work roads being used by the 5 scrappers. At the end of the day the 5 657 B scrappers and the D10N moved to the lower SE of cell 7 to grade and excavate sediment there. No paleontological resources collected.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hill slope is Saugus Formation. The west side of the north hill slope is mapped as Pico Formation. The sediment varies. At the top NW side of the hill that still has chaparral vegetation the sediment is light brown silt. The west side has been rain washed; it has brown-orange silt-clay sediment. At around 220 feet in height the exposed wall of the north hill has various sediment layers. There is fine grain yellow-tan silt-sand with sandstone fragments. At excavation depths lower than 8 feet there are 2 layers, one is dark brown clay-siltstone and below is a layer of light gray silty sandstone. The predominant sediment type after 15 feet of depth is tan silt-sand. Inside the tan-brown siltstone shell fragments were observed but not collected. UTM Easting:349203.6, Northing:3811883. Zone 11S. At about 1250 feet of elevation above sea level. No paleontological resources were collected.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking NE shows the Bulldozer pioneering at the west side of the N hill



Facing:
Show shell fragments inside sandstone at the west of the north hill



Facing:
The D10N moved to the SE center of cell 7 to grade sediment the CAT scrappers also moved to the center SE

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 5, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348957E 3811057N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen Inc. excavated on the north hill slope of cell 7. 5 657B CAT scrappers were used to cut sediment on the paths going up and down the hill slope. The D10N bulldozer stayed on the center top ripping the ground and compacting sediment. The D8T bulldozer did pioneering excavation at the west side of the N hill slope. Vertebrate bone fragments were found on the path of the CAT scrappers going down the north hill. Fragments were collected

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

On the north hill, slope the sediments are varied their average depth is about 2 feet deep. The biggest geological unit is that of tan silt-sand its the most abundant from a height of 200 feet down to the base of the hill. Shell fragments were observed on tan sandstone but not collected. On the north hillside of Cell 7 Chiquita Canyon landfill project six bone fragments were found and collected on a work road that is on the west side of the north hill slope this area has been cut by the D10N, D8T bulldozers and the 5 657B scrappers. Pedro Garcia collected the finds, the elevation at which the finds were collected is 1279 feet above sea level. Field number: PG06052023. These bone fragments are of a vertebrate species. Age of the find is unknown. City where these fragments were found in is Castaic, the county is Los Angeles. The UTM cordinates are Easting: 349216 . Northing: 3811860.9. At zone 11S. North of Equator. The sediment type where the fragments where found is tan-grayish silt-sand. The bone fragment are surrounded by brown and gray silt-sand stone. The area where the bone fragments were found has been graded by the 5 657 B scrappers about 10 to 12 feet of sediment have been removed there. The area surrounding the finds was monitored closely for more bone fragment finds no further paleontological materials were observed.

Comments:

Paleontological Daily Monitoring Report



Facing: Northeast
Looking NE shows the 5 657 B CAT scrappers coming down the North hill slope, the D10N grading the top center, and the D8T pioneering sojl a the W



Facing: North
Shows shell fragments and a gastropod with white weathered shell, its poorly preserved breacks easily, measures about 5cm



Facing: North
These are the bone fragments found today at scale



Facing: North
PG0652023. Six Bone fragments found on the N hill slope on one of the roads used by the 657B scrappers to grade down sediment.



Facing: West
Picture of the surrounding area where the bone fragments were found at 1279 feet of elevation

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 6, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348965E 3811060N Castaic Los Angeles California

Construction Activities Monitored:

Today, C.A Rassmussen continued over excavation at the north hill slope of cell 7 CCL. The D8T bulldozer completed some pioneering excavation and side wall benching at the west limits of the N hill. Occasionally the bulldozer also moved to the center top of the hill to compact sediment and cut the ground. 6 657B CAT scrappers came up an east road to loop around the N hill grading sediment to come down from the west side. The excavated sediment was taken to the tailboard meeting spot. No paleontological finds were collected.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment type at the center top of the north hill slope is light tan silt-sand. There are clusters of brown-tan silt stone. At the west side of the hill there are sparse layers of brown silt-clay. To the east end of the top center of the hill at an elevation of about 220 feet there is coarse grain gray sand and well sorted dark gray clay. At the W road there is also yellow-brown coarse grain sand-silt sediment. Shell fragments were observed inside brown siltstone and tan sand-silt stone but not collected.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking NE shows the 657B scrappers going up an east road of the north hill slope of cell 7 CCL



Facing: Southeast
Looking SE shows the 657 B scrappers coming up the east road after making a small loop around the north hill



Facing: North
At the center top of the north hill there are silt-sandstone with shell fragments nothing was collected

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 7, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348973E 3811033N Castaic Los Angeles California

Construction Activities Monitored:

Today, C.A Rassmussen continued to excavate sediment at the north hill slope. On the top center and east end of the hill the D10N bulldozer ripped the ground and loosened up sediment for the 5 657 B scrappers to pick up the sediment and take it to the west tailboard meeting spot. The 657 B scrappers used the east road to come up the hill slope and came down the west side. At the bottom west side of the hill a DEERE mini excavator removed sediment and vegetation from a concrete channel. No paleontological resources collected.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment type at the north hill slope is predominantly fine grain tan silt-sand. The top center of the north hill has various sediments. The thickness of the sediment layers vary most sparse sediment patches are about 2 feet in thickness. At 200 feet of height from the bottom of the hill to the top center there is a layer of brown-orange clay-silt stone it is well consolidated. To the east end of the hill there is a layer of coarse grain yellow sand-silt. Tan silt-sandstone is found on the west side of the hill at the center there is brown silt-clay stone. The sediment type at the base of the hill is brown-tan silt-sand and tan siltstone that fell from uphill. No Paleontological finds.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: South
Looking south the 657 B scrappers are coming down and a ths base of the hill



Facing: Southeast
Looking SE shows the D10N ripping the ground for the 657 B scrappers to take it to the tailboard meeting spot



Facing: Northwest
Shell fragments are found on the W side of the N hill inside tan-brown siltstone. This one was found at about 180 ft of height

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 8, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Sunny clear skies		

Project Location:

Zone 11S 348975E 3811039N Castaic Los Angeles California

Construction Activities Monitored:

Today 5 657 B CAT scrappers graded sediment on the east and west sides of the north hill slope of cell 7 CCL. The D10N bulldozer made deeper cuts at the east end and center middle of the north hill. About 6 more feet of sediment have been removed today on the top center, the east and the west roads of the north hill slope.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☑ **YES** ☐ **NO (If yes, describe below)**

Fossil Description:

A complete bivalve specimen was found today at a height of about 180 feet from the base of the N hill to halfway the west work road. Elevation of the find is 1300 ft above sea level. The location at which it was found is UTM: E: 349257, N: 3811886.8. Zone 11S. PG06082023. The specimen was found in brown-tan silt-sand sediment in situ. No other bivalve specimens were found in situ. Measurements of the bivalve are 8 cm by 6cm. A second bivalve was seen lower downhill about 160 feet from the bottom of the hill to the W work road. The 2nd bivalve was not collected because it was not found on situ.

Geologic Observations and Lithologic Descriptions:

The sediment type at the base of the North hill is tan-yellow-brown silt-sand, with fragments of silt-sandstone. Halfway the N hill the sediment has been mixed by the scrappers and bulldozer the predominant sediment seen is tan-yellow fine grain silt-sand. At about 200 feet in height there are layers of brown silt-clay with brown silt stone fragments at the west and center of the N hill. There are also small patches of coarse grain yellow sand with sandstone. At the east end there is also light gray-white sand.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking NE shows the bulldozer benching sediment on the W side of the hill as the 657 B scrappers excavate and remove sediment from the E side of the north hill



Facing: Southeast
Looking SE shows the benched side at the top of the north hill and the D10N ripping the ground



Facing: Southeast
Complete bivalve specimen found at a height of 180 feet. Elevation of 1300 ft above sea level and UTM: E: 349257, N: 3811886.8. Zone 11S. PG06082023 Specimen found at brown-tan silt-sand sediment.



Facing: Southeast
Looking SE shows the surrounding area were todays bivalve find was seen



Facing: North
Measurements of the bivalve are 8 cm by 6cm

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 9, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348962E 3811052N Castaic Los Angeles California

Construction Activities Monitored:

5 657 B CAT scrappers of C.A Rassmussen continued excavating sediment at the east work road going up the N hill slope of cell 7 CCL. Excavation also focused on the bottom base of the west side of the north hill area. The D8T bulldozer did pioneering excavation at the east end of the N hill slope as well as compaction on the same east area, also halfway the hill at the west side and at the base of the hill above the concrete water channel. On the SE lower hill slope of cell 7 the 657 B CAT scrappers moved there to continue excavating sediment from the east to the west. No paleontological finds.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The geological units at the top center of the north hill at cell 7 CCL are varied. The average layer size of sediment and bedrock are about 2 feet in depth. The predominant sediment type is tan silt-sand. The top sediment at the east side of the hill is brown loam with chaparral vegetation. At the east end of the top center there are layers of brown siltstone and brown clay. At the SE hillside the sediment is coarse grain gray-tan silt sand with gravel size round shaped conglomerates, there are also patches of brown siltstone. The tan silt sand sediment on the SE also has sandstone fragments. No paleontological resources observed.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
Looking SW show the 657 B scrappers excavating sediment at the West bottom of the N hill



Facing: Northeast
Looking SE shows the D8T bulldozer pioneering sediment at the East end of the top of the N hill



Facing: Northeast
Shell fragmenfts are seen on tan siltstone at halfway the N hill. No resources were collected



Facing: East
Looking East shows the excavation at the SE hill slope by the 5 657B CAT scrappers

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 12, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 349277E 3811636N Castaic Los Angeles California

Construction Activities Monitored:

At the north hill slope of cell 7 the D8T CAT bulldozer benched the top side of the north hill. At the Bottom of the north hill a DEERE mini excavator cleared sediment inside the concrete channel. On the southeast hill slope of cell 7 the 6 657B CAT scrappers excavated sediment and at the east end the D10N CAT bulldozer did pioneering excavation and removed vegetation. A DEERE tractor compacted sediment at the west access roads and at the SE base of cell 7. Silt-sandstone fragments with shell were collected at the north hill slope.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☑ **YES** ☐ **NO (If yes, describe below)**

Fossil Description:

On the north hill slope on a work road that is graded by the 657B scrappers going up the west side of the hill siltstone fragments with shellfish were collected. The side of the paleontological discovery is from the Pico Formation. Field number. PG06122023. The elevation at which the shell fragments were found is 1257 feet above sea level. The UTM: coordinates of the find are Easting:349264.9, Northing: 3811878.9. Zone 11S, North of Equator. The shell fragments were found inside gray-tan siltstone. Red orange iron oxidation can be seen on the siltstone holding the clam shell fossils. Today 7 siltstone fragments were collected and 4 shell specimens. The largest siltstone collected is 17 cm long, 4 siltstone fragments are about 7 cm in length, 2 siltstone fragments are 4 cm in length, 3 shell specimens are about 1 cm in length and 1 is 2cm in length. In total 11 finds were collected. The sediment around the finds is tan gray silt-sand.

Geologic Observations and Lithologic Descriptions:

The north hillside of cell 7 is Pico Formation. The area at the center of the north hill that the D8T bulldozer is benching has fine grain tan silt-sand. Sandstone fragments and gravel size conglomerates are seen. On the west half of the north hill at the work road going to the east end of the hill shell fragments were seen on gray-tan siltstone the clam shell fragments and siltstone were collected. The sediment type at the center and west side of the SE hillside is tan-brown silt-sand. At the east end of the area with brush vegetation the sediment is brown loam with roots. The predominant sediment is tan silt-sand.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
On the north hill the D8T bulldozer is benching sediment



Facing: North
Shell fragments on tan-gray silt stone at the north hill slope of cell 7



Facing: West
Looking down the work road shows the area where the siltstone fragments were collected



Facing: Southeast
Looking SE shows the 5 657 B CAT scrappers coming west from excavating sediment at the SE lower hill of cell 7



Facing: North
Photo showing the 11 finds of today. Siltstone fragments and shell

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 13, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 349287E 3811786N CASTAIC Los Angeles California

Construction Activities Monitored:

On the north hillslope of cell 7 CCL, C.A Rassmussen sent the D8T bulldozer to bench the top side of the north hill. The D10N CAT bulldozer ripped the ground to grade sediment and compact it at the center and east end of the hill. Six 657 B CAT scrappers went up the east work road of the north hill and came down the west work road, the excavated sediment was taken to the tailboard meeting spot and to cell 8. About 6 feet of sediment were removed from the center of the hill and the roads going up and down. No paleontological resources encountered today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hill slope of cell 7 is inside the Pico Formation. There the sediment type at the west roads and the top center of the hill is fine grain tan silt-sand. There are gravel-size conglomerates with rounded edges inside the silt-sand as well as sandstone fragments. There is light gray-white coarse grain sand at the benched side of the N hill. At the east end of the N hill there is gray siltstone and brown siltstone at about 210 feet of height. The sediment type at the east edge near the side of the hill that has chaparral vegetation is brown silt-loam. No paleontological finds encountered today.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southeast
Looking SE shows the D8T bulldozer benching the top of the N hill while the D10N compacts and grades sediment at the top East end.



Facing: Southwest
Looking SW shows the 657B CAT scrappers excavating down the N hill slope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 14, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Clear sunny		

Project Location:

Zone 11S 348943E 3811035N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen excavated the SE hill slope of cell 7 using 8 657 CAT scrappers. The D8T bulldozer completed pioneering excavation at the east end of the SE slope in an area measuring about 280 ft E to W by 40 ft of width at the work roads being excavated by the scrappers. At the north hill slope the D10N bulldozer excavated sediment at the west side of the N hill near the metal plate bridge area. At the top center east end the D10N bulldozer did benching excavation and compaction work in an area measuring about 140 ft E to W by 5 ft of width. No paleontological resources observed.

Non-Compliance Recommendation: ☑ **YES** ☐ **NO (If yes, describe below)**

Incident of Non-Compliance:

N/A

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment type at the SE of the hill is tan silt-sand with silt-sandstone fragments. The SE has layers of brown silt sediment with brown siltstone. There are also layers of gray silt-sand with siltstone fragments. Yellow coarse grain sand is also observed with gravel size rock conglomerates. The conglomerates have rounded edges. No paleontological finds.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the 657 B Caterpillar scrappers excavating the SE hill



Facing: West
Looking SW shows the 657 B CAT scrappers taking the excavated sediment west to the tailboard meeting spot and cell 8.



Facing:
Looking south the D8T CAT bulldozer is benching the top W side of the N hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 15, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F Completely cloudy		

Project Location:

Zone 11S 348958E 3811055N Castaic Los Angeles California

Construction Activities Monitored:

At the north hillslope of cell 7 C.A Rassmussen used the D8T bulldozer to keep benching the west side wall of the north hill. The D10N bulldozer ripped the ground and completed pioneering excavation at the east end of the north hill as well as the center top area. In total 8 657 B CAT scrappers were used to grade down the sediment level at the west and east roads of the north hill. About 8 ft of sediment were removed today at these west and east roads and about 5 ft at the center top of the north hill. A John DEERE tractor compacted sediment and evened out the surface of the roads at the north hill and the SE of cell 7. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment type at the center top of the north hill is tan and yellow silt-sand sediment. At the east of the hill there is also light gray-white fine grain sand. And there are patches of brown and gray siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southeast
Looking SE the 657B scrappers are grading sediment coming up the East end of the hill to turn West to go downhill



Facing: North
Looking N shows the 657B scrappers coming down the N hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 16, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Partially cloudy sunny		

Project Location:

Zone 11S 348703E 3810648N Castaic Los Angeles California

Construction Activities Monitored:

At cell 7 C.A Rassmussen continued benching the top west side of the north hill. At the SE hillslope of cell 7 eight 657B Caterpillar scrappers were used to lower the grade level at the east and west dirt roads that go through and come up and down the SE hill. The D10N bulldozer stayed on the SE slope breaking the ground and doing pioneering excavation at the center and east end of the SE hill. No paleontological resources encountered today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment type at the SE and N hills is fine grain tan silt-sand. At the SE hill side there is also light gray-white sand with gravel size rock conglomerates that have rounded edges. There are clusters of brown and gray siltstone. No paleontological resources found.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northwest
Looking NW shows the D8T CAT bulldozer benching the top W side of the N hill



Facing: Southeast
Looking SE shows the 657 B CAT scrapers coming down the SE hillside

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 19, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 75 °F From completely cloudy to partially cloudy		

Project Location:

Zone 11S 391781E 3737088N Castaic Los Angeles California

Construction Activities Monitored:

At cell 7 of CCL C.A Rassmussen used the D8T to do benching excavation at the west side of the north hill, while the D10N CAT bulldozer completed pioneering excavation at the east side of the north hillslope. Eight 657B CAT Caterpillar scrapers also excavated the north hill of cell 7 going up the east road and coming down the west road. The width of the east and west roads that come down the hill is 40 feet by about 240 feet in length from the base of the hill to the center top. The amount of sediment removed at these work roads is about 6 feet. The excavated sediment was taken west to the tailboard meeting spot and into some work roads of cell 8.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☑ **YES** ☐ **NO (If yes, describe below)**

Fossil Description:

On the west side of the north hillslope of cell 7 while the D8T bulldozer did benching excavation 5 shell bivalves and 1 shell cluster fragment were observed and collected at about 180 feet in height from the bottom of the north hill to the area of the finds. These specimens were found in the Pico Formation on brown siltstone and gray-tan siltstone at 1296 feet of elevation above sea level. Each bivalve was about 2 feet away from each other. The UTM coordinates of the location of the finds are UTM: Easting: 349188.4. Northing: 3811880.1. Zone 11S. North of Equator. Field number. PG06192023. Invertebrates.

Geologic Observations and Lithologic Descriptions:

The north hill slope of cell 7 is inside the Pico Formation. The sediment type at the north hill slope of cell 7 is varied the most predominant type is fine grain tan silt-sand. There are gravel size rock conglomerates on the silt-sand. At the west side of the north hill there is brown siltstone and gray-tan siltstone.

Comments:

Paleontological Daily Monitoring Report



Facing: East
Looking East shows the D8T bulldozer benching sediment adjacent to the area where the Bivalve finds were collected



Facing: East
Photo of 1st bivalve collected today found on brown siltstone



Facing: East
Photo of 2nd bivalve found on brown siltstone, gray siltstone is also seen on the bivalve



Facing: East
Photo shows the distance that the 3rd, 4rd and 5th bilvalves had away from each other when found



Facing: East
Photo of the 3rd bivalve found on tan-gray siltstone



Facing: East
Photo of the 4th bibalve found on tan-brown siltstone



Facing: East
5th bivalve its not a complete bivalve its a fragment found on tan silt-sand



Facing: East
a cluster of shell fragments inside a gray siltstone fragment was also collected

Paleontological Daily Monitoring Report



Facing: East
Photo at scale of the 5 bivalve shells and the shell cluster inside a siltstone fragment

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 20, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 80 °F Clear sunny		

Project Location:

Zone 11S 348966E 3811039N Castaic Los Angeles California

Construction Activities Monitored:

Today at the north hill of cell 7 CCL. C.A Rassmussen had the D8T bulldozer continue benching the west side of the north hill. While the D10N bulldozer did pioneering excavation at the east end of the north hill. Six 657 B CAT caterpillar scrappers were used to lower the sediment grade at the north hill by about 12 feet. The height of the excavated work area ranges from about 160 feet to 180 feet from the base of the hill to the center excavation work area. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hill slope is inside the Pico Formation. At the west side of the north hill slope the most abundant sediment is tan silt-sand. There is a layer of brown-red siltstone at the west and center of the north hill. Yellowish-tan silt-sand is also observed at the center and east end. At the east end there are also layers of dark gray siltstone and light white-gray silt-sand. The silt-sand has gravel size round rock conglomerates as well as sandstone fragments.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking NE shows the excavation activity at the west and east of the north hill by the bulldozers and grading of sediment from the 657 B scrappers



Facing: Southeast
D10N bulldozer benching the west side of the north hillslope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 21, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 66 °F **High Temperature:** 79 °F Clear sunny		

Project Location:

Zone 11S 349245E 3811666N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen continued excavation activities at the west and east ends of the north hill slope of cell 7. The D8T bulldozer continued benching the west side at the top of the north hill while the D10N bulldozer excavated at the center top of the north hill and occasionally the east and west roads to compact sediment for the 657 B scrappers to come in. Six 657 B scrappers excavated and lowered the sediment grade at the north hill.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☑ **YES** ☐ **NO (If yes, describe below)**

Fossil Description:

A complete Bivalve mollusk shell fossil PG06212023 was found at the west side of the north hill at about 140 feet from the base of the hill. The area where the bivalve was found has been benched by the D8T bulldozer about 15 feet of sediment have been removed from the original grade and natural top sediment at the W slope of the hill. The UTM coordinates of the find are Easting: 349186.6. Northing: 3811882.7. Zone 11S North of equator. The complete bivalve was found on tan silt-sand, below a brown silt-stone layer. The silt-sand had fragments of tan sandstone and brown siltstone. The elevation of the find is 1970 feet above sea level. The fossil was found in the Saugus Formation. This area has been benched about 15 feet by the D8T bulldozer. The measurements of the bivalve are 10 cm by 7 cm by 7 cm of width.

Geologic Observations and Lithologic Descriptions:

The sediment type at the north hillslope at about 140 feet in height from the base of the hill is varied. The predominant sediment at the center of the hill and the east and west roads is tan silt-sand. The sediment at the side of the hill that has chaparral vegetation is brown silt-clay. The center of the north hill also has gray-tan silt-sand with gray siltstone. Brown siltstone is also present at the center of the north hill. The sediment type at the area of the Bivalve find is tan silt-sand with tan sandstone fragments and brown siltstone fragments.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking North shows the 657 B scrappers excavating sediment down the W side of the N hill



Facing: Northwest
Looking Southwest the D8T bulldozer is benching the West side of the North hill slope



Facing: North
At about 140 feet in height a Bivalve fossil was found at the West side of the North hill



Facing: Northeast
Photo looking NE shows the area around the Bivalve find that the D8T bulldozer is benching



Facing: North
Photo at scale of the bivalve its measurements are 10 cm by 7 cm by 7 cm of width.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 22, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 75 °F Clear and sunny		

Project Location:

Zone 11S 348930E 3811046N Castaic Los Angeles California

Construction Activities Monitored:

At the north hillslope of cell 7 C.A Rassmussen Inc. continued excavation activities. The six 657 B CAT scrappers came up the north hillslope going east to come downhill from the west. The D8T and the D10N CAT bulldozers continued benching the top west side of the hill and doing pioneering excavation at the east and west ends of the north hill. About 12 feet of sediment were removed today from the previous grade level. The size of the area from the west road going up the north hill to the east end of the top center excavation measures 360 feet east to west. The top center excavation area measures 205 feet east to west by 80 feet north to south. The height at which the excavation is taking place is about 140 feet from the bottom of the hill. No paleontological resources found today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The most abundant sediment type at the north hillslope of cell 7 is fine grain tan silt-sand. At the west and center of the north hillslope there are layers of brown siltstone about 2 feet in thickness. Brown-yellow silt-sand is also present on patches scattered at the center of the hill. Olive-gray silt-sand was observed at the west side where the D8T bulldozer was excavating. At the east end of the excavation light gray coarse grain sand with siltstone fragments is seen. Gravel size round conglomerate rocks are seen inside all the silt-sand.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking NE shows the D8T bulldozer breaking the ground and the 657 B scrappers taking the loose sediment West



Facing: West
Looking West shows the D10N CAT bulldozer doing pioneering excavation at the West side of the North hill.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 23, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 78 °F Clear sunny		

Project Location:

Zone 11S 348964E 3811060N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen continued excavating the top center and the work road going up the north hillslope of cell 7. Benching excavation was done by the D10N and the D8T CAT Caterpillar bulldozers at the west side of the north hillslope. The D8T CAT bulldozer excavated and compacted sediment at the center of the north hill then moved down hill to the SE center area of cell 7 to compact sediment. The amount of sediment removed today from the center excavation area at the north hill is about 12 feet. All the excavated sediment was taken west to the tailboard meeting spot.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☑ **YES** ☐ **NO (If yes, describe below)**

Fossil Description:

Today at the west side of the north hill slope of cell 7 three complete invertebrate bivalve mollusk specimens were found and collected while the D8T and the D10N bulldozers benched this side of the north hill. Field number is PG06232023. The bivalve finds were collected at a height of about 140 feet from the base of the hill to the benched area. The elevation at which the finds were located is 1270 feet above sea level. The UTM: coordinates are Easting: 349188.3. Northing: 3811885.8. Zone 11S North of Equator. The first bivalve was found inside Brown-tan silt-sand with brown siltstone fragments, the 2nd bivalve was found 2 feet east from the first bivalve and the 3rd and last bivalve was found about 3 feet east of the 2nd bivalve.

Geologic Observations and Lithologic Descriptions:

The sediment at the west side of the north hill is fine grain tan silt sand. There is a continuous layer of brown-red siltstone from the east end to the west phase of the north hill. A gray siltstone layer also runs across the top of the north hill east to west. Brown silt is found on the top sediment areas with chaparral vegetation. Dark brown and dark gray siltstone are seen on the West end and center, white-gray sand is found at the east end with gravel size conglomerate rocks yellow coarse grain sand is seen running across the east and West of the hill with sandstone fragments.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking northeast shows the 657 B CAT scrappers grading the west and center top area of the North hillslope at cell7



Facing: East
Looking east shows the west area benched by the D8T and D10N bulldozers where the 3 bivslve finds were located



Facing: East
First bivalve found today inside Brown-tan silt-sand with brown siltstone fragments on the west side of the north hill at an elevation of 1270 feet above sea level



Facing: East
Second bivalve found on tan-brown siltsand with siltstone fragments at 2 feet east from the1st bivalve



Facing: East
3rd complete bivalve found in tan-brown siltsand with gray sandstone fragments and brown siltstone about 3 feet East of the 2nd bivalve

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 26, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 66 °F **High Temperature:** 78 °F Clear sunny		

Project Location:

Zone 11S 349219E 3811557N Castaic Los Angeles California

Construction Activities Monitored:

Today, C.A Rassmussen started to excavate at the southeast hillslope of cell 7 using six 657 B Caterpillar scrapers later on the day the CAT scrappers moved on to the north hillslope. The 657 B scrappers focused the rest of the day on lowering the sediment grade level at the west side of the north hill. Both the D8T and the D10N CAT Caterpillar bulldozers moved to the north hill slope to start doing pioneering excavation at the west side and east end of the north hill. Sediment compaction also continued at the center of the north hill. About 6 feet of sediment were removed today from the work road and the center excavation areas. The height of the north hill slope varies from about 140 to 165 feet from the bottom of the hill to the center top. All the excavated sediment was taken up work roads to the stockpile located on the area adjacent to the tailboard meeting spot. No paleontological finds observed today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hillslope of cell 7 is inside the Pico Formation the most abundant sediment type at the west, the center and east of the north hill is fine grain tan silt-sand. There are variations of the silt-sand sediment across the center excavation area. From coarse grain yellow silt-sand that has sandstone fragments, to gray silt-sand that has siltstone fragments and gravel size rock conglomerates. No Paleo finds observed.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking east shows the D10N and the D8T CAT bulldozers doing pioneering excavation and sediment compaction at the north hill slope of cell 7



Facing: Northeast
Looking northeast shows the 657 B CAT scrappers lowering the sediment grade at the west end of the north hill slope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 27, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 78 °F Clear sunny		

Project Location:

Zone 11S 349220E 3811593N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen continues excavating the north hillslope of cell 7. Six 657 B CAT scrappers graded and lowered the sediment level at the center top excavation area of the north hill slope. At the same time the D8T bulldozer continued benching excavation at the north wall of the hill and the D10N bulldozer broke the siltstone for the 657B scrappers to take the excavated sediment to the stockpile on the tailboard meeting spot. The area that the D8T bulldozer benched measures about 6 feet in width by about 215 feet in length. The area that the D10N bulldozer and the CAT 657 B scrappers excavated at the center of the north hill measures about 80 feet in width north to south by 215 feet east to west. About 6 to 8 feet of sediment were excavated today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediments at the north hillslope of cell 7 are very varied. There is a brown siltstone layer that runs across the north hill going east to west and also located at the center and north wall of the N hill. There are also sporadic patches of gray siltstone. Layers of yellow coarse grain sand that has sandstone fragments and gravel size rounded conglomerate rocks are also seen.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D8T bulldozer benching sediment at the east end of the north hill slope



Facing: Southwest
Looking southwest shows the D10N bulldozer breaking the ground while the 657 B scrappers take the loose sediment to the west tailboard meeting spot

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 28, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 80 °F Clear sunny		

Project Location:

Zone 11S 349289E 3811772N Casteic Los Angeles California

Construction Activities Monitored:

Over excavation at the north hillslope of cell 7 continues. C.A Rassmussen inc used the D8T and the D10N CAT bulldozers to do benching and pioneering excavation on the west side of the north hill. Six 657B CAT Caterpillars scrappers continued excavating soil at the west center area of the north hill. The center excavation area of the north hill mwasures about 215 feet east to west by 80 feet north to south. The amount of soil excavated today is about 8 feet. The excavated soil was dropped on some work areas of cell 8. The progress of excavation has made the west side of the hill have a lower soil level of about 140 feet in height compared to the east end of the hill that has a higher grade level about 160 feet in height. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the north hillslope of cell 7 on the center area of excavation there is a layer of brown siltstone that runs through the middle going east to west and comes down the hill a the west side of the hill. The most abundant soil type from the base of the north hill to the center top area is fine grain silt-sand.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking north shows the 657 B scrappers excavating soil downhill while the CAT D8T and D10N bulldozers do pionering excavation



Facing: Southwest
Looking southwest shows the progress made at the center excavation area of the north hill slope of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 29, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 80 °F Clear sunny		

Project Location:

Zone 11S 349355E 3811701N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continued excavation activities at the north hill of cell 7. Six 657 B CAT caterpillar scrappers excavated the hillslope going up the west side of the hill moving to the back east end passing through the center top area to come down the west side of the hill. The D8T bulldozer did pioneering and benching excavation at the west side of the hill while the D10N bulldozer ripped the ground and compacted soil at the center top and east end of the hill. The west half of the north hill is from where the 657B scrappers come up and down the hill. The base of the hill has a height of about 15 feet above the regular soil grade of cell 7. This week about 40 feet of soil have already been remove in 4 days. The more center west side of the hill has a height that range from 15 feet to 80 feet. The East end of the North hill is the highest point of excavation with a height of about 150 to 160 feet from the bottom of the hill.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the north hill slope of cell 7 on the top center area there is a vein of brown-red siltstone that runs across from the east to the west ends of the hill. Fine grain tan silt-sand is abundant all throughout the hillside this soil type has rounded conglomerate rocks and fragments of tan-yellow sandstone and brown-gray siltstone. Patches of gray siltstone are observed at the center top of the hill.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the 657 B scrappers excavating soil at the west side of the north hill while the D8T bulldozer does pionering excavation



Facing: Northeast
Looking northeast shows the differences in soil grade level after the progress of excavation at the north hillslope of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** June 30, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 12:00	**Total Monitoring Hours:** 5
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 84 °F Clear sunny		

Project Location:

Zone 11S 348971E 3811033N Castaic Los Angeles California

Construction Activities Monitored:

At the North hillslope of cell 7 C.A Rassmusen inc did over excavation at the east end of the north hillslope. At the top east area the D10N and the D8T CAT bulldozers ripped the ground for the 657 B CAT scrappers to take the excavated soil. The excavated soil was taken west into work areas of cell 8. About 8 feet of soil were removed today from the top back east end of the north hill of cell 7. The height of the back east end of the north hill is about 150 to 160 feet. The width of the east excavation area is about 80 feet north to south.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hillslope is inside the pico formation. There is a vein of brown siltstone that runs across the north hill going east to west. There are also scattered patches of dark and light gray siltstone especially at the center west and center east of the hill. Fine grain silt-sand with sandstone and siltstone fragments is the most abundant soil at the north hill of cell 7.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the 657 B scrappers going up the north hill to excavate the east end.



Facing: Northeast
Looking northeast shows the D8T bulldozer breaking the ground at the west slope of the north hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 3, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 75 °F **High Temperature:** 94 °F Clear sunny		

Project Location:

Zone 11S 348964E 3811055N Casteic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen used five 657 B CAT scrappers to excavate the north hill slope of cell 7. At the west side of the hill the D8 T bulldozer did pioneering excavation to remove the chaparral vegetation before starting to do deeper excavation. At the east and north wall of the north hill the D8T bulldozer did benching excavation going east to west. About 8 feet of soil were excavated today at the east end of the north hill slope. The area that was excavated for benching at the north wall measured about 215 feet from the east to the west with about five feet of width. The excavation area at the east end of the hill measured about 80 feet north to south by 215 feet east to west. The height of the east excavation from the base of the north hill is about 150 feet and at the west side the height is lower it gradually varies from 15 feet above the soil grade of cell 7 to 60 feet and 80 feet above the regular grade of cell 7.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the north hillslope of cell 7 the most abundant soil type is tan silt-sand. There is a vein of brown siltstone that runs across from the west to the east of the north hill. At the center top area there are scattered patches of gray siltstone that reach the east end. The west face of the hill also has brown silt-loam and tan silt soil at the area with chaparral vegetation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northweast shows the 657 B scrappers going up the north hill and coming down the hill after excavating the east end



Facing: Northeast
Looking northeast shows the 657 b scrappers carrying the excavated soil to be droped west on some work roads of cell 8

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 5, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 84 °F Overcast mist		

Project Location:

Zone 11S 349296E 3811695N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen continued excavating the north hill of cell 7. On the lower west side from where the scrappers go up the hill the D10N bulldozer excavated and compacted soil for the six 657 B CAT caterpillar scrappers to go up and down the slope. At the east end of the norh hill the D8T bulldozer did pioneering excavation to remove vegetation and break the ground for the scrappers to lower the soil grade. The D8T bulldozer also continued doing benching excavation at the northwest wall of cell 7. The area that the D8T bulldozer covered doing benching excavation measures 6 feet in width north to south by 215 feet east to west. And the main excavation area covering the west and east ends of the north hill measures about 80 feet north to south by about 240 feet east to west. No paleontological respurces observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hill slope of cell 7 is inside the pico formation. At the present height the most abundant soil type is tan silt-sand. The brown-orange layer of siltstone now starts more at the center and continues to the east. Across the whole east to west excavation area there are patches of dark and light gray siltstone and yellow fragments of sandstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking north shows the 657 b scrappers grading soil at the north hill



Facing: Northeast
Looking northeast shows the 657 b scrappers coming down from grading the north hill of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 6, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 85 °F Clear sunny		

Project Location:

Zone 11S 348893E 3811110N Castaic Los Angeles California

Construction Activities Monitored:

Today the D8T bulldozer started working at the southeast hill of cell 7. The D8T was pushing small stockpiles of excavated soil away from a gravel access road at the southeast. This was done to clear the traffic road from any loose soil that was blocking it. Later on the day the D8T bulldozer moved to the north hill. At the north hillslope C.A Rassmussen continued over excavating with the six 657 b CAT scrappers. The D8T bulldoze moved to the north hill to keep doing benching excavation and at the east end the D10N bulldozer did pioneering excavation before the 657 b scrappers lowered the grade on that side. The area that the D8T bulldozer benched measured about 6 feet in width by 220 feet in length from the west to the east. The main center excavation area of the north hill measured about 80 feet in width at the east end the width increases at the west side having a width of about 100 feet. The length of the excavation is about 250 feet from the west to the east end. The east end of the north hill is the highes point of the excavation with about 150 feet in height from the base of the hill. The west side of the north hill is the lowes point of the excavation with its height gradually increasing from 15 feet, to 30 and 50 feet above the base grade of cell 7.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north hillslope of cell 7 is inside the pico formation the dominant soil type is tan-yellow silt-sand. The fine grain silt-sand has fragments of yellowish sandstone as well as gray and brown siltstone fragments. Small patches of light and dark gray siltstone are scattered at the north hill from the east to the west end. Continuous veins of brown-orange siltstone are seen from the center to the east end of the north hill.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the 657 b scrappers excavating the north hill east to west, the 872GP DEERE grader and the DEERE tractor compacting soil at the center and west sides of the north hill



Facing: North
Looking north shows the D8T bulldozer doing pioneering excavation at the east end of the north hill while the 657 b scrappers also excavated the east end

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 7, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 67 °F **High Temperature:** 85 °F Clear sunny		

Project Location:

Zone 11S 348958E 3811053N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen started excavating on the southeast slope of cell 7 this area is also labeled as the south borrow. Six 657 b CAT scrappers were used to lower the soil grade from the east to the west end of the hill. The area to the southeast of the excavation has moderate ground disturbance in the form of gravel roads and gas lines. The southeast hill is about 35 feet higher at the east end than the base soil grade of cell 7. And at the west end the south east hill is about at the same grade level of the moderately disturbed south area that has gravel roads. The size of the excavation at the southeast hillslope is about 40 to 50 feet in width north to south and about 320 feet in length east to west with about 6 feet of soil being removed today. No paleontological resources observed today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Light tan silt-sand is the predominat soil type from the east to the west ends of the southeast hill slope. The silt-sand is also brown and gray in color. Brown siltstone fragments are seen in small amounts as well as tan-yellow sandstone. Coarse grain gray-whote sand with rounded rock conglomerates is seen jn small abouts at the south borrow.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the 657 b scrappers excavating the center of the southeast hill slope.



Facing: West
Looking west shows the 657 b scrappers excavating the east end of the southeast hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 10, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 66 °F **High Temperature:** 91 °F Clear sunny		

Project Location:

Zone 11S 349287E 3811675N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen continued excavating the north hillslope of cell 7. At the base of the north borrow hillslope a DEERE mini excavator was removing soil from inside a concrete ditch this was done to clear the ditch from loose soil that fell from the excavation path to the ditch. Six 657b CAT caterpillar scrappers excavated the north hill going from the east to the west end. The excavated soil was taken west to be dumped at work areas of cell 8. At the west end of the north hill the D8T bulldozer did pioneering excavation to remove chaparral vegetation and even out the surface area. At the center of the excavation the D10N CAT bulldozer compacted soil to prevent the scrappers from getting stuck. At the east end of the hill the D10N bulldozer did pioneering excavation to remove tall grass and brush vegetation. The main excavation area worked today measures about 80 feet in width north to south by 295 feet in length from the east to the west. The depth of excavation reached today is about 8 feet from the previous soil grade. The height of the north hillslope varies from the east to the west. The lowest point of excavation is at the west side with the soil grade being about 5 to 15 feet above the base grade of cell 7 while at the center the grade increases gradually the east end of the north hill is the highest point of excavation reaching about 150 feet. At the end of the day C.A Rassmussen moved to dell 8 to excavate at a hill landslide area. No paleontological resources found.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The north borrow area of cell 7 is inside the pico formation. At the grade of excavation there is a vein of brown siltstone that runs from the center of the excavation to the east end. At the west side excavation area that was pioneered by the D8T bulldozer there is tan, light brown and light gray silt-sand. Brown silt loam is found at the areas with chaparral vegetation. At the center excavation there is also coarse grain yellow sand.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shoes the excavation activities of today at the north borrow hillslope



Facing: Northeast
Looking northeast shows the north wall area that has been benched by the D8T bulldozer there are shell fragments and bivalves not on situ

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 11, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 94 °F Clear sunny		

Project Location:

Zone 11S 348669E 3810875N Castaic Los Angeles California

Construction Activities Monitored:

C.A rassmussen continued excavating the north hillslope of cell 7. The direction of the over excavation activity was from the east to the west end of the hill. Five 657 b scrappers did the excavation work and took all the loose soil west to work areas of cell 8. A D10N Caterpillar bulldozer was the one that breaked the siltstone and ripped the soil for the 657 b scrappers to have an easier time picking up the soil. Later on the day the D10N operator switched to the D8T bulldozer to continue doing benching excavation at the north wall of the north hillslope on cell 7. The main excavation area at the ccenter of the north hill measures about 290 feet east to west by 80 feet north to south. The amount of soil excavated today is about 8 feet from the previous soil grade.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology in the west side of the north hillslope has variations the main type of sediment is tan soft silt-sand. The silt-sand is also yellow, brown and gray. At the west side a new bed of gray siltstone is seen its thickness is more than 2 feet. Tan silt-sand is found accross the whole excavation area of the north hill from the east to the west.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
Looking southwest shows the 657 b scrappers and the D10N bulldozer doing excavation work



Facing: East
Looking east shows the D8T bulldozer doing benching excavation at the north wall of the north hillslope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 12, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 75 °F **High Temperature:** 94 °F Clear sunny		

Project Location:

Zone 11S 349247E 3811609N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continued over excavation work at the southeast hillslope area of the south borrow. Five 657 b CAT scrappers lowered the grade of the southeast by about 8 feet. The D10N bulldozer did pioneering excavation at the east end of the southern hillslope. Later on the day the D10N bulldozer compacted sediment at the center and moved west to cut a new access road through the west end of the hill. The work area at the southeast borrow hillslope measures about 355 feet from the east to the west and the width of this area measures about 80 feet north to south. About 8 feet of soil were excavated at the south borrow excavation area.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology of the east end of the north borrow varies the dominant sediment is yellowish-tan silt-sand each sediment bed is about 2 feet in depth. The east end has also brown silt-sand and small patches of brown-orange and dark gray siltstone. As the D8T bulldozer moves west there is a large bed of dark gray siltstone at the east end of the north borrow. At the southeast hillslope of the south borrow the dominant soil type is fine grain tan silt-sand. On the southeast there is also coarse grain light gray-white sand. At the areas close to the shrub vegetation brown silt loam is the sediment. Rounded gravel size conglomerates are seen.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
Photo looking southwest shows the sudden drop at the north side of the southwest hillslope



Facing: Northwest
Looking west shows the D8T bulldozer excavating the north wall of the north borrow hillslope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 13, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 67 °F **High Temperature:** 94 °F Clear sunny		

Project Location:

Zone 11S 349277E 3811454N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen continued excavating the north borrow hillslope. Six 657 b caterpillar scrappers were used to lower the sediment grade of the north borrow excavation area. A D10N CAT bulldozer did pioneering excavation at the east end of the north borrow. Chaparral/brush vegetation was removed. The D 10 bulldozer also broke the sediment beds of gray and brown siltstone. At the north wall of the north hillslope the D8T bulldozer excavated soil to continue benching this side of the hill. The excavated soil was taken west into the work areas of cell 8. A john Deere tractor was also used to compact soil at the center excavation area of the north borrow. At the southeastern hillslope of the south borrow a front loader kept compacting soil at the newly cut west access road. The 657 b CAT scrappers dropped soil at the newly cut access road. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment at the west access road of the southeast hillslope is fine grain silt-sand, and coarse grain gray sand. This sediment has rounded rock conglomerates and fragments of gray sandstone. At the north borrow hillslope the predominant sediment is tan silt-sand. The silt sand is also observed in olive-gray and light brown color. Coarse grain yellow sand is also present. Patches of dark gray siltstone are seen At the north wall and the eastern end of the north hill there is a continuous bed of brown siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Photo looking east shows the 657 b CAT scrappers going east to excavate sediment at the north borrow hill slope



Facing: West
At the southeastern hillslope looking west shows the front loader compacting the sediment that has been dropped by the 657 b CAT scrappers at the new west access road

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 14, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 69 °F **High Temperature:** 95 °F Clear sunny		

Project Location:

Zone 11S 349269E 3811478N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen continued excavation activities at the north borrow hillslope. A DEERE mini bucket excavator stayed on the west side of the north hillslope excavating the west end of the continuous benched area. At the north wall of the north hillslope the D8T bulldozer continued excavating to give shape to the benched slope area. At the east end of the north hill the D10N bulldozer did pioneering excavation to break the sediment beds of siltstone. The Six 657 b scrappers came up the north hill to lower the sediment grade and take the excavated soil west into work areas of cell 8. About 8 feet of soil were excavated at the north borrow. At the south borrow center area two 657 b scrappers did over excavation to lower the soil grade and compact the south borrow area. No paleontological resources observed. About 4 feet of soil were removed from the center south borrow excavation area no paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the west side of the north borrow hillslope the sediment types are varied the dominant sediment is light tan silt-sand, there is also light brown and tan-yellow silt-sand. At the west end there is also a bed of dark gray siltstone. At the north wall area that is being benched the sediment is light gray-yellow silt-sand. Moving to the east end there are beds of brown siltstone, and brown silt sediment. At the south borrow center excavation area the dominant soil type is soft fine grain tan- light gray silt-sand. There is also light gray coarse grain sand with gravel size round conglomerates and running east to west there is a bed of dark gray-olive siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the excavation activities at the north hillslope of cell 7



Facing: East
Looking east shows the 657 b CAT scrappers excavating at the center south borrow area.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 17, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 95 °F Clear sunny		

Project Location:

Zone 11S 348307E 3810875N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen continued excavating at the landslide area of cell 8 this area is at an elevation of 1158 feet above sea level. Using a DEERE H53 excavator a square pit was madeon a west hilltop of cell 8. This pit measured about 12 feet by 35 feet and about 8 feet of sediment were excavated. The purpose of the excavation is to remove all the loose sediment from the landslide at the top of the hillslope. The sediment will be replaced with compacted sediment. All of the excavated sediment was stockpilled and remained on site. After the pit excavation was done the pit was backfilled and compacted. At the north hillslope of cell 7 C.A Rassmussen continued over excavating five 657 b CAT scrappers were used to grade sediment from the east to the west end of the north hillslope. The D8T bulldozer did pioneering excavationat the west end of the hill. At the east end of the hill the D10N bulldozer also did pikneering excavation and alsk ckmpacted sedimwnt at the center of the main excavation area. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Sediment type at the landslide area of cell 8 is fine grain gray-tan silt-sand. The landslide area of cell 8 is mapped as being part of the saugus formation. The sediment at the north hillslope of cell 7 is a bed of gray siltstone at the west of the hill. At the center and east end there are beds of brown siltstone. Tan-yellow silt-sand is found from the weast to the east ofthe north hill.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
Looking southwest shows the excavation at the landslide area of the west hillslope of cell 7



Facing: East
Looking east shows the 657 b scrappers excavating the center area of the north hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 18, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 96 °F Clear sunny		

Project Location:

Zone 11S 349258E 3811465N Casteic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen continued over excavation at the north borrow hillslope of cell 7. Five 657 b Caterpillar scrappers were used to bring the sediment grade down. A D10 N Caterpillar bulldozer was used at the east and center of the excavation to break down brown and gray siltstone sediment beds. The excavation area at the north hillslope measures about 315 feet from the east to the west end and the width of excavation is 80 feet going south to north. The depth reached today is about 12 feet from the previous soil grade. The height of the north hillslope varies the west side has the grade closest to the base level of cell 7 with about 12 feet above the base grade of cell 7. While the east side of the hill has the highest point of excavation with about 130 feet from the bottom of the hill to the excavation area. At the east end of cell 7 there is also a hill drop off that extends the depth of the grade lower than the base grade of cell 7, while the west side of cell 7 is at a more even slope with no drop offs. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the east end of the north hillslope the lithology of the sediment is tan-yellow silt-sand, together with tan-brown silt-sand. At the north wall of the east end there is a bed of brown-orange siltstone. At the west end of the north slope the sediment is light gray- tan silt-sand. There is a bed of gray siltstone at the north wall area that has been benched by the D8T bulldozer. The west end also has yellow-brown silt-sand.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking north shows the variation in height of the northhillslope from the base of the hill at the west side to the base of the hill at the east end



Facing: West
Looking west shows the 657 b scrappers excavating soil at the east end of the northhill slope.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** July 19, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 78 °F **High Temperature:** 96 °F Clear sunny		

Project Location:

Zone 11S 349281E 3811460N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc started over excavating at the south borrow of cell 7. Three 657 b CAT scrappers were used to lower the grade of the southeastern hillslope. The direction of work was from the east to the west end. About 8 feet of sediment were excavated at the south borrow. The area of excavation measures about 335 feet from the east to the west end by about 60 feet of width. At the north borrow excavation area a D8T caterpillar bulldozer was used to bench the north wall area of the hillslope and to break the brown siltstone beds running across the center of the north hill going east to west. Two 657 b scrappers were also used at the north slope to lightly lower the sediment grade at the center excavation area of the north borrow. About 6 feet of soil were excavated at the north borrow. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeast hillslope and the south borrow area is soft light gray- tan silt-sand. There is also coarse grain gray sand this sediment has round edge gravel size conglomerate rocks. The lithology at the east end and center area of the north borrow hillslope is dominated by tan silt-sand sediment. At the north wall benched area of the hillslope there is a continuous bed of brown-orange siltstone. The east end of the north slope also has coarse grain yellow sand and small patches of gray siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
Looking southwest shows the three 657 b CAT scrappers over excavating the southeast hillslope of the south borrow area at cell 7



Facing: East
Looking east shows the D8T bulldozer breaking a sediment bed of brown-orange siltstone at the north slope of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 20, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 96 °F Clear sunny		

Project Location:

Zone 11S 349272E 3811470N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen continued over excavation activities at the north borrow area of cell 7 and started excavating at the center area between the north borrow and the south borrow hillslopes. A D10N bulldozer was used at the center excavation area to breakdown sediment beds of brown and gray siltstone. Three 657 b Caterpillar scrappers over excavated the center excavation area. This center excavation area measures about 135 feet in width north to south by 325 feet in length east to west. The amount of soil removed today is about 10 feet. At the north borrow hillslope two 657 b Caterpillar scrappers over excavated soil while the D8T bulldozer did pioneering excavation at the east and west ends of the north borrow. The north borrow excavation area measures about 80 feet in width north to south by 335 feet in length east to west, the amoumt of soil removed today at the north borrow is about 8 feet. All the excavated soil was taken west into work areas of cell 8. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment type at the center area between the north and south borrows of cell 7 is mainly gray-tan soft silt-sand. This sediment has round edge conglomerate rocks. The silt-sand soil becomes brown-yellow-orange in color as the depth of excavation increases at the south side of the center area. At the North edge of the center excavation there is dark gray siltstone beds and coarse grain orange sand. The dominant soil lithology at the north borrow hillslope is tan-yellow silt-sand. At the center and east end of the north wall benched area there is a continuous bed of brown-orange siltstone. At the west end of the north wall benching area there is a sediment bed of gray siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking south shows the D10N CAT bulldozer breaking the ground at the excavation area between the north and south borrows



Facing: North
Looking north shows the continuation of excavation at the north borrow hillslope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 21, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 100 °F Clear sunny		

Project Location:

Zone 11S 349261E 3811491N Castaic Los Angeles California

Construction Activities Monitored:

At the center area between the north and south borrows C.A Rassmussen continued over excavation and soil compaction. Five 657 b CAT scrappers were used to lower the grade level of the area. The direction of excavation was going east to west. The center area of excavation measures about 330 feet east to west by 135 feet south to north, about 10 to 12 feet of soil were removed from this area today. A D10N Caterpillar bulldozer did pioneering excavation at the east end and south side of the center excavation area. A D8T bulldozer compacted soil at the road that leads to the north borrow hillslope. All the excavated soil was taken west into work areas of cell 8. The newly made southwest access road that leads to cell 8 was also compacted. No paleontological resources observed today.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the center excavation area between the south and north borrow the lithology of the excavation area is dominated by gray-tan silt-sand. As depth increases dark gray siltstone is encountered as well as coarse grain orange sand. At the southeast end area where chapparral vegetation is seen there is brown silt sediment. Rounded conglomerate rocks are seen on the tan, gray and yellow silt-sand sediment.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking north shows the 657 b CAT scrappers over excavating at the area between the south and north borrows



Facing: East
Looking east shows the center excavation area being over excavated by the 657 b scrapper the D10 N bulldozer is pushing the scrapper to cut sediment

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 24, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 101 °F Clear sunny		

Project Location:

Zone 11S 349292E 3811463N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen continued over excavation at the center area of cell 7 between the north and south borrows. Four 657 b caterpillar scrappers were used to excavate sediment and take it west into cell 8. A D8T bulldozer was used to do pioneering excavation at the east end of the center excavation to break the brown and gray siltstone sediment beds. At the southeastern hillslope of the south borrow in cell 7 over excavation was also done. Three 657 B caterpillar scrapers were used to lower the sediment grade across the hill from the east to the west ends of the excavation area. At the east end of the south borrow a D 9L caterpillar bulldozer did pioneering excavation to break sediment layers and to push the 657 b scrappers when cutting the sediment. The D10N bulldozer excapated both at the center and south borrow excavation areas helping the scrappers by breaking siltstone and pushing the 657 b scrappers. About 10 to 12 feet of soil were removed today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the center excavation area between the north and south borrows the lithology is dominated by tan silt-sand. At the south side there is light gray- white sand. There is a layer of dark gray siltstone at the north side of excavation. At the center area the sediment is mixed from brown to yellow-orange silt-sand. At the southeastern hillslope of the south borrow of cell 7 the lithology is tan-gray silt-sand. There are also patches of yellow-brown silt and white sand at the center of excavation. At the east and north sides there is brown silt loam.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the 657 b scrappers and the D8T bulldozer excavating soil at the center excavation area between the north and south borrows



Facing: Southeast
Looking southeast shows the 657 b Caterpillar scrappers excavating the center area of cell 7. The south borrow excavation is also seen looking south

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 25, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 80 °F **High Temperature:** 101 °F Clear sunny		

Project Location:

Zone 11S 349273E 3811474N Castaic Los Angeles California

Construction Activities Monitored:

At the south borrow of cell 7 C.A Rassmussen inc continued over excavation activities at the southeastern hillslope area. Five 657 b CAT scrappers were used to take the excavated sediment west into work areas of cell 8. At the east end and north side of the south borrow both a D9L and a D10N Caterpillar bulldozers did pioneering excavation to remove vegetation. This northeast area has chapparral vegetation and there is a steep drop off alongside the north side of the hill. C.A Rassmussen also continued excavation at the center area of cell 7 between the south and north borrows. A D8T Caterpillar bulldozer did pioneering excavation at the east end and south side of the center excavation area. Three 657 b CAT scrappers excavated the loose sediment and took it west into work areas of cell 8. About 10 to 12 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The center area of cell 7 and the south borrow area of cell 7 are mapped as being part of the Saugus formation. The lithology at the southeastern hillslope of the south borrow of cell 7 is dominated by gray -tan silt-sand. There is brown silt sediment at the north side of the hill that has shrub vegetation. The lithology of the center area of cell 7 between the north and south borrows is gray-yellow tan silt-sand. At the north of this area there is a sediment bed of dark gray siltstone. Brown siltstone is also seen at the east and south side of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D9L and the D10N caterpillar bulldozers breaking sediment at the southeastern hillslope of the south borrow area



Facing: Southeast
Photo looking southeast shows the D8T CAT bulldozer breaking the siltstone while the 657 b scrappers over excavate sediment

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** July 26, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 101 °F Clear sunny		

Project Location:

Zone 11S 349269E 3811461N Castaic Los Angeles California

Construction Activities Monitored:

At the center area of cell 7 between the south and north borrows C.A Rassmussen continued excavating to lower the grade level of this area. The purpose of the excavation is to lower the sediment grade down to the limit areas marked by orange wood stakes. Five 657 b Caterpillar scrappers continued cutting the sediment beds to pick up the loose sediment and take it west into the work areas of cell 8. A D8T caterpillar bulldozer continuously broke the sediment beds across the center excavation area going east to west. At the southeastern hillslope of the south borrow both a D9L and a D10N caterpillar bulldozer did pioneering excavation to remove brush vegetation and break sediment beds. Three 657 b caterpillar scrappers took the loose sediment west to work areas of cell 8. About 10 to 12 feet of soil were removed today no paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the center area of cell 7 between the south and north borrows is predominantly gray-tan silt-sand. At the north side of this area there is a bed of dark gray-black siltstone. At the center there is a mixture of brown-yellow-orange silt-sand. And white -light gray siltsand at the south side. The lithology at the southeastern hillslope of the south borrow is predominantly tan, gray-yellow silt-sand. There is brown silt sediment at the north and east area with chapparral vegetation, conglomerate rocks and sandstone fragments are sporadicly encountered at the center of this area.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D8T bulldozer breaking the sediment beds while the 657 b scrappers take the loose soil west



Facing: East
Looking east shows the excavation at the southeastern hillslope of the south borrow.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** July 27, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 102 °F Clear sunny		

Project Location:

Zone 11S 349265E 3811477N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continues doing over excavation activities at the southeastern hillslope located at the south borrow area of cell 7. Three 651B caterpillar scrappers continued cutting sediment beds going east to west. A D9L caterpillar bulldozer was used to push the 651B CAT scrappers when cutting the ground. About 8 to 10 feet of sediment were excavated on this area from the previous grade level. The purpose of the excavations is to lower the grade of the surface levels to reach the depth limits marked by orange stakes. At the center excavation area of cell 7 between the north and south borrows five 657 b Caterpillar scrappers excavated soil going east to west. A D8T CAT bulldozer helped when breaking the layers of hard dark gray and orange-brown silstone. About 8 to 10 feet of sediment were excavated at the center excavation area today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow area is predominantly gray-tan silt-sand. There is fragments of tan sandstone and siltstone as well as rounded conglomerate rocks on this sediment bed. At the north and east end of this area there is brown silt with shrub vegetation. And there are patches of white and yellow coarse grain sand at the center of this excavation. The lithology at the center excavation area of cell 7 between the north and south borrows is predominantly tan-gray/yellow silt-sand. There is also a new brown siltstone layer at the north side of the center excavation, and the dark gray siltstone sediment bed at the north side has turned to scattered patches of siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the three 651b scrappers doing over excavation with the help of the D9L bulldozer



Facing: Southeast
Looking east shows the over excavation area at the center of cell 7 between the south and north borrows

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 28, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 102 °F Clear sunny		

Project Location:

Zone 11S 349260E 3811460N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen inc continued over excavation at the center of cell 7 between the south and north borrows. A D10N caterpillar bulldozer broke the brown and dark gray sediment beds of siltstone at the north and west sides of excavation. Five 657 b caterpillar scrappers continued the cut over sediment beds of silt and sand. The excavated sediment was taken west to be dropped off at work areas of cell 8. Over excavation activities also continued at the southeastern borrow of cell 7. Three 651 b CAT scrappers continued excavating sediment going east to west. The D9L bulldozer helped push the scrappers to keep cutting sediment beds of silt and sand. A D8T bulldozer excavated the east side of the hill to loosen up soil. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the north side of the center excavation area between the south and north borrows there is a sediment bed of brown-orange siltstone. The dominant sediment type is tan-gray silt-sand there is also yellow-brown silt-sand. Patches of dark gray-black siltstone are observed scattered at the north and center of excavation. At the southeastern hillslope of cell 7 inside the south borrow area the lithology is predminantly gray-tan and yellow silt-sand. At the east and north sides there is brown silt on the areas with chapparral vegetation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
At the center excavation looking east shows the D10N bulldozer helping out the 657 b CAT scrappers excavate siltstone



Facing: East
Looking east shows the excavation area of the southeastern hillslope at the south borrow of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** July 31, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 79 °F **High Temperature:** 96 °F Cloudy		

Project Location:

Zone 11S 349274E 3811470N Castaic Los Angeles California

Construction Activities Monitored:

At the center of cell 7 between the north and south borrows C.A Rassmussen inc is doing over excavation. Four 657 B Caterpillar scrappers began to cut sediment going in an east to west direction. The D8T CAT bulldozer is doing pioneering excavation both at the south and east ends of the excavation area to breakdown hard sediment beds to be excavated by the 657 b scrappers. The grade level at the north side of the center excavation is 40 feet above the orange wood stakes that represent the ending grade of excavation. At the south side of the center excavation the limit wood stakes are at about 60 to 80 feet below the current excavation grade. At the southeastern hillslope of the south borrow of cell 7 C.A Rassmussen continues over excavation activities. Three 651B Caterpillar bulldozers are being used to over excavate the southeastern hillslope. The depth level of the area is going to be lowered down to reach the orange flaged wood stakes located 80 feet below the current excavation grade. A D9L bulldozer helps by pushing the 651 b scrappers to be able to cut the sediment beds of hard siltstone. About 8 to 10 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the center area of cell 7 between the north and south borrows is predominantly tan-gray silt-sand. At the south side the silt-sand is also yellow-brown. At the center of excavation there is a sediment bed of brown siltstone and light-dark gray siltstone. There is also coarse grain yellow and gray sand. At the southeastern hillslope of cell 7 the lithology is predominantly tan-gray silt-sand. The color of the silt-sand is also brown-yellow at the center and north side of the hill. At the center east end there is brown siltstone sediment beds. The southeastern hillslope has undisturved shrub vegetation at the north and east sides of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southeast
Looking southeast shows the 657 b CAT scrappers excavating soil at the center area of cell 7 between the south and north borrows



Facing: East
Looking east shows the 651 b Caterpillar scrappers excavating the east end of the southeastern hillslope the D10N bulldozer is breaking sediment beds.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 1, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 76 °F **High Temperature:** 92 °F Partially cloudy, sunny		

Project Location:

Zone 11S 349272E 3811474N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continues over excavation activity at the southeastern hillslope located at the south borrow of cell 7. The 651 b scrappers are focusing on excavating sediment at the east end of the hill on a loop area with a higher grade level. Three 651 b Caterpillar scrappers were used to cut sediment beds and take the excavated sediment west into work areas of cell 8. The D9L Caterpillar bulldozer helps out the scrappers by pushing them forward while cutting sediment, it also compacts the ground to help the 651b scrappers when driving. At the center excavation area of cell 7 between the south and north borrows C.A Rassmussen is also doing over excavation four 657 b Caterpillar scrappers continue cutting sediment beds and taking all excavated soil west into work areas of cell 8. The D8T CAT bulldozer did pioneering excavation at the south side of the excavation adjacent to a hill dropoff on the center slope. The overall depth level of this area is being graded down about 8 feet per day from the previous depth level. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is dominated by tan-gray silt-sand. At the east end of excavation small sediment beds of brown and gray siltstone are observed. The center of excavation has yellow and gray coarse grain sand with conglomerate rocks. The east and north sides of excavation have brown silt soil and undisturbed shrub vegetation. At the center excavation area of cell 7 between the north and south borrows the lithology is varied tan-gray silt-sand dominates this excavation area. At the North side there is a sediment bed of brown siltstone and a separate sediment bed of gray siltstone. Coarse grain yellow and white sand is also observed at the south side of excavation. Round gravel size conglomerate rocks are observed on the coarse grain sand sediment.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the 651 b scrappers excavating sediment with the help of the D9L bulldozer



Facing: Southeast
Looking southeast shows the 657 b Caterpillar scrappers cutting sediment beds of siltstone and taking the sediment west

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** August 2, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 72 °F **High Temperature:** 91 °F Partially cloudy		

Project Location:

Zone 11S 349273E 3811477N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continues over excavation activities at the center area of cell 7 between the north and south borrows. Five 657 b Caterpillar scrappers are cutting sediment from the east to the west ends of excavation. A D8T caterpillar bulldozer moved to the south side of excavation and later to the north side to do vegetation removal and breakdown siltstone sediment beds. At the south borrow area of cell 7 on the southeastern hillslope C.A Rassmussen inc continues over excavation. Three 651 b scrappers cut sediment beds going east to west to lower the overall depth level of this area. A D9L CAT bulldozer is helping out by pushing the scrappers while they cut the sediment. A D10N caterpillar bulldozer also stayed at the east end of the hillslope to remove vegetation and break down hard sediment beds. The north side of the hillslope has been excavated to a greater depth than the south side. About 6 to 8 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the center area of cell 7 between the south and north borrows is predominantly tan-gray silt-sand. At the center and north side of excavation there are two continuous sediment beds of dark gray siltstone. The north side also has a sediment bed of brown siltstone. At the south and east ends there is coarse grain yellow, tan-olive sand, as well as gray-white sand with few conglomerate rocks. The predominant sediment type at the southeastern hillslope of the south borrow is tan-gray silt-sand. At the east end of excavation there are two separate sidiment beds of brown and gray siltstone. To the north and center of excavation coarse grain yellow and white sand with conglomerate rocks is observed.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
Looking southwest shows the 657 b Caterpillar scrappers taking the excavated soil west



Facing: East
Looking east shows the D10N Caterpillar bulldozer breaking sediment beds of the north side of the southeastern hillslope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 3, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 91 °F Clear sunny		

Project Location:

Zone 11S 349276E 3811477N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow C.A Rassmussen inc continued over excavation work. A D8T caterpillar bulldozer is being used to breakdown sediment beds of gray and brown siltstone and to do benching excavation at the south side of the hill. The south side of excavation is gradually about 10 feet higher than the north side because of the benching. Three 651 b CAT scrappers excavated sediment at the east end and north side of the hillslope. The D9L bulldozer helped the scrappers when cutting by pushing them. At the center excavation area of cell 7 between the south and north borrows C.A Rassmussen inc continued over excavation activities five 657 b Caterpillar scrappers excavated soil going east to west, and made many passes to cover the whole excavation area from the north to the south. A D10N caterpillar bulldozer did pioneering excavation at the edges of the work area to flatten the loose sediment and break sedimentary beds of siltstone. About 6 to 8 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of cell 7 is predominantly tan-gray silt-sand. Rounded conglomerate gravel size rocks are observed. At the north side of excavation there is coarse grain yellow and white-gray sand. Shrub vegetation is also present at the north, south and east ends of excavation. At the center there are two sediment beds of brown and gray siltstone. The lithology at the center of cell 7 between the north and south borrows is predominatly gray-tan fine grain silt-sand with sandstone and gravel size conglomerates. The south and north sides of excavation also have brown and gray siltstone sediment beds. Yellow and white coarse grain sand is found all throughout the excavation area.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the 651 b scrappers excavating soil at the east end and the D8T bulldozer benching the south side which stands 10 feet higher than the north side



Facing: East
Looking east shows the 657 b Caterpillar scrappers excavating sediment near the southern hill drop off at the center of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** August 4, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 92 °F Clear sunny		

Project Location:

Zone 11S 349269E 3811479N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continues over excavation at the center of cell 7 between the north and south borrows. A D10N bulldozer was used to do pioneering excavation at the south and east sides of excavation. Later on a D8T CAT bulldozer was used to breakdown siltstone sediment beds that are too hard for the scrappers to cut. Four 657b caterpillar scrappers continued cutting sediment going in an east to west direction. At the southeastern hillslope of the south borrow C.A Rassmussen also kept excavating sediment. The D9L bullzozer pushed the 651 b Caterpillar scrappers when cuting hard siltstone sediment. At the east and north side a D8T bulldozer also removed shrub and chapparral vegetation while breaking down sediment beds. Three 651b scrappers were used to do the over excavation. All the excavated sediment was taken west into work areas of cell 8. About 6 to 8 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the center excavation area of cell 7 the lithology is varied. The dominant sediment is fine grain, tan-gray silt-sand. At the south side of excavation there is coarse grain white sand with conglomerate rocks, the south and east sides of excavation also have brown silt with the shrub and chaparral vegetation, a sediment bed of dark gray siltstone runs accross the center of excavation going east to west, there is also a brown siltstone layer at the north side of excavation. Tan, yellow-olive coarse grain sand is observed all throughout the excavation area. The predominant sediment type at the southeastern hillslope of cell 7 is tan-gray, fine grain silt-sand this sediment has sandstone fragments and conglomerate rocks. At the east and center area of excavation there is sediment beds of brown and gray silstone. Yellow and white coarse grain sand is also seen at the east and north sides of excavation, as well as brown silt and shrub vegetation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: West
Looking west shows the 657b caterpillar bulldozers excavating sediment going east and taking the excavated sedimemt west



Facing: East
Looking east shows the over excavation area at the east end of the south borrow, the south side has been compacted and benched

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 7, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 92 °F Clear sunny		

Project Location:

Zone 11S 349283E 3811492N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow in cell 7 C.A Rassmussen inc continues over excavation activity. A D8T CAT bulldozer is excavating the east end doing vegetation removal. At the south side of excavation a bench is being made gradually to give the area a basin shape. Three 651 b CAT scrappers are excavating the east and north sides of excavation. The D9L CAT bulldozer helps out the scrappers by pushing them forward when cutting sediment. The north side of the south borrow excavation is gradually about 15 feet lower than the north side that has been benched. At the center of cell 7 between the south and north borrows C.A Rassmussen inc continued over excavation. Four 657 b Caterpillar scrappers excavated sediment going east to west across the entire center area. A D10N caterpillar bulldozer broke sediment beds of gray and brown siltstone for the scrappers to have an easier time excavating. The grade level of this area is now closer to the orange flagged wood stakes marking the limits of excavation. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of cell 7 is predominantly gray-tan silt-sand. This sediment has conglomerate rocks and sandstone fragments. There is coarse grain yellow-white sand at the center of excavation at the north and east ends there is brown silt sediment on the areas with shrub and chaparral vegetation. At the center of cell 7 between the south and north borrows the predominant soil type is gray-tan fine grain silt-sand. There is a sediment bed of orange-brown siltstone at the north side of excavation. A sediment bed of dark gray-black siltstone is seen at the southeast of excavation. Coarse grain yellow-olive tan and white-gray sand is observed at the south side of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the 651 b caterpillar scrappers excavating the north side of the south borrow



Facing: East
Looking East shows the 657 b caterpillar scrappers excavating the center of cell 7 between the south and north borrows

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 8, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 90 °F Clear sunny		

Project Location:

Zone 11S 349292E 3811490N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow C.A Rassmussen inc continues excavating the east and north sides of the hillslope. The D8T caterpillar bulldozer is compacting and excavating sediment at the south side of the slope to make a continuous benching. The benched area measures 25 feet north to south by 335 feet east to west and it stands about 12 to 15 feet higher than the north half which has a greater depth level. Three 651b Caterpillar scrappers stayed on the north side of the slope and the east end cutting sediment to lower the depth level and give that side a basin shape. At the center of cell 7 between the north and south borrows C.A Rassmussen continued over excavation. Four 657 b caterpillar scrappers ckntinue cutting sediment going east to west while a D10N bulldozer broke sediment layers at the south side and the center of the excavation. About 6 to 8 feet of sediment were excavated today. The excavated sediment was taken west into work areas of cell 8. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is predominantly fine grain, tan-gray silt-sand, this sediment has rounded gravel size conglomerate rocks and sandstone fragments. At the north and east end areas with shrub and chaparral vegetation the sediment is brown-tan silt. The North center also has brown siltstone sediment. White and tan-yellow coarse grain sand is observed at the center west of excavation. The lithology at the center excavation area of cell 7 between the north and south borrows is predominantly fine grain, soft, tan silt-sand. There is a continuous sediment bed of brown siltstone at the north side of excavation, coarse grain yellow-olive tan sand with conglomerate rocks is observed at the center and south sides of excavation. Brown silt is also seen on the south and east areas with chaparral vegetation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the south borrow excavation the south side of the hillslope has been benched.



Facing: East
Looking east shows the 657 b caterpillar scrappers taking the excavated sediment west and the D10N breakingdown sediment.

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 9, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 68 °F **High Temperature:** 87 °F Partially cloudy		

Project Location:

Zone 11S 349252E 3811539N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen inc continues over excavation at the center area of cell 7 between the south and north borrows. The focus of excavation is the north and west sides, the four 657b scrappers drive east and then turn at the east end to cut sediment coming back going west. The D10N caterpillar bulldozer also focused on breaking down siltstone sediment at the north and east sides of the excavation. The current depth level of the whole excavation area is closer to the orange flaged wood stakes that mark the ending grade at the north and south slopes of excavation. At the southeastern hillslope of the south Borrow C.A Rassmussen also continued over excavation to give the south borrow area a basin shape. A D8T CAT bulldozer excavated the south side of the hill to continue making a benched area that goes east to west, the south side was also compacted by the bulldozer and by the three 651 b CAT scrappers. At the south side the scrappers kept cutting sediment lowering the depth level. A D9L CAT bulldozer pushed forward the scrappers when cutting the sediment. About 5 to 6 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

There is a variety of sediment at the center of cell 7 between the south and north borrows. The dominant sediment type across the whole center area is tan-gray fine grain silt-sand with round conglomerate rocks and sandstone fragments. At the north side there is a sediment bed of brown siltstone that runs east to west, closer to the center there is a sediment bed of dark gray siltstone that also runs east to west. Pockets of coarse grain yellow sand are observed accros the entire excavation and gray-white sand is seen predominantly at the south side of excavation. At the southeastern hillslope of the south borrow the predominant sediment type is tan-gray soft silt-sand this sediment has conglomerate rocks as well as sandstone fragments. Pockets of coarse grain yellow and white sand are observed at the center and north sides of excavation. Sediment beds of brown and dark gray siltstone are also observed at the east end of the hillslope.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking east shows the four 657 b scrappers grading the north side of the center excavation, the D10N bulldozer is breaking sediment at the north side



Facing: East
Looking east shows the 15 feet difference in depth of the south side that has been benched and stands 15 feet higher than the north excavation area which is at a lower depth level

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 10, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 66 °F **High Temperature:** 81 °F Completely cloudy		

Project Location:

Zone 11S 349294E 3811495N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continues excavation at the southeastern hillslope of the south borrow. At the south side of excavation a D8T caterpillar bulldozer compacted and excavated sediment to keep benching this side of the hill, the south side benched area stands about 15 feet higher than the north side. Three 651 b CAT scrappers continue excavating sediment from the center and north sides of the hill the direction of excavation is going east to west. A D9L CAT bulldozer helps the 651 b scrappers cut sediment by pushing them when excavating through siltstone sediment. At the center of cell 7 between the south and north borrows C.A Rassmussen inc has made progress over excavating sediment. At the west end of the north side of excavation the orange flagged wood stakes that mark the end limit of excavation are about 20 feet below the current depth level and at the east end of excavation the orange flaged stakes are about 12 to 10 feet below the current depth level. About 4 to 5 feet of sediment were removed today. No paleontological resources found today

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is predominantly fine grain, tan-gray silt-sand with gravel size conglomerate rocks and sandstone fragments. There is also pockets of coarse grain yellow and white sand sediment at the north and center of excavation. Brown silt sediment is also present on the north and east ends of the hillslope that have shrub vegetation. At the center of cell 7 between the south and north borrows the dominant sediment type is tan-gray silt-sand that has gravel size round conglomerate rocks. At the north side there is a sediment bed of brown siltstone that runs from the east to the west end of excavation. Closer to the center there is a sediment bed of dark gray siltstone. Coarse grain yellow and white sand sediment is observed at the center and south sides of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the start of excavation at the southeastern hillslope of the south borrow



Facing: East
Looking east shows the progress of excavation done by the 657 b caterpillar scrappers at the center of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 11, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 63 °F **High Temperature:** 83 °F Completely cloudy		

Project Location:

Zone 11S 349261E 3811470N Castaic Los Angeles California

Construction Activities Monitored:

Today at the center of cell 7 between the south and north borrows C.A Rassmussen inc had five 657 b Caterpillar scrappers continue over excavation of sediment. The course of excavation was going east to west. The excavated sediment was taken west into work areas of cell 8. A D10N CAT bulldozer removed shrub vegetation at the south side of excavation and broke down sediment beds for the 657 b scrappers to take the sediment west. The depth level at the north side of the center excavation is closer to the orange flagged wood stakes that represent the excavation limits. The current depth level at the west end is about 15 feet above the orange limit marks, while the east end is only about 10 feet above the orange excavation limit marks. At the southeastern hillslope of the south borrow three 651 b CAT scrappers continued excavating the north side of the hillslope. A D8T bulldozer compacted the south side of the hill and benched it out, this area measures about 25 feet north to south by 335 feet east to west, and it stands 15 feet above the north excavation side. About 5 to 6 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the center area of cell 7 that is between the south and north borrows is predominantly light tan-gray soft, silt-sand. The silt-sand sediment has gravel size round conglomerates and sandstone fragments. At the north side of excavation there is a sediment bed of brown-orange siltstone that runs from the east to the west end, closer to the center there is a sediment bed of dark gray-black siltstone. Coarse grain yellow sand is seen throughout the excavation area and coarse grain white-gray sand is seen at the south and west sides of excavation. At the southeastern hillslope of the south borrow the predominant sediment type is light colored tan-gray, silt-sand. The silt-sand sediment has gravel size round conglomerate rocks, and sandstone fragments. At the north side and east end of excavation there is brown silt at the areas with shrub vegetation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the progress of excavation at the center of cell 7 between the north and south borrows



Facing: East
Looking east shows the progress of excavation at the southeastern hillslope of the south borrow, the south side has been benched

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 14, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 72 °F **High Temperature:** 92 °F Clear sunny		

Project Location:

Zone 11S 349283E 3811722N Castaic Los Angeles California

Construction Activities Monitored:

At the center of cell 7 between the north and south borrows C.A Rassmussen inc continues over excavation. A D10N caterpillar bulldozer is removing shrub vegetation and breaking sediment beds at the east end of excavation. Six 657 b CAT scrappers are being used to cut sediment going east to west, the excavated sediment was taken west into cell 8. At the southeastern hillslope of the south borrow C.A Rassmussen inc continued over excavation at the north side of the hill slope, three 651 b CAT scrappers cut sediment going east to west with the help of a D9L CAT bulldozer that pushed the scrappers when cutting. At the east end of the hill a D8T CAT bulldozer started breaking sediment beds and moved to the south side to compact sediment and give shape to the benched slope. About 5 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the center of cell 7 between the south and north borrows the lithology is predominantly fine grain, soft, tan-gray silt-sand with round conglomerate rocks. At the north side there is a sediment bed of light brown siltstone that runs east to west. Right at the center of excavation there is a sediment bed of dark gray-black siltstone. There is coarse grain yellow-olive and white sand at the center and south side of excavation. The lithology at the southeastern hillslope is predominantly fine grain, soft silt-sand, this sediment type has gravel size conglomerates and sandstone fragments, the north and east sides of excavation have shrub and chapparral vegetation, the sediment there is brown and tan silt. There is patches of brown and gray siltstone at the east end of excavation. Coarse grain yellow and gray sand is observed at the center of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the 657 b scrappers excavating while the D10 N bulldozer breaks sediment beds at the center of cell 7



Facing: East
Looking east shows the 651 b scrappers excavating the north side of the southeastern hillslope, the south side has been benched

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 15, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 74 °F **High Temperature:** 100 °F Clear sunny		

Project Location:

Zone 11S 349272E 3811475N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow C.A rassmussen inc continues over excavation. Four 651 b CAT scrappers continue cutting sediment at the north side of the hill and taking it west into cell 8. The D9L Caterpillar bulldozer continues helping push the CAT scrappers to cut sediment. At the south side of the hill the D8T CAT scrapper continued excavation to give the south benched area a slope. A D10N bullddozer later on the day moved to the east end of the hill to breakdown sediment beds, and help the D8T bulldozer slope the south side. The benched area at the south side is now about 20 feet above the north side. At the center of cell 7 between the south and north borrows C.A Rassmussen had a DEERE excavator remove spoils at the north and east sides of excavation. Six 657 b Caterpillar scrappers continue over excavating all throughout the center area and are taking the loose sediment west into cell 8. The north and east sides are the closest to the orange flaged limit marks which are about 10 feet below the current grade at the north and east. About 5 feet of sediment were excavated today. No paleontological resourrces observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is predominantly soft, fine grain, tan-gray silt-sand. At the north and east sides of the hill there is brown silt where the brush vegetation is at. There is also pockets of brown and gray siltstone. Coarse grain yellow and gray sand is found at the north west sides of the hill and in smaller amounts at the east end. The lithology at the center of cell 7 between the south and north borrows is predominantly fine grain, tan-gray silt-sand. At the north side of excavation there is a sediment bed of brown-orange siltstone, a sediment bed of dark gray-black siltstone is located closer to the center of the area. Coarse grain, yellow and white sands with conglomerate rocks are present at the south side and in small pockets at the center, east and west ends of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the progress of excavation at the north side of the southeastern hillslope



Facing: Northeast
Looking northeast shows the DEERE bucket excator removing spoils piles at the north side of the center of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** August 16, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 80 °F **High Temperature:** 102 °F Sunny		

Project Location:

Zone 11S 349276E 3811465N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow C.A Rassmussen inc continues excavating the north half of the hill. With the help of a D9L bulldozer three 651 b CAT scrappers cut sediment at the north side and take the loose sediment west into cell 8. The D8T caterpillar bulldozer kept excavating the side of the south benched area to give it a slope shape this side stands about 15 feet above the north excavation area. At the center of cell 7 between the south and north borrows C.A Rassmussen inc continues excavation six 657 b CAT scrappers cut sediment all throuhout the center excavation area going east to west. A DEERE bucket excavator also stayed at the south side excavating sediment and removing shrub vegetation.A D10N CAT bulldozer also broke sediment throughout the center area and the south side that has spoils piles. About 5 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is dominated by fine grain, tan-gray siltsand that has rounded conglomerate rocks. All throughout the hillslope there are small pockets of coarse grain white and yellow sand. The north and east side areas with shrub vegetation have brown silt and tan-gray silt. There is also small pockets of brown and gray siltstone at the center of excavation. The lithology at the center of cell 7 between the south and north borrows is dominated by soft tan-gray, silt -sand that has round conglomerate rocks. At the north side there is a sediment bed of brown-orange siltstone, further to the center of excavation there is another sediment bed of dark gray-black siltstone. Coarse grain yellow and gray sand are observed in small pockets at the north west and southwest sides of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D9L bulldozer pushing a 651 b scrapper and the D8T bulldozer sloping the south benched area.



Facing: Southeast
Looking southeast shows the 657 b CAT scrappers excavating the east end of the center area of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** August 17, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 77 °F **High Temperature:** 99 °F Clear sunny		

Project Location:

Zone 11S 349279E 3811468N Castaic Amador, Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow C.A Rassmussen inc continues over excavation activities to lower the north side of the hillslope and give it a basin shape. The three 651 b CAT scrappers cut sediment at the north half of the hill and help compact the south side that has been benched. The benched area is now more than 14 feet above the north side. The D9L CAT bulldozer helps push the scrappers when cutting sediment. A D8T CAT bulldozer continues excavating the side of the south benching to give it a gradual slope. At the center of cell 7 between the north and south borrows C.A Rassmussen inc continued excavation a D10N CAT bulldozer stayed on the north side and moved to the center to begin cutting sediment for the six 657 b CAT scrappers to excavate sediment going east to west. All the excavated sediment was taken west into cell 8. The east side is the closest to the orange flaged wood stakes that are about 6 feet above the current grade there, at the west side the wood stakes are about 10 feet below the current grade. About 5 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is predominantly tan-gray, fine grain, soft silt-sand with round conglomerates. At the south side of the hillslole there is pockets of coarse grain white sand. The east and north sides of excavation have shrub vegetation with tan and brown silt. At the north half of the hillslope there are pockets of brown and dark gray siltstone. At the center of cell 7 between the north and south borrows the lithology is dominated by fine grain, soft, tan-gray silt-sand, this sediment type has conglomerate rocks. At the north side of excavation there is a sediment bed of brown-orange siltstone that runs east to west. At the very center there is another sediment bed of dark-gray to black siltstone. At the south side there is pockets of coarse grain white sand. There is also coarse grain yellow sand at the west end of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking southeast shows the 651 b scrapper excavating with the help of a D9L bulldozer and the D8T bulldozer benching the south side



Facing: East
Looking east shows the 657 b CAT scrappers cutting sediment at the center of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 18, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 75 °F **High Temperature:** 95 °F Clear sunny		

Project Location:

Zone 11S 349252E 3811710N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow C.A Rassmussen inc continues excavation. The north side of the hill is being excavate to lower the depth level and give that area a basin shape. Three 651 b CAT scrappers excavate the north side of the hill. A D9L CAT bulldozer is there pushing the scrappers to cut sediment and take it west into cell 8. At the north center area a D8T CAT bulldozer is breaking sediment beds for the scrappers to take the loose sediment west. With its side blade the D8T bullddozer gave the south side benched area a gradual slope that drops 15 feet into the north half of the hill. The east side of the hill has been excavated to a lower depth compared to the west end. At the center of cell 7 between the south and north borrows C.A Rassmussen inc continues excavation. A Deere bucket excavator stayed at the east and south sides removing brush vegetation and excavating sediment to make spoils piles. A D10N CAT bulldozer was breaking down sediment beds of siltstone all throughout the center excavation for the six 657 b CAT scrappers to take the loose sediment west into cell 8. About 5 feet of sediment were excavated today. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

At the northwest and southwest sides of the southeastern hillslope the sediment type is coarse grain sand with conglomerate rocks. The dominant sediment type is tan-gray silt-sand. At the east end of the hill there are pockets of gray and brown siltstone sediments. The sediment at the north and east sides of the hill is brown and gray silt with shrub vegetation. The dominant sediment type at the center of cell 7 between the south and north borrows is tan-gray silt-sand. At the north side there is a continuous sediment bed of brown-orange siltstone. Closer to the center there is a sediment bed of dark gray-black siltstone sediment. At the south side there is coarse grain white sand. There are also pockets of coarse grain yellow sand at the center of excavation.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Photo looking east it shows the 651 b CAT scrapper excavating the north side of the southeastern hillslope



Facing: East
Looking northeast shows the 657 b CAT scrappers excaating sediment at the center of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 23, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 95 °F Clear sunny		

Project Location:

Zone 11S 349471E 3811573N Castaic Los Angeles California

Construction Activities Monitored:

At the southeastern hillslope of the south borrow in cell 7 C.A Rassmussen inc is doing excavation to remove the shrub vegetation located at the east end of the hillslope. A DEERE 53 H bucket excavator is being used to take out shrub vegetation from the down slope of the east end. A D8T Caterpillar scrapper is breakdown sediment beds of siltstone/sand sediment and also removing shrub vegetation to push all the debris and loose sediment to the north side of the slope. About 5 feet of sediment were removed in an area measuring about 85 feet north to south by about 160 feet east to west. No cultural resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the east end of the southeastern hillslope is tan-gray silt/clay. There are round rock conglomerates, and sharp edge brown siltstone fragments on this sediment. The sediment is wet because of the rain. As the depth of excavation increases coarse grain gray and yellow sand is encountered at the east end of the south borrow in cell 7.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Photo looking east shows vegetation removal done by the DEERE excavator and the D8T bulldozer at the southeastern hillslope of cell 7



Facing: Northeast
Looking northeast shows the progress of excavation at the east end of the south borrow

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 24, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 68 °F **High Temperature:** 85 °F Partially cloudy		

Project Location:

Zone 11S 349421E 3811582N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen inc continues excavation at the east end of the south borrow. The purpose of excavation is for the H53 DEERE bucket excavator to remove all the brush and chaparral vegetation at the side of the southeastern hillslope. For the D8T bulldozer to keep breaking sediment beds at the east end of the hill to have a flat work area. And keep lowering the depth level to reach the orange limit marks that represent the end of excavation. All the loose sediment was pushed to the north half by the D8T bulldozer. About 5 feet of sediment were moved today in an area measuring about 90 feet in width north to south by about 150 feet in length east to west. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment type at the southeastern hillslope of the south borrow is tan-gray silt-sand. This sediment has rounded conglomerate rocks and sharp edge brown and gray siltstone. The east end of the hill has shrub and chapparral vegetation, the sediment there is brown/gray silt, there is also gray and yellow coarse grain sand at the east end as the depth of excavation increases. At the north half of the hill there is coarse grain gray sand with conglomerate rocks, orange brown/ gray siltstone and clay sediment.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: East
Looking east shows the D8T bulldozer breaking sediment beds at the northeast side of the hill



Facing: Northeast
Looking east shows the D8T bulldozer breaking sediment beds while the H53 bucket excavator excavates sediment at the east end of the hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** August 25, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 64 °F **High Temperature:** 95 °F Clear sunny		

Project Location:

Zone 11S 348618E 3810773N Castaic Los Angeles California

Construction Activities Monitored:

Today at the road leading to the north borrow in cell 7 C.A Rassmussen inc had a D8T caterpillar bulldozer do benching excavation at the east side of the road to make a flat side slope and compact the ground. The bulldozer is going in a north to south direction ripping the ground breaking sediment beds of silt and sand. The work area measures 215 feet in length north to south by about 25 feet east to west. At the southeastern hillslope of the south borrow C.A Rassmussen inc continues excavating sediment to reach the orange limit marks. A H53 DEERE bucket excavator is excavating the east end of the hill making stockpiles of sediment. All the excavated sediment was dropped onto a DEERE loader truck, and a C5 Volvo loader truck to be taken west into cell 8. The excavation area measures about 85 feet in width south to north by 180 feet in length east to west. The amount of sediment removed today is about 5 feet. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the road that goes up the north borrow is varied. The predominant sediment type found there is tan-gray silt-sand. At the southwest of excavation there is a sediment bed of dark gray siltstone/clay sediment. There are also patches of light gray-white coarse grain sand that reach the north end of excavation. Small patches of brown-orange siltstone/clay are also found scattered from the south to the east end of the road. The lithology at the east end of the southeastern hillslope at the south borrow is predominantly tan-gray silt-sand. The north side of the east end has shrub and tree vegetation the sediment there is dark brown silt and dark brown loam. There is also coarse grain gray and yellow sediment at the north west side of the hill and as depth increases on the east end. The southeast side of the hillmhas yellow brush, chaparral vegetation. All the sediment is wet because of the rain. About 5 feet of sediment were removed today. No archaeological resources observed.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: South
Looking south shows the D8T Bulldozer ripping the ground and pushing sediment north to continue benching the east side of the road that leads to the north borrow



Facing: Northeast
Looking northeast shows the H53 DEERE excavator making stockpiles of sediment at the east end of the hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 28, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 71 °F **High Temperature:** 95 °F Clear sunny		

Project Location:

Zone 11S 349471E 3811566N Castaic Los Angeles California

Construction Activities Monitored:

C.A Rassmussen inc continues excavating the east end of the south borrow. The purpose of excavation is to remofe all the shrub vegetation and to keep lowering the overall depth of the area to reach the orange flaged final level markings. A H53 DEERE bucket excavator is excavating the east side of the hill in small segments the excavated sediment is being stockpilled on site. Later on the day the sediment was dumped into a CAT loader truck by the DEERE excavator and by a CAT front loader. The excavated sediment was taken into cell 8. The size of the segment excavated today is about 156 feet east to west by 80 feet north to south. About 5 feet of sediment were excavated. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment at the southeastern hillslope of the south borrow is predominantly tan-gray silt-sand. There is also dark brown silt-loam with roots at the northeast side of the hill. As depth increase on the east end coarse grain tan-yellow and gray sand with conglomerate rocks is observed. Small patches of brown and gray siltstone are observed. At the southeast side of the hill there is yellow brush vegetation, at the northeast side there is green shrub and tree vegetation. No paleontological resources observed.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the DEERE H53 excavator stockpilling sediment at the east end of the south borrow



Facing: West
Looking west shows the progress of excavation at the east end of the southeastern hillslope

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 29, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 76 °F **High Temperature:** 101 °F Clear sunny		

Project Location:

Zone 11S 349453E 3811607N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen inc continued excavating the east end of the south borrow tomremove shrub and tree vegetation and keep lowering the overall depth level of the east side of the hill. The H53 DEERE bucket excavator began by dumping more of the stockpiled excavated sediment into a C5 Volvo dump truck and a CAQ5 DEERE dump truck. All the excavated sediment was taken west into cell 8. The size of the excavation area that was worked today measures about 60 feet in length east to west by 80 feet in width north to south. The depth on this area varies from 5 to 10 feet below the benched area at the south side of the hill. About 5 feet of sediment were excavated today no paleontlological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment type at the east end of the south borrow is tan-gray silt-sand. The top soil at the northeast side of excavation is dark brown loam and brown silt, this area has the green shrub and tree vegetation. As depth gets below 6 feet there is coarse grain gray and tan-yellow sand with conglomerate rocks. Small patches of brown and gray siltstone are seen across the east end of the southeastern hillslope. Yellow brush vegetation is seen on the southeast side of excavation, the sediment there is gray silt.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Photo looking north shows the H53 DEERE excavator dumping sediment into a C5 Volvo dump truck



Facing: Northeast
Looking east shows the gradual change in depth because of excavation at the east end of the hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 30, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 74 °F **High Temperature:** 101 °F Clear sunny		

Project Location:

Zone 11S 348451E 3810696N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen inc focused on compacting sediment at the open excavation area of a drainage line at cell 8. On a downslope at the bottom southeast end of cell 8 C.A Rassmussen inc is compacting sediment using a D5K CAT mini bulldozer and a VT6N64 roller compactor. The purpose of the activity is to improve the compaction of the sediment after the rain. A C5 Volvo loader truck and a CAQ5 DEERE loader truck were used to dump sediment at the open pit to be compacted. The sediment that was dumped was coming from the stockpile of excavated sediment frkm cell 7. At cell 8 above the exposed drainage line a mini bulldozer is benching the top of the highest hillslope. At the end of the day excacation at the southeastern hillslope of cell 7 was resumed. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment in cell 8 at the open excavation area below the drainage line is prefominantly tan-gray silt-sand. Adjacent to the excavation pit there is also brown silt sediment and coarse grain yellow and gray sand at the west slope of the hill. To the east of the open pit the sediment has been disturbed with thrash and rain covers.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northwest
Photo looking northwest shows the excavation area at cell 8 the drainage line is located going up the hillslope



Facing: Southeast
Looking southeast shows the progress of compaction at the southeastern end of cell 8

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** August 31, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 92 °F Clear sunny		

Project Location:

Zone 11S 349239E 3811587N Castaic Los Angeles California

Construction Activities Monitored:

Today C.A Rassmussen inc started to excavate a trench at the road that leads to the north borrow. The 335 F CAT bucket excavator excavated the trench to drain a rain water pond. The dimensions of the excavated trench are about 45 feet in length east to west by 4 feet in width and 5 feet in depth. All the excavated sediment was stockpilled on site. Shell fragments were found on tan silt-sand but were not in situ. At the southeastern hillslope of the south borrow C.A Rassmussen inc continued excavation activities. The D8T Caterpillar bulldozer was used to remove the brush and shrub vegetation at the northeast side of the hill and to keep breaking sediment beds and pushing sediment west. The CAT 335 F bucket excavator stockpilled the loose sediment west of the excation to dump the sediment onto a C5 volvo dump truck and a CAQ5 DEERE dump truck. The dimensions of the area excavated today are about 80 feet in width north to south by 140 feet in length east to west, the depth of the excavation varies from 5 feet to 35 feet. All the excavated sediment was taken west into cell 8. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment at the road leading to the north borrow is predominantly tan-gray silt-sand. There is white coarse grain sand at the southwest end of the rain pond. As the depth increases below 5 feet there is dark gray coarse grain sand as well as patches of brown and gray siltstone. The sediment at the southwestern hillslope of cell 7 is very varied. At the northeast side where there is green shrub and tree vegetation the sediment is brown silt and dark brown loam. West of the south borrow the predominant sediment is tan-gray silt-sand. Coarse grain white and yellow sand is encountered below 6 feet of excavation. Some of the sediment is wet because of the rain.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking north shows the CAT bucket excavator making the trench to drain the rain pond



Facing: South
Looking west shows the CAT bucket excavator stockpilling sediment and the area that the CAT bulldozer excavated and compacted at the east end of the hill

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** September 1, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 67 °F **High Temperature:** 83 °F Partially cloudy		

Project Location:

Zone 11S 349488E 3811608N Castaic Los Angeles California

Construction Activities Monitored:

At the south borrow of cell 7 C.A Rassmussen inc continued excavating the east side of the southeastern hillslope. The 335F CAT bucket excavator moved east and dropped to the eastern downslope of the hill to keep lowering the depth level of the area making a gradual down slope. The D8T bulldozer removed brush and tree vegetation from the northeast side of the hill while flattening out the east end of the hill. The excavator kept stockpilling the excavated sediment west of excavation and throughout the day would drop sediment onto the C5 Volvo and the CAQ5 CAT dump trucks. All the excavated sediment was taken west into cell 8 to be dropped at the large stockpile area. The area of excavation at the south borrow has about 140 feet in length east to west by 80 feet in width north to south. The depth reached today ranges from 5 to 35 feet. At the end of the day the D8T CAT bulldozer pushed excavated sediment onto the rain pond located on the north side of the south borrow. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The lithology at the southeastern hillslope of the south borrow is varied. The predominant sediment type at the east side of the southeastern hillslope is tan-gray silt-sand especially at the southwest side of excavation. The top sediment at the northeast side of the hillslope where there is green shrub and tree vegetation is dark-brown loam with roots and light brown silt. Past below 6 feet of sediment coarse grain white and yellow sand is found throughtout the excavated area. The southeastern side of the hill has yellow brush vegetation and its top sediment is tan-gray and brown silt.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Looking northeast shows the CAT 335 F excavator dropping sediment on the C5 Volvo dump truck



Facing: North
Looking north shows the D8T CAT bulldozer pushing sediment from the stockpile to the rain water pond at the northwest of the south borrow

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro Garcia	**Date:** September 6, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 63 °F **High Temperature:** 79 °F Completely cloudy		

Project Location:

Zone 11S 348496E 3810698N Castaic Los Angeles California

Construction Activities Monitored:

At the top of the west slope of cell 8 C.A Rassmussen inc has a CAT 325 F bucket excavator removing sediment in a trench area where a storm drain line will be installed. All the excavated sedimemt is being dumped onto a KAQ5 DEERE dump truck and being taken into a dump stockpile. Down the west hillslope at the southwest end of the hill another bucket excavator a 345G lc DEERE excavator is also excavating to remove parts of the old storm drain line. The purpose of the excavation is to make a clear space for a new storm drain to be installed. The excavated sediment was stockpilled on site. Later on the day at the top west area of cell 8 a mini DEERE bulldozer was used to cut sediment of the sides of the main storm drain trench area. This excavation area measures about 15 feet east to west by about 150 feet north to south with a gradual depth that ranges from 6 feet to 25 feet from the surface. Loose sediment was also compacted using a metal roller compactor. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The predominant sediment type at the southwestern side of the hillslope and at the top of the west side of cell 8 is tan-brown and gray silt-sand. The sediment at the slope of cell 8 is also moderately disturbed with construction material like gravel, concrete, brick, plastics, and metal.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: West
Looking west shows the excavation up the western hillslope of cell 8 reaching the storm drain opening



Facing: Southwest
Looking southwest shows the 345 G lc DEERE excavator removing the old storm drain pipe



Facing: South
Looking south shows the DEERE mini bulldozer cutting sediment with its side blade at the main excavation area of the storm drain in cell 8

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** September 7, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 64 °F **High Temperature:** 88 °F Clear sunny		

Project Location:

Zone 11S 349282E 3811548N Castaic Los Angeles California

Construction Activities Monitored:

Today at the north side of the southeastern hillslope of the south borrow C.A Rassmussen inc had a D10T CAT bulldozer use its rippers to break the ground. The purpose of the excavation was to mix wet mud sediment with dry sediment and create a flat surface. The bulldozer moved east to west breaking sediment beds in an area that measures about 60 feet north to south by 250 feet east to west. The sediment disturbance reached about 3.5 feet from the previous grade. At the bottom of the north borrow C.A Rassmussen inc had a 335 F CAT bucket excavator excavating sediment to be exported off cell 7. The excavated sediment was loaded into a C5 CAT dump truck and a 410 Deere dump truck to be taken into sediment stockpile areas of cell 8 and cell 6. The work area at the bottom of the north borrow measures about 70 feet north to south by 45 feet going east to west. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment at the north side of the south borrow is varied. The most abundant sediment type is light tan-gray silt-sand. The north side of the south borrow has green shrub and tree vegetation, the sediment there is brown and tan silt with roots. Patches of brown-orange siltstone and coarse grain gray sand are observed. Round conglomerate rocks are seen on the white sand and tan silt-sand sediments. The sediment type at the bottom of the north borrow is predominantly tan-gray silt-sand. There are patches of gray coarse grain sand that run across north to south as well as patches of brown-orange siltstone.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: West
Looking west shows the D10T CAT bulldozer breaking sediment beds at the north side of the southeastern hillslope of cell 7.



Facing: South
Looking south shows the CAT 335F bucket excavator moving sediment to be dropped onto the dump trucks to take it off cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** September 8, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 69 °F **High Temperature:** 92 °F Clear sunny		

Project Location:

Zone 11S 349337E 3811641N Castaic Los Angeles California

Construction Activities Monitored:

Today at the center of cell 7 between the north and south borrows C.A Rassmussen inc had a D10T CAT bulldozer use its rippers to break the sediment beds of the area and compact all the loose sediment to create a flat surface. The bulldozer pushed loose sediment east to west to eliminate dips and groves. The area excavated at the center of cell 7 measures about 60 feet north to south by 240 feet east to west. The CAT bulldozer reached about 3.5 feet of ground disturbance. At the bottom of the north borrow C.A Rassmussen had a 345 G lc bucket excavator excavating and loading loose sediment onto dump trucks. All the excavated sediment was taken off cell 7 by the dump trucks and transported into cell 6 and cell 8. The excavation area measures about 50 feet in width east to west by 60 feet in length north to south. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The dominant sediment type at the center of cell 7 between the north and south borrows is tan-gray silt-sand. This sediment has been mixed with fragments of sharp edge gray and brown siltstone. Patches of dark gray siltstone and brown-orange siltstone are encountered at the center of cell 7. At the south side of excavation patches of white-gray coarse grain sand with conglomerate rocks and coarse grain yellow-tan sand are observed. At the bottom of the north borrow the dominant sediment type is tan-gray silt-sand. There are patches of coarse grain white sand with conglomerate rocks surrounding the excavation area. As depth increases sediment beds of brown- orange siltstone are observed. At the west side of excavation patches of gray siltstone are observed.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking north shows the D10T CAT bulldozer pushing loose sediment at the east end of the center area of cell 7



Facing: West
Looking west shows the 345G lc bucket excavator dropping sediment into a dump truck at the bottom of the north borrow

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Pedro garcia	**Date:** September 11, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 8
Climate Conditions: Low Temperature: 72 °F **High Temperature:** 92 °F Clear sunny		

Project Location:

Zone 11S 349295E 3811497N Castaic Los Angeles California

Construction Activities Monitored:

At the road leading to the north borrow C.A Rassmussen inc continued excavating sediment to be exported off cell 7. A D8T Caterpillar bulldozer was used to break the sediment beds of the north excavation area as well as to push loose sediment into stockpiles to start exporting sediment. The D8T bulldozer also used its side blade to bench the east side of the road to make a flat slope. A Deere 345 G lc bucket excavator was used to stockpile the excavated sediment south and drop that sediment onto dump trucks. All the excavated sediment was taken west into areas of cell 6 and cell 8 by dump trucks like the C5 DEERE truck. The excavated area measures about 55 feet in width east to west by 80 feet in length north to south. The sediment disturbance reached a depth of about 6 feet. No paleontological resources observed.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

The sediment at the road leading to the north borrow is predominantly tan-gray silt-sand. There are continuous sediment beds of brown siltstone as well as white-gray siltstone running north to south. There is also coarse grain white sand with rounded conglomerate rocks.

Comments:

Paleontological Daily Monitoring Report

Photographs



Facing: Southeast
Looking west shows the D8T bulldozer pushing sediment to create a flat surface area



Facing: North
Looking north shows the D8T bulldozer moving sediment south to be stockpiled and exported off of cell 7

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Andrew McGrath	**Date:** September 25, 2023	
Start Time (24 hour): 08:00	**Stop Time (24 hour):** 14:00	**Total Monitoring Hours:** 6
Climate Conditions: Low Temperature: 55 °F **High Temperature:** 90 °F Clear		

Project Location:

Zone 11S 348483E 3810529N Unincorporated Los Angeles California

Construction Activities Monitored:

Grading for access road with dozer and drilling for utility pole with truck-mounted 2' diameter auger in southwestern part of CCL

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Checked path of dozer and spoils from drilling

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

All topsoil/fill. Mapped as Saugus Fm but none observed. Grading: 0-1 ft: light brown, loose silty loam with construction debris and occasional rounded cobbles Drilling: 0-2 ft: light brown, loose silty loam. 2-7 ft: grayish brown silty sandy loam

Comments:

N/a

Paleontological Daily Monitoring Report

Photographs



Facing: Northeast
Dozer grading for access road



Facing: Northeast
Auger drilling for utility pole



Facing: West
Light brown silty loam

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Chris Tessier	**Date:** November 13, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 13:15	**Total Monitoring Hours:** 6.25
Climate Conditions: Low Temperature: 70 °F **High Temperature:** 85 °F Clear		

Project Location:

Zone 11S 349259E 3811531N Santa Clarissa Los Angeles California

Construction Activities Monitored:

Dozer pushing disturbed soil between roads - Cell 7

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

N/A

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

N/A

Comments:

Arrived at 7 am with Andy; no construction crew present. Walked to the northern section of Cell 7 to view already cut sections of the area (photos 1-3). 12pm dozer starts pushing previously disturbed soil between two roads (photo 4). Spoke with dozer operator who said the rest of the work for this week on the site would be storm prep.

Paleontological Daily Monitoring Report

Photographs



Facing: North
Shelly fossils in northern area



Facing: North
Trace in northern area



Facing: North
Trace in northern area



Facing: Northwest
Dozer Clearing disturbed soil between roads

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Chris Tessier	**Date:** November 27, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 14:00	**Total Monitoring Hours:** 7
Climate Conditions: Low Temperature: 60 °F **High Temperature:** 80 °F Clear		

Project Location:

Zone 11S 349473E 3811562N Santa Clarita Los Angeles California

Construction Activities Monitored:

Scrapers (4) making passes over the work site, with 1 dozer following pushing soil over the scraped sections.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Walked the scraped sections and collected geologic samples. Documented in field book

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Identified multiple units throughout the day including a shake as well as a well sorted course grained sandstone. Both units had no apparent bedding. Later in the day I found a mudstone, as well as a white colored sandstone that was poorly sorted and had a medium grain size.

Comments:

Many situations throughout the day where disturbed soil was pushed into the path of scrapers. Most if not all the dirt moved today went to filling a new road further into the landfill

Photographs

Paleontological Daily Monitoring Report



Facing: South
Scraper Path



Facing:
Shale



Facing:
Sandstone



Facing:
Mudstone

Paleontological Daily Monitoring Report



Facing:
White Conglomerate

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Chris Tessier	**Date:** November 28, 2023	
Start Time (24 hour): 07:00	**Stop Time (24 hour):** 12:30	**Total Monitoring Hours:** 5.5
Climate Conditions: Low Temperature: 65 °F **High Temperature:** 80 °F Clear		

Project Location:

Zone 11S 349247E 3811534N Santa Clarita Los Angeles California

Construction Activities Monitored:

Scrapers grading hill. Dozer smoothing soils and breaking up ground.

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Walked scraper path between grading passes. Collected samples and took photos of units exposed.

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Comments:

Many exposed units were the same as documented yesterday. Mudstone shale and sandstone from yesterday were all still present. Much of the day was pushing disturbed soil into scraper path.

Photographs

Paleontological Daily Monitoring Report



Facing: West
Well sorted sandstone. Uniform in color once broken open



Facing:
Scraper path over disturbed soil



Facing:
Most poorly sorted sandstone I saw all day. Color was similar to other sandstone I found



Facing:
Later photo of mostly disturbed soul being picked up by scraper

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Chris Tessier	**Date:** November 29, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 13:30	**Total Monitoring Hours:** 7
Climate Conditions: Low Temperature: 55 °F **High Temperature:** 75 °F Clear		

Project Location:

Zone 11S 349474E 3811557N Santa Clarita Los Angeles California

Construction Activities Monitored:

Scrapers (6) grading hill, dozers (2) breaking ground and moving dirt

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Walked scraper path occasionally and observed dozers from above while they broke fresh soil

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Similar units to yesterday. No mudstone and instead found a very fine grained siltstone (Photo 3). Sandstone with medium grain size and a poorly sorted feldspathic conglomerate also sampled.

Comments:

Crew broke through more undisturbed rock today than yesterday however I was able to walk the area less due to increased construction vehicles. Utilized lunch break to fully walk the site.

Photographs

Paleontological Daily Monitoring Report



Facing: South
Large layer of siltstone



Facing:
Conglomerate



Facing:
Siltstone



Facing:
Pebbly sandstone. Well sorted, sub angular

Paleontological Daily Monitoring Report



Facing:
Laminated fine grain sandstone. Well sorted. Well rounded

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Chris Tessier	**Date:** November 30, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 12:45	**Total Monitoring Hours:** 6.25
Climate Conditions: Low Temperature: 50 °F **High Temperature:** 70 °F Clear		

Project Location:

Zone 11S 349336E 3811878N Santa Clarita Los Angeles California

Construction Activities Monitored:

Scrapers (5) grading, dozer moving soil

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Walked scraper path, collected samples. Monitored botanists collecting bulbs. Went to North site to collect Pico Formation samples for Andy.

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Very fine grained sandstone, very well sorted, rounded, grey. Fine grained sandstone, poorly sorted, sub rounded, rusty brown color

Comments:

Fewer scrapers than yesterday, and only one dozer. Other monitor said some workers were sick. Spoke with and watched the botanists work for a while, they were expecting a dozer to help them did but ended up not needing it. Also went to Pico Fm in North site to take photos for Andy

Photographs

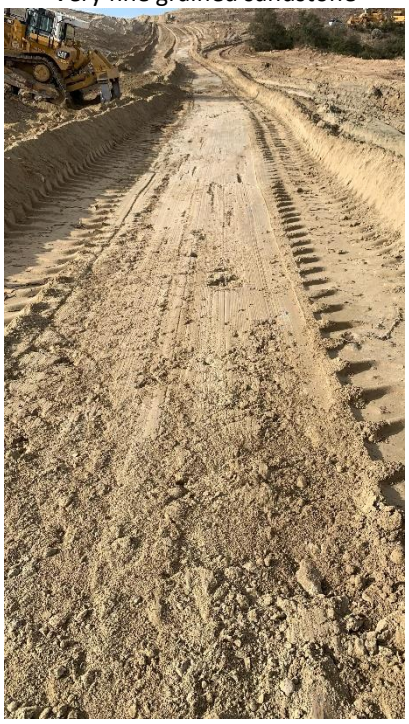
Paleontological Daily Monitoring Report



Facing: South
Very fine grained sandstone



Facing:
Fine grained sandstone



Facing:
Scraper path over sandstone



Facing:
white mineral in scraper path

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon Landfill	
Monitor: Chris Tessier	**Date:** December 1, 2023	
Start Time (24 hour): 06:15	**Stop Time (24 hour):** 12:30	**Total Monitoring Hours:** 6.25
Climate Conditions: Low Temperature: 55 °F **High Temperature:** 65 °F Clear Skies, Windy		

Project Location:

Zone 11S 349226E 3811680N Santa Clarita Los Angeles California

Construction Activities Monitored:

Scrapers (5) grading with dozer breaking up hill

Non-Compliance Recommendation: ☐ **YES** ☑ **NO (If yes, describe below)**

Monitoring Actions:

Watched workers from the top of the hill. Occasionally walked scraper/dozer path to collect samples and take photos

Were Fossils Collected? ☐ **YES** ☑ **NO (If yes, describe below)**

Geologic Observations and Lithologic Descriptions:

Much of the digging went through the Pico Formation, however I did note some fine grained sandstone. It was well sorted and rounded with a rusty brown color. There was also a black unit (photo 4) I could not identify. It had exceptionally a slick texture

Comments:

It was very difficult to get in close to the construction today. The narrow path of the site combined with high winds kicking up a lot of dust made it impossible to walk the scraper path as often as I have been past days. I was able to get down to the site only once while they worked, and spent lunch making additional observations.

Photographs

Paleontological Daily Monitoring Report



Facing: East
Scraper path over fine grained sandstone



Facing:
Dozer path wall - Pico formation



Facing:
Pico Fm



Facing:
Black unit - unidentified

Paleontological Daily Monitoring Report

Project Number: 22-13873	**Project Name:** Chiquita Canyon landfill	
Monitor: Pedro Garci	**Date:** December 2, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 14:30	**Total Monitoring Hours:** 8

Monitoring Locations:

The excavation taking place is at the South borrow of cell 7. The sediment is being dropped on the Liner area of cell 8B.

Construction Activities Monitored:

Today C.A Rassmussen inc did over excavation at the Northwest side of the south borrow in cell 7. Six 657 b CAT Scrappers, 1 D8T CAT bulldozer, and 1 D10 T CAT bulldozer were used today on this area. The scrappers excavated sediment going north to south. The D10N CAT bulldozer pioneered sediment from the Northwest side of the south borrow, while the D8T CAT bulldozer pioneered sediment from the southwest side of the south borrow. The area of todays excavation measures about 255 feet north to south by 140 feet east to west. Today about 4 feet of sediment were removed. All the excavated soil is being taken northwest to cell 8B to be dropped at the Liner stockpile area. At cell 8B sediment is being dropped and compacted to raise the ground level of the area. At the end of the day the scrappers moved to the southern most side of the south borrow to do over excavation. No paleontological discoveries occured today.

Monitoring Actions:

N/A

Site Geology and Lithology:

At the south borrow excavation area of cell 7 the sediment is diverse the north side of excavation has fine grain tan silt, the east side has more concentrations of gravel size conglomerate rocks on light gray-tan silt-sand. At the center of excavation there is a sediment bed of white coarse grain sand that crosses north to south. The south end of the excavation has tan-olive fine grain silt sedient, and ocationally there are brown and gray siltstone and clay patches.

Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: North
Looking North at the Liner and LCRS stockpile area of Cell 8B



Facing: Southeast
Photo looking southeast shows the 657 b CAT scrappers dropping soil onto the Liner area of cell 8B



Facing: Northwest
Photo looking northwest shows the Canyon D stockpile



Facing: Northeast
C.A Rassmussen inc started excavating the Northwest side of the south borrow



Facing: South
Photo looking south shows the 657 b scrappers over excavating the west side of the south borrow



Facing: South
Photo taken from the north side of the south borrow looking south shows the exposed cut of the morning excavation. A the end of the day the scrappers moved to the south side of the south borrow.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 4, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 14:05	**Total Monitoring Hours:** 7.58

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 4 belly scrapers (657B) to scrape up and grade pad strip in cell 8. Pad strip that they are grading is about 35m wide x 120m long x 1m deep graded today.

Monitoring Actions:

Monitored the cuts being taken by the belly scrapers and dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebble to subangular sandstone, with silty sandy alluvium

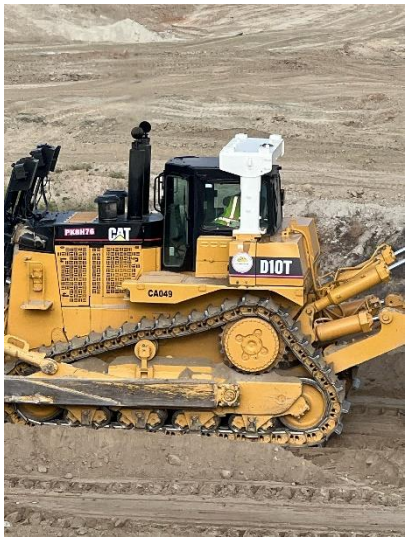
Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: West
Monitoring 4 belly scrapers (657B) and one X06 attachment scraper



Facing: West
Close up of dozer breaking up soil/grading.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 4, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 15:30	**Total Monitoring Hours:** 9.5

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 5 scrapers (CAT 657B) to scrape up and grade pad strip in cell 8. Pad strip that they are grading is about 35m wide x 120m long x 1m deep graded today. Disc blade also assisted the dozers to break up soil.

Monitoring Actions:

Monitored the cuts being taken 5 scrapers, a disc roller and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium

Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: Northwest
Monitoring 5 scrapers grade the pad.



Facing: West
Monitoring 2 dozers break up soil for the scrapers



Facing: South
Monitoring the disc roller break up soil for the scrapers to scrape up/grade.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 6, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 14:30	**Total Monitoring Hours:** 8.5

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade pad strip in cell 8. Pad strip that they are grading is about 35m wide x 200m long x 1m deep graded today. The crew also utilized a 957R hauling another X06 scraper/sweeping attachment.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium; darker brown clay soils and reddish-brown sandy loam soils also present in small pockets.

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: Northwest
Pictured is all the equipment used today: 6 scrapers, 1 smaller scraper/sweeper attachment, and 2 dozers. Grading the pad strip in cell 8.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 7, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 14:30	**Total Monitoring Hours:** 8

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade pad strip in cell 8. Pad strip that they are grading is about 20m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: East

The crew grading the mentioned pad strip in cell 8

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 8, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 15:00	**Total Monitoring Hours:** 8.5

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade pad strip in cell 8. Pad strip that they are grading is about 20m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: West
The crew utilizing the equipment to continue grading the pad strip in cell 8.



Facing: West
The crew utilized the dozer to sweep slope across from the pad strip in cell 8. This area has been graded prior to this week.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 9, 2023	
Start Time (24 hour): 06:30	**Stop Time (24 hour):** 10:08	**Total Monitoring Hours:** 3.63

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Pad strip that they are graded is across from the pad strip they had been grading all week, this one is about 40m wide x 180m long x .5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium

Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: West
The crew is utilizing 1 of the dozers to continue grading the pad strip they have been working on all week, while the other dozer and scraper switch to the wider transect north of it.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 11, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 14:50	**Total Monitoring Hours:** 8.83

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 7 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Pad strip that they are graded is across from the pad strip they had been grading all last week, they continued where they left off 12/9/23, this one is about 40m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also utilized a John Deere 872GP blade, to smoothen the graded pad.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present and in photo log.

Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: East
The crew utilized 7 scrapers today, 1 of the dozers also pictured



Facing: Southeast
Pockets of darker heavily compacted clay native soils becoming present.



Facing: South
The crew utilizing the BG (sweeper attachment) and another dozer to grade pad.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 12, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 14:50	**Total Monitoring Hours:** 8.83

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 7 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Graded the northern most pad strip that is about 40m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also utilized a John Deere 872GP blade, to smoothen the graded pad. The crew also jumped to grade the lower part of western ramp that leads to both pad strips.

Monitoring Actions:

Monitored the cuts being taken 7 scrapers, a smaller scraper/sweeper, a blade and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present.

Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: Southeast
The crew switched over to grade the western strip that leads to both pad strips by 9am. BG w/ sweeping attachment still seen grading the northern most pad strip.



Facing: Southeast
Dozers working on the southern most pad strip as well as the road west of it that leads to both pad strips



Facing: Northeast
Crosssection of darker compact native soils seen in a line.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 13, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 14:50	**Total Monitoring Hours:** 8.83

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Graded the northern most pad strip that is about 40m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also jumped to grade the lower part of western ramp that leads to both pad strips.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper, and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present at the northern most past strip.

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: Southwest
The crew continuing grading the northern most pad strip.



Facing: Southeast
Dozers working on the southern most pad strip as well as the road west of it that leads to both pad strips

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 14, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 14:50	**Total Monitoring Hours:** 8.83

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Graded the northern most pad strip that is about 40m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also utilized a John Deere 872GP blade, to smoothen the graded pad. The crew also jumped to grade the lower part of western ramp that leads to both pad strips.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper, a blade and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present throughout the northern most pad strip.

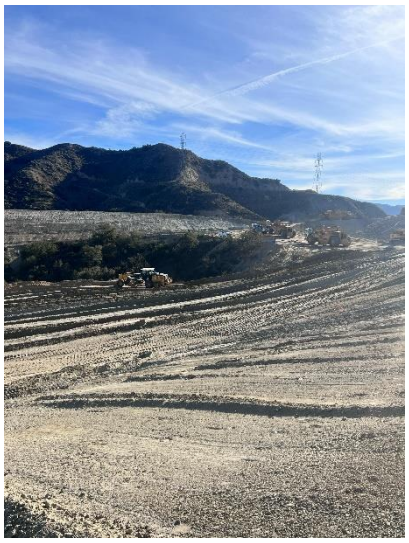
Other Notes, Observations, or Compliance Issues:

Paleontological Daily Monitoring Report

Photographs



Facing: Southwest
The crew continues to utilize 4 scraper on the northern most pad strip as well as the other ramp that leads east of it.



Facing: West
The blade assisting in grading the northern most pad strip.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 15, 2023	
Start Time (24 hour): 06:00	**Stop Time (24 hour):** 14:50	**Total Monitoring Hours:** 8.83

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 7 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Graded the northern most pad strip that is about 40m wide x 180m long x 1.5m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also utilized a John Deere 872GP blade, to smoothen the graded pad. The crew also jumped to grade the lower part of western ramp that leads to both pad strips.

Monitoring Actions:

Monitored the cuts being taken 7 scrapers, a smaller scraper/sweeper, a blade and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present throughout the northern most pad strip.

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: West

The crew continuing grading southwest of both pad strips, road that connects both.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 16, 2023	
Start Time (24 hour): 06:15	**Stop Time (24 hour):** 14:35	**Total Monitoring Hours:** 8.33

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 7 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Graded the northern most pad strip that is about 40m wide x 180m long x 1.5m deep graded today. The crew also graded the southern most strip which is about 20m wide x 180m long x 1m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also utilized a John Deere 872GP blade, to smoothen the graded pad. The crew also jumped to grade the lower part of western ramp that leads to both pad strips.

Monitoring Actions:

Monitored the cuts being taken 7 scrapers, a smaller scraper/sweeper, a blade and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present throughout the northern most pad strip.

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: Northwest
The crew can be seen grading all areas, both pad strips and the roads that lead to them.

Paleontological Daily Monitoring Report

Project Number: 21-11844	**Project Name:** Chiquita Canyon Landfill	
Monitor: Edgar Garcia	**Date:** December 18, 2023	
Start Time (24 hour): 06:20	**Stop Time (24 hour):** 14:42	**Total Monitoring Hours:** 8.37

Monitoring Locations:

Cell 8

Construction Activities Monitored:

Monitored 2 dozers (D10T) grade and break up soil for the 6 scrapers (CAT 657B) to scrape up and grade a pad strip in cell 8. Graded the northern most pad strip that is about 40m wide x 180m long x 1.5m deep graded today. The crew also graded the southern most strip which is about 20m wide x 180m long x 1m deep graded today. The crew also utilized a John Deere 9570R hauling another X06 scraper/sweeping attachment. The crew also utilized a John Deere 872GP blade, to smoothen the graded pad. The crew also jumped to grade the lower part of western ramp that leads to both pad strips.

Monitoring Actions:

Monitored the cuts being taken 6 scrapers, a smaller scraper/sweeper, a blade and 2 dozers from the pad strip in cell 8.

Site Geology and Lithology:

Grading: light grey-brown, poorly sorted pebbles to subangular sandstone, with silty sandy alluvium. Pockets of dark grey-black compact clay native soils also present throughout the northern most pad strip.

Other Notes, Observations, or Compliance Issues:

Photographs



Facing: Northeast
The crew continuing grading northern most pad.

Appendix E
SOFA Monthly Reports

September 29, 2023
File No. 01204123.25, Task 10

Baitong Chen, Air Quality Engineer, bchen@aqmd.gov
Nathaniel Dickel, Senior Air Quality Engineer, ndickel@aqmd.gov
Christina Ojeda, Air Quality Inspector, cojeda@aqmd.gov
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: August 2023 Monthly Report for Stipulated Order for Abatement (Case No. 6177-4), Chiquita Canyon Landfill (Facility ID 119219), Castaic, California

To Whom It May Concern:

SCS Engineers (SCS), on behalf of Chiquita Canyon Landfill (CCL), hereby provides the South Coast Air Quality Management District (SCAQMD) with a monthly report per the Stipulated Order for Abatement (SOFA) (Case No. 6177-4) for the CCL in Castaic, California. The SOFA was approved on September 6, 2023.

This report covers the monthly period for August 2023. Per Condition No. 8, the first monthly report for August 2023 shall be due on September 30, 2023. Subsequent monthly reports are submitted on the third Monday of each month.

BACKGROUND

CCL is a landfill/solid waste disposal facility located at 29201 Henry Mayo Dr., Castaic, California, 91384 (SCAQMD Facility No. 119219). In connection with the landfill, CCL operates a landfill gas collection and control system.

In 2023, CCL began experiencing increased levels of total reduced sulfur and sulfur oxides, in noncompliance with its Title V permit.[1] In addition, CCL became the subject of numerous odor complaints from the public and was issued Notices of Violation by SCAQMD. The conditions at CCL indicate that the landfill is undergoing an elevated temperature landfill (ETLF) event. On September 6, 2023, a hearing was held before the SCAQMD Hearing Board to approve the SOFA which includes numerous measures to mitigate emissions resulting from the landfill's ETLF conditions. The SOFA was approved on September 6, 2023. This monthly report is following the approved conditions for the SOFA.

Condition No. 8 of the SOFA requires monthly reports to be submitted via email to Baitong Chen, Nathaniel Dickel, and Christina Ojeda of the SCAQMD, which include the following information:

A. *The landfill gas sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.*

[1] CCL operated under an Ex Parte Emergency Variance (approved on February 8, 2023), an Interim Variance request (approved on February 15, 2023 and issued in final on March 7, 2023), and a Regular Variance (approved on May 3, 2023 and issued in final on May 16, 2023). The Regular Variance ended on September 6, 2023, the effective date of the SOFA.

B. The landfill gas records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

C. The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

D. Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

E. Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).

F. Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).

G. All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format.

H. A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.

I. All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

J. Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternative sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

K. A summary report on SCS's implemented improvements to the landfill gas collection system.

L. An inspection log for landfill cover inspections, pursuant to Condition No. 24.

M. Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

N. Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

O. Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

MONTHLY REPORT

Section A – LFG Sulfur Compound Measurements during Reporting Period

The LFG sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.

Condition No. 5: Respondent shall sample, analyze, and record the landfill gas sulfur compounds combusted in each flare (as measured at sampling location FL-150 that is representative of the gas combusted in the flare under Permit G23473, A/N 491442) at least once each week using colorimetric tests for hydrogen sulfide (H2S) and at least once each week sample for analysis for total sulfur compounds as H2S using South Coast AQMD Method 307-91.

a. Respondent shall record South Coast AQMD Method 307-91 analysis upon receipt of laboratory analysis report. Each recorded measurement or result shall be documented with the time and date when the measurement or sample collection was conducted, and initialed by the personnel that conducted the measurement or sample collection.

b. Sulfur compound readings and analysis shall be reported to South Coast AQMD pursuant to Condition No. 8.

i. Tedlar bags used for Method 307-91 sampling and analysis shall not contain droplets or debris.

ii. Colorimetric tube readings shall be conducted by taking a reading from a Tedlar bag sample using an appropriate colorimetric tube sample collection pump. All sampling shall be performed in accordance with the operational manual for the colorimetric tube sample collection pump.

iii. Colorimetric tube readings shall use colorimetric tubes of appropriate concentration range and shall be reported as follows:

1. Respondent shall first use the estimated appropriately ranged colorimetric tube.

2. If the resulting reading reaches the upper concentration of the colorimetric tube concentration range, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a larger upper concentration threshold until the result is not the upper concentration threshold of the concentration range. Report the tube concentration range and tube concentration result for each reading.

3. If the reading results in the lower concentration of the colorimetric tube concentration range or does not register a result, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a smaller lower concentration threshold, if available, until the colorimetric tubes available to the facility result in:

a. A reading that is within the concentration range of the tube,

b. A reading is the lower concentration of the colorimetric tube concentration range, or

c. The colorimetric tube does not register a result.

4. When the result is the lower concentration of the colorimetric tube concentration range or does not register a result, the lower concentration of the colorimetric tube concentration shall be considered the concentration result. Report the tube concentration range and tube concentration result for each reading. If a lower range colorimetric tube is not used and the tube concentration result is below the lower range of the colorimetric tube used, Respondent shall report the result as "less than" or "<" the lower range value of the tube. Notwithstanding the forgoing, Respondent shall ensure that the colorimetric tube result is below the upper range of the colorimetric tube used and shall report the precise result of all results above the lowest range of the colorimetric tube used.

The lab analyses performed and reports received for the reporting period that are required by Condition 5(a) are presented in **Attachment A**. This report includes analytical data sampled between August 1, 2023 and August 31, 2023. Tedlar bag samples were collected and analyzed by SCAQMD Method 307.91 for hydrogen sulfide and reduced sulfur compounds. The laboratory reports were received on August 21, 25, and September 7, 2023.

Weekly colorimetric tests (Draeger tube) samples required by Condition 5(b)(ii) and (iii) are identified in **Attachment E**. Please note, daily samples were conducted in August 2023 in accordance with the variance issued in Case No. 6177-3. For the next monthly report, weekly data will be provided per Condition 5 of the SOFA.

A summary of the colorimetric tests and laboratory analyses for landfill gas (LFG) sulfur analyses is provided in the table below, covering the period of August 2023:

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
8/1/23	3	6.93	122	180.1
8/2/23	15	18.4	125	191.3
8/3/23	12	13.5	133	190.2
8/4/23	10	11.7	142	190.6
8/5/23	17	18.3	140	206.9
8/6/23	3	5.72	144	209.2
8/7/23	20	23.9	162	250.7
8/8/23	5	9.03	139	196.8
8/9/23	35	34.9	146	229.5
8/10/23	13	15.5	149	215.3

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
8/11/23	30	25.6	170	238.5
8/12/23	33	31.2	146	225.9
8/13/23	15	14.5	180	244.2
8/14/23	32	30.8	180	260.7
8/15/23	11	13.8	186	253.3
8/16/23	27	29.6	161	233.9
8/17/23	13	15.7	197	257.1
8/18/23	30	31.5	184	257.8
8/19/23	17	18.4	173	229.7
8/20/23	29	28.2	191	260.1
8/21/23	35	30.8	170	236.1
8/22/23	20	21.1	164	233.7
8/23/23	28	29.4	198	281
8/24/23	20	22.4	139	205.4
8/25/23	33	30.7	131	197.5
8/26/23	35	33.5	129	205.6
8/27/23	12	18	138	200.7
8/28/23	26	29.1	137	203.3
8/29/23	19	22.3	142	211.7
8/30/23	25	27.4	140	217.8
8/31/23	15	13.9	164	226.8

*Above summarized Lab analysis are included in **Attachment E**.

Section B – LFG Records and Calculations

The LFG records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

Condition No. 7: Respondent shall maintain a record of the following information, and provide such records to the South Coast AQMD pursuant to Condition No. 8:

a. The hourly and daily flow of landfill gas combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G23473, A/N 491442; flare No. 3 under A/N 624296), the thermal oxidizer (under Envent Corporation A/N 645484), and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility;

b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; and

c. The results of the sulfur readings, sampling, and analyses, calculated as H2S with the time and date when each measurement or sample collection was conducted.

The above-mentioned lab analyses required by Condition 7(c) are included in **Attachment A** and calculations are available in **Attachment B**.

In accordance with Condition 7(a), the flow rates for each flare as standard cubic feet per minute (scfm), scf per hour, and scf per day are provided in the calculation tables and the hourly and daily flow of LFG combusted for the thermal oxidizer are available in **Attachment B**.

In accordance with Condition 7(b), the daily flow of LFG not flared is available in **Attachment B**. Ameresco applied for a variance to operate the LFG turbine plant under a variance order, and its variance was approved on February 15th. Ameresco restarted operations on February 16th, returning the LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

Section C – Surface Emissions Monitoring

The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

Condition No. 9: Respondent shall collect integrated landfill surface samples for analysis across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1 Attachment A 2.0. In the event Respondent is unable to sample specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the sampling of the specific area(s) or grid(s).

a. The "Reaction Area" shall be defined initially by the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2. The boundary of the Reaction Area shall be modified to include the associated landfill surface area of the cells and modules that experience well temperatures of at least 170 degrees Fahrenheit, settlement, cracks in the landfill cover, presence and quantity of liquids, and the presence of hydrogen in the landfill gas. The DMS Committee (defined in Condition 12), shall transmit to the South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] 1) the revised map which clearly displays the proposed boundary change(s) and depicts the new Reaction Area; 2) a narrative summary explaining the rationale behind the proposed changes, including memorializing any dissenting view of any member

of the DMS Committee; and 3) any supporting data relied upon in the decision to revise the Reaction Area.

b. The DMS Committee shall review applicable data and shall consider revision to the Reaction Area as frequently as appropriate but shall make a determination about whether to revise the Reaction Area map at least once per month.

Condition No. 10: Respondent shall conduct instantaneous landfill surface monitoring across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1, Attachment A 3.0, beginning no later than seven (7) days after the issuance of this Order. In the event Respondent is unable to monitor specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the monitoring of the specific area(s) or grid(s).

The integrated landfill surface sampling was completed on August 8, 9, 24 and 25, 2023 resulting in exceedances on August 8 and August 24, 2023. The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on August 17 and September 1, 2023, respectively, and showed compliant readings except for the seven (7) readings on August 24, 2023. A second 10-day corrective action and follow-up monitoring was completed for these exceedances on September 5 and 8, 2023, and showed compliant readings for all seven (7) readings.

The frequency of the instantaneous surface monitoring for the month of August followed the requirements of the Variance in Case No. 6177-3. Therefore, the instantaneous surface monitoring was only completed once in August for the entire site. The instantaneous landfill surface monitoring was conducted on August 25 and 31, 2023, resulting in exceedances on August 31, 2023. The 10-day Corrective Action and follow-up monitoring was competed on September 8, 2023 and showed compliant readings.

The integrated landfill surface sample analysis and landfill surface monitoring readings are included in **Attachment C**.

<u>Section D – Schedule for Replacement or Refurbishment of Granular Activated Carbon Media</u>

Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

Condition No. 3: Respondent shall expedite, to the maximum extent feasible, replacement of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249), including the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System. Respondent shall ensure adequate stock of all odor control products and supplies are maintained on site.

The Landfill Gas Treatment System (LFGTS) currently consists of four carbon adsorber vessels. Only three of the four vessels are online during normal operations with one vessel offline awaiting servicing

to replace spent media or on standby with fresh granular activated carbon media. A vessel is typically serviced every 4 to 8 weeks. Colorimetric tests are performed on the outlet of the operating vessels approximately weekly to determine if a vessel may require an adjustment to the flow or schedule service to replace the media.

H2S vessels will be changed out at a lower concentration. At the start of the reporting period (August 1, 2023), three vessels (ST-1, ST-2 and ST-3) were online processing the landfill gas. Vessel ST-4 was only partially opened initially on August 11, 2023 to control the rise in temperature of the outlet gas and was fully opened on August 17, 2023. Vessel ST-1 was closed on August 14, 2023 in preparation of media replacement. On August 22, 2023, the spent media was removed from Vessel ST-1 and fresh BG1 media was installed August 23, 2023. Vessel ST-1 was only partially opened initially on August 26, 2023 to control the rise in temperature of the outlet gas. All four vessels were online at the end of the reporting period (August 31, 2023). Due to the increase in temperature of the landfill gas when exposed to fresh media and to maintain at least three vessels online, Vessel ST-2 was slowly taken offline while Vessel ST-1 was slowly brought fully online. The media replacement for Vessel ST-2 was scheduled for the last week of August, but ultimately occurred on September 6 and 7, 2023. The next media replacement service has been scheduled for October 12 and 13, 2023.

Section E – Description of Problems or Delays

> **Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).**

Due to the increase in temperature of the landfill gas when exposed to fresh media, the new vessels have been slowly brought online to avoid damaging the fiber reinforced plastic (FRP) vessels. This delayed the media replacement scheduled for the last week of August to the first full week of September.

Section F – Specifications of Equipment and Materials for Weekly Colorimetric Tests

> **Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).**

The weekly colorimetric tests are completed with the Draeger Accuro 64000 bellows hand pump with either Draeger hydrogen sulfide colorimetric tubes Model 6728821 (2 to 20 ppm) or Model CH29801 (5 to 60 ppm). The specifications of the equipment and materials used for the colorimetric test was included in the initial weekly variance report provided on February 13, 2023 in Case No. 6177-3, as required under the previous emergency variance. There has been no change in the specifications since the previous report submitted under the emergency variance.

Section G – Wellhead Temperature Readings

> **All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format**

Wellhead temperature readings for the past month are included in **Attachment D**. Lab analysis and Draeger tube readings for the past month are included in **Attachment E**.

Section H – Graphic Map

> **A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.**

A graphic map with the above information is included in **Attachment F**. Volume of gas extraction in elevated temperature wells in the Reaction Area has been increased in order to help remove the accumulated heat in the waste mass. Additionally, de-watering pumps have been installed in elevated temperature wells as needed to increase the available perforations in high heat wells to further increase gas extraction. The de-watering pumps are also utilized to remove heat in the form of elevated temperature liquids from the waste.

Section I – Status of Vertical Liquid Impacted Landfill Gas Wells

> **All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.**
>
> > *Condition No. 17: Respondent shall expeditiously dewater wells being impacted by liquids, and shall take proactive measures to remove additional liquids in the Reaction Area to limit the reaction severity and spread. This shall be accomplished through the installation of dewatering sumps/pumps at 20 percent of the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area as determined by the DMS Committee within 60 days of the issuance of this Order, unless otherwise determined infeasible per Condition No. 17.a. below. Respondent shall provide updates in the monthly reports pursuant to Condition No. 8.*
> >
> > a. *In the event Respondent determines the installation of a dewatering sump/pump at a single landfill gas collection well to be infeasible, Respondent shall provide detailed rationale and reasoning in the monthly report submitted pursuant to Condition No. 8, and shall continue with implementation of the dewatering guidelines pursuant to Condition No. 18 to remove liquids to the maximum extent possible including to ensure installation across 20% of total landfill gas collection wells within the Reaction Area.*

Please note, SOFA Condition 8(i) references Condition No. 20, which is regarding the permit application for a new flare. Therefore, we believe this is the wrong reference and did not include it. Likely the correct reference is Condition No. 17, which requires CCL to expeditiously dewater wells being impacted by liquids. Condition No. 17 requires the DMS Committee to determine the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area by October 6, 2023. Given that the DMS Committee has yet to make this determination, identification of the worst liquid impaction issues is ongoing.

Well inspections/sounding to determine liquid impacts to vertical extraction wells is ongoing. Twenty-five (25) vertical wells were inspected in the month of August.

Remedial measures include the addition of liquids removal pumps. As of August 31, 2023, 10 pumps have been installed, and an additional thirty (30) pumps have been ordered. Associated materials for construction have also been ordered, including but not limited to, force-main and compressed air piping, isolation valves and air release valves, and tank infrastructure. The installation of pumps is ongoing as new vertical wells are being installed that are also becoming impacted by liquids.

Section J – Status of Investigation for Alternate Sulfur Compound Treatment Systems

Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternatives sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

SCS investigated the availability and viability of alternative sulfur compound treatment systems that control, treat or remove dimethyl sulfide and other sulfur compounds. A preliminary list of alternative treatment systems is included below:

- Oxidation by Hypochlorite
- Oxidation by Peroxide
- Oxidation by Potassium Permanganate
- Bentonite or Zeolite Media Impregnated with Metal
- Reaction with Iron
- Reaction with Copper
- Biotreatment with Sulfur-Reducing Bacteria (SRBs)

A preliminary assessment of these treatment technologies was included in Attachment D of the February 27, 2023 status update report, submitted in compliance with the interim variance. These technologies will be further investigated and updates will be included in subsequent reports.

In addition to the preliminary list of alternative treatment systems, SCS is investigating the use of a hydrogen re-former catalyst to convert all sulfur compounds to H_2S and oxidation by Sodium Hydroxide. A reaction with nickel alternative treatment has been investigated, but is not a preferred alternative as heat is required. Bench testing of stronger oxidation scrubbing solutions is ongoing to convert DMS to Dimethylsulfoxide (DMSO).

Testing of Oxidation by Hypochlorite is scheduled for early October using the liquid scrubbers with the temporary thermal oxidizer (TOX) located in the northwest area of the site.

A separate application for the modification of the LFG treatment system and Title V Revision was submitted to the SCAQMD on February 27, 2023. SCAQMD requested additional information, which was submitted to SCAQMD on April 21, 2023.

On March 30, 2023, SCS submitted to SCAQMD an application for operation of slip stream pilot tests to evaluate these alternative treatment systems. SCAQMD requested additional information, which was to be provided to SCAQMD by June 30, 2023.

The additional information was submitted on August 14, 2023, however, on August 8, 2023, SCAQMD rejected the LFG Treatment System modification applications (A/N 643714 and 643715). Therefore, additional research is being conducted per SCAQMD and applications will be submitted if needed.

Section K – SCS's Implemented Improvements

A summary report on SCS's implemented improvements to the landfill gas collection system.

In August, SCS installed eighteen (18) new vertical LFG extraction wells as of August 31, 2023, which were connected in September to either the existing Gas Collection and Control System (GCCS), or the TOX. In addition, one (1) new de-watering pump was installed in new and/or existing wells to remove water in wells impacted by liquids, to increase LFG recovery. The TOX was installed to improve LFG vacuum distribution to the west side of the well field and increase overall LFG recovery. Construction of the new flare FL-120 is underway as part of increasing control capacity.

Section L – Cover Inspections to the LFG Collection System

An inspection log for landfill cover inspections, pursuant to Condition No. 24.

> *Condition No. 24: Respondent shall visually inspect the landfill cover around the Reaction Area (as defined in Condition 9(a)) each operating day and shall promptly repair any cover issues identified, which may include adding and spreading soil, wetting, and retracking the damaged area. Respondent shall maintain a log demonstrating that it has addressed any damages to the landfill cover, including the date the damage was identified, the action taken to repair the damage, and the time at which the repair was completed. Results of the daily inspection and the repair log required by this condition shall be included in the monthly reports required pursuant to Condition No. 8.*

Routine cover inspections and repairs were performed throughout the month of August. A log of the inspections and repairs made was not maintained in August as the SOFA was not in place. Results of the daily inspection and the repair log will be provided in the monthly report for September.

Section M – Subsequent Additions to the LFG Collection System

Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

> *Condition No. 15: Respondent shall continue to evaluate and install, as needed, vertical dual extraction wells to collect both landfill gas and leachate. Respondent shall continue to expand the well-field as needed, and notify South Coast AQMD by October 31, 2023 of the number of wells added, attention to Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov). Any subsequent additions to the well-field shall be documented in the monthly reports pursuant to Condition 8.*

Eighteen (18) additional vertical LFG extraction wells have been installed and are operational as of August 31, 2023. Expansion of the well field, including but not limited to, additional vertical LFG extraction wells, header and lateral piping and associated valves, is on-going. South Coast AQMD

will be notified by October 31, 2023 of an updated list of new wells installed and subsequent additions will be documented in these monthly reports.

Section N – Additions to the LFG Condensate or Leachate Collection System

Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

Condition No. 18: Respondent shall, in addition to the installation of dewatering sumps/pumps specified in Condition No. 17 above, within ninety (90) days of the issuance of this Order, provide proposed Reaction Area dewatering guidelines and implementation procedures for the landfill to South Coast AQMD (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov)) that include but are not limited to the following:

a. Proposed methodologies and monitoring procedures that determine the level of dewatering within the Reaction Area (as defined in Condition 9(a)) wells impacted by liquid. Methods may include the measurement of the gas flow at each landfill gas collection well impacted by liquids;

b. Use of dewatering pumps or other methods to remove liquids from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

c. An implementation plan for the use of dewatering pumps or other methods to remove liquids from the Reaction Area wells impacted by liquids. The plan shall include a list of wells in the Reaction Area and depth where liquids are expected to impact landfill gas collection efficacy or be a concern, the proposed action to remove the liquids, and the schedule for liquid removal. The implementation plan shall also include pro-active measures, such as additional dewatering pumps, to be installed at landfill gas collection wells where liquid impaction issues have not yet occurred, but may be expected to occur.

d. Upgrades to the site leachate collection system as needed, including through the addition of increased air compressor and/or drain line infrastructure;

e. Protocols for the pumping and monitoring of dewatering pumps and other such methods to remove water from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

f. Well field liquid sounding in the Reaction Area (as defined in Condition 9(a)), and a proposed schedule for conducting liquid sounding on a consistent basis;

g. A timeline for appropriate reporting on impacted wells;

h. The feasibility of integrity testing of all vertical gas wells in the Reaction Area (as defined in Condition 9(a)) and a timeline and protocol for addressing any

wells that the integrity testing demonstrates are damaged or are exhibiting temperatures of at least 170 degrees Fahrenheit; and

i. A timeline for implementation of appropriate dewatering procedures upon discovery of wells impacted by liquids.

The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented within seven (7) days of South Coast AQMD approval.

Please note, SOFA Condition 8(n) references Condition No. 17, however, we believe the correct reference is Condition No. 18, which requires CCL to provide proposed Reaction Area dewatering guidelines and implementation procedures to SCAQMD by December 5, 2023. Future monthly reports will include any additional dewatering work performed pursuant to the forthcoming dewatering guidelines and implementation procedures.

In late August, twelve (12) additional 21,000-gallon leachate storage tanks were brought on site to receive the additional leachate to be pumped from the new vertical wells. Piping and valves were also installed to divert the existing west perimeter liquids to the new tank farm created with the new tanks.

The evaluation of vertical wells for the installation of dewatering pumps is ongoing. Prior to August 2023, there were nine (9) active wells with dewatering pumps. In the month of August, one (1) additional de-watering pump was installed in new well CV-2303 bringing the total to ten (10) dewatering pump installations.

Section O – Updates of the Geosynthetic Cover

Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

Condition No. 25: Respondent shall install a geosynthetic cover over western portions of Module 2B/3/4 Phase 2, Module 2B/3, and Module 4 to limit the migration of landfill gas from the site. Respondent shall submit the completed design for the cover, which will provide greater definition to the cover location, including associated landfill gas extraction infrastructure to be installed underneath the cover, to the South Coast AQMD by September 12, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)). Respondent shall then obtain and install the geosynthetic cover material of at least 30 mil thickness. Respondent shall notify South Coast AQMD by October 31, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)) on the progress of procuring and installing the geosynthetic cover. Respondent shall include updates on the procurement and installation of the geosynthetic cover in the monthly reports pursuant to Condition 8.

The completed design for the geosynthetic cover was submitted to SCAQMD on September 12, 2023 as required by Condition 25. South Coast AQMD will be notified by October 31, 2023 on the progress of procuring and installing the geosynthetic cover, and future monthly reports will include updates on its procurement and installation.

CLOSING

If you have any questions or need any additional information, please contact Cornelius Fong of SCS Field Services at (562) 743-7895 or either of the undersigned at (800) 326-9544.

Sincerely,

James J. Kim
Senior Project Professional
SCS Engineers

Gabrielle F. Stephens
Project Director
SCS Engineers

JJK/GFS/PSS

cc: Cornelius Fong, SCS Engineers; Steve Cassulo, Chiquita Canyon Landfill

Enclosures

Attachment A

Lab Analyses from the Reporting Period

AtmAA Inc.
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specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 1, 2023
Date Received: August 2, 2023
Date Analyzed: August 2, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22143-5
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	6.93
Carbonyl sulfide	1.66
Methyl mercaptan	6.30
Ethyl mercaptan	<0.50
Dimethyl sulfide	122
Carbon disulfide	0.57
i-Propyl mercaptan	0.78
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.74
s-Butyl mercaptan	2.62
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.96
Tetrahydrothiophene	1.63
Unidentified sulfurs	18.4
	(Concentration in ppmv, as H_2S)
Total Sulfur	180.1

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 1, 2023
Date Received: August 2, 2023
Date Analyzed: August 2, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	6.73	7.12	6.93	5.6
Carbonyl sulfide	FL-150	1.73	1.59	1.66	8.4
Methyl mercaptan	FL-150	6.15	6.44	6.30	4.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	122	122	122	0.00
Carbon disulfide	FL-150	0.51	0.62	0.57	19
i-Propyl mercaptan	FL-150	0.77	0.78	0.78	1.3
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.75	2.72	2.74	1 1
s-Butyl mercaptan	FL-150	2.60	2.63	2.62	1.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	8.42	7.50	7.96	12
Tetrahydrothiophene	FL-150	1.51	1.74	1.63	14
Unidentified sulfurs	FL-150	17.9	18.9	18.4	5.0

One Tedlar bag sample, laboratory number 22143-5, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 6.6%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 2, 2023
Date Received: August 2, 2023
Date Analyzed: August 2, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22143-6
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	18.4
Carbonyl sulfide	0.98
Methyl mercaptan	11.9
Ethyl mercaptan	<0.50
Dimethyl sulfide	125
Carbon disulfide	0.55
i-Propyl mercaptan	1.09
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.81
s-Butyl mercaptan	2.93
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.73
Tetrahydrothiophene	1.80
Unidentified sulfurs	14.0

(Concentration in ppmv, as H_2S)

Total Sulfur	191.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 2, 2023
Date Received: August 2, 2023
Date Analyzed: August 2, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	18.1	18.6	18.4	2.7
Carbonyl sulfide	FL-150	0.93	1.02	0.98	9.2
Methyl mercaptan	FL-150	11.8	11.9	11.9	0.84
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	124	126	125	1.6
Carbon disulfide	FL-150	0.50	0.59	0.55	17
i-Propyl mercaptan	FL-150	1.05	1.12	1.09	6.5
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.77	2.84	2.81	2.5
s-Butyl mercaptan	FL-150	2.80	3.06	2.93	8.9
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	5.49	5.96	5.73	8.2
Tetrahydrothiophene	FL-150	1.55	2.05	1.80	28
Unidentified sulfurs	FL-150	13.4	14.5	14.0	8.0

One Tedlar bag sample, laboratory number 22143-6, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 8.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22143-5	8/1/23	16:17	X						Filtered
											3 ppm H2S Reading
FL-150	Landfill gas	-6	8/2/23	8:10am	X						15 ppm H2S

Relinquished by: *(Signature)*	**Date** 8/2/23	**Time**	**Received by: *(Signature)***	**Date** 8/2/23 **Time** 9:20
Relinquished by: *(Signature)*	**Date** 8/2/23	**Time** 10:20	**Received by: *(Signature)***	**Date** **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by: *(Signature)*** AtmAA	**Date** 8/2/23 **Time** 10:20

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 3, 2023
Date Received: August 3, 2023
Date Analyzed: August 3, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22153-9
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	13.5
Carbonyl sulfide	1.03
Methyl mercaptan	11.7
Ethyl mercaptan	<0.50
Dimethyl sulfide	133
Carbon disulfide	<0.50
i-Propyl mercaptan	0.83
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.26
s-Butyl mercaptan	2.52
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.79
Tetrahydrothiophene	1.39
Unidentified sulfurs	13.0

(Concentration in ppmv, as H_2S)

Total Sulfur	190.2

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 3, 2023
Date Received: August 3, 2023
Date Analyzed: August 3, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	13.6	13.3	13.5	2.2
Carbonyl sulfide	FL-150	1.00	1.05	1.03	4.9
Methyl mercaptan	FL-150	11.2	12.1	11.7	7.7
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	129	136	133	5.3
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.81	0.85	0.83	4.8
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.20	2.32	2.26	5.3
s-Butyl mercaptan	FL-150	2.42	2.62	2.52	7.9
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	5.64	5.94	5.79	5.2
Tetrahydrothiophene	FL-150	1.39	1.39	1.39	0.00
Unidentified sulfurs	FL-150	12.6	13.4	13.0	6.2

One Tedlar bag sample, laboratory number 22153-9, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 5.0%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22153-9	8/3/23	09:37am	X						Filtered
											Report due _____
											H2S _____ PPM

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	8/3/23	10:52			
Relinquished by: *(Signature)*	**Date**	**Time**	**Received by: *(Signature)***	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by: *(Signature)***	**Date**	**Time**
			AtmAA	8/3/23	10:32

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 4, 2023
Date Received: August 4, 2023
Date Analyzed: August 4, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22163-4
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	11.7
Carbonyl sulfide	0.91
Methyl mercaptan	9.47
Ethyl mercaptan	<0.50
Dimethyl sulfide	142
Carbon disulfide	<0.50
i-Propyl mercaptan	0.66
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.02
s-Butyl mercaptan	2.20
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.00
Tetrahydrothiophene	1.23
Unidentified sulfurs	10.9

(Concentration in ppmv, as H_2S)

Total Sulfur	190.6

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 4, 2023
Date Received: August 4, 2023
Date Analyzed: August 4, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	11.7	11.7	11.7	0.00
Carbonyl sulfide	FL-150	0.89	0.92	0.91	3.3
Methyl mercaptan	FL-150	9.26	9.68	9.47	4.4
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	140	143	142	2.1
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.65	0.66	0.66	1.5
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.02	2.02	2.02	0.00
s-Butyl mercaptan	FL-150	2.21	2.19	2.20	0.91
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	5.19	4.80	5.00	7.8
Tetrahydrothiophene	FL-150	1.21	1.24	1.23	2.4
Unidentified sulfurs	FL-150	11.0	10.8	10.9	1.5

One Tedlar bag sample, laboratory number 22163-4, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 2.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22163-4	8/4/23	09:23am	X						Filtered
											Report due _____
											H2S _____ PPM

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Cage Johnson	8/4/23	09:50AM		8/4/23	10:12
Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
	8/4/23	1103			
Relinquished by: *(Signature)*	Date	Time	Received for Laboratory by: *(Signature)*	Date	Time
				8/4/23	11:03

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	Company:	SCS Engineers	AtmAA Inc.
Street Address	3900 Kilroy Airport Way Suite 100	Street Address	3900 Kilroy Airport Way Suite 100	23917 Craftsman Rd.
City/State/Zip:	Long Beach / CA / 90806	City/State/Zip:	Long Beach / CA / 90806	Calabasas, CA 91302
Telephone No.:	562-743-7895 /562-335-0002	Project Manager:	Cornelius Fong	TEL: (818) 223-3277
Fax No.:		Email Address:	CFong@scsengineers.com	FAX: (818) 223-8250

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 5, 2023
Date Received: August 5, 2023
Date Analyzed: August 5, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22173-3
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	18.3
Carbonyl sulfide	0.91
Methyl mercaptan	13.0
Ethyl mercaptan	<0.50
Dimethyl sulfide	140
Carbon disulfide	<0.50
i-Propyl mercaptan	1.09
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.05
s-Butyl mercaptan	2.90
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.44
Tetrahydrothiophene	1.76
Unidentified sulfurs	15.6
	(Concentration in ppmv, as H_2S)
Total Sulfur	206.9

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 5, 2023
Date Received: August 5, 2023
Date Analyzed: August 5, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	18.2	18.4	18.3	1.1
Carbonyl sulfide	FL-150	0.88	0.93	0.91	5.5
Methyl mercaptan	FL-150	13.0	13.0	13.0	0.00
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	138	141	140	2.2
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.10	1.07	1.09	2.8
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.09	3.00	3.05	3.0
s-Butyl mercaptan	FL-150	2.94	2.86	2.90	2.8
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	5.83	5.04	5.44	15
Tetrahydrothiophene	FL-150	1.87	1.64	1.76	13
Unidentified sulfurs	FL-150	15.7	15.5	15.6	1.3

One Tedlar bag sample, laboratory number 22173-3, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.6%.

CHAIN OF CUSTODY RECORD

Client/Project Name: SCS Engineers/Chiquita	**Project Location:** CASTAIC, CA
Project Number: 07214017.91 TASK 2	**Field Logbook Number:**
Sampler: (Signature)	**Turnaround Times:** Standard 10 day **Expedited:** 24hr / 48hr / 72hr / 5 day

ANALYSES REQUESTED

Client Sample Identification	Type of Sample Canister ID	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Land Fill Gas	22173-3	8/5/23	8:20AM	X						Filtered
											17 PPM H2S

Relinquished by: (Signature)	**Date** 8/5/23	**Time** 9:00AM	**Received by: (Signature)**	**Date** 8/5/23 **Time** 9:00
Relinquished by: (Signature)	**Date** 8/5/23	**Time** 9:36	**Received by: (Signature)**	**Date** **Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)**	**Date** 8/5/23 **Time** 9:36

Company Info:	**Send Report to:**	**Analytical Laboratory**
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Suit 100	**Street Address**	**23917 Craftsman Rd.**
City/State/Zip: Long Beach/CA/90806	**City/State/Zip:**	**Calabasas, CA 91302**
Telephone No.: 562-743-7895	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Email Address:	**Email Address:** CFong@scsengineers	**Email Address: info@atmaa.com**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 6, 2023
Date Received: August 7, 2023
Date Analyzed: August 7, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22193-8
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	5.72
Carbonyl sulfide	1.30
Methyl mercaptan	6.25
Ethyl mercaptan	<0.50
Dimethyl sulfide	144
Carbon disulfide	0.62
i-Propyl mercaptan	0.68
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.99
s-Butyl mercaptan	2.68
i-Butyl mercaptan	<0.50
Dimethyl disulfide	9.16
Tetrahydrothiophene	1.84
Unidentified sulfurs	24.8

(Concentration in ppmv, as H_2S)

Total Sulfur	209.2

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 6, 2023
Date Received: August 7, 2023
Date Analyzed: August 7, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	5.49	5.95	5.72	8.0
Carbonyl sulfide	FL-150	1.30	1.30	1.30	0.00
Methyl mercaptan	FL-150	6.06	6.43	6.25	5.9
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	140	147	144	4.9
Carbon disulfide	FL-150	0.64	0.60	0.62	6.5
i-Propyl mercaptan	FL-150	0.68	0.67	0.68	1.5
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.02	2.96	2.99	2.0
s-Butyl mercaptan	FL-150	2.66	2.69	2.68	1.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	9.62	8.69	9.16	10
Tetrahydrothiophene	FL-150	1.88	1.79	1.84	4.9
Unidentified sulfurs	FL-150	23.8	25.7	24.8	7.5

One Tedlar bag sample, laboratory number 22193-8, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 4.8%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 7, 2023
Date Received: August 7, 2023
Date Analyzed: August 7, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22193-9
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	23.9
Carbonyl sulfide	0.91
Methyl mercaptan	18.0
Ethyl mercaptan	0.59
Dimethyl sulfide	162
Carbon disulfide	0.55
i-Propyl mercaptan	1.17
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.25
s-Butyl mercaptan	3.23
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.72
Tetrahydrothiophene	1.97
Unidentified sulfurs	21.2

(Concentration in ppmv, as H_2S)

Total Sulfur	250.7

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 7, 2023
Date Received: August 7, 2023
Date Analyzed: August 7, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	23.9	23.9	23.9	0.00
Carbonyl sulfide	FL-150	0.92	0.89	0.91	3.3
Methyl mercaptan	FL-150	18.2	17.8	18.0	2.2
Ethyl mercaptan	FL-150	0.60	0.57	0.59	5.1
Dimethyl sulfide	FL-150	162	162	162	0.00
Carbon disulfide	FL-150	0.55	<0.50	---	---
i-Propyl mercaptan	FL-150	1.19	1.14	1.17	4.3
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.32	3.18	3.25	4.3
s-Butyl mercaptan	FL-150	3.30	3.15	3.23	4.7
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.03	6.40	6.72	9.4
Tetrahydrothiophene	FL-150	2.07	1.87	1.97	10
Unidentified sulfurs	FL-150	21.4	20.9	21.2	2.4

One Tedlar bag sample, laboratory number 22193-9, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 4.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: (Signature)	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22193-8	8/6/23	2:25pm	X						Filtered 3ppm
FL-150	Landfill Gas	-9	8/7/23	9:20am	X						Filtered 20ppm

ANALYSES REQUESTED

Relinquished by: (Signature)	Date 8/7/23	Time 10:17am	Received by: (Signature) LUIS FARFAN	Date 8/7/23	Time 10:17
Relinquished by: (Signature) LUIS FARFAN	Date 8/7/23	Time 11:05	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature) AtmAA	Date 8/7/23	Time 11:05

Company Info:		Send Report to:	
Company:	SCS Engineers	Company:	SCS Engineers
Street Address	3900 Kilroy Airport Way Suite 100	Street Address	3900 Kilroy Airport Way Suite 100
City/State/Zip:	Long Beach / CA / 90806	City/State/Zip:	Long Beach / CA / 90806
Telephone No.:	562-743-7895 /562-335-0002	Project Manager:	Cornelius Fong
Fax No.:		Email Address:	CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302
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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 8, 2023
Date Received: August 9, 2023
Date Analyzed: August 9, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22213-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	9.03
Carbonyl sulfide	1.15
Methyl mercaptan	9.39
Ethyl mercaptan	<0.50
Dimethyl sulfide	139
Carbon disulfide	0.52
i-Propyl mercaptan	0.73
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.50
s-Butyl mercaptan	2.34
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.85
Tetrahydrothiophene	1.44
Unidentified sulfurs	16.5
	(Concentration in ppmv, as H_2S)
Total Sulfur	196.8

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 8, 2023
Date Received: August 9, 2023
Date Analyzed: August 9, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	8.99	9.07	9.03	0.89
Carbonyl sulfide	FL-150	1.11	1.18	1.15	6.1
Methyl mercaptan	FL-150	9.42	9.36	9.39	0.64
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	142	136	139	4.3
Carbon disulfide	FL-150	0.52	<0.50	---	---
i-Propyl mercaptan	FL-150	0.75	0.71	0.73	5.5
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.46	2.53	2.50	2.8
s-Butyl mercaptan	FL-150	2.35	2.32	2.34	1.3
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.87	6.82	6.85	0.73
Tetrahydrothiophene	FL-150	1.54	1.34	1.44	14
Unidentified sulfurs	FL-150	16.2	16.9	16.5	3.9

One Tedlar bag sample, laboratory number 22213-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.0%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 9, 2023
Date Received: August 9, 2023
Date Analyzed: August 9, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22213-2
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	34.9
Carbonyl sulfide	0.75
Methyl mercaptan	19.0
Ethyl mercaptan	0.50
Dimethyl sulfide	146
Carbon disulfide	<0.50
i-Propyl mercaptan	0.93
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.39
s-Butyl mercaptan	2.49
i-Butyl mercaptan	<0.50
Dimethyl disulfide	4.25
Tetrahydrothiophene	1.34
Unidentified sulfurs	13.3
	(Concentration in ppmv, as H_2S)
Total Sulfur	229.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 9, 2023
Date Received: August 9, 2023
Date Analyzed: August 9, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	34.8	34.9	34.9	0.29
Carbonyl sulfide	FL-150	0.74	0.75	0.75	1.3
Methyl mercaptan	FL-150	18.5	19.5	19.0	5.3
Ethyl mercaptan	FL-150	0.50	0.50	0.50	0.00
Dimethyl sulfide	FL-150	141	150	146	6.2
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.89	0.96	0.93	7.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.33	2.45	2.39	5.0
s-Butyl mercaptan	FL-150	2.42	2.55	2.49	5.2
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	4.03	4.46	4.25	10
Tetrahydrothiophene	FL-150	1.38	1.29	1.34	6.7
Unidentified sulfurs	FL-150	12.7	13.9	13.3	9.2

One Tedlar bag sample, laboratory number 22213-2, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 5.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)* Eric Castro	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150	Landfill Gas	22213-1	8/8/23	5:15 PM	X	Filtered/ H2S 5 ppm
FL-150	Landfill Gas	-2	8/9/23	8:55 AM	X	Filtered/ H2S 3 ppm

Relinquished by: *(Signature)* Eric Castro	**Date** 8/9/23	**Time** 10:31	**Received by: *(Signature)*** LUIS FARFAN	**Date** 8/9/23 **Time** 10:31
Relinquished by: *(Signature)* LUIS FARFAN	**Date** 8/9/23	**Time** 11:26	**Received by: *(Signature)***	**Date** **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by: *(Signature)*** AtmAA	**Date** 8/9/23 **Time** 11:26

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 10, 2023
Date Received: August 11, 2023
Date Analyzed: August 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22233-3
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	15.5
Carbonyl sulfide	1.50
Methyl mercaptan	12.9
Ethyl mercaptan	<0.50
Dimethyl sulfide	149
Carbon disulfide	<0.50
i-Propyl mercaptan	0.70
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	1.94
s-Butyl mercaptan	2.07
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.96
Tetrahydrothiophene	1.15
Unidentified sulfurs	17.3
	(Concentration in ppmv, as H_2S)
Total Sulfur	215.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 10, 2023
Date Received: August 11, 2023
Date Analyzed: August 11, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	16.0	14.9	15.5	7.1
Carbonyl sulfide	FL-150	1.30	1.70	1.50	27
Methyl mercaptan	FL-150	13.4	12.3	12.9	8.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	152	145	149	4.7
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.74	0.65	0.70	13
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.09	1.78	1.94	16
s-Butyl mercaptan	FL-150	2.24	1.90	2.07	16
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.32	6.59	6.96	10
Tetrahydrothiophene	FL-150	1.25	1.05	1.15	17
Unidentified sulfurs	FL-150	18.0	16.6	17.3	8.0

One Tedlar bag sample, laboratory number 22233-3, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 13%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 19, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 11, 2023
Date Received: August 11, 2023
Date Analyzed: August 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22233-4
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	25.6
Carbonyl sulfide	1.19
Methyl mercaptan	17.8
Ethyl mercaptan	<0.50
Dimethyl sulfide	170
Carbon disulfide	<0.50
i-Propyl mercaptan	0.69
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.22
s-Butyl mercaptan	2.20
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.46
Tetrahydrothiophene	0.94
Unidentified sulfurs	7.01

(Concentration in ppmv, as H_2S)

Total Sulfur	238.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 11, 2023
Date Received: August 11, 2023
Date Analyzed: August 11, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	26.1	25.1	25.6	3.9
Carbonyl sulfide	FL-150	1.18	1.19	1.19	0.84
Methyl mercaptan	FL-150	18.0	17.6	17.8	2.2
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	167	173	170	3.5
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.63	0.74	0.69	16
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.04	2.40	2.22	16
s-Butyl mercaptan	FL-150	2.05	2.34	2.20	13
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	5.49	5.42	5.46	1.3
Tetrahydrothiophene	FL-150	0.85	1.03	0.94	19
Unidentified sulfurs	FL-150	6.30	7.72	7.01	20

One Tedlar bag sample, laboratory number 22233-4, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 9.7%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: (Signature)	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22233-3	8/10/23	5:10pm	X						Filtered 13ppm H_2S
FL-150	Landfill Gas	-4	8/11/23	8:50Am	X						Filtered 30ppm H_2S

ANALYSES REQUESTED

Relinquished by: (Signature)	**Date** 8/11/23	**Time** 10:00AM	**Received by: (Signature)** LUIS FARFAN	**Date** 8/11/23	**Time** 10:02
Relinquished by: (Signature) LUIS FARFAN	**Date** 8/11/23	**Time** 10:51	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)** AtmAA	**Date** 8/11/23	**Time** 10:57

Company Info:

Company: SCS Engineers
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City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 12, 2023
Date Received: August 12, 2023
Date Analyzed: August 12, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22243-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	31.2
Carbonyl sulfide	0.91
Methyl mercaptan	19.2
Ethyl mercaptan	<0.50
Dimethyl sulfide	146
Carbon disulfide	<0.50
i-Propyl mercaptan	0.95
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.32
s-Butyl mercaptan	2.53
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.06
Tetrahydrothiophene	1.35
Unidentified sulfurs	9.98
	(Concentration in ppmv, as H_2S)
Total Sulfur	225.9

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 12, 2023
Date Received: August 12, 2023
Date Analyzed: August 12, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	31.6	30.7	31.2	2.9
Carbonyl sulfide	FL-150	0.92	0.89	0.91	3.3
Methyl mercaptan	FL-150	19.6	18.7	19.2	4.7
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	147	144	146	2.1
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.06	0.83	0.95	24
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.53	2.10	2.32	19
s-Butyl mercaptan	FL-150	2.70	2.35	2.53	14
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.29	5.82	6.06	7.8
Tetrahydrothiophene	FL-150	1.54	1.16	1.35	28
Unidentified sulfurs	FL-150	10.5	9.47	9.98	10

One Tedlar bag sample, laboratory number 22243-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 11%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22243-1	8/12/23	07:40A	X						Filtered

	Date	Time		Date	Time
Relinquished by: *(Signature)*	8/12/23	09:18Am	**Received by:** *(Signature)* LUIS FARFAN	8/12/23	9:19
Relinquished by: *(Signature)* LUIS FARFAN	8/12/23	10:17	**Received by:** *(Signature)*		
Relinquished by: *(Signature)*			**Received for Laboratory by:** *(Signature)*	8/12/23	10:17

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
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Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 13, 2023
Date Received: August 14, 2023
Date Analyzed: August 14, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22263-5
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	14.5
Carbonyl sulfide	1.16
Methyl mercaptan	14.8
Ethyl mercaptan	<0.50
Dimethyl sulfide	180
Carbon disulfide	<0.50
i-Propyl mercaptan	0.69
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.02
s-Butyl mercaptan	2.02
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.14
Tetrahydrothiophene	1.19
Unidentified sulfurs	14.1

(Concentration in ppmv, as H_2S)

Total Sulfur	244.2

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 13, 2023
Date Received: August 14, 2023
Date Analyzed: August 14, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	14.6	14.3	14.5	2.1
Carbonyl sulfide	FL-150	1.16	1.15	1.16	0.87
Methyl mercaptan	FL-150	14.5	15.1	14.8	4.1
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	174	185	180	6.1
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.64	0.74	0.69	14
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.85	2.18	2.02	16
s-Butyl mercaptan	FL-150	1.87	2.17	2.02	15
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.87	7.41	7.14	7.6
Tetrahydrothiophene	FL-150	1.12	1.26	1.19	12
Unidentified sulfurs	FL-150	14.7	13.6	14.1	7.4

One Tedlar bag sample, laboratory number 22263-5, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 8.6%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 14, 2023
Date Received: August 14, 2023
Date Analyzed: August 14, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22263-6
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	30.8
Carbonyl sulfide	0.96
Methyl mercaptan	20.5
Ethyl mercaptan	<0.50
Dimethyl sulfide	180
Carbon disulfide	<0.50
i-Propyl mercaptan	0.82
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.15
s-Butyl mercaptan	2.52
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.02
Tetrahydrothiophene	1.19
Unidentified sulfurs	8.33

(Concentration in ppmv, as H_2S)

Total Sulfur	260.7

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 14, 2023
Date Received: August 14, 2023
Date Analyzed: August 14, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	31.2	30.4	30.8	2.6
Carbonyl sulfide	FL-150	1.00	0.91	0.96	9.4
Methyl mercaptan	FL-150	20.9	20.0	20.5	4.4
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	178	181	180	1.7
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.80	0.84	0.82	4.9
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.09	2.21	2.15	5.6
s-Butyl mercaptan	FL-150	2.48	2.55	2.52	2.8
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.89	7.15	7.02	3.7
Tetrahydrothiophene	FL-150	1.23	1.14	1.19	7.6
Unidentified sulfurs	FL-150	8.33	8.33	8.33	0.11

One Tedlar bag sample, laboratory number 22263-6, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.3%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22263-5	8/13/23	3:50pm	X						Filtered 35 ppm
FL-150	Landfill Gas	-6	8/14/23	6:55am	X						Filtered 32 ppm

Relinquished by: *(Signature)*	**Date** 8-14-23	**Time** 9:44am	**Received by:** *(Signature)*	**Date** 8/14/23	**Time** 0944
Relinquished by: *(Signature)*	**Date** 8/14/23	**Time** 1039	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)*	**Date** 8-14-23	**Time** 10:39

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 15, 2023
Date Received: August 16, 2023
Date Analyzed: August 16, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22283-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	13.8
Carbonyl sulfide	1.06
Methyl mercaptan	17.8
Ethyl mercaptan	<0.50
Dimethyl sulfide	186
Carbon disulfide	<0.50
i-Propyl mercaptan	0.77
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.31
s-Butyl mercaptan	2.48
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.68
Tetrahydrothiophene	1.33
Unidentified sulfurs	16.4
	(Concentration in ppmv, as H_2S)
Total Sulfur	253.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 15, 2023
Date Received: August 16, 2023
Date Analyzed: August 16, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	13.9	13.6	13.8	2.2
Carbonyl sulfide	FL-150	1.01	1.10	1.06	8.5
Methyl mercaptan	FL-150	17.8	17.8	17.8	0.00
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	184	188	186	2.2
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.73	0.81	0.77	10
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.09	2.53	2.31	19
s-Butyl mercaptan	FL-150	2.25	2.70	2.48	18
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	5.25	6.10	5.68	15
Tetrahydrothiophene	FL-150	1.20	1.46	1.33	20
Unidentified sulfurs	FL-150	15.6	17.3	16.4	11

One Tedlar bag sample, laboratory number 22283-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 10%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 16, 2023
Date Received: August 16, 2023
Date Analyzed: August 16, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22283-2
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	29.6
Carbonyl sulfide	1.09
Methyl mercaptan	21.0
Ethyl mercaptan	<0.50
Dimethyl sulfide	161
Carbon disulfide	<0.50
i-Propyl mercaptan	0.78
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	1.83
s-Butyl mercaptan	2.19
i-Butyl mercaptan	<0.50
Dimethyl disulfide	3.32
Tetrahydrothiophene	1.11
Unidentified sulfurs	8.80
	(Concentration in ppmv, as H_2S)
Total Sulfur	233.9

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 16, 2023
Date Received: August 16, 2023
Date Analyzed: August 16, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	30.1	29.0	29.6	3.7
Carbonyl sulfide	FL-150	1.10	1.08	1.09	1.8
Methyl mercaptan	FL-150	21.5	20.4	21.0	5.3
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	162	160	161	1.2
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.81	0.74	0.78	9.0
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.78	1.87	1.83	4.9
s-Butyl mercaptan	FL-150	2.12	2.26	2.19	6.4
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	3.24	3.40	3.32	4.8
Tetrahydrothiophene	FL-150	1.07	1.14	1.11	6.3
Unidentified sulfurs	FL-150	8.92	8.69	8.80	2.6

One Tedlar bag sample, laboratory number 22283-2, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.6%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22283-1	8-15-23	4:40pm	X						Filtered 11ppm
FL-150	Landfill Gas	-2	8-16-23	9:25am	X						Filtered 27ppm

	Date	Time		Date	Time
Relinquished by: *(Signature)*	8-16-23	10:09am	**Received by:** *(Signature)*	8:16-23	10:09
Relinquished by: *(Signature)*	8/16-23	1103	**Received by:** *(Signature)*		
Relinquished by: *(Signature)*	8/16/23	11:03	**Received for Laboratory by:** *(Signature)*	8/16/23	11:07

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 17, 2023
Date Received: August 18, 2023
Date Analyzed: August 18, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22303-4
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	15.7
Carbonyl sulfide	1.17
Methyl mercaptan	18.0
Ethyl mercaptan	<0.50
Dimethyl sulfide	197
Carbon disulfide	<0.50
i-Propyl mercaptan	0.71
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.15
s-Butyl mercaptan	2.18
i-Butyl mercaptan	<0.50
Dimethyl disulfide	3.69
Tetrahydrothiophene	1.22
Unidentified sulfurs	11.6

(Concentration in ppmv, as H_2S)

Total Sulfur	257.1

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 17, 2023
Date Received: August 18, 2023
Date Analyzed: August 18, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	15.8	15.6	15.7	1.3
Carbonyl sulfide	FL-150	1.16	1.18	1.17	1.7
Methyl mercaptan	FL-150	18.5	17.5	18.0	5.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	203	191	197	6.1
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.73	0.69	0.71	5.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.28	2.02	2.15	12
s-Butyl mercaptan	FL-150	2.35	2.00	2.18	16
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	3.98	3.40	3.69	16
Tetrahydrothiophene	FL-150	1.29	1.14	1.22	12
Unidentified sulfurs	FL-150	12.0	11.2	11.6	7.5

One Tedlar bag sample, laboratory number 22303-4, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 8.4%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 18, 2023
Date Received: August 18, 2023
Date Analyzed: August 18, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22303-5
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	31.5
Carbonyl sulfide	1.06
Methyl mercaptan	21.3
Ethyl mercaptan	<0.50
Dimethyl sulfide	184
Carbon disulfide	<0.50
i-Propyl mercaptan	0.72
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.04
s-Butyl mercaptan	2.14
i-Butyl mercaptan	<0.50
Dimethyl disulfide	2.80
Tetrahydrothiophene	1.05
Unidentified sulfurs	9.01

(Concentration in ppmv, as H_2S)

Total Sulfur	257.8

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 18, 2023
Date Received: August 18, 2023
Date Analyzed: August 18, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	31.2	31.7	31.5	1.6
Carbonyl sulfide	FL-150	1.08	1.03	1.06	4.7
Methyl mercaptan	FL-150	20.8	21.8	21.3	4.7
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	180	187	184	3.8
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.74	0.69	0.72	7.0
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.98	2.10	2.04	5.9
s-Butyl mercaptan	FL-150	2.03	2.25	2.14	10
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	2.63	2.96	2.80	12
Tetrahydrothiophene	FL-150	1.02	1.07	1.05	4.8
Unidentified sulfurs	FL-150	8.57	9.46	9.01	9.9

One Tedlar bag sample, laboratory number 22303-5, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 6.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22303-4	8/17/23	3:48pm	X						Filtered 13ppm H_2S
FL-150	Landfill Gas	-5	8/18/23	9:10 AM	X						Filtered 30 ppm H_2S

	Date	Time		Date	Time
Relinquished by: *(Signature)*	8/18/23	10709 am	**Received by:** *(Signature)* LUIS FARFAN	8/18/23	10:10
Relinquished by: *(Signature)* LUIS FARFAN	8/18/23	10:57	**Received by:** *(Signature)*		
Relinquished by: *(Signature)*			**Received for Laboratory by:** *(Signature)* AtmAA	8/18/23	10:57

Company Info:

Company:	SCS Engineers
Street Address	3900 Kilroy Airport Way Suite 100
City/State/Zip:	Long Beach / CA / 90806
Telephone No.:	562-743-7895 /562-335-0002
Fax No.:	

Send Report to:

Company:	SCS Engineers
Street Address	3900 Kilroy Airport Way Suite 100
City/State/Zip:	Long Beach / CA / 90806
Project Manager:	Cornelius Fong
Email Address:	CFong@scsengineers.com

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 19, 2023
Date Received: August 19, 2023
Date Analyzed: August 19, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22313-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	18.4
Carbonyl sulfide	0.99
Methyl mercaptan	12.7
Ethyl mercaptan	<0.50
Dimethyl sulfide	173
Carbon disulfide	<0.50
i-Propyl mercaptan	0.55
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.17
s-Butyl mercaptan	2.25
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.29
Tetrahydrothiophene	1.17
Unidentified sulfurs	6.38

(Concentration in ppmv, as H_2S)

Total Sulfur	229.7

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 19, 2023
Date Received: August 19, 2023
Date Analyzed: August 19, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	19.0	17.8	18.4	6.5
Carbonyl sulfide	FL-150	0.97	1.01	0.99	4.0
Methyl mercaptan	FL-150	12.8	12.6	12.7	1.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	172	173	173	0.58
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.56	0.54	0.55	3.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.23	2.10	2.17	6.0
s-Butyl mercaptan	FL-150	2.34	2.15	2.25	8.5
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.39	6.18	6.29	3.3
Tetrahydrothiophene	FL-150	1.20	1.13	1.17	6.0
Unidentified sulfurs	FL-150	6.59	6.18	6.38	6.5

One Tedlar bag sample, laboratory number 22313-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.7%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22313-1	8-19-23	8:20 am	X						Filtered
											17 ppm H2S

ANALYSES REQUESTED

Relinquished by: *(Signature)* - Eugene Maynard	Date 8-19-23	Time 8:15	Received by: *(Signature)*	Date 8/19/23	Time 0853
Relinquished by: *(Signature)*	Date 8/19/23	Time 0940	Received by: *(Signature)*	Date	Time
Relinquished by: *(Signature)*	Date	Time	Received for Laboratory by: *(Signature)*	Date 8/19/23	Time 9:40

Company Info:

Company: SCS Engineers
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Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 20, 2023
Date Received: August 21, 2023
Date Analyzed: August 21, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22333-1
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	28.2
Carbonyl sulfide	1.21
Methyl mercaptan	17.4
Ethyl mercaptan	<0.50
Dimethyl sulfide	191
Carbon disulfide	<0.50
i-Propyl mercaptan	0.62
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.23
s-Butyl mercaptan	2.46
i-Butyl mercaptan	<0.50
Dimethyl disulfide	4.73
Tetrahydrothiophene	1.41
Unidentified sulfurs	6.76
	(Concentration in ppmv, as H_2S)
Total Sulfur	260.1

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 20, 2023
Date Received: August 21, 2023
Date Analyzed: August 21, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	28.6	27.7	28.2	3.2
Carbonyl sulfide	FL-150	1.13	1.28	1.21	12
Methyl mercaptan	FL-150	17.0	17.7	17.4	4.0
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	182	199	191	8.9
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.59	0.64	0.62	8.1
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.99	2.46	2.23	21
s-Butyl mercaptan	FL-150	2.23	2.68	2.46	18
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	4.42	5.03	4.73	13
Tetrahydrothiophene	FL-150	1.38	1.44	1.41	4.3
Unidentified sulfurs	FL-150	6.16	7.37	6.76	18

One Tedlar bag sample, laboratory number 22333-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 11%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: August 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 21, 2023
Date Received: August 21, 2023
Date Analyzed: August 21, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22333-2
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	30.8
Carbonyl sulfide	0.97
Methyl mercaptan	14.6
Ethyl mercaptan	<0.50
Dimethyl sulfide	170
Carbon disulfide	<0.50
i-Propyl mercaptan	0.55
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	1.81
s-Butyl mercaptan	1.95
i-Butyl mercaptan	<0.50
Dimethyl disulfide	3.56
Tetrahydrothiophene	0.97
Unidentified sulfurs	7.85

(Concentration in ppmv, as H_2S)

Total Sulfur	236.1

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 21, 2023
Date Received: August 21, 2023
Date Analyzed: August 21, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	32.0	29.5	30.8	8.1
Carbonyl sulfide	FL-150	0.99	0.94	0.97	5.2
Methyl mercaptan	FL-150	15.0	14.2	14.6	5.5
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	166	173	170	4.1
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.55	0.55	0.55	0.00
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.77	1.85	1.81	4.4
s-Butyl mercaptan	FL-150	1.90	2.00	1.95	5.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	3.44	3.68	3.56	6.7
Tetrahydrothiophene	FL-150	0.95	0.99	0.97	4.1
Unidentified sulfurs	FL-150	7.65	8.05	7.85	5.2

One Tedlar bag sample, laboratory number 22333-2, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.8%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22333-1	8/20/23	12:12PM	X						Filtered / 29PPM
FL-150	Landfill Gas	-2	8/21/23	8:30AM	X						Filtered / 35PPM

Relinquished by: *(Signature)*	**Date** 8/21/23	**Time** 10:26AM	**Received by:** *(Signature)* LUIS FARFAN	**Date** 8/21/23 **Time** 10:26
Relinquished by: *(Signature)* LUIS FARFAN	**Date** 8/21/23	**Time** 11:08	**Received by:** *(Signature)*	**Date** **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)*	**Date** 8/21/23 **Time** 11:08

Company Info:

Company: SCS Engineers
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City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	August 25, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	August 22, 2023
Date Received:	August 23, 2023
Date Analyzed:	August 23, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22353-10
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	21.1
Carbonyl sulfide	1.28
Methyl mercaptan	11.3
Ethyl mercaptan	<0.50
Dimethyl sulfide	164
Carbon disulfide	<0.50
i-Propyl mercaptan	0.70
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.34
s-Butyl mercaptan	2.07
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.57
Tetrahydrothiophene	1.22
Unidentified sulfurs	16.5
	(Concentration in ppmv, as H_2S)
Total Sulfur	233.7

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 22, 2023
Date Received: August 23, 2023
Date Analyzed: August 23, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	21.0	21.2	21.1	0.95
Carbonyl sulfide	FL-150	1.28	1.27	1.28	0.78
Methyl mercaptan	FL-150	11.2	11.4	11.3	1.8
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	161	167	164	3.7
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.70	0.70	0.70	0.00
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.34	2.33	2.34	0.43
s-Butyl mercaptan	FL-150	2.10	2.04	2.07	2.9
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.44	6.70	6.57	4.0
Tetrahydrothiophene	FL-150	1.24	1.19	1.22	4.1
Unidentified sulfurs	FL-150	16.3	16.8	16.5	3.2

One Tedlar bag sample, laboratory number 22353-10, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 2.2%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	August 25, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	August 23, 2023
Date Received:	August 23, 2023
Date Analyzed:	August 23, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22353-11
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	29.4
Carbonyl sulfide	1.30
Methyl mercaptan	16.6
Ethyl mercaptan	<0.50
Dimethyl sulfide	198
Carbon disulfide	<0.50
i-Propyl mercaptan	0.79
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.98
s-Butyl mercaptan	2.95
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.32
Tetrahydrothiophene	1.72
Unidentified sulfurs	14.7
	(Concentration in ppmv, as H_2S)
Total Sulfur	281.0

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 23, 2023
Date Received: August 23, 2023
Date Analyzed: August 23, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	28.8	29.9	29.4	3.7
Carbonyl sulfide	FL-150	1.31	1.28	1.30	2.3
Methyl mercaptan	FL-150	16.6	16.6	16.6	0.00
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	199	197	198	1.0
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.82	0.76	0.79	7.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.06	2.90	2.98	5.4
s-Butyl mercaptan	FL-150	3.06	2.83	2.95	7.8
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.37	6.26	6.32	1.7
Tetrahydrothiophene	FL-150	1.84	1.60	1.72	14
Unidentified sulfurs	FL-150	15.0	14.4	14.7	3.9

One Tedlar bag sample, laboratory number 22353-11, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.7%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150	Landfill Gas	22353-10	8-22-23	6:00PM	X	Filtered H_2S Reading 20 ppm
FL-150	Landfill Gas	-11	8-23-23	9:10PM	X	Filtered H_2S Reading 28 ppm

	Date	Time		Date	Time
Relinquished by: *(Signature)*	8-23-23	9:56 am	**Received by: *(Signature)***	8/23/23	0956
Relinquished by: *(Signature)*	8/23/23	1046	**Received by: *(Signature)***		
Relinquished by: *(Signature)*			**Received for Laboratory by: *(Signature)***	8/23/23	10:46

Company Info:

Company: SCS Engineers
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City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	September 5, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	August 24, 2023
Date Received:	August 25, 2023
Date Analyzed:	August 25, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22373-6
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	22.4
Carbonyl sulfide	0.85
Methyl mercaptan	9.01
Ethyl mercaptan	<0.50
Dimethyl sulfide	139
Carbon disulfide	<0.50
i-Propyl mercaptan	0.77
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.53
s-Butyl mercaptan	2.47
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.15
Tetrahydrothiophene	1.29
Unidentified sulfurs	14.9

(Concentration in ppmv, as H_2S)

Total Sulfur	205.4

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 24, 2023
Date Received: August 25, 2023
Date Analyzed: August 25, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	22.5	22.2	22.4	1.3
Carbonyl sulfide	FL-150	0.85	0.84	0.85	1.2
Methyl mercaptan	FL-150	9.12	8.89	9.01	2.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	139	139	139	0.00
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.77	0.76	0.77	1.3
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.55	2.50	2.53	2.0
s-Butyl mercaptan	FL-150	2.49	2.45	2.47	1.6
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.55	5.74	6.15	13
Tetrahydrothiophene	FL-150	1.30	1.27	1.29	2.3
Unidentified sulfurs	FL-150	14.6	15.1	14.9	3.4

One Tedlar bag sample, laboratory number 22373-6, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 2.9%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	September 5, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	August 25, 2023
Date Received:	August 25, 2023
Date Analyzed:	August 25, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22373-7
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	30.7
Carbonyl sulfide	0.67
Methyl mercaptan	10.8
Ethyl mercaptan	<0.50
Dimethyl sulfide	131
Carbon disulfide	<0.50
i-Propyl mercaptan	0.71
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.16
s-Butyl mercaptan	2.26
i-Butyl mercaptan	<0.50
Dimethyl disulfide	3.42
Tetrahydrothiophene	1.18
Unidentified sulfurs	11.8

(Concentration in ppmv, as H_2S)

Total Sulfur	197.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 25, 2023
Date Received: August 25, 2023
Date Analyzed: August 25, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	29.3	32.0	30.7	8.8
Carbonyl sulfide	FL-150	0.64	0.69	0.67	7.5
Methyl mercaptan	FL-150	10.3	11.2	10.8	8.4
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	125	136	131	8.4
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.69	0.73	0.71	5.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.09	2.23	2.16	6.5
s-Butyl mercaptan	FL-150	2.17	2.34	2.26	7.5
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	3.63	3.20	3.42	13
Tetrahydrothiophene	FL-150	1.17	1.19	1.18	1.7
Unidentified sulfurs	FL-150	11.6	12.1	11.8	4.5

One Tedlar bag sample, laboratory number 22373-7, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 7.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150	Landfill Gas	22373-6	8-24-23	7:55pm	X	Filtered 20PPm
FL-150	Landfill Gas	-7	8-25-23	8:27am	X	Filtered 33ppm

Relinquished by: *(Signature)*	**Date** 8/25/23	**Time** 9:47am	**Received by:** *(Signature)* LUIS FARFAN	**Date** 8/25/23 **Time** 09:47
Relinquished by: *(Signature)* LUIS FARFAN	**Date** 8/25/23	**Time** 10:56	**Received by:** *(Signature)*	**Date** **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)* AtmAA	**Date** 8/25/23 **Time** 10:52

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	September 6, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	August 26, 2023
Date Received:	August 26, 2023
Date Analyzed:	August 26, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22383-4
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	33.5
Carbonyl sulfide	0.77
Methyl mercaptan	11.3
Ethyl mercaptan	<0.50
Dimethyl sulfide	129
Carbon disulfide	<0.50
i-Propyl mercaptan	0.70
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.01
s-Butyl mercaptan	2.38
i-Butyl mercaptan	<0.50
Dimethyl disulfide	6.75
Tetrahydrothiophene	1.21
Unidentified sulfurs	11.7
	(Concentration in ppmv, as H_2S)
Total Sulfur	205.6

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 26, 2023
Date Received: August 26, 2023
Date Analyzed: August 26, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	33.4	33.6	33.5	0.60
Carbonyl sulfide	FL-150	0.78	0.75	0.77	3.9
Methyl mercaptan	FL-150	11.3	11.3	11.3	0.00
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	125	132	129	5.4
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.70	0.70	0.70	0.00
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.03	1.99	2.01	2.0
s-Butyl mercaptan	FL-150	2.40	2.35	2.38	2.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.23	7.26	6.75	15
Tetrahydrothiophene	FL-150	1.21	1.21	1.21	0.00
Unidentified sulfurs	FL-150	12.0	11.5	11.7	4.7

One Tedlar bag sample, laboratory number 22383-4, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 3.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)* Erick Estrada	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22383-4			X						Filtered 35ppm

	Date	Time		Date	Time
Relinquished by: *(Signature)* Erick Estrada	8/26/23	8:55	**Received by: *(Signature)*** [signature]	8/26/23	0855
Relinquished by: *(Signature)* [signature]	8/26/23	0946	**Received by: *(Signature)***		
Relinquished by: *(Signature)*			**Received for Laboratory by: *(Signature)*** [signature] AtmAA	8/26/23	9:46

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 6, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 27, 2023
Date Received: August 28, 2023
Date Analyzed: August 28, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22403-10
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	18.0
Carbonyl sulfide	1.10
Methyl mercaptan	8.62
Ethyl mercaptan	<0.50
Dimethyl sulfide	138
Carbon disulfide	<0.50
i-Propyl mercaptan	0.62
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	1.89
s-Butyl mercaptan	2.21
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.01
Tetrahydrothiophene	1.15
Unidentified sulfurs	15.6

(Concentration in ppmv, as H_2S)

Total Sulfur	200.7

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 27, 2023
Date Received: August 28, 2023
Date Analyzed: August 28, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	17.9	18.1	18.0	1.1
Carbonyl sulfide	FL-150	1.10	1.10	1.10	0.00
Methyl mercaptan	FL-150	8.55	8.68	8.62	1.5
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	136	139	138	2.2
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.62	0.61	0.62	1.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.89	1.88	1.89	0.53
s-Butyl mercaptan	FL-150	2.21	2.20	2.21	0.45
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	6.88	7.14	7.01	3.7
Tetrahydrothiophene	FL-150	1.13	1.17	1.15	3.5
Unidentified sulfurs	FL-150	15.6	15.5	15.6	0.60

One Tedlar bag sample, laboratory number 22403-10, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 1.5%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 6, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 28, 2023
Date Received: August 28, 2023
Date Analyzed: August 28, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22403-11
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	29.1
Carbonyl sulfide	1.10
Methyl mercaptan	11.4
Ethyl mercaptan	<0.50
Dimethyl sulfide	137
Carbon disulfide	<0.50
i-Propyl mercaptan	0.67
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	1.87
s-Butyl mercaptan	2.19
i-Butyl mercaptan	<0.50
Dimethyl disulfide	4.47
Tetrahydrothiophene	1.06
Unidentified sulfurs	10.0

(Concentration in ppmv, as H_2S)

Total Sulfur	203.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 28, 2023
Date Received: August 28, 2023
Date Analyzed: August 28, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	29.2	28.9	29.1	1.0
Carbonyl sulfide	FL-150	1.06	1.14	1.10	7.3
Methyl mercaptan	FL-150	11.3	11.5	11.4	1.8
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	136	138	137	1.5
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.65	0.69	0.67	6.0
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.89	1.85	1.87	2.1
s-Butyl mercaptan	FL-150	2.17	2.21	2.19	1.8
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	4.78	4.15	4.47	14
Tetrahydrothiophene	FL-150	0.99	1.13	1.06	13
Unidentified sulfurs	FL-150	10.2	9.86	10.0	3.4

One Tedlar bag sample, laboratory number 22403-11, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 5.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature)	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22403-10	8-27-23	2:07pm	X						Filtered 12ppm
FL-150	Landfill Gas	-11	8-28-23	7:37am	X						Filtered 26ppm

Relinquished by: (Signature)	**Date** 8/28/23	**Time** 10:24	**Received by: (Signature)** LUIS FARFAN	**Date** 8/28/23	**Time** 10:24
Relinquished by: (Signature) LUIS FARFAN	**Date** 8/28/23	**Time** 11:13	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)** AtmAA	**Date** 8/28/23	**Time** 11:13

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 6, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 29, 2023
Date Received: August 30, 2023
Date Analyzed: August 30, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22423-10
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	22.3
Carbonyl sulfide	1.26
Methyl mercaptan	11.0
Ethyl mercaptan	<0.50
Dimethyl sulfide	142
Carbon disulfide	<0.50
i-Propyl mercaptan	0.92
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.67
s-Butyl mercaptan	2.75
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.90
Tetrahydrothiophene	1.48
Unidentified sulfurs	11.7

(Concentration in ppmv, as H_2S)

Total Sulfur	211.7

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 29, 2023
Date Received: August 30, 2023
Date Analyzed: August 30, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	22.3	22.2	22.3	0.45
Carbonyl sulfide	FL-150	1.22	1.29	1.26	5.6
Methyl mercaptan	FL-150	11.0	10.9	11.0	0.91
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	142	142	142	0.00
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.92	0.92	0.92	0.00
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.69	2.65	2.67	1.5
s-Butyl mercaptan	FL-150	2.75	2.75	2.75	0.00
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	8.04	7.76	7.90	3.5
Tetrahydrothiophene	FL-150	1.48	1.47	1.48	0.68
Unidentified sulfurs	FL-150	11.2	12.1	11.7	7.4

One Tedlar bag sample, laboratory number 22423-10, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 2.0%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 6, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 30, 2023
Date Received: August 30, 2023
Date Analyzed: August 30, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22423-11
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	27.4
Carbonyl sulfide	0.88
Methyl mercaptan	12.6
Ethyl mercaptan	<0.50
Dimethyl sulfide	140
Carbon disulfide	<0.50
i-Propyl mercaptan	0.96
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.64
s-Butyl mercaptan	2.81
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.79
Tetrahydrothiophene	1.49
Unidentified sulfurs	13.5

(Concentration in ppmv, as H_2S)

Total Sulfur	217.8

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 30, 2023
Date Received: August 30, 2023
Date Analyzed: August 30, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	27.8	27.0	27.4	2.9
Carbonyl sulfide	FL-150	0.88	0.88	0.88	0.00
Methyl mercaptan	FL-150	12.7	12.4	12.6	2.4
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	140	140	140	0.00
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.96	0.95	0.96	1.0
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.65	2.62	2.64	1.1
s-Butyl mercaptan	FL-150	2.81	2.81	2.81	0.00
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.78	7.79	7.79	0.13
Tetrahydrothiophene	FL-150	1.51	1.46	1.49	3.4
Unidentified sulfurs	FL-150	13.8	13.2	13.5	4.5

One Tedlar bag sample, laboratory number 22423-11, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 1.6%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS						Special Remarks
					ANALYSES REQUESTED						
FL-150 INLET	Landfill Gas	22423-11/16	8-30-23	7:35am	X						Filtered 25 ppm
FL-150 inlet	Landfill Gas	-10-11 (BF)	8-29-23	11:00pm	X						Filtered 19 ppm

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Fabian Chavez	8-30-23	10:07am	LUIS FARFAN	8/30/23	10:09
Relinquished by: *(Signature)* LUIS FARFAN	Date 8/30/23	Time 11:06	**Received by:** *(Signature)*	Date	Time
Relinquished by: *(Signature)*	Date	Time	**Received for Laboratory by:** *(Signature)* AtmAA	Date 8/30/23	Time 11:06

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302
TEL: (818) 223-3277
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specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 6, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: August 31, 2023
Date Received: September 1, 2023
Date Analyzed: September 1, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22443-9
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	13.9
Carbonyl sulfide	1.05
Methyl mercaptan	9.55
Ethyl mercaptan	<0.50
Dimethyl sulfide	164
Carbon disulfide	<0.50
i-Propyl mercaptan	0.57
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.14
s-Butyl mercaptan	2.26
i-Butyl mercaptan	<0.50
Dimethyl disulfide	8.67
Tetrahydrothiophene	1.20
Unidentified sulfurs	15.3

(Concentration in ppmv, as H_2S)

Total Sulfur	226.8

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: August 31, 2023
Date Received: September 1, 2023
Date Analyzed: September 1, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	13.7	14.1	13.9	2.9
Carbonyl sulfide	FL-150	1.03	1.06	1.05	2.9
Methyl mercaptan	FL-150	9.28	9.81	9.55	5.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	161	166	164	3.1
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.56	0.58	0.57	3.5
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.07	2.21	2.14	6.5
s-Butyl mercaptan	FL-150	2.21	2.30	2.26	4.0
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	8.88	8.46	8.67	4.8
Tetrahydrothiophene	FL-150	1.15	1.24	1.20	7.5
Unidentified sulfurs	FL-150	14.8	15.8	15.3	6.7

One Tedlar bag sample, laboratory number 22443-9, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.7%.

Attachment B

Calculations

Chiquita Canyon Landfill
Total Emissions
Monthly Report Period: August 2023

	Flare No. 1 John Zink (FL-150)				Flare No. 2 John Zink (Zule) (FL-100)				Envent Thermal Oxidizer (TOx)	All Control Devices (Flare No. 1, Flare No. 2, TOx)			Lab Analysis SOx Emissions (lb/day)	Lab Analysis Total Reduced Sulfur as H2S (ppmv)
Date	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total Flow Rate (scfm)	Total Flow Rate (scf/hr)		
8/1/2023	5,368,139	24.00	3,728	223,672	5,372,317	24.00	3,731	223,847	2,400,030	13,140,486	9,125	547,520	393.77	180
8/2/2023	5,162,847	24.00	3,585	215,119	5,332,361	24.00	3,703	222,182	2,015,470	12,510,678	8,688	521,278	398.21	191
8/3/2023	5,261,811	24.00	3,654	219,242	5,409,011	24.00	3,756	225,375	2,209,920	12,880,742	8,945	536,698	407.63	190
8/4/2023	5,378,760	24.00	3,735	224,115	5,431,360	24.00	3,772	226,307	2,213,300	13,023,419	9,044	542,642	413.01	191
8/5/2023	5,258,453	24.00	3,652	219,102	5,363,857	24.00	3,725	223,494	2,256,930	12,879,239	8,944	536,635	443.37	207
8/6/2023	5,320,684	24.00	3,695	221,695	5,376,505	24.00	3,734	224,021	2,269,180	12,966,369	9,004	540,265	451.33	209
8/7/2023	5,298,547	24.00	3,680	220,773	5,337,659	24.00	3,707	222,402	2,342,240	12,978,446	9,013	540,769	541.37	251
8/8/2023	5,391,802	24.00	3,744	224,658	5,410,960	24.00	3,758	225,457	2,101,760	12,904,522	8,961	537,688	422.55	197
8/9/2023	5,376,563	24.00	3,734	224,023	5,401,241	24.00	3,751	225,052	1,971,484	12,749,288	8,854	531,220	486.84	230
8/10/2023	4,890,714	24.00	3,396	203,780	4,990,806	24.00	3,466	207,950	2,233,120	12,114,640	8,413	504,777	433.98	215
8/11/2023	3,329,920	20.17	2,312	138,747	3,421,894	19.35	2,376	142,579	2,241,330	8,993,144	6,245	374,714	356.87	239
8/12/2023	4,191,451	24.00	2,911	174,644	4,313,247	24.00	2,995	179,719	2,229,875	10,734,573	7,455	447,274	403.47	226
8/13/2023	4,152,147	24.00	2,883	173,006	4,209,840	24.00	2,924	175,410	2,044,220	10,406,207	7,227	433,592	422.82	244
8/14/2023	4,350,557	23.77	3,021	181,273	4,334,113	23.53	3,010	180,588	28,440	8,713,110	6,051	363,046	377.94	261
8/15/2023	4,391,852	24.00	3,050	182,994	4,426,655	24.00	3,074	184,444	511,290	9,329,797	6,479	388,742	393.21	253
8/16/2023	4,062,334	21.75	2,821	169,264	4,112,292	21.92	2,856	171,345	941,000	9,115,626	6,330	379,818	354.76	234
8/17/2023	4,569,949	24.00	3,174	190,415	4,656,396	24.00	3,234	194,017	1,579,850	10,806,195	7,504	450,258	462.26	257
8/18/2023	4,398,442	24.00	3,054	183,268	4,547,678	24.00	3,158	189,487	2,143,570	11,089,690	7,701	462,070	475.68	258
8/19/2023	4,203,781	24.00	2,919	175,158	4,342,107	24.00	3,015	180,921	1,431,545	9,977,433	6,929	415,726	381.32	230
8/20/2023	2,975,950	19.98	2,067	123,998	3,317,637	19.97	2,304	138,235	2,068,620	8,362,207	5,807	348,425	361.89	260
8/21/2023	3,559,794	24.00	2,472	148,325	4,410,616	24.00	3,063	183,776	1,960,200	9,930,610	6,896	413,775	390.11	236
8/22/2023	3,798,466	20.83	2,638	158,269	5,178,805	23.55	3,596	215,784	1,365,120	10,342,390	7,182	430,933	402.15	234
8/23/2023	5,241,866	23.75	3,640	218,411	5,344,325	23.68	3,711	222,680	1,003,295	11,589,485	8,048	482,895	541.86	281
8/24/2023	5,216,127	23.15	3,622	217,339	5,421,270	24.00	3,765	225,886	1,715,250	12,352,647	8,578	514,694	422.16	205
8/25/2023	4,991,309	23.12	3,466	207,971	4,026,554	18.25	2,796	167,773	1,689,630	10,707,492	7,436	446,146	351.86	198
8/26/2023	5,243,589	24.00	3,641	218,483	5,464,029	24.00	3,794	227,668	2,460,960	13,168,578	9,145	548,691	450.48	206
8/27/2023	5,193,950	24.00	3,607	216,415	5,464,074	24.00	3,794	227,670	2,325,960	12,983,984	9,017	540,999	433.58	201
8/28/2023	5,141,692	24.00	3,571	214,237	5,439,070	24.00	3,777	226,628	2,280,960	12,861,722	8,932	535,905	435.06	203
8/29/2023	5,172,042	24.00	3,592	215,502	5,432,114	24.00	3,772	226,338	2,460,960	13,065,116	9,073	544,380	460.20	212
8/30/2023	5,091,890	24.00	3,536	212,162	5,416,003	24.00	3,761	225,667	2,460,960	12,968,853	9,006	540,369	469.97	218
8/31/2023	5,107,250	23.88	3,547	212,802	5,374,174	23.70	3,732	223,924	2,460,960	12,942,384	8,988	539,266	488.39	227

*Flare Flow and Runtime from chart recorder data. Total consists of Flare No. 1 and Flare No. 2. Ameresco's variance was approved on February 15th and Ameresco began operations on February 16th.

*Date of lab data based on date sampled.

Chiquita Canyon Landfill
LFG Not Combusted
Monthly Report Period: August 2023

Date	Flare 1, 2, TOx Total Flow Rate (scf/day)	2022 Baseline Flow Rate (scf/day)	LFG Not Combusted (scf/day)[1]	Ameresco LFG Processed (scf/day)[2]	LFG Not Combusted (scfm)
8/1/2023	13,140,486	--	--	4,725,249	--
8/2/2023	12,510,678	--	--	5,405,051	--
8/3/2023	12,880,742	--	--	3,900,841	--
8/4/2023	13,023,419	--	--	2,938,837	--
8/5/2023	12,879,239	--	--	2,987,487	--
8/6/2023	12,966,369	--	--	3,041,109	--
8/7/2023	12,978,446	--	--	3,133,379	--
8/8/2023	12,904,522	--	--	3,018,779	--
8/9/2023	12,749,288	--	--	3,113,915	--
8/10/2023	12,114,640	--	--	4,368,385	--
8/11/2023	8,993,144	--	--	5,582,701	--
8/12/2023	10,734,573	--	--	5,480,851	--
8/13/2023	10,406,207	--	--	5,468,290	--
8/14/2023	8,713,110	--	--	5,330,143	--
8/15/2023	9,329,797	--	--	5,419,028	--
8/16/2023	9,115,626	--	--	5,331,864	--
8/17/2023	10,806,195	--	--	5,471,462	--
8/18/2023	11,089,690	--	--	5,651,627	--
8/19/2023	9,977,433	--	--	5,525,787	--
8/20/2023	8,362,207	--	--	5,552,744	--
8/21/2023	9,930,610	--	--	4,605,800	--
8/22/2023	10,342,390	--	--	3,032,997	--
8/23/2023	11,589,485	--	--	849,540	--
8/24/2023	12,352,647	--	--	2,160,488	--
8/25/2023	10,707,492	--	--	2,924,626	--
8/26/2023	13,168,578	--	--	2,915,771	--
8/27/2023	12,983,984	--	--	2,939,814	--
8/28/2023	12,861,722	--	--	2,899,578	--
8/29/2023	13,065,116	--	--	2,871,086	--
8/30/2023	12,968,853	--	--	2,870,630	--
8/31/2023	12,942,384	--	--	1,693,145	--
Total/Average					**--**

[1]Total LFG not combusted is calculated based on the difference from total flow rate from all control devices from 2022 (baseline) and flow rate from Flare 1 and 2 during the reporting period. Ameresco applied for variance to operate the LFG turbine plant under a variance order, and their variance was approved on February 15th. Ameresco restarted operations on February 16th, returning LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

[2]Actual Ameresco LFG flow rate after restarting operations are greater than the unflared amount while Ameresco was off-line. Therefore, there are no longer any unflared gas in August 2023.

*Flare Flow and Runtime from chart recorder data.

*Date of lab data based on date sampled.

2022 Baseline Flow Rate			
Devices	**Total Flow (scf)**	**Flow Rate (scf/day)**	**Flow Rate (scfm)**
Flare No. 1	1,380,940,025	3,783,397	2,627
Flare No. 2	1,386,138,034	3,797,638	2,637
LFGTE Facility	1,584,198,413	4,340,270	3,014
Total	**4,351,276,471**	**11,921,305**	**8,279**

*Flare flow from chart recorder data. LFGTE Facility flow from Ameresco.

Attachment C

Surface Emissions Monitoring

2023 Chiquita Surface Emissions Exceedance

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
Integrated (Monthly)															
1/13/23, 1/20/23, 1/21/23 (no exceedances)															
2/1/23, 2/4/23, 2/13/23, 2/21/23 (no exceedances)															
175	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	68	Moisture Condition, Soil/Dirt Compaction	3/13/2023	48	Moisture Condition, Soil/Dirt Compaction	3/24/2023	20	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	9
182	2/21/2023	80	Moisture Condition, Soil/Dirt Compaction	3/3/2023	51	Moisture Condition, Soil/Dirt Compaction	3/13/2023	52	Moisture Condition, Soil/Dirt Compaction	3/24/2023	18	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	8
200	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	72	Moisture Condition, Soil/Dirt Compaction	3/13/2023	56	Moisture Condition, Soil/Dirt Compaction	3/24/2023	22	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	17
202	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	45	Moisture Condition, Soil/Dirt Compaction	3/13/2023	19	NA	NA	NA				
190	3/9/2023	39	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
191	3/9/2023	29	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.63	NA	NA	NA				
192	3/9/2023	41	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
193	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.77	NA	NA	NA				
189	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
188	3/9/2023	38	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.64	NA	NA	NA				
187	3/9/2023	40	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
186	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	13.91	NA	NA	NA				
182	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.7	NA	NA	NA				
183	3/9/2023	48	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.24	NA	NA	NA				
184	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
200	3/9/2023	45	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
181	3/9/2023	34	Moisture Condition, Soil/Dirt Compaction	3/17/2023	21	NA	NA	NA	NA	NA	NA				
180	3/9/2023	49	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
139	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
201	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	17	NA	NA	NA	NA	NA	NA				
175	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
176	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	38	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.49	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	42	Moisture Condition, Soil/Dirt Compaction	3/27/2023	60.04	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	17
202	3/9/2023	54	Moisture Condition, Soil/Dirt Compaction	3/17/2023	36	Moisture Condition, Soil/Dirt Compaction	3/27/2023	30.99	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
174	3/9/2023	60	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
173	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	28	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.75	NA	NA	NA				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	40	Moisture Condition, Soil/Dirt Compaction	3/27/2023	58.78	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	13
203	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	20	NA	NA	NA	NA	NA	NA				
169	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	37	Moisture Condition, Soil/Dirt Compaction	3/27/2023	16.2	NA	NA	NA				
207	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	22	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	55.11	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	14
168	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.65	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
202	3/9/2023	59	Moisture Condition, Soil/Dirt Compaction	3/17/2023	46	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
204	3/27/2023	55	Moisture Condition, Soil/Dirt Compaction	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
203	3/27/2023	52	Moisture Condition, Soil/Dirt Compaction	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA				
207	3/27/2023	50	Moisture Condition, Soil/Dirt Compaction	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA				
206	3/27/2023	58	Moisture Condition, Soil/Dirt Compaction	4/4/2023	18	NA	NA	NA	NA	NA	NA				
205	3/27/2023	60	Moisture Condition, Soil/Dirt Compaction	4/4/2023	16	NA	NA	NA	NA	NA	NA				
175	3/27/2023	49	Moisture Condition, Soil/Dirt Compaction	4/4/2023	13	NA	NA	NA	NA	NA	NA				
202	3/27/2023	30	Moisture Condition, Soil/Dirt Compaction	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
202	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
203	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA	NA	NA	NA				
204	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
207	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA	NA	NA	NA				
174	4/17/2023	40	Moisture Condition, Soil/Dirt Compaction	4/27/2023	22	NA	NA	NA	NA	NA	NA				
190	4/17/2023	26	Moisture Condition, Soil/Dirt Compaction	4/27/2023	17	NA	NA	NA	NA	NA	NA				
200	4/17/2023	25	Moisture Condition, Soil/Dirt Compaction	4/27/2023	19	NA	NA	NA	NA	NA	NA				
207	5/1/2023	54	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
210	5/1/2023	26	Moisture Condition, Soil/Dirt Compaction	5/10/2023	19	NA	NA	NA	NA	NA	NA				
202	5/1/2023	29	Moisture Condition, Soil/Dirt Compaction	5/10/2023	21	NA	NA	NA	NA	NA	NA				
208	5/1/2023	43	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
201	5/17/2023	30	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
205	5/17/2023	26	Moisture Condition, Soil/Dirt Compaction	5/26/2023	19	NA	NA	NA	NA	NA	NA				
203	5/17/2023	27	Moisture Condition, Soil/Dirt Compaction	5/26/2023	21	NA	NA	NA	NA	NA	NA				
169	5/17/2023	25	Moisture Condition, Soil/Dirt Compaction	5/26/2023	18	NA	NA	NA	NA	NA	NA				
173	5/17/2023	35	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
206	5/30/2023	36	Moisture Condition, Soil/Dirt Compaction	6/9/2023	19	NA	NA	NA	NA	NA	NA				
170	5/30/2023	95	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17	NA	NA	NA	NA	NA	NA				
172	5/30/2023	28	Moisture Condition, Soil/Dirt Compaction	6/9/2023	18	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
151	5/30/2023	83	Moisture Condition, Soil/Dirt Compaction	6/9/2023	22	NA	NA	NA	NA	NA	NA				
181	5/30/2023	30	Moisture Condition, Soil/Dirt Compaction	6/9/2023	21	NA	NA	NA	NA	NA	NA				
172	6/13/2023	30	Moisture Condition, Soil/Dirt Compaction	6/22/2023	19	NA	NA	NA	NA	NA	NA				
179	6/13/2023	25	Moisture Condition, Soil/Dirt Compaction	6/22/2023	10	NA	NA	NA	NA	NA	NA				
156	6/13/2023	27	Moisture Condition, Soil/Dirt Compaction	6/22/2023	21	NA	NA	NA	NA	NA	NA				
177	6/13/2023	120	Moisture Condition, Soil/Dirt Compaction	6/22/2023	23	NA	NA	NA	NA	NA	NA				
176	6/27/2023	40	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23	NA	NA	NA	NA	NA	NA				
179	6/27/2023	35	Moisture Condition, Soil/Dirt Compaction	7/7/2023	21	NA	NA	NA	NA	NA	NA				
172	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19	NA	NA	NA	NA	NA	NA				
173	6/27/2023	27	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24	NA	NA	NA	NA	NA	NA				
169	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20	NA	NA	NA	NA	NA	NA				
179	7/10/2023	50	Moisture Condition, Soil/Dirt Compaction	7/20/2023	55	Moisture Condition, Soil/Dirt Compaction	7/28/2023	36	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	24
173	7/10/2023	35	Moisture Condition, Soil/Dirt Compaction	7/20/2023	53	Moisture Condition, Soil/Dirt Compaction	7/28/2023	29	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	23
205	7/10/2023	27	Moisture Condition, Soil/Dirt Compaction	7/20/2023	168	Moisture Condition, Soil/Dirt Compaction	7/28/2023	60	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	21
203	7/10/2023	25	Moisture Condition, Soil/Dirt Compaction	7/20/2023	152	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	19
174	7/24/2023	32	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
175	7/24/2023	45	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
205	8/8/2023	74	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
206	8/8/2023	38	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
169	8/8/2023	27	Moisture Condition, Soil/Dirt Compaction	8/17/2023	21	NA	NA	NA	NA	NA	NA				
170	8/8/2023	29	Moisture Condition, Soil/Dirt Compaction	8/17/2023	22	NA	NA	NA	NA	NA	NA				
175	8/8/2023	30	Moisture Condition, Soil/Dirt Compaction	8/17/2023	19	NA	NA	NA	NA	NA	NA				
206	8/24/2023	120	Moisture Condition, Soil/Dirt Compaction	9/1/2023	377	Moisture Condition, Soil/Dirt Compaction	9/8/2023	23	NA	NA	NA				
176	8/24/2023	76	Moisture Condition, Soil/Dirt Compaction	9/1/2023	210	Moisture Condition, Soil/Dirt Compaction	9/5/2023	13	NA	NA	NA				
175	8/24/2023	68	Moisture Condition, Soil/Dirt Compaction	9/1/2023	380	Moisture Condition, Soil/Dirt Compaction	9/5/2023	11	NA	NA	NA				
174	8/24/2023	28	Moisture Condition, Soil/Dirt Compaction	9/1/2023	406	Moisture Condition, Soil/Dirt Compaction	9/5/2023	15	NA	NA	NA				
202	8/24/2023	31	Moisture Condition, Soil/Dirt Compaction	9/1/2023	220	Moisture Condition, Soil/Dirt Compaction	9/5/2023	19	NA	NA	NA				
201	8/24/2023	48	Moisture Condition, Soil/Dirt Compaction	9/1/2023	230	Moisture Condition, Soil/Dirt Compaction	9/5/2023	18	NA	NA	NA				
181	8/24/2023	29	Moisture Condition, Soil/Dirt Compaction	9/1/2023	180	Moisture Condition, Soil/Dirt Compaction	9/5/2023	17	NA	NA	NA				
							Instantaneous (Monthly)								
201/Y1	1/25/2023	700	Moisture Condition, Soil/Dirt Compaction	2/2/2023	263	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	358				
205/Y21	1/25/2023	764	Moisture Condition, Soil/Dirt Compaction	2/2/2023	194	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	299				
214/Y22	1/25/2023	802	Moisture Condition, Soil/Dirt Compaction	2/2/2023	299	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	106				
214/Y23	1/25/2023	998	Moisture Condition, Soil/Dirt Compaction	2/2/2023	157	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	110				
202/Y41	1/25/2023	3,028	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	458				
202/Y42	1/25/2023	4,263	Moisture Condition, Soil/Dirt Compaction	2/2/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	406				
215/Y43	1/25/2023	6,519	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	398				
215/Y44	1/25/2023	963	Moisture Condition, Soil/Dirt Compaction	2/2/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	164				
203/Y61	1/25/2023	4,652	Moisture Condition, Soil/Dirt Compaction	2/2/2023	409	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	410				
203/Y62	1/25/2023	778	Moisture Condition, Soil/Dirt Compaction	2/2/2023	54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	68				
203/Y63	1/25/2023	2,465	Moisture Condition, Soil/Dirt Compaction	2/2/2023	479	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	94				
211/Y63	1/25/2023	1,237	Moisture Condition, Soil/Dirt Compaction	2/2/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	123				
201/Y21	2/23/2023	2,169	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	185	Moisture Condition, Soil/Dirt Compaction	3/24/2023	121				
175/Y22	2/23/2023	964	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	1300	Moisture Condition, Soil/Dirt Compaction	3/24/2023	484	4/27/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 4/17/23	10
175/Y23	2/23/2023	3,654	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,500	Moisture Condition, Soil/Dirt Compaction	3/13/2023	100	Moisture Condition, Soil/Dirt Compaction	3/24/2023	100				
202/Y41	2/23/2023	36,201	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,250	Moisture Condition, Soil/Dirt Compaction	3/13/2023	638	Moisture Condition, Soil/Dirt Compaction	3/24/2023	235	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y42	2/23/2023	1,678	Moisture Condition, Soil/Dirt Compaction	3/3/2023	2,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	836	Moisture Condition, Soil/Dirt Compaction	3/24/2023	441	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y43	2/23/2023	843	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,505	Moisture Condition, Soil/Dirt Compaction	3/13/2023	190	Moisture Condition, Soil/Dirt Compaction	3/24/2023	398				
169/Y61	2/23/2023	15,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	9,999	Moisture Condition, Soil/Dirt Compaction	3/13/2023	720	Moisture Condition, Soil/Dirt Compaction	3/24/2023	215	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	17
208/Y121	2/23/2023	1,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	685	Moisture Condition, Soil/Dirt Compaction	3/13/2023	135	Moisture Condition, Soil/Dirt Compaction	3/24/2023	380				
208/Y122	2/23/2023	1,200	Moisture Condition, Soil/Dirt Compaction	3/3/2023	950	Moisture Condition, Soil/Dirt Compaction	3/13/2023	580	Moisture Condition, Soil/Dirt Compaction	3/24/2023	291	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	23
207/Y1	3/31/2023	900	Moisture Condition, Soil/Dirt Compaction	4/10/2023	22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	37				
207/Y2	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	129				
202/Y3	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	98				
201/Y4	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	209				
175/Y5	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	461	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	162				
178/Y11	3/31/2023	2,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	199				
179/Y12	3/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	4/10/2023	15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	143				
175/Y13	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	425	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	398				
174/Y14	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	82				
174/Y15	3/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	4/10/2023	300	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	283				
202/Y16	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	373	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	112				
203/Y27	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	218	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	316				
203/Y18	3/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	4/10/2023	68.88	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	152				
204/Y19	3/31/2023	500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	27.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	30				
204/Y20	3/31/2023	520	Moisture Condition, Soil/Dirt Compaction	4/10/2023	173	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	23				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
H-1952C	4/6/2023	1,500	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	397	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	247				
H-1754N	4/6/2023	1,000	Increased applied vacuum with higher system vacuum. Adjusted well H-1773B. Added new soil and compacted area.	4/14/2023	419	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301				
H-1964C	4/6/2023	550	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	242	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256				
L-32	4/6/2023	1,100	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	320	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	283				
D-180	4/6/2023	4,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	272	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	194				
H-1962S	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	252	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	271				
H-2116W	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	438	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	406				
H-1773B	4/6/2023	700	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	386	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	382				
H-1965AR	4/6/2023	7,000	Reconnected H-1758S on 4/13/23 and applied vacuum. Added new soil and compacted around well casing.	4/14/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	138				
CV-2201	4/6/2023	543	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	266	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	44				
H-1963A	4/6/2023	951	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	342	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	203				
H-1966S	4/6/2023	10,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	141				
CV-2006	4/6/2023	800	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	348	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	121				
189/Y61	4/26/2023	570	Moisture Condition, Soil/Dirt Compaction	5/5/2023	346	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	39				
180/Y62	4/26/2023	1,300	Moisture Condition, Soil/Dirt Compaction	5/5/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	215				
181/Y63	4/26/2023	2,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	414	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	483				
150/Y64	4/26/2023	3,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	108	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	411				
150/Y65	4/26/2023	7,891	Moisture Condition, Soil/Dirt Compaction	5/5/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	489				
156/Y66	4/26/2023	813	Moisture Condition, Soil/Dirt Compaction	5/5/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	92				
145/Y67	4/26/2023	1,047	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	52				
145/Y68	4/26/2023	685	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	23				
173/Y1	4/26/2023	1,582	Moisture Condition, Soil/Dirt Compaction	5/5/2023	284	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	291				
174/Y2	4/26/2023	9,999	Moisture Condition, Soil/Dirt Compaction	5/5/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	493				
176/Y21	4/26/2023	930	Moisture Condition, Soil/Dirt Compaction	5/5/2023	403	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	57				
176/Y22	4/26/2023	600	Moisture Condition, Soil/Dirt Compaction	5/5/2023	221	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	74				
176/Y23	4/26/2023	734	Moisture Condition, Soil/Dirt Compaction	5/5/2023	143	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	70				
176/Y24	4/26/2023	860	Moisture Condition, Soil/Dirt Compaction	5/5/2023	98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	111				
175/Y25	4/26/2023	710	Moisture Condition, Soil/Dirt Compaction	5/5/2023	105	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	134				
175/Y26	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	316	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	87				
175/Y27	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	106				
156/Y41	4/26/2023	1,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	76	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	88				
179/Y42	4/26/2023	900	Moisture Condition, Soil/Dirt Compaction	5/5/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	73				
184/Y43	4/26/2023	1,200	Moisture Condition, Soil/Dirt Compaction	5/5/2023	262	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	159				
184/Y44	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	136	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	132				
184/Y45	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	156				
187/Y46	4/26/2023	2,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	288	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	406				
84/Y47	4/26/2023	3,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	412	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	371				
84/Y48	4/26/2023	2,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	394	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	353				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
84/Y49	4/26/2023	3,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	473	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	216				
159/Y1	5/30/2023	500	Moisture Condition, Soil/Dirt Compaction	6/9/2023	63.11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	51				
161/Y2	5/30/2023	30,000	Moisture Condition, Soil/Dirt Compaction	6/9/2023	248	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	485				
157/Y31	5/30/2023	538	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	173				
157/Y32	5/30/2023	576	Moisture Condition, Soil/Dirt Compaction	6/9/2023	26.04	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	165				
150/Y33	5/30/2023	655	Moisture Condition, Soil/Dirt Compaction	6/9/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	62				
145/Y34	5/30/2023	511	Moisture Condition, Soil/Dirt Compaction	6/9/2023	204	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	186				
155/Y21	5/30/2023	653	Moisture Condition, Soil/Dirt Compaction	6/9/2023	53.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	83				
90/Y22	5/30/2023	5,530	Moisture Condition, Soil/Dirt Compaction	6/9/2023	39.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	357				
159/Y11	5/30/2023	855	Moisture Condition, Soil/Dirt Compaction	6/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	323				
83/Y23	5/30/2023	821	Moisture Condition, Soil/Dirt Compaction	6/9/2023	139	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	57				
81/Y25	5/30/2023	771	Moisture Condition, Soil/Dirt Compaction	6/9/2023	369	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	340				
170/H-1564N	6/1/2023	8,000	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	175				
170/H-1964S	6/1/2023	618	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	3.45				
170/H-1405E	6/1/2023	699	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	14	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	376				
151/H-1773B	6/1/2023	719	Added soil and trackwalked	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	345				
151/H-1773B	6/1/2023	4,000	Added soil and trackwalked	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	148				
151/H-1773B	6/1/2023	27,000	Added soil and trackwalked	6/9/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	205				
151/H-1773B	6/1/2023	1,255	Added soil and trackwalked	6/9/2023	19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	183				
156/TC-2380C	6/1/2023	NA	Added soil and trackwalked	6/9/2023	7.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	25				
176/Y1	6/29/2023	700	Moisture Condition, Soil/Dirt Compaction	7/7/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	220				
176/Y2	6/29/2023	800	Moisture Condition, Soil/Dirt Compaction	7/7/2023	67.40	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	165				
172/Y3	6/29/2023	660	Moisture Condition, Soil/Dirt Compaction	7/7/2023	12.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	89				
187/Y46	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	59.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	26				
150/Y5	6/29/2023	525	Moisture Condition, Soil/Dirt Compaction	7/7/2023	25.83	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	152				
149/Y6	6/29/2023	1,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	262				
149/Y7	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	325				
149/Y8	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,552	Additional Soil/Dirt Compaction	7/14/2023	189	Moisture Condition, Soil/Dirt Compaction	7/28/2023	189				
53/Y9	6/29/2023	1,300	Moisture Condition, Soil/Dirt Compaction	7/7/2023	96.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	231				
81/Y10	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,250	Additional Soil/Dirt Compaction. Adjust Well H-2167B	7/14/2023	195	Moisture Condition, Soil/Dirt Compaction	7/28/2023	195				
172/Y11	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
157/Y12	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
152/Y13	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	7.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	56				
148/Y14	6/29/2023	1,900	Moisture Condition, Soil/Dirt Compaction	7/7/2023	223	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	15				
149/Y15	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	37				
150/Y16	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	39.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	80				
33/Y17	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	61.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
35/Y18	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	48.62	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	168				
176/Y21	6/29/2023	1,200	Moisture Condition, Soil/Dirt Compaction	7/7/2023	Unable to Monitor (repair work being completed)	Additional Soil/Dirt Compaction	7/14/2023	164	Moisture Condition, Soil/Dirt Compaction	7/28/2023	164				
176/Y22	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	43.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
181/Y23	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	31.95	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	66				
182/Y24	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	44.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	43				
181/Y25	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
201/Y26	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	38.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	23				
201/Y27	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
175/Y28	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	93.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	53				
172/Y29	6/29/2023	2,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	118				
183/Y31	6/29/2023	1,570	Moisture Condition, Soil/Dirt Compaction	7/7/2023	28.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	25				
183/Y32	6/29/2023	2,059	Moisture Condition, Soil/Dirt Compaction	7/7/2023	51.73	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	42				
183/Y33	6/29/2023	710	Moisture Condition, Soil/Dirt Compaction	7/7/2023	78.18	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	45				
180/Y34	6/29/2023	1,026	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	32				
180/Y35	6/29/2023	943	Moisture Condition, Soil/Dirt Compaction	7/7/2023	27.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	64				
175/Y36	6/29/2023	1,284	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	109				
174/Y37	6/29/2023	3,012	Moisture Condition, Soil/Dirt Compaction	7/7/2023	95.78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
174/Y38	6/29/2023	4,604	Moisture Condition, Soil/Dirt Compaction	7/7/2023	237	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
90/Y39	6/29/2023	1,148	Moisture Condition, Soil/Dirt Compaction	7/7/2023	3,961	Additional Soil/Dirt Compaction	7/14/2023	147	Moisture Condition, Soil/Dirt Compaction	7/28/2023	147				
150/Y11	7/31/2023	800	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
150/Y12	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	142	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
149/Y13	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	58				
81/Y14	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	306	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
81/Y15	7/31/2023	9,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	211	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	60				
59/Y16	7/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
32/Y17	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	289	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
32/Y18	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	15				
53/Y31	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	410	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	19				
81/Y32	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	341	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	38				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
53/Y33	7/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	58	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
81/Y34	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	9				
59/Y35	7/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	8/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	7				
32/Y36	7/31/2023	550	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	31				
152/Y21	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	294	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	29				
152/Y22	7/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	8/9/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	111				
149/Y23	7/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	214	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	50				
149/Y24	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	310	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
149/Y25	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	137	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
83/Y26	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	123				
169/Y1	7/31/2023	2,021	Moisture Condition, Soil/Dirt Compaction	8/9/2023	240	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	73				
170/Y2	7/31/2023	506	Moisture Condition, Soil/Dirt Compaction	8/9/2023	91	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	33				
170/Y3	7/31/2023	526	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
170/Y3	7/31/2023	622	Moisture Condition, Soil/Dirt Compaction	8/9/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
166/Y4	7/31/2023	543	Moisture Condition, Soil/Dirt Compaction	8/9/2023	78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	22				
166/Y5	7/31/2023	528	Moisture Condition, Soil/Dirt Compaction	8/9/2023	81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	52				
166/Y6	7/31/2023	508	Moisture Condition, Soil/Dirt Compaction	8/9/2023	29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
166/Y7	7/31/2023	9,003	Moisture Condition, Soil/Dirt Compaction	8/9/2023	434	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	12				
159/Y9	7/31/2023	5,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	276	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
154/Y10	7/31/2023	9,453	Moisture Condition, Soil/Dirt Compaction	8/9/2023	304	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
153/Y41	7/31/2023	1,353	Moisture Condition, Soil/Dirt Compaction	8/9/2023	125	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	103				
150/Y1	8/31/2023	560	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA		Pending					
150/Y2	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	72	NA	NA	NA		Pending					
177/Y3	8/31/2023	700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	147	NA	NA	NA		Pending					
176/Y44	8/31/2023	525	Moisture Condition, Soil/Dirt Compaction	9/8/2023	52	NA	NA	NA		Pending					
189/Y5	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	166	NA	NA	NA		Pending					
205/Y6	8/31/2023	780	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA		Pending					
205/Y7	8/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	466	NA	NA	NA		Pending					
206/Y11	8/31/2023	600	Moisture Condition, Soil/Dirt Compaction	9/8/2023	429	NA	NA	NA		Pending					
206/Y12	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	160	NA	NA	NA		Pending					
82/Y21	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	241	NA	NA	NA		Pending					
81/Y22	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	408	NA	NA	NA		Pending					
149/Y23	8/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/8/2023	282	NA	NA	NA		Pending					
149/Y24	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	102	NA	NA	NA		Pending					
149/Y25	8/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	447	NA	NA	NA		Pending					
154/Y26	8/31/2023	5,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	498	NA	NA	NA		Pending					
155/Y27	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	209	NA	NA	NA		Pending					
154/Y28	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	13	NA	NA	NA		Pending					
154/Y29	8/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	491	NA	NA	NA		Pending					
159/Y30	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	387	NA	NA	NA		Pending					
83/Y31	8/31/2023	845	Moisture Condition, Soil/Dirt Compaction	9/8/2023	488	NA	NA	NA		Pending					
84/Y32	8/31/2023	960	Moisture Condition, Soil/Dirt Compaction	9/8/2023	20	NA	NA	NA		Pending					
90/Y33	8/31/2023	2,280	Moisture Condition, Soil/Dirt Compaction	9/8/2023	420	NA	NA	NA		Pending					
90/Y34	8/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/8/2023	497	NA	NA	NA		Pending					
161/Y35	8/31/2023	945	Moisture Condition, Soil/Dirt Compaction	9/8/2023	250	NA	NA	NA		Pending					
161/Y36	8/31/2023	860	Moisture Condition, Soil/Dirt Compaction	9/8/2023	377	NA	NA	NA		Pending					
163/Y37	8/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	411	NA	NA	NA		Pending					
166/Y38	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	35	NA	NA	NA		Pending					
166/Y39	8/31/2023	8,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	437	NA	NA	NA		Pending					
166/Y40	8/31/2023	5,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	489	NA	NA	NA		Pending					

Attachment D

Wellhead Temperature Data

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWA001	A-01	8/28/2023 1:32:00 PM	100.3	100.2
CHIWA002	A-02	8/8/2023 9:53:05 AM	101.9	101.9
CHIWA003	A-03	8/8/2023 9:58:55 AM	101.1	101.4
CHIWA004	A-04	8/8/2023 10:16:27 AM	97.2	97.2
CHIWA005	A-05	8/2/2023 11:14:02 AM	101.1	101.2
CHIWB001	B-01	8/28/2023 2:10:06 PM	113.2	113.2
CHIWB001	B-01	8/30/2023 3:42:11 PM	107.4	109.0
CHIWB02R	B-02R	8/2/2023 9:57:25 AM	85.9	85.9
CHIWB02R	B-02R	8/30/2023 2:03:15 PM	96.5	102.3
CHIWB03R	B-03R	8/2/2023 10:01:35 AM	93.6	93.8
CHIWB03R	B-03R	8/30/2023 2:08:31 PM	104.7	106.9
CHIWB005	B-05	8/2/2023 11:11:49 AM	89.9	89.9
CHIWB005	B-05	8/30/2023 2:25:45 PM	99.2	101.3
CHIWB006	B-06	8/2/2023 9:50:04 AM	86.7	86.4
CHIWB006	B-06	8/30/2023 3:36:25 PM	93.0	95.9
CHIWB07R	B-07R	8/2/2023 10:49:41 AM	99.9	100.8
CHIWB07R	B-07R	8/30/2023 3:00:04 PM	111.3	111.4
CHIWB008	B-08	8/2/2023 9:45:47 AM	92.8	92.7
CHIWB008	B-08	8/30/2023 2:33:11 PM	106.4	107.4
CHIWB009	B-09	8/2/2023 10:40:18 AM	95.8	95.8
CHIWB009	B-09	8/30/2023 2:47:50 PM	101.3	103.5
CHIWB010	B-10	8/2/2023 10:31:43 AM	89.9	89.8
CHIWB010	B-10	8/30/2023 2:40:19 PM	101.4	104.1
CHIWB011	B-11	8/2/2023 10:24:05 AM	98.6	98.7
CHIWB011	B-11	8/30/2023 3:15:28 PM	101.4	102.6
CHIWB012	B-12	8/2/2023 10:05:05 AM	96.1	96.2
CHIWB012	B-12	8/30/2023 2:15:19 PM	105.6	107.8
CHIWB013	B-13	8/2/2023 10:55:35 AM	92.9	92.8
CHIWB013	B-13	8/30/2023 3:08:00 PM	109.6	110.0
CHIWB014	B-14	8/2/2023 10:17:02 AM	98.2	97.8
CHIWB014	B-14	8/2/2023 10:19:14 AM	97.6	97.6
CHIWB014	B-14	8/30/2023 3:18:17 PM	109.1	109.6
CHIWC001	C-01	8/28/2023 1:42:46 PM	125.5	125.6
CHIWC003	C-03	8/28/2023 1:28:59 PM	119.4	119.7
CHIWC007	C-07	8/30/2023 9:47:57 AM	90.0	90.0
CHIWC008	C-08	8/2/2023 11:18:41 AM	102.5	102.9
CHIWC008	C-08	8/29/2023 4:59:57 PM	121.8	122.1
CHIWC009	C-09	8/8/2023 11:44:06 AM	99.9	102.6
CHIWC009	C-09	8/8/2023 11:45:22 AM	104.5	104.6
CHIWC010	C-10	8/8/2023 12:00:34 PM	108.7	109.4
CHIWC010	C-10	8/8/2023 12:01:28 PM	113.4	113.4
CHIWC010	C-10	8/29/2023 4:25:02 PM	114.7	114.8
CHIWC011	C-11	8/8/2023 12:22:40 PM	102.0	101.9
CHIWC012	C-12	8/10/2023 3:42:18 PM	86.3	85.6
CHIWC012	C-12	8/30/2023 9:02:58 AM	81.2	80.9

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWC013	C-13	8/10/2023 3:18:18 PM	98.6	98.8
CHIWC015	C-15	8/8/2023 12:40:29 PM	111.7	111.8
CHIWC016	C-16	8/8/2023 12:47:33 PM	106.6	107.9
CHIWC17A	C-17A	8/8/2023 12:54:01 PM	105.6	105.6
CHIWC17A	C-17A	8/29/2023 12:12:57 PM	109.7	102.8
CHIWC17B	C-17B	8/8/2023 12:51:19 PM	108.8	108.8
CHIWC17B	C-17B	8/29/2023 12:16:27 PM	109.7	109.4
CHIWC018	C-18	8/8/2023 1:22:34 PM	114.9	115.1
CHIWC018	C-18	8/29/2023 5:23:55 PM	113.3	113.7
CHIWC019	C-19	8/8/2023 1:01:54 PM	104.4	104.5
CHIWC019	C-19	8/29/2023 12:01:03 PM	109.7	108.5
CHIWC020	C-20	8/8/2023 1:16:19 PM	111.7	112.4
CHIWC020	C-20	8/29/2023 11:56:02 AM	112.5	122.1
CHIWC023	C-23	8/8/2023 1:18:37 PM	113.5	113.5
CHIWC023	C-23	8/29/2023 5:21:07 PM	114.6	114.6
CHIWC024	C-24	8/8/2023 12:58:55 PM	112.1	112.2
CHIWC024	C-24	8/29/2023 12:04:58 PM	113.9	116.6
CHIWC025	C-25	8/10/2023 3:30:00 PM	113.0	110.0
CHIWC025	C-25	8/29/2023 12:43:36 PM	125.8	125.4
CHIWC026	C-26	8/8/2023 12:44:19 PM	112.4	112.6
CHIWC026	C-26	8/29/2023 12:58:45 PM	128.0	127.8
CHIWC027	C-27	8/10/2023 3:24:51 PM	119.9	119.9
CHIWC028	C-28	8/8/2023 12:24:58 PM	111.5	111.5
CHIWC028	C-28	8/29/2023 3:55:21 PM	114.3	114.3
CHIWC029	C-29	8/8/2023 12:15:08 PM	118.8	118.8
CHIWC029	C-29	8/29/2023 4:21:37 PM	119.1	119.1
CHIWC030	C-30	8/8/2023 11:49:54 AM	102.1	102.4
CHIWC030	C-30	8/29/2023 4:47:25 PM	113.5	115.8
CHIWCV02	CV-02	8/2/2023 11:41:29 AM	118.0	118.0
CHIWCV03	CV-03	8/2/2023 11:37:51 AM	121.4	121.4
CHIWCV04	CV-04	8/2/2023 11:33:42 AM	116.5	116.5
CHIWCV05	CV-05	8/2/2023 11:28:13 AM	104.2	104.2
CHIWCV06	CV-06	8/16/2023 2:59:17 PM	107.6	106.2
CHIWCV06	CV-06	8/16/2023 3:03:57 PM	107.5	107.5
CHIWCV07	CV-07	8/16/2023 3:09:20 PM	108.8	108.9
CHIWCV07	CV-07	8/16/2023 3:13:15 PM	109.2	109.2
CHIWCV07	CV-07	8/30/2023 11:27:50 AM	107.4	107.3
CHIWCV08	CV-08	8/16/2023 3:19:48 PM	122.7	122.7
CHIWCV09	CV-09	8/16/2023 3:24:01 PM	123.3	123.4
CHWCV100	CV-100	8/17/2023 9:51:34 AM	117.3	117.3
CHWCV103	CV-103	8/2/2023 2:34:22 PM	100.4	100.4
CHWCV103	CV-103	8/17/2023 9:29:09 AM	101.0	101.0
CV108-52	CV-108-52	8/10/2023 10:08:05 AM	128.9	128.9
CHIWCV11	CV-11	8/16/2023 2:24:15 PM	120.1	120.0
CHWCV113	CV-113	8/7/2023 9:20:59 AM	93.1	94.5

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHWCV114	CV-114	8/8/2023 9:21:01 AM	123.1	123.1
CHCV1418	CV-1418	8/15/2023 3:17:29 PM	116.4	116.4
CHCV1419	CV-1419	8/1/2023 4:18:50 PM	103.3	103.6
CHCV1420	CV-1420	8/8/2023 12:55:38 PM	127.5	127.6
CHCV1421	CV-1421	8/9/2023 9:17:48 AM	106.2	106.2
CHCV1421	CV-1421	8/30/2023 9:39:29 AM	107.1	--
CHCV1422	CV-1422	8/9/2023 11:23:40 AM	98.3	98.3
CHCV1423	CV-1423	8/9/2023 9:11:32 AM	129.8	129.8
CHCV1424	CV-1424	8/9/2023 9:43:51 AM	114.1	113.9
CHCV1424	CV-1424	8/30/2023 8:10:08 AM	115.2	115.8
CHCV1425	CV-1425	8/9/2023 1:34:33 PM	101.1	101.3
CHCV1426	CV-1426	8/9/2023 1:38:07 PM	99.6	99.6
CHCV1426	CV-1426	8/30/2023 9:26:11 AM	100.4	100.4
CHCV1532	CV-1532	8/1/2023 5:46:39 PM	150.1	150.1
CHCV1532	CV-1532	8/7/2023 9:58:38 AM	149.9	149.9
CHCV1532	CV-1532	8/8/2023 10:28:27 AM	149.8	149.8
CHCV1532	CV-1532	8/10/2023 9:55:58 AM	148.9	148.9
CHCV1532	CV-1532	8/15/2023 11:42:50 AM	148.4	148.4
CHCV1532	CV-1532	8/24/2023 3:20:24 PM	146.7	146.7
CHCV1532	CV-1532	8/29/2023 3:37:48 PM	145.6	145.6
CHCV1534	CV-1534	8/10/2023 2:28:18 PM	134.2	134.8
CHCV1534	CV-1534	8/23/2023 2:01:17 PM	109.9	109.9
CHCV1535	CV-1535	8/9/2023 10:56:03 AM	130.0	130.2
CCV1601D	CV-1601D	8/10/2023 10:05:58 AM	104.0	104.1
CCV1601S	CV-1601S	8/10/2023 10:09:21 AM	102.2	104.0
CHCV1603	CV-1603	8/10/2023 9:49:55 AM	113.1	113.2
CHCV1604	CV-1604	8/9/2023 4:49:57 PM	122.9	122.7
CHCV1605	CV-1605	8/9/2023 2:29:40 PM	97.0	97.1
CHCV1605	CV-1605	8/9/2023 2:33:07 PM	97.9	97.9
CHCV1606	CV-1606	8/16/2023 2:39:25 PM	128.5	128.5
CHCV1607	CV-1607	8/8/2023 10:46:41 AM	116.9	116.9
CCV1701D	CV-1701D	8/16/2023 11:30:41 AM	139.1	138.8
CCV1701D	CV-1701D	8/16/2023 11:33:18 AM	138.8	138.8
CCV1701D	CV-1701D	8/30/2023 3:32:45 PM	138.7	137.2
CCV1701S	CV-1701S	8/16/2023 11:17:17 AM	141.1	130.7
CCV1701S	CV-1701S	8/16/2023 11:19:28 AM	126.2	126.1
CCV1701S	CV-1701S	8/16/2023 11:22:54 AM	123.2	139.0
CCV1701S	CV-1701S	8/16/2023 11:25:33 AM	141.0	141.2
CHCV1703	CV-1703	8/9/2023 3:34:15 PM	129.5	129.5
CHCV1901	CV-1901	8/8/2023 10:08:18 AM	121.2	120.9
CHCV1901	CV-1901	8/10/2023 9:21:07 AM	118.0	117.5
CCV1902D	CV-1902D	8/1/2023 10:01:18 AM	188.8	189.1
CCV1902D	CV-1902D	8/8/2023 9:32:38 AM	190.5	190.8
CCV1902D	CV-1902D	8/15/2023 9:39:48 AM	193.0	193.0
CCV1902D	CV-1902D	8/24/2023 10:46:02 AM	192.3	192.3

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CCV1902D	CV-1902D	8/29/2023 10:55:40 AM	193.5	193.5
CCV1902S	CV-1902S	8/1/2023 10:27:15 AM	177.8	180.4
CCV1902S	CV-1902S	8/8/2023 9:36:52 AM	154.5	154.5
CCV1902S	CV-1902S	8/15/2023 9:47:26 AM	154.2	154.1
CCV1902S	CV-1902S	8/24/2023 10:50:32 AM	166.0	166.0
CCV1902S	CV-1902S	8/29/2023 11:06:20 AM	158.0	158.0
CHCV1903	CV-1903	8/1/2023 9:39:30 AM	118.5	118.0
CHCV1903	CV-1903	8/1/2023 9:43:17 AM	117.9	117.6
CHCV1905	CV-1905	8/9/2023 2:06:04 PM	110.1	110.2
CHCV1905	CV-1905	8/30/2023 10:14:52 AM	110.2	110.1
CHCV1906	CV-1906	8/9/2023 2:01:34 PM	99.5	99.5
CHCV1906	CV-1906	8/30/2023 10:41:55 AM	103.8	102.4
CHCV1907	CV-1907	8/9/2023 9:57:54 AM	111.4	111.5
CHCV1907	CV-1907	8/9/2023 9:57:55 AM	111.4	111.5
CHCV1907	CV-1907	8/24/2023 12:41:27 PM	91.4	92.7
CHCV1907	CV-1907	8/30/2023 8:55:40 AM	85.3	104.6
CHCV1907	CV-1907	8/30/2023 8:57:32 AM	107.0	107.4
CHCV2001	CV-2001	8/4/2023 3:24:38 PM	135.3	127.8
CHCV2001	CV-2001	8/4/2023 3:31:02 PM	130.9	130.6
CHCV2001	CV-2001	8/4/2023 3:34:15 PM	130.7	135.5
CHCV2001	CV-2001	8/4/2023 3:36:14 PM	138.7	138.7
CHCV2001	CV-2001	8/23/2023 1:43:20 PM	101.1	101.1
CHCV2002	CV-2002	8/1/2023 2:33:23 PM	133.4	130.9
CHCV2002	CV-2002	8/1/2023 2:39:38 PM	130.9	130.8
CHCV2002	CV-2002	8/1/2023 2:42:58 PM	130.8	137.2
CHCV2002	CV-2002	8/1/2023 2:47:04 PM	136.4	136.4
CHCV2002	CV-2002	8/23/2023 1:55:24 PM	135.2	135.5
CHCV2003	CV-2003	8/1/2023 11:23:59 AM	167.3	167.6
CHCV2003	CV-2003	8/8/2023 10:05:25 AM	177.5	177.5
CHCV2003	CV-2003	8/15/2023 10:54:56 AM	176.1	176.1
CHCV2003	CV-2003	8/24/2023 2:38:54 PM	174.4	174.4
CHCV2003	CV-2003	8/29/2023 2:58:46 PM	175.0	174.8
CHCV2004	CV-2004	8/1/2023 2:22:41 PM	161.4	161.6
CHCV2004	CV-2004	8/1/2023 2:31:37 PM	162.2	161.9
CHCV2004	CV-2004	8/2/2023 11:43:36 AM	161.4	162.3
CHCV2004	CV-2004	8/2/2023 11:47:43 AM	162.8	162.9
CHCV2004	CV-2004	8/2/2023 12:02:11 PM	162.6	164.4
CHCV2004	CV-2004	8/2/2023 3:01:17 PM	179.4	180.4
CHCV2004	CV-2004	8/8/2023 1:41:41 PM	178.6	178.6
CHCV2004	CV-2004	8/15/2023 11:52:26 AM	184.7	184.7
CHCV2004	CV-2004	8/24/2023 3:31:47 PM	188.8	188.8
CHCV2004	CV-2004	8/29/2023 4:12:35 PM	193.8	193.8
CHCV2006	CV-2006	8/8/2023 10:39:02 AM	130.3	130.4
CHCV2007	CV-2007	8/9/2023 9:06:04 AM	120.6	120.6
CHCV2008	CV-2008	8/9/2023 9:18:47 AM	125.8	125.9

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2009	CV-2009	8/9/2023 9:28:35 AM	126.3	126.2
CHCV2009	CV-2009	8/9/2023 11:20:24 AM	120.7	120.9
CCV2009A	CV-2009A	8/16/2023 2:11:53 PM	122.1	122.2
CCV2009A	CV-2009A	8/17/2023 10:28:11 AM	122.4	122.4
CCV2009A	CV-2009A	8/17/2023 4:49:35 PM	120.1	120.1
CHCV2010	CV-2010	8/9/2023 11:10:44 AM	129.3	128.7
CHCV2010	CV-2010	8/30/2023 10:38:22 AM	97.5	118.0
CCV2010A	CV-2010A	8/15/2023 10:00:01 AM	135.9	136.0
CCV2010A	CV-2010A	8/15/2023 10:03:44 AM	135.9	135.9
CCV2010A	CV-2010A	8/16/2023 1:08:47 PM	136.0	136.0
CCV2010A	CV-2010A	8/16/2023 1:11:36 PM	135.9	135.9
CCV2010A	CV-2010A	8/17/2023 10:38:36 AM	134.5	134.5
CHCV2011	CV-2011	8/9/2023 10:41:46 AM	122.7	122.8
CHCV2011	CV-2011	8/30/2023 10:56:43 AM	123.7	123.5
CCV2011A	CV-2011A	8/16/2023 1:25:51 PM	145.4	145.5
CCV2011A	CV-2011A	8/16/2023 1:35:19 PM	147.2	147.0
CCV2011A	CV-2011A	8/17/2023 10:47:22 AM	147.6	147.3
CCV2011A	CV-2011A	8/17/2023 10:53:21 AM	147.2	147.2
CCV2011A	CV-2011A	8/29/2023 2:58:22 PM	146.5	146.5
CCV2011A	CV-2011A	8/31/2023 10:19:43 AM	145.8	145.7
CHCV2012	CV-2012	8/9/2023 11:06:58 AM	130.5	130.5
CHCV2012	CV-2012	8/18/2023 8:13:09 PM	122.4	122.9
CHCV2012	CV-2012	8/18/2023 8:16:03 PM	127.7	128.9
CHCV2012	CV-2012	8/22/2023 10:52:05 AM	135.5	135.7
CHCV2012	CV-2012	8/29/2023 2:51:10 PM	136.0	136.2
CHCV2012	CV-2012	8/30/2023 3:33:28 PM	135.8	135.7
CHCV2201	CV-2201	8/1/2023 4:24:40 PM	183.2	183.2
CHCV2201	CV-2201	8/8/2023 2:12:46 PM	186.7	187.0
CHCV2201	CV-2201	8/15/2023 3:21:19 PM	187.7	187.7
CHCV2201	CV-2201	8/25/2023 9:35:01 AM	191.3	191.0
CHCV2201	CV-2201	8/30/2023 9:05:16 AM	192.0	191.8
CHCV2202	CV-2202	8/1/2023 5:01:28 PM	187.3	187.3
CHCV2202	CV-2202	8/8/2023 3:37:18 PM	187.2	187.2
CHCV2202	CV-2202	8/15/2023 4:05:04 PM	190.3	190.3
CHCV2203	CV-2203	8/1/2023 4:40:47 PM	150.5	150.5
CHCV2203	CV-2203	8/8/2023 2:34:51 PM	153.7	153.8
CHCV2203	CV-2203	8/15/2023 3:35:18 PM	153.7	153.7
CHCV2203	CV-2203	8/22/2023 10:01:47 AM	155.1	155.0
CHCV2203	CV-2203	8/31/2023 8:46:47 AM	158.3	158.3
CHCV2204	CV-2204	8/1/2023 4:02:05 PM	165.9	164.3
CHCV2204	CV-2204	8/8/2023 2:01:01 PM	165.9	165.4
CHCV2204	CV-2204	8/15/2023 2:56:25 PM	166.3	165.2
CHCV2204	CV-2204	8/22/2023 9:22:25 AM	161.4	160.8
CHCV2204	CV-2204	8/30/2023 8:51:10 AM	167.3	165.1
CHCV2205	CV-2205	8/9/2023 10:20:27 AM	120.4	120.4

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2205	CV-2205	8/24/2023 11:28:52 AM	120.6	117.6
CHCV2205	CV-2205	8/30/2023 10:05:21 AM	122.9	122.6
CHCV2205	CV-2205	8/30/2023 11:08:13 AM	123.5	123.5
CHCV2207	CV-2207	8/9/2023 11:17:02 AM	121.7	121.7
CHCV2208	CV-2208	8/8/2023 2:11:26 PM	131.5	131.6
CHCV2208	CV-2208	8/8/2023 2:14:12 PM	131.5	131.6
CCV2208A	CV-2208A	8/24/2023 10:39:35 AM	134.7	131.3
CCV2208A	CV-2208A	8/24/2023 10:43:47 AM	130.6	130.4
CCV2208A	CV-2208A	8/25/2023 10:23:51 AM	133.0	132.5
CHCV2301	CV-2301	8/29/2023 10:37:52 AM	100.2	102.3
CHCV2301	CV-2301	8/31/2023 11:21:16 AM	137.6	139.1
CHCV2303	CV-2303	8/24/2023 9:12:05 AM	88.7	96.6
CHCV2303	CV-2303	8/25/2023 12:01:02 PM	121.3	122.4
CHCV2304	CV-2304	8/29/2023 2:48:39 PM	132.4	129.3
CHCV2304	CV-2304	8/29/2023 2:52:26 PM	134.3	134.3
CHCV2305	CV-2305	8/24/2023 9:52:53 AM	88.9	105.4
CHCV2308	CV-2308	8/29/2023 2:29:48 PM	179.6	181.3
CHCV2310	CV-2310	8/30/2023 10:25:32 AM	123.3	140.4
CHCV2310	CV-2310	8/30/2023 10:30:21 AM	140.0	140.1
CHCV2310	CV-2310	8/31/2023 10:32:28 AM	138.9	143.9
CHCV2311	CV-2311	8/24/2023 8:45:54 AM	83.9	92.1
CHCV2311	CV-2311	8/24/2023 8:52:10 AM	91.2	91.2
CHCV2311	CV-2311	8/25/2023 12:14:55 PM	112.3	112.3
CHCV2311	CV-2311	8/31/2023 11:09:06 AM	115.6	118.8
CHCV2312	CV-2312	8/24/2023 10:18:17 AM	83.0	118.5
CHCV2314	CV-2314	8/24/2023 9:31:36 AM	88.0	114.9
CHCV2316	CV-2316	8/15/2023 9:26:13 AM	141.1	140.8
CHCV2316	CV-2316	8/15/2023 9:34:18 AM	140.8	140.4
CHCV2316	CV-2316	8/15/2023 1:32:21 PM	141.0	141.4
CHCV2316	CV-2316	8/15/2023 1:35:46 PM	141.2	141.2
CHCV2316	CV-2316	8/16/2023 12:52:18 PM	141.8	141.8
CHCV2316	CV-2316	8/17/2023 10:20:41 AM	141.5	141.5
CHCV2319	CV-2319	8/15/2023 2:21:15 PM	135.8	136.0
CHCV2319	CV-2319	8/16/2023 1:46:36 PM	135.9	135.9
CHCV2319	CV-2319	8/17/2023 4:17:11 PM	135.2	135.3
CHCV2319	CV-2319	8/17/2023 4:23:15 PM	135.3	135.3
CHCV2319	CV-2319	8/24/2023 9:43:56 AM	134.8	135.0
CHCV2321	CV-2321	8/16/2023 2:22:46 PM	120.1	120.4
CHCV2321	CV-2321	8/16/2023 2:25:05 PM	120.4	120.4
CHCV2321	CV-2321	8/17/2023 4:31:29 PM	120.1	119.8
CHCV2324	CV-2324	8/15/2023 10:55:23 AM	116.7	116.7
CHCV2324	CV-2324	8/15/2023 11:01:40 AM	116.7	116.7
CHCV2324	CV-2324	8/15/2023 2:36:26 PM	117.0	116.8
CHCV2324	CV-2324	8/15/2023 2:41:53 PM	116.6	116.6
CHCV2324	CV-2324	8/16/2023 1:01:50 PM	117.1	117.1

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2324	CV-2324	8/17/2023 5:06:24 PM	116.4	116.4
CHCV2324	CV-2324	8/24/2023 11:16:23 AM	113.3	113.1
CHCV2326	CV-2326	8/24/2023 9:02:17 AM	87.8	87.8
CHCV2326	CV-2326	8/25/2023 12:09:05 PM	98.6	98.6
CHCV2326	CV-2326	8/31/2023 11:00:24 AM	112.0	111.0
CHIWCV25	CV-25	8/10/2023 2:55:29 PM	111.2	111.2
CHIWCV25	CV-25	8/10/2023 3:25:29 PM	111.9	112.0
CHIWCV25	CV-25	8/29/2023 12:29:55 PM	116.6	116.6
CHICV30S	CV-30S	8/8/2023 1:58:38 PM	125.0	125.0
CHICV31S	CV-31S	8/8/2023 1:46:08 PM	131.6	131.8
CHICV31S	CV-31S	8/8/2023 1:48:25 PM	131.8	132.0
CHICV31S	CV-31S	8/23/2023 2:44:09 PM	135.0	135.0
CHICV33S	CV-33S	8/3/2023 10:49:42 AM	125.2	125.1
CHICV34D	CV-34D	8/28/2023 10:25:44 AM	97.8	98.9
CHICV34S	CV-34S	8/28/2023 10:30:17 AM	100.8	100.8
CHICV35D	CV-35D	8/16/2023 2:11:27 PM	115.7	115.3
CHWCV48R	CV-48R	8/8/2023 1:36:47 PM	127.9	127.9
CHWCV52D	CV-52D	8/3/2023 10:02:06 AM	135.2	133.4
CHWCV52D	CV-52D	8/3/2023 10:04:49 AM	133.3	133.4
CHWCV53D	CV-53D	8/3/2023 10:14:48 AM	132.5	130.9
CHWCV53D	CV-53D	8/3/2023 10:18:40 AM	130.6	130.6
CHWCV53S	CV-53S	8/3/2023 10:26:29 AM	135.6	135.4
CHWCV53S	CV-53S	8/3/2023 10:29:22 AM	135.3	135.2
CHWCV54D	CV-54D	8/3/2023 10:43:05 AM	101.9	102.2
CHWCV54S	CV-54S	8/3/2023 10:36:23 AM	140.6	140.0
CHWCV54S	CV-54S	8/3/2023 10:36:29 AM	140.6	140.0
CHWCV54S	CV-54S	8/3/2023 10:39:13 AM	140.0	140.0
CHWCV55R	CV-55R	8/1/2023 5:30:18 PM	148.3	148.3
CHWCV55R	CV-55R	8/8/2023 4:14:11 PM	147.3	147.3
CHWCV55R	CV-55R	8/15/2023 4:23:16 PM	147.6	147.4
CHWCV55R	CV-55R	8/22/2023 10:31:51 AM	147.0	144.9
CHWCV55R	CV-55R	8/22/2023 10:34:26 AM	144.9	144.9
CHWCV55R	CV-55R	8/22/2023 11:34:24 AM	144.3	144.3
CHWCV55R	CV-55R	8/31/2023 9:06:23 AM	146.3	146.3
CHWCV56D	CV-56D	8/16/2023 1:46:21 PM	129.2	129.2
CHWCV56D	CV-56D	8/16/2023 1:49:13 PM	128.8	128.8
CHWCV56S	CV-56S	8/16/2023 1:52:03 PM	126.5	126.5
CHWCV57R	CV-57R	8/9/2023 10:38:43 AM	111.6	111.6
CHWCV57R	CV-57R	8/30/2023 11:25:55 AM	113.2	111.8
CHWCV74R	CV-74R	8/2/2023 2:13:03 PM	109.3	109.5
CHWCV79R	CV-79R	8/9/2023 3:52:44 PM	129.3	129.4
CHWCV84S	CV-84S	8/9/2023 1:52:00 PM	105.7	105.7
CHWCV84S	CV-84S	8/30/2023 9:09:49 AM	102.3	102.4
CHWCV85S	CV-85S	8/9/2023 2:02:38 PM	104.1	104.1
CHWCV85S	CV-85S	8/30/2023 10:23:01 AM	104.8	104.9

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWCV94	CV-94	8/9/2023 10:48:17 AM	115.4	115.6
CHIWCV95	CV-95	8/9/2023 10:32:51 AM	110.1	110.1
CHIWCV95	CV-95	8/30/2023 11:35:04 AM	111.3	112.4
CHIWCV95	CV-95	8/30/2023 2:46:47 PM	112.8	112.9
CHIWCV99	CV-99	8/28/2023 8:24:52 AM	122.1	122.1
CHIWD001	D-01	8/22/2023 10:04:25 AM	86.7	86.7
CHIWD002	D-02	8/22/2023 10:10:14 AM	95.0	95.0
CHIWD003	D-03	8/22/2023 10:17:00 AM	99.5	99.5
CHIWD004	D-04	8/28/2023 1:49:13 PM	109.2	109.2
CHIWD005	D-05	8/28/2023 1:51:49 PM	113.0	113.0
CHIWD006	D-06	8/11/2023 2:11:50 PM	103.9	103.9
CHIWD009	D-09	8/10/2023 9:15:17 AM	111.3	111.5
CHIWD010	D-10	8/10/2023 8:55:25 AM	90.1	90.1
CHIWH001	H-01 (EXP-01)	8/10/2023 3:16:04 PM	107.4	92.4
CHIWH001	H-01 (EXP-01)	8/29/2023 10:22:45 AM	94.3	95.2
CHIWH002	H-02 (EXP-02)	8/10/2023 3:09:53 PM	126.6	111.5
CHIWH002	H-02 (EXP-02)	8/29/2023 11:29:35 AM	126.0	123.1
CHIWH003	H-03 (EXP-03)	8/8/2023 10:22:27 AM	125.3	125.3
CHIWH003	H-03 (EXP-03)	8/29/2023 11:15:41 AM	124.2	125.3
CHIWH004	H-04 (EXP-04)	8/7/2023 8:59:30 AM	135.9	135.8
CHIWH006	H-06 (EXP-06)	8/28/2023 4:26:31 PM	109.6	110.3
CHIWH006	H-06 (EXP-06)	8/29/2023 5:44:07 PM	110.3	109.3
CHIWH008	H-08 (EXP-08)	8/28/2023 4:22:59 PM	116.9	117.7
CHIWH008	H-08 (EXP-08)	8/29/2023 5:47:18 PM	104.7	104.9
CHIWH009	H-09 (EXP-09)	8/28/2023 4:19:32 PM	118.2	118.1
CHIWH009	H-09 (EXP-09)	8/29/2023 5:49:00 PM	117.5	118.3
CHIWH010	H-10 (EXP-10)	8/11/2023 9:29:51 AM	120.3	120.1
CHIWH010	H-10 (EXP-10)	8/29/2023 5:58:01 PM	122.6	121.7
CHIH101W	H-101W	8/10/2023 9:00:54 AM	118.5	118.8
CHIH101W	H-101W	8/10/2023 12:37:37 PM	90.7	86.4
CHIH101W	H-101W	8/10/2023 12:41:08 PM	88.4	88.2
CHIH101W	H-101W	8/24/2023 4:29:59 PM	99.0	100.3
CHWH102A	H-102A	8/10/2023 12:50:34 PM	89.1	89.4
CHWH104A	H-104A	8/10/2023 12:48:17 PM	97.6	97.7
CHIWH012	H-12 (EXP-12)	8/11/2023 9:47:02 AM	106.2	106.2
CHIWH013	H-13 (EXP-13)	8/11/2023 9:43:22 AM	95.6	96.0
CHIWH014	H-14 (EXP-14)	8/29/2023 8:21:48 AM	0.0	0.0
CHH1401W	H-1401W	8/10/2023 12:53:50 PM	100.0	100.0
CHH1402C	H-1402C	8/10/2023 10:01:48 AM	118.9	118.8
CHH1403W	H-1403W	8/9/2023 1:38:07 PM	98.7	98.7
CHH1404C	H-1404C	8/10/2023 11:17:17 AM	112.1	112.0
CHH1405C	H-1405C	8/9/2023 11:24:28 AM	116.4	116.6
CHH1405E	H-1405E	8/17/2023 9:41:47 AM	114.4	114.4
CHH1405W	H-1405W	8/28/2023 4:03:44 PM	130.7	130.9
CHH1406W	H-1406W	8/10/2023 1:24:40 PM	88.4	88.0

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1406W	H-1406W	8/24/2023 4:58:42 PM	100.3	100.4
CH1408CR	H-1408CR	8/10/2023 10:29:26 AM	106.9	107.0
CHH1408E	H-1408E	8/9/2023 2:42:27 PM	96.3	97.2
CHH1408W	H-1408W	8/10/2023 11:18:23 AM	112.1	112.2
CHH1409N	H-1409N	8/9/2023 2:48:34 PM	95.9	96.6
CHH1410S	H-1410S	8/10/2023 9:46:20 AM	94.0	94.3
CHH1551C	H-1551C	8/10/2023 10:19:49 AM	132.2	131.9
CHH1552A	H-1552A	8/10/2023 3:14:26 PM	115.7	115.7
CHH1560N	H-1560N	8/11/2023 3:28:57 PM	134.7	134.6
CHH1560S	H-1560S	8/10/2023 1:41:18 PM	105.4	105.6
CHH1561C	H-1561C	8/1/2023 11:55:54 AM	165.5	165.5
CHH1561C	H-1561C	8/7/2023 10:58:47 AM	163.2	130.9
CHH1561C	H-1561C	8/7/2023 11:01:18 AM	130.7	130.7
CHH1561C	H-1561C	8/7/2023 11:03:53 AM	129.2	151.0
CHH1561C	H-1561C	8/7/2023 11:08:26 AM	160.4	164.8
CHH1561C	H-1561C	8/8/2023 10:34:12 AM	163.4	163.2
CHH1561C	H-1561C	8/15/2023 11:33:34 AM	154.3	155.4
CHH1561C	H-1561C	8/24/2023 2:50:15 PM	157.6	157.3
CHH1561C	H-1561C	8/29/2023 3:13:19 PM	164.8	164.8
CHH1561N	H-1561N	8/1/2023 2:36:22 PM	191.5	191.3
CHH1561N	H-1561N	8/8/2023 10:55:29 AM	182.5	182.8
CHH1561N	H-1561N	8/15/2023 1:45:09 PM	168.0	167.0
CHH1561N	H-1561N	8/24/2023 3:47:42 PM	132.6	133.0
CHH1561N	H-1561N	8/29/2023 4:30:06 PM	130.6	130.5
CHH1561N	H-1561N	8/29/2023 4:35:35 PM	124.1	123.9
CHH1562N	H-1562N	8/7/2023 10:27:59 AM	125.2	125.1
CHH1563N	H-1563N	8/9/2023 2:03:49 PM	110.2	110.5
CHH1563S	H-1563S	8/9/2023 11:29:25 AM	119.0	118.8
CHH1564N	H-1564N	8/17/2023 9:45:42 AM	107.3	107.3
CHH1565C	H-1565C	8/2/2023 2:38:02 PM	112.1	112.1
CHH1565E	H-1565E	8/9/2023 2:22:06 PM	99.8	100.0
CHH1568N	H-1568N	8/9/2023 2:27:18 PM	90.4	90.7
CHH1568S	H-1568S	8/9/2023 3:12:48 PM	93.6	93.9
CHH1569S	H-1569S	8/9/2023 4:36:29 PM	97.2	97.3
CHH1571S	H-1571S	8/9/2023 4:54:37 PM	122.0	121.8
CHH1572N	H-1572N	8/9/2023 3:45:12 PM	122.1	121.7
CHH1572S	H-1572S	8/9/2023 4:46:34 PM	117.0	117.0
CHH1573S	H-1573S	8/7/2023 5:06:28 PM	134.0	133.3
CHH1574N	H-1574N	8/10/2023 12:17:45 PM	114.1	114.4
CHH1574N	H-1574N	8/10/2023 12:19:07 PM	113.9	113.8
CHH1574N	H-1574N	8/24/2023 4:41:54 PM	103.0	103.5
CHIH1575	H-1575	8/10/2023 12:33:16 PM	89.3	89.4
CHH1751N	H-1751N	8/8/2023 1:39:56 PM	159.1	160.1
CHH1751N	H-1751N	8/8/2023 1:43:07 PM	162.3	163.4
CHH1751N	H-1751N	8/15/2023 10:29:46 AM	161.4	161.4

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1751N	H-1751N	8/22/2023 10:41:06 AM	162.8	162.8
CHH1751N	H-1751N	8/29/2023 10:07:56 AM	164.1	164.1
CHH1751S	H-1751S	8/7/2023 10:12:48 AM	128.6	128.6
CHH1752N	H-1752N	8/2/2023 10:59:04 AM	101.8	101.9
CHH1752N	H-1752N	8/17/2023 1:23:33 PM	123.4	123.6
CHH1752S	H-1752S	8/9/2023 10:48:32 AM	105.1	104.6
CHH1753N	H-1753N	8/2/2023 10:44:37 AM	111.9	113.2
CHH1753S	H-1753S	8/9/2023 2:19:32 PM	117.6	117.3
CHH1754N	H-1754N	8/2/2023 10:37:46 AM	131.1	131.0
CHH1754N	H-1754N	8/2/2023 10:40:04 AM	131.1	131.2
CHH1754N	H-1754N	8/16/2023 5:40:56 PM	127.0	127.0
CHH1754S	H-1754S	8/2/2023 2:44:17 PM	99.5	99.2
CHH1755N	H-1755N	8/1/2023 3:27:03 PM	103.3	102.9
CHH1755N	H-1755N	8/1/2023 3:27:07 PM	103.3	102.9
CHH1755N	H-1755N	8/1/2023 3:29:35 PM	101.9	101.9
CHH1755N	H-1755N	8/10/2023 2:39:09 PM	101.5	103.8
CHH1755S	H-1755S	8/10/2023 2:53:33 PM	92.4	92.8
CHH1755S	H-1755S	8/18/2023 3:13:22 PM	107.3	107.3
CHH1755S	H-1755S	8/30/2023 3:05:00 PM	112.6	113.2
CHH1756N	H-1756N	8/7/2023 10:19:37 AM	114.6	114.7
CHH1756S	H-1756S	8/10/2023 10:47:04 AM	117.0	117.0
CHH1757N	H-1757N	8/1/2023 11:06:45 AM	148.9	149.0
CHH1757N	H-1757N	8/1/2023 11:08:58 AM	149.1	149.1
CHH1757N	H-1757N	8/8/2023 9:54:15 AM	151.3	151.2
CHH1757N	H-1757N	8/15/2023 10:15:11 AM	152.5	152.5
CHH1757N	H-1757N	8/24/2023 10:56:49 AM	153.7	153.7
CHH1757N	H-1757N	8/29/2023 11:23:59 AM	154.3	154.3
CHH1757S	H-1757S	8/9/2023 11:16:25 AM	112.9	112.7
CH1758NR	H-1758NR	8/9/2023 2:11:32 PM	116.2	116.1
CHH1759N	H-1759N	8/17/2023 9:21:24 AM	96.0	97.2
CHH1759N	H-1759N	8/17/2023 9:23:09 AM	101.3	101.4
CHH1759S	H-1759S	8/10/2023 11:33:07 AM	110.5	110.5
CHH1760N	H-1760N	8/2/2023 2:30:40 PM	99.4	100.6
CHH1760S	H-1760S	8/10/2023 11:12:17 AM	110.8	110.9
CHH1762N	H-1762N	8/9/2023 2:19:13 PM	92.7	92.7
CHH1763N	H-1763N	8/9/2023 2:08:59 PM	121.9	121.9
CHH1763S	H-1763S	8/9/2023 4:43:34 PM	127.4	127.4
CHH1764N	H-1764N	8/9/2023 4:14:16 PM	100.1	100.2
CHH1764S	H-1764S	8/28/2023 10:57:50 AM	114.8	114.5
CHH1765N	H-1765N	8/9/2023 4:16:29 PM	89.5	89.5
CHH1766N	H-1766N	8/10/2023 3:08:14 PM	116.5	116.7
CHH1766N	H-1766N	8/23/2023 2:13:40 PM	128.6	128.6
CHH1766S	H-1766S	8/10/2023 1:51:56 PM	91.4	94.6
CHH1767N	H-1767N	8/16/2023 2:33:02 PM	124.2	124.2
CHH1767S	H-1767S	8/16/2023 2:34:43 PM	108.7	108.8

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1768N	H-1768N	8/7/2023 9:39:25 AM		
CHH1768N	H-1768N	8/7/2023 9:43:17 AM	96.9	97.0
CHH1769A	H-1769A	8/1/2023 10:08:37 AM	122.8	123.4
CHH1769B	H-1769B	8/2/2023 10:54:36 AM	106.4	106.4
CHH1769N	H-1769N	8/1/2023 10:42:34 AM	121.4	121.7
CHH1769S	H-1769S	8/17/2023 9:59:15 AM	101.7	102.3
CHH1770A	H-1770A	8/1/2023 9:49:24 AM	129.6	130.8
CHH1770B	H-1770B	8/1/2023 10:35:10 AM	154.3	154.5
CHH1770B	H-1770B	8/1/2023 10:38:53 AM	154.3	154.5
CHH1770B	H-1770B	8/8/2023 9:20:00 AM	157.0	156.9
CHH1770B	H-1770B	8/15/2023 9:29:36 AM	156.5	156.5
CHH1770B	H-1770B	8/22/2023 10:44:18 AM	159.8	159.8
CHH1770B	H-1770B	8/29/2023 10:03:20 AM	158.4	158.4
CHH1770N	H-1770N	8/1/2023 10:33:42 AM	123.2	124.2
CHH1770S	H-1770S	8/9/2023 11:08:16 AM	119.3	119.3
CHH1771A	H-1771A	8/9/2023 10:05:35 AM	119.0	119.0
CHH1771B	H-1771B	8/9/2023 9:11:17 AM	108.5	108.9
CHH1771N	H-1771N	8/9/2023 1:40:53 PM	103.6	103.7
CHH1771N	H-1771N	8/30/2023 10:08:17 AM	104.9	104.9
CHH1771S	H-1771S	8/9/2023 2:16:45 PM	111.7	111.7
CHH1772A	H-1772A	8/28/2023 2:09:21 PM	119.3	119.2
CHH1772B	H-1772B	8/9/2023 11:43:52 AM	109.7	109.8
CHH1772C	H-1772C	8/9/2023 1:48:31 PM	97.8	97.9
CHH1772C	H-1772C	8/30/2023 10:54:19 AM	107.3	108.1
CHH1772N	H-1772N	8/9/2023 1:44:29 PM	98.3	98.4
CHH1772N	H-1772N	8/30/2023 11:23:11 AM	101.1	101.2
CHH1772S	H-1772S	8/10/2023 11:30:42 AM	116.5	116.6
CHH1773A	H-1773A	8/8/2023 9:36:07 AM	168.8	168.8
CHH1773A	H-1773A	8/15/2023 8:51:48 AM	170.5	170.5
CHH1773A	H-1773A	8/29/2023 8:38:12 AM	173.3	173.3
CHH1773B	H-1773B	8/1/2023 2:58:33 PM	108.9	108.9
CHH1773C	H-1773C	8/2/2023 2:07:23 PM	111.0	111.3
CHH1773N	H-1773N	8/1/2023 3:19:47 PM	122.2	122.8
CHH1773N	H-1773N	8/1/2023 3:21:53 PM	122.4	122.5
CHH1774A	H-1774A	8/1/2023 9:21:43 AM	157.0	157.7
CHH1774A	H-1774A	8/8/2023 8:43:57 AM	155.7	156.3
CHH1774A	H-1774A	8/15/2023 9:04:08 AM	156.3	156.9
CHH1774A	H-1774A	8/24/2023 10:16:34 AM	161.7	162.0
CHH1774A	H-1774A	8/29/2023 9:27:12 AM	157.8	157.4
CHH1774B	H-1774B	8/1/2023 9:38:08 AM	188.8	189.1
CHH1774B	H-1774B	8/8/2023 9:10:57 AM	189.1	189.1
CHH1774B	H-1774B	8/15/2023 9:23:39 AM	189.5	189.5
CHH1774B	H-1774B	8/24/2023 10:28:30 AM	186.3	186.5
CHH1774B	H-1774B	8/29/2023 9:51:18 AM	185.6	185.6
CHH1774N	H-1774N	8/8/2023 9:49:10 AM	112.9	112.9

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1774S	H-1774S	8/10/2023 10:31:24 AM	124.3	124.3
CHH1801S	H-1801S	8/9/2023 3:29:30 PM	126.3	126.3
CHH1802N	H-1802N	8/9/2023 9:49:33 AM	107.5	107.6
CHH1802N	H-1802N	8/30/2023 8:37:14 AM	109.0	108.9
CHH1802S	H-1802S	8/9/2023 3:48:35 PM	127.4	127.4
CHH1803N	H-1803N	8/1/2023 8:49:37 AM	179.0	179.2
CHH1803N	H-1803N	8/8/2023 8:21:12 AM	176.9	177.1
CHH1803N	H-1803N	8/15/2023 8:22:03 AM	175.7	175.9
CHH1803N	H-1803N	8/24/2023 9:51:32 AM	177.5	177.6
CHH1803N	H-1803N	8/29/2023 9:07:55 AM	177.1	177.1
CHH1804A	H-1804A	8/9/2023 9:29:31 AM	111.5	111.6
CHH1804B	H-1804B	8/9/2023 1:45:28 PM	98.1	98.1
CHH1804B	H-1804B	8/30/2023 9:21:45 AM	96.8	96.7
CHH1804N	H-1804N	8/9/2023 9:44:56 AM	116.8	116.9
CHH1804S	H-1804S	8/9/2023 4:10:17 PM	110.6	110.6
CHH1805A	H-1805A	8/9/2023 9:46:27 AM	120.7	120.7
CHH1805A	H-1805A	8/30/2023 8:14:19 AM	121.3	121.3
CHH1805B	H-1805B	8/9/2023 4:19:46 PM	108.0	108.0
CHH1805S	H-1805S	8/9/2023 4:02:56 PM	126.0	126.3
CHH1806A	H-1806A	8/9/2023 11:21:22 AM	116.9	116.9
CHH1806B	H-1806B	8/28/2023 10:21:20 AM	112.6	113.3
CHH1806N	H-1806N	8/8/2023 2:17:06 PM	125.0	125.0
CHH1806S	H-1806S	8/9/2023 3:48:46 PM	111.5	111.5
CHH1807A	H-1807A	8/9/2023 10:57:57 AM	118.7	118.7
CHH1807N	H-1807N	8/22/2023 10:59:21 AM	128.9	124.6
CHH1807S	H-1807S	8/9/2023 3:19:07 PM	102.8	102.9
CHH1951W	H-1951W	8/28/2023 10:45:33 AM	116.1	116.2
CHH1951W	H-1951W	8/28/2023 10:50:56 AM	116.4	116.6
CHH1952C	H-1952C	8/1/2023 3:10:58 PM	118.8	118.8
CHH1952C	H-1952C	8/1/2023 3:13:26 PM	118.9	118.9
CHH1952N	H-1952N	8/8/2023 12:45:56 PM	122.3	122.3
CHH1952S	H-1952S	8/2/2023 2:21:01 PM	118.5	118.5
CHH1953C	H-1953C	8/9/2023 11:45:33 AM	99.1	99.6
CHH1953C	H-1953C	8/30/2023 10:01:30 AM	97.2	97.4
CHH1953N	H-1953N	8/9/2023 10:14:09 AM	115.1	115.6
CHH1953S	H-1953S	8/9/2023 2:07:37 PM	102.4	101.3
CHH1954C	H-1954C	8/9/2023 9:23:14 AM	111.2	111.2
CHH1954N	H-1954N	8/9/2023 9:52:09 AM	111.8	112.1
CHH1954N	H-1954N	8/9/2023 9:55:32 AM	113.0	113.0
CHH1954N	H-1954N	8/24/2023 3:21:35 PM	112.9	114.2
CHH1954S	H-1954S	8/9/2023 1:56:26 PM	96.4	96.7
CHH1954S	H-1954S	8/30/2023 10:28:19 AM	94.9	90.1
CHH1955C	H-1955C	8/9/2023 9:39:36 AM	110.7	111.3
CHH1955C	H-1955C	8/30/2023 8:28:14 AM	108.8	108.9
CHH1955N	H-1955N	8/9/2023 9:37:30 AM	102.7	101.9

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1955S	H-1955S	8/9/2023 1:49:18 PM	107.1	107.1
CHH1955S	H-1955S	8/30/2023 9:04:59 AM	107.0	107.0
CHH1956B	H-1956B	8/9/2023 10:02:10 AM	108.2	108.2
CHH1956B	H-1956B	8/24/2023 12:22:14 PM	102.8	102.9
CHH1956B	H-1956B	8/30/2023 8:50:22 AM	102.5	102.4
CHH1956N	H-1956N	8/8/2023 2:07:13 PM	113.0	113.0
CHH1956S	H-1956S	8/9/2023 3:59:39 PM	118.8	118.8
CHH1957A	H-1957A	8/9/2023 11:18:18 AM	94.9	96.4
CHH1957B	H-1957B	8/9/2023 10:25:16 AM	104.9	105.3
CHH1957N	H-1957N	8/8/2023 2:21:49 PM	117.7	117.7
CHH1957S	H-1957S	8/9/2023 3:26:16 PM	130.7	130.7
CHH1958C	H-1958C	8/9/2023 11:02:58 AM	125.6	123.6
CHH1958C	H-1958C	8/29/2023 2:32:30 PM	124.5	124.5
CHH1958N	H-1958N	8/22/2023 11:03:50 AM	96.3	93.4
CHH1958S	H-1958S	8/28/2023 10:29:21 AM	120.6	120.6
CHH1962A	H-1962A	8/1/2023 9:54:28 AM	94.9	95.0
CHH1962B	H-1962B	8/22/2023 10:52:35 AM	190.0	190.0
CHH1962B	H-1962B	8/22/2023 10:56:20 AM	190.5	190.5
CHH1962B	H-1962B	8/31/2023 9:24:41 AM	179.4	179.4
CHH1962N	H-1962N	8/1/2023 10:28:31 AM	150.7	149.0
CHH1962N	H-1962N	8/1/2023 11:54:44 AM	146.9	146.9
CHH1962N	H-1962N	8/2/2023 10:05:37 AM	150.1	150.1
CHH1962N	H-1962N	8/2/2023 11:24:44 AM	146.4	146.4
CHH1962N	H-1962N	8/3/2023 12:55:47 PM	135.5	135.5
CHH1962N	H-1962N	8/4/2023 10:57:10 AM	134.4	134.3
CHH1962S	H-1962S	8/9/2023 10:25:53 AM	167.2	167.4
CHH1962S	H-1962S	8/9/2023 10:40:34 AM	168.3	168.3
CHH1962S	H-1962S	8/9/2023 1:54:10 PM	169.2	169.4
CHH1962S	H-1962S	8/15/2023 10:18:47 AM	168.0	168.0
CHH1962S	H-1962S	8/24/2023 12:23:16 PM	174.6	174.6
CHH1962S	H-1962S	8/29/2023 11:29:57 AM	175.3	175.2
CHH1963A	H-1963A	8/1/2023 10:02:15 AM	124.9	124.9
CHH1963N	H-1963N	8/1/2023 10:37:32 AM	119.4	119.4
CHH1964C	H-1964C	8/2/2023 10:15:15 AM	98.6	98.8
CHH1964N	H-1964N	8/8/2023 1:10:41 PM	129.5	129.6
CHH1964N	H-1964N	8/10/2023 9:39:17 AM	129.9	130.0
CHH1964S	H-1964S	8/17/2023 9:36:27 AM	107.6	109.0
CHH1965C	H-1965C	8/2/2023 10:24:06 AM	125.5	124.7
CHH1965S	H-1965S	8/2/2023 2:25:26 PM	98.1	96.7
CHH1966N	H-1966N	8/8/2023 9:58:02 AM	111.7	111.6
CHH1966S	H-1966S	8/8/2023 10:23:52 AM	113.9	113.9
CHH1967E	H-1967E	8/10/2023 9:10:31 AM	117.7	118.6
CHH1967E	H-1967E	8/10/2023 9:11:53 AM	118.7	118.7
CHH1967W	H-1967W	8/28/2023 2:57:20 PM	99.7	99.1
CHH1967W	H-1967W	8/28/2023 2:58:49 PM	98.8	98.9

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2051W	H-2051W	8/28/2023 3:04:04 PM	104.1	104.0
CHH2052W	H-2052W	8/28/2023 2:49:03 PM	120.6	120.4
CHH2052W	H-2052W	8/28/2023 2:52:53 PM	119.2	119.2
CHH2052W	H-2052W	8/28/2023 3:10:48 PM	120.8	121.0
CHH2053E	H-2053E	8/29/2023 10:49:01 AM	119.2	119.2
CHH2053W	H-2053W	8/10/2023 12:43:34 PM	87.2	87.4
CHH2054E	H-2054E	8/10/2023 9:03:38 AM	118.4	118.4
CHH2054W	H-2054W	8/10/2023 11:05:03 AM	107.0	107.1
CHH2055E	H-2055E	8/10/2023 10:39:17 AM	109.5	109.5
CHH2056E	H-2056E	8/28/2023 11:26:32 AM	99.1	99.0
CHH2056W	H-2056W	8/28/2023 3:06:54 PM	108.4	108.5
CHH2057E	H-2057E	8/29/2023 10:52:41 AM	122.0	122.1
CHH2057W	H-2057W	8/10/2023 12:58:37 PM	92.8	92.7
CHH2058A	H-2058A	8/10/2023 9:23:40 AM	114.3	114.3
CHH2058B	H-2058B	8/10/2023 9:32:58 AM	99.4	99.4
CHH2058E	H-2058E	8/10/2023 9:18:25 AM	107.4	106.6
CHH2058W	H-2058W	8/10/2023 1:05:11 PM	90.9	91.0
CHH2059W	H-2059W	8/10/2023 11:50:22 AM	115.6	115.6
CHH2160B	H-2160B	8/10/2023 9:30:28 AM	117.5	117.6
CHH2160E	H-2160E	8/10/2023 9:42:29 AM	112.5	112.6
CHH2160E	H-2160E	8/16/2023 10:43:33 AM	114.9	114.9
CHH2161W	H-2161W	8/10/2023 11:43:15 AM	115.0	115.1
CHH2162B	H-2162B	8/10/2023 10:24:02 AM	106.5	106.7
CHH2162W	H-2162W	8/28/2023 3:37:20 PM	117.5	117.5
CHH2163C	H-2163C	8/10/2023 10:12:01 AM	108.6	108.6
CHH2163E	H-2163E	8/10/2023 9:54:02 AM	101.7	102.3
CHH2163E	H-2163E	8/16/2023 10:48:28 AM	104.9	104.9
CHH2163W	H-2163W	8/10/2023 11:11:03 AM	110.2	110.1
CHH2164A	H-2164A	8/9/2023 3:40:04 PM	111.1	111.1
CHH2164B	H-2164B	8/10/2023 10:27:23 AM	108.1	108.2
CHH2164E	H-2164E	8/9/2023 2:38:43 PM	122.7	122.5
CHH2165E	H-2165E	8/9/2023 4:57:39 PM	110.6	110.6
CHH2165W	H-2165W	8/10/2023 11:27:36 AM	121.2	121.6
CHH2166A	H-2166A	8/9/2023 11:42:14 AM	92.8	93.3
CHH2166A	H-2166A	8/30/2023 9:51:59 AM	94.9	96.3
CHH2166C	H-2166C	8/9/2023 11:26:41 AM	113.2	113.2
CHH2166E	H-2166E	8/9/2023 11:02:21 AM	117.2	117.2
CHH2166W	H-2166W	8/1/2023 3:03:01 PM	97.3	97.2
CHH2166W	H-2166W	8/1/2023 3:04:29 PM	97.7	97.6
CHH2166W	H-2166W	8/9/2023 2:00:13 PM	83.2	85.5
CHH2167A	H-2167A	8/9/2023 1:35:38 PM	103.6	104.7
CHH2167A	H-2167A	8/30/2023 9:29:24 AM	102.3	103.8
CHH2167B	H-2167B	8/9/2023 9:34:36 AM	91.2	91.3
CHH2167B	H-2167B	8/30/2023 8:18:45 AM	81.6	84.3
CHH2167B	H-2167B	8/30/2023 8:21:46 AM	85.2	85.2

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2167E	H-2167E	8/9/2023 10:54:50 AM	96.7	96.8
CHH2167E	H-2167E	8/18/2023 2:16:24 PM	104.4	104.5
CHH2167W	H-2167W	8/1/2023 3:24:49 PM	97.3	97.4
CHH2168A	H-2168A	8/9/2023 1:54:23 PM	95.3	94.8
CHH2168A	H-2168A	8/30/2023 10:47:59 AM	102.7	103.0
CHH2168C	H-2168C	8/9/2023 10:09:38 AM	90.5	90.7
CHH2168C	H-2168C	8/30/2023 8:44:25 AM	86.8	86.5
CHH2168C	H-2168C	8/30/2023 10:57:45 AM	102.1	102.4
CHH2168E	H-2168E	8/9/2023 10:29:56 AM	109.2	109.1
CHH2169B	H-2169B	8/9/2023 2:00:14 PM	105.4	105.4
CHH2169B	H-2169B	8/30/2023 10:34:15 AM	106.5	106.6
CHH2169C	H-2169C	8/9/2023 9:53:21 AM	89.3	89.4
CHH2169C	H-2169C	8/24/2023 12:55:16 PM	90.1	90.2
CHH2169C	H-2169C	8/30/2023 9:01:57 AM	89.0	89.4
CHH2169E	H-2169E	8/9/2023 10:15:54 AM	117.5	116.9
CHH2169E	H-2169E	8/24/2023 11:48:43 AM	121.3	121.4
CHH2169E	H-2169E	8/24/2023 12:06:54 PM	118.7	119.0
CHH2169W	H-2169W	8/2/2023 2:17:45 PM	97.4	97.7
CHH2170N	H-2170N	8/3/2023 10:57:18 AM	117.1	117.1
CHH2170S	H-2170S	8/2/2023 11:45:23 AM	87.4	87.5
CHH2171A	H-2171A	8/10/2023 2:44:10 PM	111.7	111.8
CHH2171B	H-2171B	8/10/2023 3:12:28 PM	114.4	114.4
CHH2171S	H-2171S	8/3/2023 11:00:28 AM	118.2	118.2
CHIWH022	H-22 (EXP-22)	8/3/2023 11:15:44 AM	95.2	95.3
CHIWH022	H-22 (EXP-22)	8/3/2023 11:19:38 AM	97.0	97.0
CHH2272C	H-2272C	8/10/2023 10:21:24 AM	118.0	118.0
CHH2272C	H-2272C	8/10/2023 10:33:38 AM	119.1	119.1
CHH2272W	H-2272W	8/10/2023 11:00:05 AM	119.1	119.0
CHH2273C	H-2273C	8/9/2023 3:24:37 PM	110.1	110.2
CHH2273W	H-2273W	8/10/2023 10:52:41 AM	120.8	120.8
CHH2274B	H-2274B	8/9/2023 3:00:04 PM	91.2	90.9
CHH2274E	H-2274E	8/9/2023 4:42:35 PM	90.7	90.7
CHH2274W	H-2274W	8/10/2023 10:39:32 AM	119.3	119.2
CHH2275C	H-2275C	8/9/2023 3:26:51 PM	116.2	116.2
CHH2275E	H-2275E	8/9/2023 4:40:06 PM	107.0	107.0
CHH2275W	H-2275W	8/9/2023 11:35:37 AM	109.6	109.2
CHH2276A	H-2276A	8/10/2023 11:20:23 AM	113.0	113.0
CHH2276B	H-2276B	8/9/2023 2:45:54 PM	111.9	111.9
CHH2276E	H-2276E	8/9/2023 4:05:00 PM	109.8	109.8
CHH2277A	H-2277A	8/17/2023 9:15:25 AM	96.3	97.3
CHH2277B	H-2277B	8/9/2023 2:25:16 PM	93.4	93.1
CHH2277E	H-2277E	8/9/2023 2:13:07 PM	104.4	104.4
CHH2277W	H-2277W	8/9/2023 11:02:14 AM	122.5	122.4
CHIWH023	H-23 (EXP-23)	8/10/2023 2:59:30 PM	97.9	99.3
CHIWH029	H-29	8/1/2023 2:12:57 PM	133.8	130.9

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWH029	H-29	8/1/2023 2:15:00 PM	130.7	130.6
CHIWH029	H-29	8/29/2023 3:45:24 PM	129.8	129.8
CHIWH030	H-30	8/3/2023 11:10:18 AM	102.5	103.1
CHIWH030	H-30	8/29/2023 3:27:04 PM	117.2	116.6
CHIWH031	H-31	8/8/2023 1:40:57 PM	112.8	113.1
CHIWH031	H-31	8/29/2023 11:47:45 AM	115.5	111.3
CHIWH048	H-48	8/28/2023 10:07:55 AM	97.3	97.5
CHIWH048	H-48	8/28/2023 10:09:51 AM	98.3	98.3
CHIWH051	H-51	8/28/2023 9:21:19 AM	95.1	96.8
CHIWH052	H-52	8/4/2023 11:20:14 AM	98.7	98.2
CHIWH052	H-52	8/28/2023 9:05:11 AM	88.4	87.7
CHIWH053	H-53	8/28/2023 8:54:22 AM	96.4	96.4
CHIWH054	H-54	8/10/2023 2:54:21 PM	98.8	98.8
CHIWH054	H-54	8/11/2023 10:08:16 AM	97.2	97.3
CHIWH059	H-59	8/28/2023 9:59:59 AM	97.9	97.9
CHIWH060	H-60	8/28/2023 9:12:11 AM	94.2	94.7
CHIWH064	H-64	8/29/2023 10:31:19 AM	190.5	190.5
CHIWH065	H-65	8/2/2023 11:03:23 AM	97.9	97.9
CHIWH067	H-67	8/1/2023 5:07:36 PM	122.4	122.5
CHIWH074	H-74	8/8/2023 1:55:38 PM	122.2	122.2
CHIWH076	H-76	8/11/2023 10:02:07 AM	106.4	106.5
CHIWH077	H-77	8/17/2023 10:39:57 AM	112.4	112.5
CHIWH77A	H-77A	8/28/2023 9:40:47 AM	101.3	101.4
CHIWH77A	H-77A	8/30/2023 3:12:07 PM	113.0	112.7
CHIWH078	H-78	8/28/2023 9:24:27 AM	94.4	94.4
CHIWH78A	H-78A	8/28/2023 9:43:15 AM	96.3	96.3
CHIWH079	H-79	8/16/2023 2:00:09 PM	137.5	137.5
CHIWH079	H-79	8/16/2023 2:02:56 PM	137.7	137.7
CHIWH084	H-84	8/11/2023 10:06:23 AM	95.2	95.3
CHIWP002	P-02	8/10/2023 1:47:51 PM	112.6	113.2
CHIWP002	P-02	8/22/2023 8:37:22 AM	99.6	97.4
CHIWP02R	P-02R	8/10/2023 1:59:11 PM	87.7	87.7
CHIWP03R	P-03R	8/10/2023 1:52:48 PM	108.2	108.3
CHIWP03R	P-03R	8/22/2023 8:32:14 AM	96.2	92.4
CHIWP004	P-04	8/10/2023 2:16:20 PM	108.5	108.4
CHIWP004	P-04	8/22/2023 8:27:56 AM	106.1	100.3
CHIWP005	P-05	8/10/2023 2:21:14 PM	110.8	110.8
CHIWP005	P-05	8/22/2023 8:20:57 AM	108.9	103.1
CHIWP06R	P-06R	8/10/2023 2:27:01 PM	117.6	117.6
CHIWP06R	P-06R	8/22/2023 8:15:16 AM	114.7	107.8
CHIWP07R	P-07R	8/8/2023 2:55:05 PM	94.1	94.1
CHIWP07R	P-07R	8/22/2023 12:12:48 PM	91.6	91.4
CHIWP08R	P-08R	8/10/2023 2:05:16 PM	102.3	102.3
CHIWP08R	P-08R	8/22/2023 12:23:26 PM	102.3	99.2
CHIWP009	P-09	8/10/2023 10:53:24 AM	99.7	99.3

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP009	P-09	8/22/2023 7:37:15 AM	96.4	93.6
CHIWP010	P-10	8/10/2023 10:59:42 AM	97.5	97.6
CHIWP010	P-10	8/22/2023 7:41:42 AM	97.0	96.3
CHIWP011	P-11	8/10/2023 11:02:24 AM	110.0	109.9
CHIWP011	P-11	8/22/2023 7:47:03 AM	105.7	104.3
CHIWP012	P-12	8/10/2023 11:23:28 AM	83.1	83.2
CHIWP012	P-12	8/22/2023 8:06:15 AM	81.2	81.3
CHIWP013	P-13	8/10/2023 11:15:16 AM	82.2	82.2
CHIWP013	P-13	8/22/2023 8:00:20 AM	80.4	80.2
CHIWP014	P-14	8/10/2023 11:09:03 AM	81.8	81.8
CHIWP014	P-14	8/22/2023 7:55:20 AM	80.8	67.6
CHIWP15R	P-15R	8/2/2023 10:06:32 AM	95.5	95.8
CHIWP15R	P-15R	8/22/2023 8:52:48 AM	89.1	89.3
CHIWP016	P-16	8/2/2023 10:33:57 AM	101.6	101.6
CHIWP016	P-16	8/22/2023 9:00:54 AM	101.3	97.8
CHIWP017	P-17	8/2/2023 10:16:34 AM	106.0	106.0
CHIWP017	P-17	8/22/2023 9:33:49 AM	106.7	101.6
CHIP18RD	P-18RD	8/2/2023 10:50:34 AM	98.7	98.8
CHIP18RD	P-18RD	8/22/2023 9:42:31 AM	94.3	94.0
CHIP18RS	P-18RS	8/2/2023 10:44:48 AM	100.9	100.9
CHIP18RS	P-18RS	8/22/2023 9:38:18 AM	97.3	96.3
CHIWP019	P-19	8/10/2023 1:38:33 PM	91.4	91.4
CHIWP019	P-19	8/22/2023 9:27:00 AM	90.3	89.4
CHIWP20R	P-20R	8/2/2023 10:59:09 AM	104.8	104.8
CHIWP20R	P-20R	8/22/2023 9:46:51 AM	102.9	102.3
CHIWP021	P-21	8/2/2023 11:11:23 AM	97.4	97.5
CHIWP021	P-21	8/22/2023 9:51:52 AM	94.0	93.6
CHIP21RD	P-21RD	8/10/2023 1:10:24 PM	100.3	100.3
CHIP21RD	P-21RD	8/22/2023 10:00:33 AM	100.6	97.5
CHIP21RS	P-21RS	8/10/2023 1:14:54 PM	106.8	106.8
CHIP21RS	P-21RS	8/22/2023 9:55:55 AM	107.4	107.6
CHIP22RD	P-22RD	8/10/2023 1:26:26 PM	118.8	118.8
CHIP22RD	P-22RD	8/22/2023 10:19:32 AM	120.6	118.3
CHIP22RS	P-22RS	8/10/2023 1:22:29 PM	120.1	120.1
CHIP22RS	P-22RS	8/22/2023 10:15:07 AM	119.7	118.9
CHIWP023	P-23	8/2/2023 11:18:25 AM	103.5	103.5
CHIWP023	P-23	8/22/2023 10:05:22 AM	102.4	100.3
CHIWP024	P-24	8/2/2023 11:35:19 AM	98.5	98.5
CHIWP024	P-24	8/22/2023 10:09:03 AM	87.2	88.2
CHIWP026	P-26	8/2/2023 1:44:28 PM	90.9	88.0
CHIWP026	P-26	8/22/2023 10:34:57 AM	84.9	84.8
CHIWP027	P-27	8/2/2023 1:52:14 PM	101.7	101.9
CHIWP027	P-27	8/22/2023 10:39:40 AM	88.2	88.9
CHIWP028	P-28	8/2/2023 2:05:46 PM	98.9	99.4
CHIWP028	P-28	8/22/2023 10:44:10 AM	97.0	95.2

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP29R	P-29R	8/2/2023 2:19:32 PM	101.1	102.5
CHIWP29R	P-29R	8/22/2023 10:49:05 AM	96.6	95.6
CHIWP30R	P-30R	8/2/2023 2:32:56 PM	89.8	89.9
CHIWP30R	P-30R	8/22/2023 10:55:07 AM	88.5	88.5
CHIWP031	P-31	8/3/2023 1:59:06 PM	97.5	97.6
CHIWP031	P-31	8/22/2023 11:00:55 AM	94.1	93.8
CHIP32R1	P-32R1	8/3/2023 2:07:07 PM	103.1	103.1
CHIP32R1	P-32R1	8/22/2023 11:05:49 AM	103.4	101.6
CHIP32R2	P-32R2	8/3/2023 2:17:37 PM	125.4	124.1
CHIP32R2	P-32R2	8/22/2023 11:12:30 AM	121.2	120.2
CHIP32R2	P-32R2	8/23/2023 10:56:13 AM	109.3	111.6
CHIWP033	P-33	8/3/2023 2:26:13 PM	92.4	92.3
CHIWP033	P-33	8/22/2023 11:16:49 AM	87.2	91.7
CHIWP034	P-34	8/3/2023 2:35:15 PM	92.9	93.1
CHIWP034	P-34	8/22/2023 11:20:33 AM	90.5	90.6
CHIWP036	P-36	8/3/2023 2:51:39 PM	106.9	106.9
CHIWP036	P-36	8/22/2023 11:27:47 AM	110.1	108.9
CHIWP037	P-37	8/7/2023 5:57:49 PM	104.4	104.4
CHIWP037	P-37	8/22/2023 11:31:19 AM	103.5	103.7
CHIWP037	P-37	8/23/2023 9:05:25 AM	96.6	96.8
CHIP38RD	P-38RD	8/7/2023 6:22:59 PM	108.4	108.4
CHIP38RD	P-38RD	8/23/2023 8:54:17 AM	107.7	103.3
CHIP38RS	P-38RS	8/7/2023 6:31:21 PM	105.7	105.7
CHIP38RS	P-38RS	8/23/2023 8:50:18 AM	106.1	105.3
CHIWP039	P-39	8/7/2023 6:41:45 PM	96.3	97.1
CHIWP039	P-39	8/23/2023 8:46:41 AM	83.6	85.8
CHIWP039	P-39	8/23/2023 11:06:31 AM	96.5	98.5
CHIWP039	P-39	8/30/2023 2:49:01 PM	112.1	112.0
CHIWP041	P-41	8/7/2023 6:59:54 PM	111.7	111.9
CHIWP041	P-41	8/23/2023 8:39:35 AM	110.2	109.9
CHIWP42R	P-42R	8/10/2023 9:19:09 AM	116.9	117.0
CHIWP42R	P-42R	8/23/2023 8:33:18 AM	119.8	119.5
CHIWP043	P-43	8/10/2023 9:25:16 AM	110.3	107.3
CHIWP043	P-43	8/23/2023 8:29:54 AM	103.9	103.3
CHIP44RD	P-44RD	8/10/2023 9:30:06 AM	91.7	92.0
CHIP44RD	P-44RD	8/23/2023 8:26:18 AM	97.8	97.0
CHIP44RS	P-44RS	8/10/2023 9:37:17 AM	111.8	110.6
CHIP44RS	P-44RS	8/23/2023 8:19:55 AM	111.2	110.9
CHIP45RD	P-45RD	8/10/2023 9:47:13 AM	115.4	115.2
CHIP45RD	P-45RD	8/23/2023 8:15:48 AM	114.6	106.4
CHIP45RS	P-45RS	8/10/2023 9:43:23 AM	111.9	111.3
CHIP45RS	P-45RS	8/23/2023 8:11:25 AM	111.9	110.1
CHIP46RD	P-46RD	8/10/2023 9:58:17 AM	106.4	105.9
CHIP46RD	P-46RD	8/23/2023 8:06:37 AM	106.3	105.7
CHIP46RS	P-46RS	8/10/2023 9:51:33 AM	115.4	115.4

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIP46RS	P-46RS	8/23/2023 8:02:28 AM	116.1	112.9
CHIWP047	P-47	8/10/2023 10:04:46 AM	107.8	107.8
CHIWP047	P-47	8/23/2023 7:58:37 AM	106.8	104.6
CHIWP048	P-48	8/10/2023 10:10:22 AM	120.1	120.1
CHIP49RD	P-49RD	8/10/2023 10:21:01 AM	116.9	116.9
CHIP49RD	P-49RD	8/23/2023 7:50:06 AM	116.0	115.9
CHIP49RS	P-49RS	8/10/2023 10:17:22 AM	117.5	117.6
CHIP49RS	P-49RS	8/23/2023 7:45:49 AM	116.0	115.7
CHIWP052	P-52	8/8/2023 2:57:03 PM	116.2	116.2
CHIWP052	P-52	8/22/2023 12:06:16 PM	117.1	115.3
CHIWP053	P-53	8/8/2023 3:00:18 PM	112.5	112.5
CHIWP053	P-53	8/22/2023 12:00:48 PM	114.6	113.7
CHIWP054	P-54	8/8/2023 3:03:34 PM	108.2	108.2
CHIWP054	P-54	8/22/2023 11:57:11 AM	104.2	101.8
CHIWP055	P-55	8/8/2023 3:09:01 PM	102.3	102.4
CHIWP055	P-55	8/8/2023 3:11:01 PM	100.6	100.7
CHIWP055	P-55	8/22/2023 11:53:30 AM	101.3	100.8
CHIWP056	P-56	8/10/2023 10:29:03 AM	102.8	102.6
CHIWP057	P-57	8/8/2023 3:17:10 PM	96.4	96.6
CHIWP057	P-57	8/8/2023 3:18:54 PM	97.3	97.3
CHIWP057	P-57	8/22/2023 11:49:15 AM	92.4	91.8
CHIWP60R	P-60R	8/10/2023 8:55:13 AM	84.4	82.7
CHIWP061	P-61	8/10/2023 8:42:50 AM	90.2	88.0
CHIWP061	P-61	8/22/2023 11:37:31 AM	90.4	90.6
CHIWP065	P-65	8/10/2023 9:11:50 AM	90.4	90.2
CHIWP071	P-71	8/23/2023 7:53:40 AM	115.7	115.7
CHIWP075	P-75	8/10/2023 9:02:49 AM	95.5	95.5
CHIWP076	P-76	8/7/2023 6:13:18 PM	96.6	96.6
CHIWP076	P-76	8/23/2023 9:02:11 AM	95.5	93.8
CHIWP079	P-79	8/22/2023 9:13:34 AM	82.9	83.0
CHIWP079	P-79	8/22/2023 9:17:26 AM	85.0	84.8
CSC2000E	SC-2000E	8/10/2023 9:39:45 AM	112.4	112.9
CSC2001E	SC-2001E	8/28/2023 11:08:20 AM	118.8	119.7
CSC2001W	SC-2001W	8/10/2023 12:45:40 PM	106.4	106.4
CHISW010	SW-10	8/28/2023 9:28:07 AM	95.0	95.0
CHISW115	SW-115	8/8/2023 12:08:02 PM	100.2	100.2
CHISW115	SW-115	8/29/2023 4:15:08 PM	113.8	113.8
CHSW1445	SW-1445	8/10/2023 11:55:31 AM	88.8	89.2
CHSW1455	SW-1455	8/10/2023 12:03:07 PM	88.7	88.8
CHISW154	SW-154	8/28/2023 4:21:51 PM	104.7	104.9
CHISW154	SW-154	8/29/2023 5:30:33 PM	103.3	104.5
CSW17135	SW-17-135	8/10/2023 11:59:57 AM	88.4	86.8
CHISW187	SW-187	8/11/2023 9:34:33 AM	83.2	83.7
CHISW187	SW-187	8/30/2023 8:02:34 AM	88.1	86.1
CHSW1930	SW-1930	8/17/2023 8:35:42 AM	84.9	85.0

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHSW1930	SW-1930	8/18/2023 3:23:41 PM	96.9	96.8
CHSW1930	SW-1930	8/23/2023 10:51:44 AM	92.5	92.4
CHSW1930	SW-1930	8/25/2023 8:17:35 AM	79.4	79.4
CHSW1930	SW-1930	8/29/2023 8:45:11 AM	83.6	83.6
CHSW1930	SW-1930	8/30/2023 9:21:45 AM	85.3	85.4
CHSW1930	SW-1930	8/31/2023 9:19:49 AM	84.6	84.6
CHISW020	SW-20	8/8/2023 2:45:29 PM	101.7	101.6
CHISW020	SW-20	8/8/2023 2:46:45 PM	100.4	100.4
CHISW020	SW-20	8/22/2023 12:17:13 PM	89.6	89.9
CHISW025	SW-25	8/18/2023 3:30:28 PM	102.8	108.2
CHISW025	SW-25	8/23/2023 10:25:38 AM	87.5	87.6
CHISW025	SW-25	8/25/2023 8:30:04 AM	79.7	79.7
CHISW025	SW-25	8/29/2023 8:38:57 AM	84.1	84.1
CHISW025	SW-25	8/30/2023 9:09:56 AM	85.4	85.4
CHISW025	SW-25	8/31/2023 9:07:33 AM	82.5	82.5
CHISW030	SW-30	8/28/2023 2:48:35 PM	116.6	116.6
CHISW032	SW-32	8/28/2023 11:34:17 AM	111.9	111.9
CHISW032	SW-32	8/28/2023 2:54:18 PM	109.3	109.7
CHISW064	SW-64	8/28/2023 2:45:33 PM	112.4	112.6
CHISW065	SW-65	8/8/2023 12:10:46 PM	98.0	97.8
CHISW065	SW-65	8/8/2023 12:10:47 PM	98.0	97.8
CHISW065	SW-65	8/29/2023 4:18:24 PM	108.8	108.8
CHISW066	SW-66	8/28/2023 4:19:55 PM	97.1	97.4
CHISW066	SW-66	8/29/2023 5:32:43 PM	100.5	100.7
CHISW068	SW-68	8/28/2023 11:37:20 AM	99.1	98.8
CHISW068	SW-68	8/28/2023 2:57:49 PM	100.3	100.3
CHISW007	SW-7	8/18/2023 3:35:14 PM	89.0	89.4
CHISW007	SW-7	8/23/2023 10:36:06 AM	89.6	90.4
CHISW007	SW-7	8/25/2023 8:34:27 AM	80.3	80.4
CHISW007	SW-7	8/29/2023 8:35:02 AM	82.4	82.5
CHISW007	SW-7	8/30/2023 9:05:19 AM	83.7	84.3
CHISW007	SW-7	8/31/2023 9:02:42 AM	83.2	83.3
CHISW070	SW-70	8/11/2023 9:36:57 AM	90.8	91.0
CHISW071	SW-71	8/2/2023 11:43:47 AM	97.8	97.8
CHISW071	SW-71	8/22/2023 10:30:02 AM	89.2	89.4
CHISW072	SW-72	8/3/2023 2:44:53 PM	101.0	101.0
CHISW072	SW-72	8/7/2023 5:49:13 PM	106.9	106.9
CHISW072	SW-72	8/22/2023 11:23:48 AM	89.1	89.3
CHISW080	SW-80	8/8/2023 1:26:08 PM	102.6	102.7
CHISW080	SW-80	8/29/2023 11:38:34 AM	100.8	102.3
CHISW009	SW-9	8/11/2023 9:39:41 AM	92.5	92.3
CHISW009	SW-9	8/30/2023 8:09:11 AM	87.1	87.1
CHH1959N	TC-1959N	8/10/2023 3:00:33 PM	126.5	125.1
CHH1959S	TC-1959S	8/10/2023 2:46:05 PM	124.2	124.2
CHH1959S	TC-1959S	8/10/2023 3:00:33 PM	126.5	125.1

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1961A	TC-1961A	8/9/2023 3:18:43 PM	110.6	110.6
CHH1961C	TC-1961C	8/9/2023 4:54:10 PM	84.7	85.7
CHH1961C	TC-1961C	8/9/2023 4:55:49 PM	85.4	85.4
CHH1961C	TC-1961C	8/24/2023 2:49:06 PM	104.5	104.4
CHH1961C	TC-1961C	8/24/2023 2:51:59 PM	107.3	107.4
CHH1961E	TC-1961E	8/9/2023 3:52:37 PM	117.1	116.9
CHH1961W	TC-1961W	8/9/2023 4:32:52 PM	106.6	103.8
CHH2173W	TC-2173	8/9/2023 10:01:11 AM	110.3	110.7
CHTC2174	TC-2174	8/8/2023 9:28:32 AM	136.3	136.2
CHTC2174	TC-2174	8/18/2023 2:35:30 PM	142.0	142.0
CHTC2378	TC-2378	8/1/2023 2:30:46 PM	141.2	141.0
CHTC2378	TC-2378	8/1/2023 2:34:36 PM	--	--
CHTC2378	TC-2378	8/1/2023 2:38:26 PM	141.1	140.8
CTC2378E	TC-2378E	8/1/2023 2:49:42 PM	113.2	113.9
CHTC2379	TC-2379	8/28/2023 11:04:16 AM	147.6	146.5
CHTC2379	TC-2379	8/28/2023 11:06:54 AM	144.6	144.4
CHTC2379	TC-2379	8/31/2023 10:05:09 AM	133.4	133.5
CTC2380C	TC-2380C	8/1/2023 2:41:42 PM	96.1	96.1
CTC2380E	TC-2380E	8/9/2023 11:48:23 AM	114.6	114.9
CTC2380E	TC-2380E	8/18/2023 1:48:54 PM	118.3	117.2
CTC2380E	TC-2380E	8/18/2023 1:52:49 PM	116.9	116.9
CTC2380W	TC-2380W	8/1/2023 2:21:52 PM	100.7	100.7
CTC2380W	TC-2380W	8/8/2023 1:16:11 PM	101.7	101.7
CTC2381E	TC-2381E	8/1/2023 10:49:12 AM	173.5	173.3
CTC2381E	TC-2381E	8/8/2023 9:40:57 AM	163.2	163.2
CTC2381E	TC-2381E	8/15/2023 9:56:45 AM	160.7	160.5
CTC2381E	TC-2381E	8/24/2023 10:36:52 AM	158.0	158.1
CTC2381E	TC-2381E	8/29/2023 10:41:14 AM	151.2	151.0
CTC2381E	TC-2381E	8/30/2023 11:39:19 AM	150.4	131.0
CTC2381E	TC-2381E	8/30/2023 11:41:21 AM	128.5	128.4
CTC2381E	TC-2381E	8/30/2023 11:47:56 AM	127.3	142.1
CTC2381E	TC-2381E	8/30/2023 11:51:07 AM	143.5	143.5
CTC2381W	TC-2381W	8/1/2023 2:53:39 PM	130.8	130.9
CTC2382A	TC-2382A	8/1/2023 2:42:00 PM	164.6	164.9
CTC2382A	TC-2382A	8/8/2023 11:03:17 AM	164.8	164.3
CTC2382A	TC-2382A	8/10/2023 3:21:47 PM	135.6	135.7
CTC2382A	TC-2382A	8/15/2023 1:51:42 PM	166.2	166.2
CTC2382A	TC-2382A	8/25/2023 8:50:20 AM	167.3	167.3
CTC2382A	TC-2382A	8/29/2023 4:41:07 PM	167.6	167.6
CTC2382A	TC-2382A	8/30/2023 11:21:37 AM	167.3	167.6
CTC2382B	TC-2382B	8/1/2023 3:36:13 PM	156.5	156.6
CTC2382B	TC-2382B	8/8/2023 11:30:03 AM	156.6	156.7
CTC2382B	TC-2382B	8/15/2023 2:12:38 PM	160.4	160.4
CTC2382B	TC-2382B	8/24/2023 2:57:23 PM	171.9	171.9
CTC2382B	TC-2382B	8/29/2023 3:20:14 PM	170.3	170.3

Attachment D - Well Temperature Data
August 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CTC2382E	TC-2382E	8/1/2023 11:27:59 AM	176.7	176.7
CTC2382E	TC-2382E	8/8/2023 10:15:02 AM	173.5	173.7
CTC2382E	TC-2382E	8/11/2023 2:44:52 PM	117.8	122.4
CTC2382E	TC-2382E	8/15/2023 11:08:42 AM	174.4	174.2
CTC2382E	TC-2382E	8/24/2023 2:43:26 PM	179.2	179.2
CTC2382E	TC-2382E	8/29/2023 3:04:03 PM	179.6	179.6
CTC2382W	TC-2382W	8/29/2023 10:00:49 AM	139.7	140.1
CTC2382W	TC-2382W	8/29/2023 10:00:49 AM	139.7	140.1
CTC2383A	TC-2383A	8/28/2023 3:17:22 PM	116.9	116.5
CTC2383S	TC-2383S	8/10/2023 12:10:03 PM	83.1	83.9
CTC2383S	TC-2383S	8/10/2023 12:11:30 PM	82.0	82.1
CTC2384A	TC-2384A	8/29/2023 9:43:30 AM	115.9	113.7
CTC2384B	TC-2384B	8/28/2023 11:14:41 AM	107.4	108.5
CTC2384B	TC-2384B	8/28/2023 11:19:35 AM	107.4	107.8
CTC2384N	TC-2384N	8/29/2023 9:51:53 AM	109.2	109.1
CTC2384N	TC-2384N	8/29/2023 9:51:53 AM	109.2	109.1
CTC2384S	TC-2384S	8/10/2023 3:36:27 PM	89.6	90.0
CTC2384S	TC-2384S	8/30/2023 2:51:18 PM	112.6	112.6
CTC2385A	TC-2385A	8/2/2023 10:28:33 AM	135.0	134.8
CTC2385A	TC-2385A	8/7/2023 5:23:02 PM	186.3	185.6
CTC2385A	TC-2385A	8/8/2023 3:56:24 PM	183.6	184.7
CTC2385A	TC-2385A	8/15/2023 3:55:22 PM	183.8	185.2
CTC2385N	TC-2385N	8/2/2023 10:19:36 AM	108.7	108.7
CTC2385S	TC-2385S	8/2/2023 10:50:45 AM	111.2	111.3
CHIWVL02	VL-02	8/28/2023 1:55:35 PM	116.0	116.0

Attachment E

Lab Analysis and Draeger Tube Readings

Attachment E - Lab Analysis and Draeger Tube Data
August 2023

Date Sampled	Draeger Tube Readings (ppmv)	Lab Analysis (ppmv)		
	H2S	H2S	DMS	TRS
8/1/2023	3	6.93	122	180.1
8/2/2023	15	18.4	125	191.3
8/3/2023	12	13.5	133	190.2
8/4/2023	10	11.7	142	190.6
8/5/2023	17	18.3	140	206.9
8/6/2023	3	5.72	144	209.2
8/7/2023	20	23.9	162	250.7
8/8/2023	5	9.03	139	196.8
8/9/2023	35	34.9	146	229.5
8/10/2023	13	15.5	149	215.3
8/11/2023	30	25.6	170	238.5
8/12/2023	33	31.2	146	225.9
8/13/2023	15	14.5	180	244.2
8/14/2023	32	30.8	180	260.7
8/15/2023	11	13.8	186	253.3
8/16/2023	27	29.6	161	233.9
8/17/2023	13	15.7	197	257.1
8/18/2023	30	31.5	184	257.8
8/19/2023	17	18.4	173	229.7
8/20/2023	29	28.2	191	260.1
8/21/2023	35	30.8	170	236.1
8/22/2023	20	21.1	164	233.7
8/23/2023	28	29.4	198	281
8/24/2023	20	22.4	139	205.4
8/25/2023	33	30.7	131	197.5
8/26/2023	35	33.5	129	205.6
8/27/2023	12	18	138	200.7
8/28/2023	26	29.1	137	203.3
8/29/2023	19	22.3	142	211.7
8/30/2023	25	27.4	140	217.8
8/31/2023	15	13.9	164	226.8

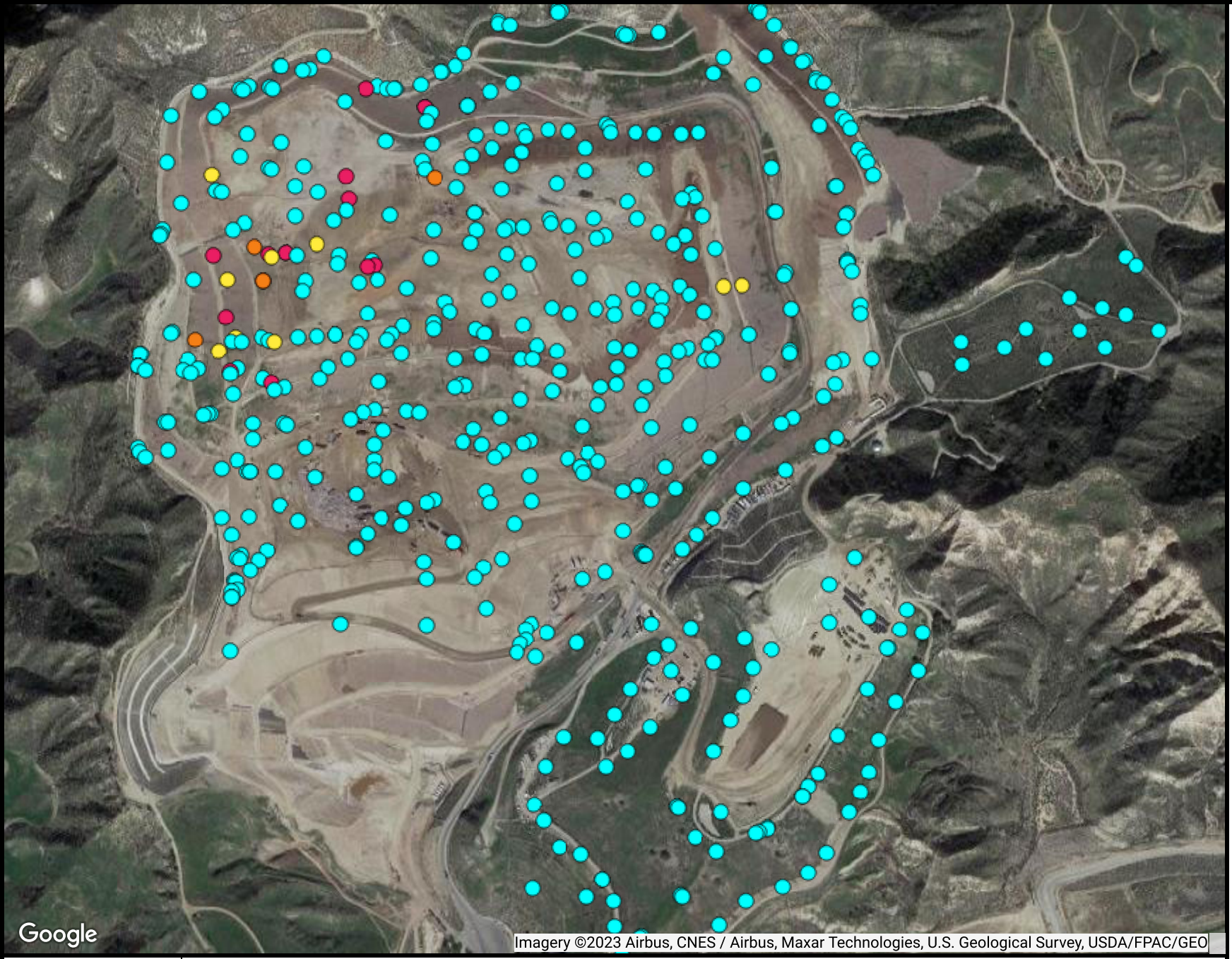
Attachment E - Lab Analysis and Draeger Tube Data
August 2023

Chiquita Canyon Landfill H_2S Draeger Tube Readings

			Tube Used		
Sample Date	Time	H_2S (PPM)	2 to 20 ppm (6728821)	5 to 60 ppm (29801)	Technician
8/1/2023	16:17	3		x	Saulo Diaz
8/2/2023	8:10	15		x	Fabian Chavez
8/3/2023	9:37	12		x	Fabian Chavez
8/4/2023	9:23	10		x	Fabian Chavez
8/5/2023	8:20	17		x	Fabian Chavez
8/6/2023	14:25	3		x	Fabian Chavez
8/7/2023	9:20	20		x	Fabian Chavez
8/8/2023	17:30	5		x	Saulo Diaz
8/9/2023	8:55	35		x	Eric Castro
8/10/2023	17:10	13		x	Eric Castro
8/11/2023	8:50	30		x	Eric Castro
8/12/2023	7:40	33		x	Cage Johnson
8/13/2023	15:50	15		x	Fabian Chavez
8/14/2023	6:55	32		x	Fabian Chavez
8/15/2023	16:54	11		x	Saulo Diaz
8/16/2023	9:25	27		x	Fabian Chavez
8/17/2023	16:04	13		x	Saulo Diaz
8/18/2023	9:10	30		x	Jonathan Johnson
8/19/2023	8:20	17		x	Eugene Maynard
8/20/2023	12:15	29		x	Fabian Chavez
8/21/2023	8:30	35		x	Eric Castro
8/22/2023	18:00	20		x	Fabian Chavez
8/23/2023	9:21	28		x	Saulo Diaz
8/24/2023	20:09	20		x	Saulo Diaz
8/25/2023	8:27	33		x	Fabian Chavez
8/26/2023	8:26	35		x	Erick Estrada
8/27/2023	14:00	12		x	Fabian Chavez
8/28/2023	7:37	26		x	Fabian Chavez
8/29/2023	23:00	19		x	Christian Villagomez
8/30/2023	7:35	25		x	Fabian Chavez
8/31/2023	14:25	15		x	Cage Johnson

Attachment F

Graphic Map



Ranges Mapped

				# Points
>	-50	and <=	145	494
>	145	and <=	160	10
>	160	and <=	169.99	6
>	169.99	and <=	999	13

Point Type Legend

well

N

SCSeTools

Chiquita Canyon Landfill

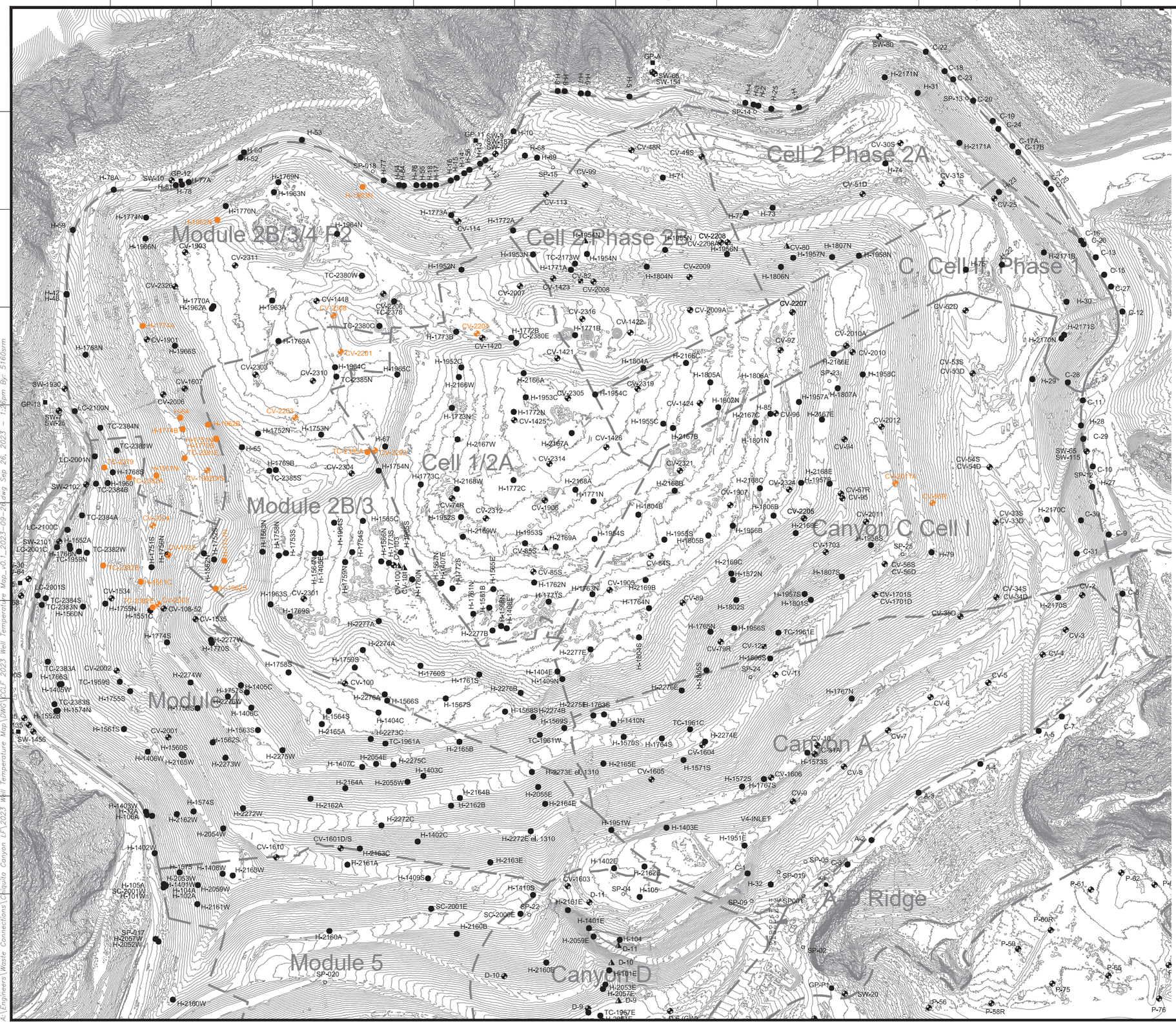
Range Map

Parameter: AdjTemp

Analysis Method: Average

Date Range: 08/01/2023 - 08/31/2023

Map generation date : 09/29/2023


Cell 2 Phase 2A
Cell 2 Phase 2B
C Cell II, Phase 1
Module 2B/3/4 R2
Cell 1/2A
Module 2B/3
Canyon C Cell I
Canyon A
A-B Ridge
Canyon D
Module 5
Module
GP-A
SW-80
SW-86
SW-154
SW-3
SW-157
SW-70
GP-11
SP-14
SP-13
SP-018
SP-15
SP-12
SW-10
SW-1930
SW-2102
SW-1456
SW-2001
SW-1552A
SW-1552
SW-1552N
SW-1562
SW-1562N
SW-1562S
SW-1563
SW-1563N
SW-1563S
SW-1564
SW-1564N
SW-1564S
SW-1565
SW-1565N
SW-1565S
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SW-1566S
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SW-1567N
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SW-1570N
SW-1570S
SW-1571
SW-1571N
SW-1571S
SW-1572
SW-1572N
SW-1572S
SW-1573
SW-1573N
SW-1573S
SW-1574
SW-1574N
SW-1574S

Attachment G

Inspection Logs

(None in August 2023)

October 16, 2023
File No. 01204123.25, Task 10

Baitong Chen, Air Quality Engineer, bchen@aqmd.gov
Nathaniel Dickel, Senior Air Quality Engineer, ndickel@aqmd.gov
Christina Ojeda, Air Quality Inspector, cojeda@aqmd.gov
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: September 2023 Monthly Report for Stipulated Order for Abatement (Case No. 6177-4), Chiquita Canyon Landfill (Facility ID 119219), Castaic, California

To Whom It May Concern:

SCS Engineers (SCS), on behalf of Chiquita Canyon Landfill (CCL), hereby provides the South Coast Air Quality Management District (SCAQMD) with a monthly report per the Stipulated Order for Abatement (SOFA) (Case No. 6177-4) for the CCL in Castaic, California. The SOFA was approved on September 6, 2023.

This report covers the monthly period for September 2023. Per Condition No. 8, the monthly report for September 2023 shall be due on the third Monday of October, or October 16, 2023.

BACKGROUND

CCL is a landfill/solid waste disposal facility located at 29201 Henry Mayo Dr., Castaic, California, 91384 (SCAQMD Facility No. 119219). In connection with the landfill, CCL operates a landfill gas collection and control system.

In 2023, CCL began experiencing increased levels of total reduced sulfur and sulfur oxides, in noncompliance with its Title V permit.[1] In addition, CCL became the subject of numerous odor complaints from the public and was issued Notices of Violation by SCAQMD. The conditions at CCL indicate that the landfill is undergoing an elevated temperature landfill (ETLF) event. On September 6, 2023, a hearing was held before the SCAQMD Hearing Board to approve the SOFA which includes numerous measures to mitigate emissions resulting from the landfill's ETLF conditions. The SOFA was approved on September 6, 2023. This monthly report is following the approved conditions for the SOFA.

Condition No. 8 of the SOFA requires monthly reports to be submitted via email to Baitong Chen, Nathaniel Dickel, and Christina Ojeda of the SCAQMD, which include the following information:

A. *The landfill gas sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.*

[1] CCL operated under an Ex Parte Emergency Variance (approved on February 8, 2023), an Interim Variance request (approved on February 15, 2023 and issued in final on March 7, 2023), and a Regular Variance (approved on May 3, 2023 and issued in final on May 16, 2023). The Regular Variance ended on September 6, 2023, the effective date of the SOFA.

B. The landfill gas records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

C. The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

D. Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

E. Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).

F. Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).

G. All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format.

H. A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.

I. All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

J. Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternative sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

K. A summary report on SCS's implemented improvements to the landfill gas collection system.

L. An inspection log for landfill cover inspections, pursuant to Condition No. 24.

M. Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

N. Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

O. Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

MONTHLY REPORT

Section A – LFG Sulfur Compound Measurements during Reporting Period

The LFG sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.

> *Condition No. 5: Respondent shall sample, analyze, and record the landfill gas sulfur compounds combusted in each flare (as measured at sampling location FL-150 that is representative of the gas combusted in the flare under Permit G23473, A/N 491442) at least once each week using colorimetric tests for hydrogen sulfide (H2S) and at least once each week sample for analysis for total sulfur compounds as H2S using South Coast AQMD Method 307-91.*

a. Respondent shall record South Coast AQMD Method 307-91 analysis upon receipt of laboratory analysis report. Each recorded measurement or result shall be documented with the time and date when the measurement or sample collection was conducted, and initialed by the personnel that conducted the measurement or sample collection.

b. Sulfur compound readings and analysis shall be reported to South Coast AQMD pursuant to Condition No. 8.

i. Tedlar bags used for Method 307-91 sampling and analysis shall not contain droplets or debris.

ii. Colorimetric tube readings shall be conducted by taking a reading from a Tedlar bag sample using an appropriate colorimetric tube sample collection pump. All sampling shall be performed in accordance with the operational manual for the colorimetric tube sample collection pump.

iii. Colorimetric tube readings shall use colorimetric tubes of appropriate concentration range and shall be reported as follows:

1. Respondent shall first use the estimated appropriately ranged colorimetric tube.

2. If the resulting reading reaches the upper concentration of the colorimetric tube concentration range, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a larger upper concentration threshold until the result is not the upper concentration threshold of the concentration range. Report the tube concentration range and tube concentration result for each reading.

3. If the reading results in the lower concentration of the colorimetric tube concentration range or does not register a result, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a smaller lower concentration threshold, if available, until the colorimetric tubes available to the facility result in:

a. A reading that is within the concentration range of the tube,

b. A reading is the lower concentration of the colorimetric tube concentration range, or

c. The colorimetric tube does not register a result.

4. When the result is the lower concentration of the colorimetric tube concentration range or does not register a result, the lower concentration of the colorimetric tube concentration shall be considered the concentration result. Report the tube concentration range and tube concentration result for each reading. If a lower range colorimetric tube is not used and the tube concentration result is below the lower range of the colorimetric tube used, Respondent shall report the result as "less than" or "<" the lower range value of the tube. Notwithstanding the forgoing, Respondent shall ensure that the colorimetric tube result is below the upper range of the colorimetric tube used and shall report the precise result of all results above the lowest range of the colorimetric tube used.

The lab analyses performed and reports received for the reporting period that are required by Condition 5(a) are presented in **Attachment A**. This report includes analytical data sampled between September 1, 2023 and September 30, 2023. Tedlar bag samples were collected and analyzed by SCAQMD Method 307.91 for hydrogen sulfide and reduced sulfur compounds. The laboratory reports were received on September 7, September 25, and October 5, 2023.

Weekly colorimetric tests (Draeger tube) samples required by Condition 5(b)(ii) and (iii) are identified in **Attachment E**.

A summary of the colorimetric tests and laboratory analyses for landfill gas (LFG) sulfur analyses is provided in the table below, covering the period of September 2023:

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
9/1/23	19	16.3	161	222.6
9/2/23	5	5.63	160	207
9/3/23	3	3.04	168	210.6
9/4/23	6	4.94	163	202.8
9/5/23	3	3.86	174	246.3
9/6/23	6	6.17	156	213.5
9/7/23	3	3.95	186	256.5
9/8/23	7	7.48	157	211.6
9/9/23	6	6.87	162	226.5
9/10/23	2	3.33	183	234.2
9/11/23	5	6.13	174	230.3
9/20/23	9	7.99	199	261.3

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
9/27/23	12	15.3	174	269.7

*Above summarized Lab analysis are included in **Attachment A** and **Attachment E**.

Section B – LFG Records and Calculations

The LFG records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

Condition No. 7: Respondent shall maintain a record of the following information, and provide such records to the South Coast AQMD pursuant to Condition No. 8:

a. The hourly and daily flow of landfill gas combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G23473, A/N 491442; flare No. 3 under A/N 624296), the thermal oxidizer (under Envent Corporation A/N 645484), and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility;

b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; and

c. The results of the sulfur readings, sampling, and analyses, calculated as H2S with the time and date when each measurement or sample collection was conducted.

The above-mentioned lab analyses required by Condition 7(c) are included in **Attachment A** and calculations are available in **Attachment B**.

In accordance with Condition 7(a), the flow rates for each flare as standard cubic feet per minute (scfm), scf per hour, and scf per day are provided in the calculation tables and the hourly and daily flow of LFG combusted for the thermal oxidizer are available in **Attachment B**.

In accordance with Condition 7(b), the daily flow of LFG not flared is available in **Attachment B**. Ameresco applied for a variance to operate the LFG turbine plant under a variance order, and its variance was approved on February 15th. Ameresco restarted operations on February 16th, returning the LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

Section C – Surface Emissions Monitoring

The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

Condition No. 9: Respondent shall collect integrated landfill surface samples for analysis across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1 Attachment A 2.0. In the event Respondent is unable to sample specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the sampling of the specific area(s) or grid(s).

a. The "Reaction Area" shall be defined initially by the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2. The boundary of the Reaction Area shall be modified to include the associated landfill surface area of the cells and modules that experience well temperatures of at least 170 degrees Fahrenheit, settlement, cracks in the landfill cover, presence and quantity of liquids, and the presence of hydrogen in the landfill gas. The DMS Committee (defined in Condition 12), shall transmit to the South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] 1) the revised map which clearly displays the proposed boundary change(s) and depicts the new Reaction Area; 2) a narrative summary explaining the rationale behind the proposed changes, including memorializing any dissenting view of any member of the DMS Committee; and 3) any supporting data relied upon in the decision to revise the Reaction Area.

b. The DMS Committee shall review applicable data and shall consider revision to the Reaction Area as frequently as appropriate but shall make a determination about whether to revise the Reaction Area map at least once per month.

Condition No. 10: Respondent shall conduct instantaneous landfill surface monitoring across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1, Attachment A 3.0, beginning no later than seven (7) days after the issuance of this Order. In the event Respondent is unable to monitor specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the monitoring of the specific area(s) or grid(s).

The integrated landfill surface sampling was completed on September 5, 6 and 19, 2023 resulting in exceedances on September 5 and 19, 2023. The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on September 15 and September 29, 2023, respectively, and showed compliant readings except for five (5) readings on September 29, 2023. A second 10-day corrective action and follow-up monitoring was completed for these exceedances on October 6, 2023, and showed compliant readings for two (2) out of the five (5) readings. Three (3) grids have

exceedances past the two 10-day remonitoring events and therefore are in the 45-day timeframe for corrective action due by November 20, 2023.

The instantaneous landfill surface monitoring was conducted on September 13, 27 and 28, 2023, resulting in exceedances on September 13 and 27, 2023. The 10-day Corrective Action and follow-up monitoring was competed on September 22, and October 6, 2023 and showed compliant readings except for fourteen (14) readings on October 6, 2023. A second 10-day corrective action and follow-up monitoring is pending and will be reported in the next monthly report. The 1-month re-monitoring was conducted on October 11, 2023 for the initial readings on September 13, 2023. Two readings showed exceedances, and therefore, a second set of 10-day readings will be performed.

The integrated landfill surface sample analysis and landfill surface monitoring readings are included in **Attachment C**.

Section D – Schedule for Replacement or Refurbishment of Granular Activated Carbon Media

> **Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.**
>
> > ***Condition No. 3: Respondent shall expedite, to the maximum extent feasible, replacement of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249), including the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System. Respondent shall ensure adequate stock of all odor control products and supplies are maintained on site.***

The Landfill Gas Treatment System (LFGTS) currently consists of four carbon adsorber vessels. Only three of the four vessels are online during normal operations with one vessel offline awaiting servicing to replace spent media or on standby with fresh granular activated carbon media. A vessel is typically serviced every 4 to 8 weeks. Colorimetric tests are performed on the outlet of the operating vessels approximately weekly to determine if a vessel may require an adjustment to the flow or schedule service to replace the media.

H2S vessels will be changed out at a lower concentration. At the start of the reporting period (September 1, 2023), all four vessels (ST-1, ST-2, ST-3 and ST-4) were online processing the landfill gas. Vessel ST-1 was only partially opened initially on August 26, 2023 to control the rise in temperature of the outlet gas and was fully opened on September 1, 2023. Vessel ST-2 was completely closed on September 1, 2023 in preparation of media replacement on September 6, 2023. On September 6, 2023, the spent media was removed from Vessel ST-2 and fresh BG1 media was installed September 7, 2023. Vessel ST-2 was only partially opened initially on September 28, 2023 to control the rise in temperature of the outlet gas. All four vessels were online at the end of the reporting period (September 30, 2023). The next media replacement service has been scheduled for October 30 and 31, 2023.

Section E – Description of Problems or Delays

> **Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).**

Due to the increase in temperature of the landfill gas when exposed to fresh media, the new vessels have been slowly brought online to avoid damaging the fiber reinforced plastic (FRP) vessels. This delayed the media replacement scheduled for the last week of August to the first full week of September. To allow more time to bring vessels online with fresh media, the new media vessel is slowly exposed to the landfill gas with the flow increased in small increments over a two week period. Once the new media vessel is fully open, then the vessel planned for the next media replacement service is closed. This process is now started earlier to avoid any delay in completing the media replacement.

Section F – Specifications of Equipment and Materials for Weekly Colorimetric Tests

> **Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).**

The weekly colorimetric tests are completed with the Draeger Accuro 64000 bellows hand pump with either Draeger hydrogen sulfide colorimetric tubes Model 6728821 (2 to 20 ppm) or Model CH29801 (5 to 60 ppm). The specifications of the equipment and materials used for the colorimetric test was included in the initial weekly variance report provided on February 13, 2023 in Case No. 6177-3, as required under the previous emergency variance. There has been no change in the specifications since the previous report submitted under the emergency variance.

Section G – Wellhead Temperature Readings

> **All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format**

Wellhead temperature readings for the past month are included in **Attachment D**. Lab analysis and Draeger tube readings for the past month are included in **Attachment A** and **Attachment E**, respectively.

Section H – Graphic Map

> **A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.**

A graphic map with the above information is included in **Attachment F**. Increased volume of gas is being extracted from elevated temperature wells located in the Reaction Area to help remove accumulated heat in the waste mass. Additionally, de-watering pumps have been installed in elevated temperature wells as needed to increase the available perforations in high heat wells to further increase gas extraction. The de-watering pumps also assist in removing heat by eliminating elevated temperature liquids from the waste.

Section I – Status of Vertical Liquid Impacted Landfill Gas Wells

All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

Condition No. 17: Respondent shall expeditiously dewater wells being impacted by liquids, and shall take proactive measures to remove additional liquids in the Reaction Area to limit the reaction severity and spread. This shall be accomplished through the installation of dewatering sumps/pumps at 20 percent of the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area as determined by the DMS Committee within 60 days of the issuance of this Order, unless otherwise determined infeasible per Condition No. 17.a. below. Respondent shall provide updates in the monthly reports pursuant to Condition No. 8.

a. In the event Respondent determines the installation of a dewatering sump/pump at a single landfill gas collection well to be infeasible, Respondent shall provide detailed rationale and reasoning in the monthly report submitted pursuant to Condition No. 8, and shall continue with implementation of the dewatering guidelines pursuant to Condition No. 18 to remove liquids to the maximum extent possible including to ensure installation across 20% of total landfill gas collection wells within the Reaction Area.

Please note, SOFA Condition 8(i) references Condition No. 20, which is regarding the permit application for a new flare. Therefore, we believe this is the wrong reference and did not include it. Likely the correct reference is Condition No. 17, which requires CCL to expeditiously dewater wells being impacted by liquids. Condition No. 17 requires the DMS Committee to determine the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area by November 5, 2023. Given that the DMS Committee has yet to make this determination by the end of September, identification of the worst liquid impaction issues is ongoing, and will be covered in the next monthly report

Well inspections/sounding to determine liquid impacts to vertical extraction wells is ongoing. Thirty (30) vertical wells were inspected in the month of September.

Remedial measures include the addition of liquids removal pumps. For the month of September, twenty-one (21) additional vertical wells had new pumps installed, increasing the total number of pumping vertical wells to thirty-one (31) wells. Associated materials for construction have also been ordered, including but not limited to, force-main and compressed air piping, isolation valves and air release valves, and tank infrastructure. The installation of pumps is ongoing as new vertical wells are being installed that are also becoming impacted by liquids.

Section J – Status of Investigation for Alternate Sulfur Compound Treatment Systems

Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternatives sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

SCS investigated the availability and viability of alternative sulfur compound treatment systems that control, treat or remove dimethyl sulfide and other sulfur compounds. A preliminary list of alternative treatment systems is included below:

- Oxidation by Hypochlorite
- Oxidation by Peroxide
- Oxidation by Potassium Permanganate
- Bentonite or Zeolite Media Impregnated with Metal
- Reaction with Iron
- Reaction with Copper
- Biotreatment with Sulfur-Reducing Bacteria (SRBs)

A preliminary assessment of these treatment technologies was included in Attachment D of the February 27, 2023 status update report, submitted in compliance with the interim variance. These technologies will be further investigated and updates will be included in subsequent reports.

In addition to the preliminary list of alternative treatment systems, SCS is investigating the use of a hydrogen re-former catalyst to convert all sulfur compounds to H_2S and oxidation by Sodium Hydroxide. A reaction with nickel alternative treatment has been investigated, but is not a preferred alternative as heat is required. Bench testing of stronger oxidation scrubbing solutions is ongoing to convert DMS to Dimethylsulfoxide (DMSO).

Testing of Oxidation by Hypochlorite is scheduled for October using the liquid scrubbers with the temporary thermal oxidizer (TOX) located in the northwest area of the site.

A separate application for the modification of the LFG treatment system and Title V Revision was submitted to the SCAQMD on February 27, 2023. SCAQMD requested additional information, which was submitted to SCAQMD on April 21, 2023.

On March 30, 2023, SCS submitted to SCAQMD an application for operation of slip stream pilot tests to evaluate these alternative treatment systems. SCAQMD requested additional information, which was to be provided to SCAQMD by June 30, 2023.

The additional information was submitted on August 14, 2023, however, on August 8, 2023, SCAQMD rejected the LFG Treatment System modification applications (A/N 643714 and 643715). Therefore, additional research is being conducted per SCAQMD and applications will be submitted if needed.

Section K – SCS's Implemented Improvements

A summary report on SCS's implemented improvements to the landfill gas collection system.

In September, SCS installed nineteen (19) new vertical LFG extraction wells which were connected to either the existing Gas Collection and Control System (GCCS), or the TOX. In addition, twenty-one (21) new de-watering pumps were installed in new and/or existing wells to remove water in wells impacted by liquids, to increase LFG recovery. The TOX was installed to improve LFG vacuum distribution to the west side of the well field and increase overall LFG recovery. Construction of the new flare FL-120 is underway as part of increasing control capacity.

Section L – Cover Inspections to the LFG Collection System

An inspection log for landfill cover inspections, pursuant to Condition No. 24.

Condition No. 24: Respondent shall visually inspect the landfill cover around the Reaction Area (as defined in Condition 9(a)) each operating day and shall promptly repair any cover issues identified, which may include adding and spreading soil, wetting, and retracking the damaged area. Respondent shall maintain a log demonstrating that it has addressed any damages to the landfill cover, including the date the damage was identified, the action taken to repair the damage, and the time at which the repair was completed. Results of the daily inspection and the repair log required by this condition shall be included in the monthly reports required pursuant to Condition No. 8.

Routine cover inspections and repairs were performed throughout the month of September. A log of the inspections and repairs was started on September 7, 2023 once the SOFA was in place. Results of the daily inspection and the repair log are provided in the photos in **Attachment G**. Chiquita has a full-time operator that is responsible for repairing cover in the Reaction Area. These photos show areas where cracks in the cover were noted on the days that they were first observed. The cracks are repaired on an immediate and ongoing basis by the operator that makes such observations by tracking over the area and adding small amounts of water when necessary.

Section M – Subsequent Additions to the LFG Collection System

Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

Condition No. 15: Respondent shall continue to evaluate and install, as needed, vertical dual extraction wells to collect both landfill gas and leachate. Respondent shall continue to expand the well-field as needed, and notify South Coast AQMD by October 31, 2023 of the number of wells added, attention to Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov). Any subsequent additions to the well-field shall be documented in the monthly reports pursuant to Condition 8.

In the month of September, nineteen (19) additional vertical LFG extraction wells have been installed and are operational as of September 30, 2023. Expansion of the well field, including but not limited to, additional vertical LFG extraction wells, header and lateral piping and associated valves, is on-going. South Coast AQMD will be notified by October 31, 2023 of an updated list of new wells installed and subsequent additions will be documented in these monthly reports.

Section N – Additions to the LFG Condensate or Leachate Collection System

Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

Condition No. 18: Respondent shall, in addition to the installation of dewatering sumps/pumps specified in Condition No. 17 above, within ninety (90) days of the

issuance of this Order, provide proposed Reaction Area dewatering guidelines and implementation procedures for the landfill to South Coast AQMD (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov)) that include but are not limited to the following:

a. Proposed methodologies and monitoring procedures that determine the level of dewatering within the Reaction Area (as defined in Condition 9(a)) wells impacted by liquid. Methods may include the measurement of the gas flow at each landfill gas collection well impacted by liquids;

b. Use of dewatering pumps or other methods to remove liquids from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

c. An implementation plan for the use of dewatering pumps or other methods to remove liquids from the Reaction Area wells impacted by liquids. The plan shall include a list of wells in the Reaction Area and depth where liquids are expected to impact landfill gas collection efficacy or be a concern, the proposed action to remove the liquids, and the schedule for liquid removal. The implementation plan shall also include pro-active measures, such as additional dewatering pumps, to be installed at landfill gas collection wells where liquid impaction issues have not yet occurred, but may be expected to occur.

d. Upgrades to the site leachate collection system as needed, including through the addition of increased air compressor and/or drain line infrastructure;

e. Protocols for the pumping and monitoring of dewatering pumps and other such methods to remove water from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

f. Well field liquid sounding in the Reaction Area (as defined in Condition 9(a)), and a proposed schedule for conducting liquid sounding on a consistent basis;

g. A timeline for appropriate reporting on impacted wells;

h. The feasibility of integrity testing of all vertical gas wells in the Reaction Area (as defined in Condition 9(a)) and a timeline and protocol for addressing any wells that the integrity testing demonstrates are damaged or are exhibiting temperatures of at least 170 degrees Fahrenheit; and

i. A timeline for implementation of appropriate dewatering procedures upon discovery of wells impacted by liquids.

The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented within seven (7) days of South Coast AQMD approval.

Please note, SOFA Condition 8(n) references Condition No. 17, however, we believe the correct reference is Condition No. 18, which requires CCL to provide proposed Reaction Area dewatering guidelines and implementation procedures to SCAQMD by December 5, 2023.

The evaluation of vertical wells for the installation of dewatering pumps is ongoing. Prior to September 2023, there were ten (10) active wells with dewatering pumps. In the month of September, twenty-one (21) additional de-watering pumps were installed in new wells bringing the total to thirty-one (31) dewatering pump installations.

Section O – Updates of the Geosynthetic Cover

Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

Condition No. 25: Respondent shall install a geosynthetic cover over western portions of Module 2B/3/4 Phase 2, Module 2B/3, and Module 4 to limit the migration of landfill gas from the site. Respondent shall submit the completed design for the cover, which will provide greater definition to the cover location, including associated landfill gas extraction infrastructure to be installed underneath the cover, to the South Coast AQMD by September 12, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)). Respondent shall then obtain and install the geosynthetic cover material of at least 30 mil thickness. Respondent shall notify South Coast AQMD by October 31, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)) on the progress of procuring and installing the geosynthetic cover. Respondent shall include updates on the procurement and installation of the geosynthetic cover in the monthly reports pursuant to Condition 8.

The completed design for the geosynthetic cover was submitted to SCAQMD on September 12, 2023 as required by Condition 25. South Coast AQMD will be notified by October 31, 2023 on the progress of procuring and installing the geosynthetic cover, and future monthly reports will include updates on its procurement and installation.

CLOSING

If you have any questions or need any additional information, please contact Cornelius Fong of SCS Field Services at (562) 743-7895 or either of the undersigned at (800) 326-9544.

Sincerely,

James J. Kim
Senior Project Professional
SCS Engineers

Gabrielle F. Stephens
Project Director
SCS Engineers

JJK/GFS/PSS

Enclosures

cc: Cornelius Fong, SCS Engineers; Steve Cassulo, Chiquita Canyon Landfill
Enclosures

Attachment A

Lab Analyses from the Reporting Period

AtmAA Inc.
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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 6, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 1, 2023
Date Received: September 1, 2023
Date Analyzed: September 1, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22443-10
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	16.3
Carbonyl sulfide	1.02
Methyl mercaptan	11.9
Ethyl mercaptan	<0.50
Dimethyl sulfide	161
Carbon disulfide	<0.50
i-Propyl mercaptan	0.67
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.14
s-Butyl mercaptan	2.36
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.40
Tetrahydrothiophene	1.15
Unidentified sulfurs	11.8
	(Concentration in ppmv, as H_2S)
Total Sulfur	222.6

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 1, 2023
Date Received: September 1, 2023
Date Analyzed: September 1, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	15.9	16.7	16.3	4.9
Carbonyl sulfide	FL-150	1.00	1.04	1.02	3.9
Methyl mercaptan	FL-150	11.6	12.2	11.9	5.0
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	159	162	161	1.9
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.65	0.68	0.67	4.5
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.08	2.19	2.14	5.2
s-Butyl mercaptan	FL-150	2.30	2.41	2.36	4.7
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.54	7.26	7.40	3.8
Tetrahydrothiophene	FL-150	1.15	1.14	1.15	0.87
Unidentified sulfurs	FL-150	11.6	12.0	11.8	4.1

One Tedlar bag sample, laboratory number 22443-10, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 3.9%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22443-9	8/31/23	14:!2am	X						Filtered 15ppm
FL-150	Landfill Gas	-10	9/1/23	8:15am	X						Filtered 19ppm

ANALYSES REQUESTED

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Cage Johnson	8/31/23	15:26pm		9/1/23	8:32
	9/1/23	10:26am	LUIS FARFAN	9-1-23	10:27
LUIS FARFAN	9-1-23	11:15		9/1/23	11:15

Received for Laboratory by: *(Signature)*

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 22, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 2, 2023
Date Received: September 2, 2023
Date Analyzed: September 2, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22453-3
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	5.63
Carbonyl sulfide	0.91
Methyl mercaptan	6.15
Ethyl mercaptan	<0.50
Dimethyl sulfide	160
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.31
s-Butyl mercaptan	2.41
i-Butyl mercaptan	<0.50
Dimethyl disulfide	9.59
Tetrahydrothiophene	1.01
Unidentified sulfurs	9.37

(Concentration in ppmv, as H_2S)

Total Sulfur	207.0

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 2, 2023
Date Received: September 2, 2023
Date Analyzed: September 2, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	5.81	5.45	5.63	6.4
Carbonyl sulfide	FL-150	0.90	0.92	0.91	2.2
Methyl mercaptan	FL-150	6.24	6.05	6.15	3.1
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	160	160	160	0.00
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.29	2.32	2.31	1.3
s-Butyl mercaptan	FL-150	2.38	2.43	2.41	2.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	9.53	9.66	9.59	1.4
Tetrahydrothiophene	FL-150	0.99	1.03	1.01	4.0
Unidentified sulfurs	FL-150	9.42	9.33	9.37	0.93

One Tedlar bag sample, laboratory number 22453-3, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 2.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature)	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)	Method ASTM D1945	Method ASTM D3588				Special Remarks
FL-150 INLET	Land Fill Gas	22453-3	9/2/2023	8:00AM	X						Filtered / H2S 5 ppm
FLT-321	Land Fill Gas	-4	9/2/2023	9:08AM		X	X				
FLT-206	Land Fill Gas	-5	9/2/2023	9:06 AM		X	X				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Fabian Chavez	9/2/23	9:20AM	LUIS FARFAN	9/2/23	9:24
LUIS FARFAN	9/2/23	10:24			
			Received for Laboratory by: (Signature)	9/2/23	10:24

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	Company:	SCS Engineers	AtmAA Inc.
Street Address	3900 Kilroy Airport Way Suite 100	Street Address	3900 Kilroy Airport Way Suite 100	23917 Craftsman Rd.
City/State/Zip:	Long Beach / CA / 90806	City/State/Zip:	Long Beach / CA / 90806	Calabasas, CA 91302
Telephone No.:	562-743-7895 /562-335-0002	Project Manager:	Cornelius Fong	TEL: (818) 223-3277
Fax No.:		Email Address:	CFong@scsengineers.com	FAX: (818) 223-8250

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	September 21, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	September 3, 2023
Date Received:	September 4, 2023
Date Analyzed:	September 4, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22473-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	3.04
Carbonyl sulfide	0.83
Methyl mercaptan	3.95
Ethyl mercaptan	<0.50
Dimethyl sulfide	168
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.03
s-Butyl mercaptan	1.99
i-Butyl mercaptan	<0.50
Dimethyl disulfide	9.03
Tetrahydrothiophene	1.30
Unidentified sulfurs	11.9
	(Concentration in ppmv, as H_2S)
Total Sulfur	210.6

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 3, 2023
Date Received: September 4, 2023
Date Analyzed: September 4, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	3.06	3.01	3.04	1.6
Carbonyl sulfide	FL-150	0.85	0.81	0.83	4.8
Methyl mercaptan	FL-150	4.07	3.83	3.95	6.1
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	175	160	168	9.0
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.10	1.96	2.03	6.9
s-Butyl mercaptan	FL-150	2.05	1.93	1.99	6.0
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	9.50	8.55	9.03	11
Tetrahydrothiophene	FL-150	1.33	1.26	1.30	5.4
Unidentified sulfurs	FL-150	12.4	11.4	11.9	7.7

One Tedlar bag sample, laboratory number 22473-1, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 6.4%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	September 21, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	September 4, 2023
Date Received:	September 4, 2023
Date Analyzed:	September 4, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22473-2
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	4.94
Carbonyl sulfide	0.85
Methyl mercaptan	5.52
Ethyl mercaptan	<0.50
Dimethyl sulfide	163
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	1.92
s-Butyl mercaptan	1.90
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.38
Tetrahydrothiophene	1.15
Unidentified sulfurs	9.23

(Concentration in ppmv, as H_2S)

Total Sulfur	202.8

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 4, 2023
Date Received: September 4, 2023
Date Analyzed: September 4, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	4.81	5.07	4.94	5.3
Carbonyl sulfide	FL-150	0.87	0.82	0.85	5.9
Methyl mercaptan	FL-150	5.44	5.60	5.52	2.9
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	162	163	163	0.62
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	1.92	1.91	1.92	0.52
s-Butyl mercaptan	FL-150	1.97	1.83	1.90	7.4
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.38	7.38	7.38	0.00
Tetrahydrothiophene	FL-150	1.29	1.01	1.15	24
Unidentified sulfurs	FL-150	9.17	9.29	9.23	1.3

One Tedlar bag sample, laboratory number 22473-2, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 5.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature) Eric Castro	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22473-1	9/3/23	4:46pm	X						Filtered/ H2S 3ppm
FL-150	Landfill Gas	-2	9/4/23	7:55am	X						Filtered/ H2S 6ppm

Relinquished by: (Signature) Eric Castro	**Date** 9/4/23	**Time** 10	**Received by: (Signature)**	**Date** 9/4/23	**Time** 10
Relinquished by: (Signature)	**Date** 9/4/23	**Time** 14:26	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)**	**Date** 9-4-23	**Time** 10:26

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	**Company:**	SCS Engineers	**AtmAA Inc.**
Street Address	3900 Kilroy Airport Way Suite 100	**Street Address**	3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip:	Long Beach / CA / 90806	**City/State/Zip:**	Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.:	562-743-7895 /562-335-0002	**Project Manager:**	Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:		**Email Address:**	CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	September 21, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	September 5, 2023
Date Received:	September 6, 2023
Date Analyzed:	September 6, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22493-11
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	3.86
Carbonyl sulfide	0.99
Methyl mercaptan	5.23
Ethyl mercaptan	<0.50
Dimethyl sulfide	174
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.82
s-Butyl mercaptan	2.62
i-Butyl mercaptan	<0.50
Dimethyl disulfide	13.9
Tetrahydrothiophene	1.71
Unidentified sulfurs	27.9
	(Concentration in ppmv, as H_2S)
Total Sulfur	246.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 5, 2023
Date Received: September 6, 2023
Date Analyzed: September 6, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	3.82	3.89	3.86	1.8
Carbonyl sulfide	FL-150	0.98	1.00	0.99	2.0
Methyl mercaptan	FL-150	5.27	5.18	5.23	1.7
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	174	173	174	0.58
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.89	2.75	2.82	5.0
s-Butyl mercaptan	FL-150	2.69	2.54	2.62	5.7
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	14.0	13.7	13.9	2.2
Tetrahydrothiophene	FL-150	1.81	1.61	1.71	12
Unidentified sulfurs	FL-150	28.7	27.1	27.9	5.9

One Tedlar bag sample, laboratory number 22493-11, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 4.1%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 21, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 6, 2023
Date Received: September 6, 2023
Date Analyzed: September 6, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22493-12
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	6.17
Carbonyl sulfide	0.94
Methyl mercaptan	7.53
Ethyl mercaptan	<0.50
Dimethyl sulfide	156
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.52
s-Butyl mercaptan	2.39
i-Butyl mercaptan	<0.50
Dimethyl disulfide	10.9
Tetrahydrothiophene	1.45
Unidentified sulfurs	14.7

(Concentration in ppmv, as H_2S)

Total Sulfur	213.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 6, 2023
Date Received: September 6, 2023
Date Analyzed: September 6, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	6.10	6.24	6.17	2.3
Carbonyl sulfide	FL-150	0.93	0.94	0.94	1.1
Methyl mercaptan	FL-150	7.54	7.52	7.53	0.27
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	156	156	156	0.00
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.57	2.46	2.52	4.4
s-Butyl mercaptan	FL-150	2.47	2.30	2.39	7.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	11.0	10.8	10.9	1.8
Tetrahydrothiophene	FL-150	1.60	1.30	1.45	21
Unidentified sulfurs	FL-150	15.0	14.4	14.7	4.4

One Tedlar bag sample, laboratory number 22493-12, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 4.7%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS						Special Remarks
FL-150 INLET		22493-11	9-5-23	3:07 pm	X						Filtered 3ppm
FL-150 Inlet		-12	9-6-23	7:35 am	X						Filtered 6ppm

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Fabian Chavez	9-6-23	10:37 am	LUIS FARFAN	9/6/23	10:37
Relinquished by: *(Signature)* LUIS FARFAN	**Date** 9/6/23	**Time** 11:23	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)* AtmAA	**Date** 9/6/23	**Time** 11:23

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 22, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 7, 2023
Date Received: September 8, 2023
Date Analyzed: September 8, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22513-9
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	3.95
Carbonyl sulfide	1.01
Methyl mercaptan	5.86
Ethyl mercaptan	<0.50
Dimethyl sulfide	186
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.90
s-Butyl mercaptan	2.49
i-Butyl mercaptan	<0.50
Dimethyl disulfide	12.2
Tetrahydrothiophene	1.81
Unidentified sulfurs	28.6
	(Concentration in ppmv, as H_2S)
Total Sulfur	256.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 7, 2023
Date Received: September 8, 2023
Date Analyzed: September 8, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	4.07	3.82	3.95	6.3
Carbonyl sulfide	FL-150	1.03	0.98	1.01	5.0
Methyl mercaptan	FL-150	6.03	5.68	5.86	6.0
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	182	189	186	3.8
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.86	2.94	2.90	2.8
s-Butyl mercaptan	FL-150	2.48	2.50	2.49	0.80
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	11.9	12.5	12.2	4.9
Tetrahydrothiophene	FL-150	1.88	1.74	1.81	7.7
Unidentified sulfurs	FL-150	28.0	29.2	28.6	4.2

One Tedlar bag sample, laboratory number 22513-9, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 4.6%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 22, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 8, 2023
Date Received: September 8, 2023
Date Analyzed: September 8, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22513-10
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	7.48
Carbonyl sulfide	0.94
Methyl mercaptan	8.23
Ethyl mercaptan	<0.50
Dimethyl sulfide	157
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.40
s-Butyl mercaptan	2.21
i-Butyl mercaptan	<0.50
Dimethyl disulfide	8.88
Tetrahydrothiophene	1.33
Unidentified sulfurs	14.3

(Concentration in ppmv, as H_2S)

Total Sulfur	211.6

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 8, 2023
Date Received: September 8, 2023
Date Analyzed: September 8, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	7.37	7.58	7.48	2.8
Carbonyl sulfide	FL-150	0.93	0.94	0.94	1.1
Methyl mercaptan	FL-150	8.30	8.16	8.23	1.7
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	159	155	157	2.5
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.50	2.29	2.40	8.8
s-Butyl mercaptan	FL-150	2.30	2.12	2.21	8.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	9.10	8.65	8.88	5.1
Tetrahydrothiophene	FL-150	1.38	1.27	1.33	8.3
Unidentified sulfurs	FL-150	14.8	13.8	14.3	7.4

One Tedlar bag sample, laboratory number 22513-10, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 5.1%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature)	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS	Special Remarks
FL-150 INLET	LFG	22513-9	9-7-23	4:00pm	X	Filtered 3ppm
FL-150 inlet	LFG	-10	9-8-23	7:20am	X	Filtered 7ppm

Relinquished by: (Signature) Fabian Chavez	**Date** 9-8-23	**Time** 10:47am	**Received by: (Signature)** LUIS FARFAN	**Date** 9/8/23	**Time** 10:46
Relinquished by: (Signature) LUIS FARFAN	**Date** 9/8/23	**Time** 10:35	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)** AtmAA	**Date** 9/8/23	**Time** 11:37

Company Info:

Company: SCS Engineers
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City/State/Zip: Long Beach / CA / 90806
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Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 9, 2023
Date Received: September 9, 2023
Date Analyzed: September 9, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22523-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	6.87
Carbonyl sulfide	0.94
Methyl mercaptan	8.21
Ethyl mercaptan	<0.50
Dimethyl sulfide	162
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.48
s-Butyl mercaptan	2.36
i-Butyl mercaptan	<0.50
Dimethyl disulfide	11.7
Tetrahydrothiophene	1.43
Unidentified sulfurs	18.9

(Concentration in ppmv, as H_2S)

Total Sulfur	226.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 9, 2023
Date Received: September 9, 2023
Date Analyzed: September 9, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	6.91	6.82	6.87	1.3
Carbonyl sulfide	FL-150	0.93	0.94	0.94	1.1
Methyl mercaptan	FL-150	8.28	8.13	8.21	1.8
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	162	162	162	0.00
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.52	2.43	2.48	3.6
s-Butyl mercaptan	FL-150	2.39	2.33	2.36	2.5
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	11.7	11.6	11.7	0.86
Tetrahydrothiophene	FL-150	1.45	1.41	1.43	2.8
Unidentified sulfurs	FL-150	18.8	19.0	18.9	0.70

One Tedlar bag sample, laboratory number 22523-1, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 1.6%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature) Eric Castro	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-150	Landfill Gas	22523-1	9/9/23	8:29AM	X						Filtered/ H2S 6 ppm
					X						

	Date	Time		Date	Time
Relinquished by: (Signature) Eric Castro	9/9/23	9:15AM	**Received by: (Signature)** LUIS FARFAN	9/9/23	9:15
Relinquished by: (Signature) LUIS FARFAN	9/9/23	10:07	**Received by: (Signature)**		
Relinquished by: (Signature)			**Received for Laboratory by: (Signature)**	9/9/23	10:07

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 10, 2023
Date Received: September 11, 2023
Date Analyzed: September 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22543-1
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	3.33
Carbonyl sulfide	0.90
Methyl mercaptan	6.07
Ethyl mercaptan	<0.50
Dimethyl sulfide	183
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.54
s-Butyl mercaptan	2.20
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.85
Tetrahydrothiophene	1.39
Unidentified sulfurs	19.6

(Concentration in ppmv, as H_2S)

Total Sulfur	234.2

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 10, 2023
Date Received: September 11, 2023
Date Analyzed: September 11, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	3.24	3.41	3.33	5.1
Carbonyl sulfide	FL-150	0.86	0.94	0.90	8.9
Methyl mercaptan	FL-150	5.91	6.22	6.07	5.1
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	180	185	183	2.7
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.51	2.57	2.54	2.4
s-Butyl mercaptan	FL-150	2.19	2.20	2.20	0.46
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.65	8.05	7.85	5.1
Tetrahydrothiophene	FL-150	1.37	1.40	1.39	2.2
Unidentified sulfurs	FL-150	18.6	20.6	19.6	10

One Tedlar bag sample, laboratory number 22543-1, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 4.7%.

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: September 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 11, 2023
Date Received: September 11, 2023
Date Analyzed: September 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22543-2
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	6.13
Carbonyl sulfide	0.86
Methyl mercaptan	8.98
Ethyl mercaptan	<0.50
Dimethyl sulfide	174
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.47
s-Butyl mercaptan	2.41
i-Butyl mercaptan	<0.50
Dimethyl disulfide	8.13
Tetrahydrothiophene	1.54
Unidentified sulfurs	17.7

(Concentration in ppmv, as H_2S)

Total Sulfur	230.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 11, 2023
Date Received: September 11, 2023
Date Analyzed: September 11, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	5.93	6.32	6.13	6.4
Carbonyl sulfide	FL-150	0.84	0.88	0.86	4.7
Methyl mercaptan	FL-150	9.05	8.91	8.98	1.6
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	178	170	174	4.6
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.62	2.32	2.47	12
s-Butyl mercaptan	FL-150	2.56	2.25	2.41	13
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	8.33	7.93	8.13	4.9
Tetrahydrothiophene	FL-150	1.65	1.42	1.54	15
Unidentified sulfurs	FL-150	18.6	16.8	17.7	10

One Tedlar bag sample, laboratory number 22543-2, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 8.0%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS	Special Remarks
FL-150 INLET	LFG	22543-1	9-10-23	4:08pm	X	Filtered 2ppm
FL-150 inlet	LFG	-2	9-11-23	9:30am	X	Filtered 5ppm

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Fabian Chavez	9-11-23	11:am	Dimitri (DCS)		11:00am
Relinquished by: *(Signature)* Dimitri (DCS)	**Date** 9/11/23	**Time** 11:40	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)* AtmAA	**Date** 9/11/23	**Time** 11:40

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: October 4, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 20, 2023
Date Received: September 20, 2023
Date Analyzed: September 20, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22633-4
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	7.99
Carbonyl sulfide	0.85
Methyl mercaptan	15.5
Ethyl mercaptan	<0.50
Dimethyl sulfide	199
Carbon disulfide	<0.50
i-Propyl mercaptan	0.65
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.68
s-Butyl mercaptan	2.63
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.71
Tetrahydrothiophene	1.46
Unidentified sulfurs	15.7
	(Concentration in ppmv, as H_2S)
Total Sulfur	261.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 20, 2023
Date Received: September 20, 2023
Date Analyzed: September 20, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	7.64	8.33	7.99	8.6
Carbonyl sulfide	FL-150	0.83	0.86	0.85	3.6
Methyl mercaptan	FL-150	15.4	15.6	15.5	1.3
Ethyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl sulfide	FL-150	194	203	199	4.5
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	0.68	0.62	0.65	9.2
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.82	2.53	2.68	11
s-Butyl mercaptan	FL-150	2.73	2.52	2.63	8.0
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.72	7.70	7.71	0.26
Tetrahydrothiophene	FL-150	1.53	1.38	1.46	10
Unidentified sulfurs	FL-150	16.2	15.1	15.7	7.4

One Tedlar bag sample, laboratory number 22633-4, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 6.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (301.91)						Special Remarks
FL-150 INLET		22633-4	9-20-23	9:05 am	X						Filtered 9ppm

Relinquished by: *(Signature)* Fabian Chavez	**Date** 9-20-23	**Time** 10:00 am	**Received by:** *(Signature)*	**Date** 9/20/23	**Time** 1000
Relinquished by: *(Signature)*	**Date** 9/20/23	**Time** 1115	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)*	**Date** 9/20/23	**Time** 1115

Company Info:	**Send Report to:**	**Analytical Laboratory**
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: October 4, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: September 27, 2023
Date Received: September 27, 2023
Date Analyzed: September 27, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22703-43
Sample I.D.: FL-150 Inlet

Components	*(Concentration in ppmv)*
Hydrogen sulfide	15.3
Carbonyl sulfide	1.13
Methyl mercaptan	23.6
Ethyl mercaptan	0.53
Dimethyl sulfide	174
Carbon disulfide	<0.50
i-Propyl mercaptan	1.00
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.04
s-Butyl mercaptan	3.20
i-Butyl mercaptan	<0.50
Dimethyl disulfide	10.7
Tetrahydrothiophene	2.09
Unidentified sulfurs	24.5
	(Concentration in ppmv, as H_2S)
Total Sulfur	269.7

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: September 27, 2023
Date Received: September 27, 2023
Date Analyzed: September 27, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150 Inlet	14.8	15.8	15.3	6.5
Carbonyl sulfide	FL-150 Inlet	1.17	1.08	1.13	8.0
Methyl mercaptan	FL-150 Inlet	23.0	24.2	23.6	5.1
Ethyl mercaptan	FL-150 Inlet	0.52	0.54	0.53	3.8
Dimethyl sulfide	FL-150 Inlet	171	177	174	3.4
Carbon disulfide	FL-150 Inlet	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150 Inlet	0.98	1.02	1.00	4.0
t-Butyl mercaptan	FL-150 Inlet	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150 Inlet	3.02	3.06	3.04	1.3
s-Butyl mercaptan	FL-150 Inlet	3.14	3.26	3.20	3.7
i-Butyl mercaptan	FL-150 Inlet	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150 Inlet	10.5	10.8	10.7	2.9
Tetrahydrothiophene	FL-150 Inlet	2.08	2.10	2.09	0.96
Unidentified sulfurs	FL-150 Inlet	24.1	24.8	24.5	3.0

One Tedlar bag sample, laboratory number 22703-43, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 3.9%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature)	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (301.91)						Special Remarks
FL-150 INLET	Landfill Gas	2203-43	9-27-23	10:15am	X						Filtered 12 PPm

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Fabian Chavez	9-27-23	11:23 am		9/27/23	11:23am
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)**	**Date**	**Time**
				9/27/23	12:30

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	**Company:**	SCS Engineers	**AtmAA Inc.**
Street Address	3900 Kilroy Airport Way Suite 100	**Street Address**	3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip:	Long Beach / CA / 90806	**City/State/Zip:**	Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.:	562-743-7895 /562-335-0002	**Project Manager:**	Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:		**Email Address:**	CFong@scsengineers.com	**FAX: (818) 223-8250**

Attachment B

Calculations

Chiquita Canyon Landfill
Total Emissions
Monthly Report Period: September 2023

	Flare No. 1 John Zink (FL-150)				Flare No. 2 John Zink (Zule) (FL-100)				Envent Thermal Oxidizer (TOx)	All Control Devices (Flare No. 1, Flare No. 2, TOx)			Lab Analysis Total Reduced Sulfur as H2S (ppmv)
Date	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total Flow Rate (scfm)	Total Flow Rate (scf/hr)	
9/1/2023	5,249,329	24.00	3,645	218,722	5,448,637	24.00	3,784	227,027	2,460,960	13,158,926	9,138	548,289	223
9/2/2023	5,248,598	24.00	3,645	218,692	5,431,308	24.00	3,772	226,304	2,460,960	13,140,866	9,126	547,536	207
9/3/2023	5,284,771	24.00	3,670	220,199	5,427,686	24.00	3,769	226,154	2,460,510	13,172,967	9,148	548,874	211
9/4/2023	5,238,528	24.00	3,638	218,272	5,398,568	24.00	3,749	224,940	2,443,870	13,080,966	9,084	545,040	203
9/5/2023	4,852,719	24.00	3,370	202,197	5,058,416	24.00	3,513	210,767	2,230,147	12,141,282	8,431	505,887	246
9/6/2023	4,311,476	24.00	2,994	179,645	4,590,999	24.00	3,188	191,292	2,239,590	11,142,065	7,738	464,253	214
9/7/2023	4,954,922	24.00	3,441	206,455	5,130,499	24.00	3,563	213,771	1,836,325	11,921,746	8,279	496,739	257
9/8/2023	4,763,215	24.00	3,308	198,467	4,973,268	24.00	3,454	207,220	2,372,520	12,109,003	8,409	504,542	212
9/9/2023	4,350,751	24.00	3,021	181,281	4,648,832	24.00	3,228	193,701	2,460,960	11,460,543	7,959	477,523	227
9/10/2023	4,470,153	24.00	3,104	186,256	4,752,573	24.00	3,300	198,024	2,297,640	11,520,366	8,000	480,015	234
9/11/2023	4,399,550	24.00	3,055	183,315	4,650,880	24.00	3,230	193,787	2,148,300	11,198,730	7,777	466,614	230
9/12/2023	4,974,598	22.90	3,455	207,275	5,134,376	23.13	3,566	213,932	2,051,460	12,160,434	8,445	506,685	--
9/13/2023	4,933,113	24.00	3,426	205,546	5,127,975	24.00	3,561	213,666	2,247,960	12,309,048	8,548	512,877	--
9/14/2023	4,830,114	24.00	3,354	201,255	5,010,516	24.00	3,480	208,771	2,222,410	12,063,039	8,377	502,627	--
9/15/2023	4,724,543	24.00	3,281	196,856	4,904,698	24.00	3,406	204,362	2,158,560	11,787,801	8,186	491,158	--
9/16/2023	5,316,483	24.00	3,692	221,520	5,344,290	24.00	3,711	222,679	2,143,570	12,804,342	8,892	533,514	--
9/17/2023	5,419,342	24.00	3,763	225,806	5,350,322	24.00	3,716	222,930	2,158,560	12,928,224	8,978	538,676	--
9/18/2023	4,982,602	22.92	3,460	207,608	5,272,645	24.00	3,662	219,694	2,136,075	12,391,322	8,605	516,305	--
9/19/2023	5,181,702	23.70	3,598	215,904	5,297,074	24.00	3,679	220,711	2,136,075	12,614,851	8,760	525,619	--
9/20/2023	4,919,616	23.92	3,416	204,984	5,050,389	24.00	3,507	210,433	2,143,570	12,113,574	8,412	504,732	261
9/21/2023	4,017,989	20.65	2,790	167,416	5,046,283	24.00	3,504	210,262	2,158,560	11,222,832	7,794	467,618	--
9/22/2023	4,843,635	23.82	3,364	201,818	5,200,898	24.00	3,612	216,704	2,128,580	12,173,113	8,454	507,213	--
9/23/2023	4,963,059	23.25	3,447	206,794	5,447,777	24.00	3,783	226,991	2,158,560	12,569,395	8,729	523,725	--
9/24/2023	5,083,210	24.00	3,530	211,800	5,383,952	24.00	3,739	224,331	2,143,570	12,610,732	8,757	525,447	--
9/25/2023	5,203,834	24.00	3,614	216,826	5,458,062	24.00	3,790	227,419	2,143,570	12,805,466	8,893	533,561	--
9/26/2023	5,048,026	23.62	3,506	210,334	5,363,254	24.00	3,724	223,469	2,093,100	12,504,379	8,684	521,016	--
9/27/2023	5,166,115	23.35	3,588	215,255	5,429,075	24.00	3,770	226,211	2,129,706	12,724,896	8,837	530,204	270
9/28/2023	5,053,016	22.72	3,509	210,542	5,153,279	22.87	3,579	214,720	1,895,480	12,101,775	8,404	504,241	--
9/29/2023	5,236,686	23.65	3,637	218,195	5,400,358	24.00	3,750	225,015	2,132,570	12,769,614	8,868	532,067	--
9/30/2023	4,604,376	22.53	3,197	191,849	5,414,386	24.00	3,760	225,599	2,143,570	12,162,332	8,446	506,764	--

*Flare Flow and Runtime from chart recorder data. Total consists of Flare No. 1 and Flare No. 2. Ameresco's variance was approved on February 15th and Ameresco began operations on February 16th.

*Date of lab data based on date sampled.

Chiquita Canyon Landfill
LFG Not Combusted
Monthly Report Period: September 2023

Date	Flare 1, 2, TOx Total Flow Rate (scf/day)	2022 Baseline Flow Rate (scf/day)	LFG Not Combusted (scf/day)[1]	Ameresco LFG Processed (scf/day)[2]	LFG Not Combusted (scfm)
9/1/2023	13,158,926	--	--	1,321,810	--
9/2/2023	13,140,866	--	--	3,003,256	--
9/3/2023	13,172,967	--	--	3,050,848	--
9/4/2023	13,080,966	--	--	3,301,407	--
9/5/2023	12,141,282	--	--	4,626,744	--
9/6/2023	11,142,065	--	--	5,763,098	--
9/7/2023	11,921,746	--	--	3,267,847	--
9/8/2023	12,109,003	--	--	4,754,422	--
9/9/2023	11,460,543	--	--	5,520,593	--
9/10/2023	11,520,366	--	--	5,282,695	--
9/11/2023	11,198,730	--	--	5,531,680	--
9/12/2023	12,160,434	--	--	4,495,743	--
9/13/2023	12,309,048	--	--	5,565,111	--
9/14/2023	12,063,039	--	--	5,529,258	--
9/15/2023	11,787,801	--	--	5,546,307	--
9/16/2023	12,804,342	--	--	5,529,117	--
9/17/2023	12,928,224	--	--	5,559,323	--
9/18/2023	12,391,322	--	--	5,544,625	--
9/19/2023	12,614,851	--	--	5,546,698	--
9/20/2023	12,113,574	--	--	5,593,361	--
9/21/2023	11,222,832	--	--	5,571,862	--
9/22/2023	12,173,113	--	--	5,601,122	--
9/23/2023	12,569,395	--	--	5,562,397	--
9/24/2023	12,610,732	--	--	5,549,514	--
9/25/2023	12,805,466	--	--	5,552,017	--
9/26/2023	12,504,379	--	--	5,546,698	--
9/27/2023	12,724,896	--	--	5,508,296	--
9/28/2023	12,101,775	--	--	5,521,580	--
9/29/2023	12,769,614	--	--	5,555,669	--
9/30/2023	12,162,332	--	--	5,552,954	--
Total/Average					**--**

[1]Total LFG not combusted is calculated based on the difference from total flow rate from all control devices from 2022 (baseline) and flow rate from Flare 1 and 2 during the reporting period. Ameresco applied for variance to operate the LFG turbine plant under a variance order, and their variance was approved on February 15th. Ameresco restarted operations on February 16th, returning LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

[2]Actual Ameresco LFG flow rate after restarting operations are greater than the unflared amount while Ameresco was off-line. Therefore, there are no unflared gas in September 2023.

*Flare Flow and Runtime from chart recorder data.

*Date of lab data based on date sampled.

2022 Baseline Flow Rate			
Devices	**Total Flow (scf)**	**Flow Rate (scf/day)**	**Flow Rate (scfm)**
Flare No. 1	1,380,940,025	3,783,397	2,627
Flare No. 2	1,386,138,034	3,797,638	2,637
LFGTE Facility	1,584,198,413	4,340,270	3,014
Total	**4,351,276,471**	**11,921,305**	**8,279**

*Flare flow from chart recorder data. LFGTE Facility flow from Ameresco.

Attachment C

Surface Emissions Monitoring

2023 Chiquita Surface Emissions Exceedance

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
Integrated (Monthly)															
1/13/23, 1/20/23, 1/21/23 (no exceedances)															
2/1/23, 2/4/23, 2/13/23, 2/21/23 (no exceedances)															
175	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	68	Moisture Condition, Soil/Dirt Compaction	3/13/2023	48	Moisture Condition, Soil/Dirt Compaction	3/24/2023	20	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	9
182	2/21/2023	80	Moisture Condition, Soil/Dirt Compaction	3/3/2023	51	Moisture Condition, Soil/Dirt Compaction	3/13/2023	52	Moisture Condition, Soil/Dirt Compaction	3/24/2023	18	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	8
200	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	72	Moisture Condition, Soil/Dirt Compaction	3/13/2023	56	Moisture Condition, Soil/Dirt Compaction	3/24/2023	22	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	17
202	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	45	Moisture Condition, Soil/Dirt Compaction	3/13/2023	19	NA	NA	NA				
190	3/9/2023	39	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
191	3/9/2023	29	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.63	NA	NA	NA				
192	3/9/2023	41	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
193	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.77	NA	NA	NA				
189	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
188	3/9/2023	38	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.64	NA	NA	NA				
187	3/9/2023	40	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
186	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	13.91	NA	NA	NA				
182	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.7	NA	NA	NA				
183	3/9/2023	48	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.24	NA	NA	NA				
184	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
200	3/9/2023	45	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
181	3/9/2023	34	Moisture Condition, Soil/Dirt Compaction	3/17/2023	21	NA	NA	NA	NA	NA	NA				
180	3/9/2023	49	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
139	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
201	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	17	NA	NA	NA	NA	NA	NA				
175	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
176	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	38	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.49	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	42	Moisture Condition, Soil/Dirt Compaction	3/27/2023	60.04	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	17
202	3/9/2023	54	Moisture Condition, Soil/Dirt Compaction	3/17/2023	36	Moisture Condition, Soil/Dirt Compaction	3/27/2023	30.99	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
174	3/9/2023	60	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
173	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	28	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.75	NA	NA	NA				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	40	Moisture Condition, Soil/Dirt Compaction	3/27/2023	58.78	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	13
203	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	20	NA	NA	NA	NA	NA	NA				
169	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	37	Moisture Condition, Soil/Dirt Compaction	3/27/2023	16.2	NA	NA	NA				
207	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	22	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	55.11	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	14
168	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.65	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
202	3/9/2023	59	Moisture Condition, Soil/Dirt Compaction	3/17/2023	46	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
204	3/27/2023	55	Moisture Condition, Soil/Dirt Compaction	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
203	3/27/2023	52	Moisture Condition, Soil/Dirt Compaction	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA				
207	3/27/2023	50	Moisture Condition, Soil/Dirt Compaction	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA				
206	3/27/2023	58	Moisture Condition, Soil/Dirt Compaction	4/4/2023	18	NA	NA	NA	NA	NA	NA				
205	3/27/2023	60	Moisture Condition, Soil/Dirt Compaction	4/4/2023	16	NA	NA	NA	NA	NA	NA				
175	3/27/2023	49	Moisture Condition, Soil/Dirt Compaction	4/4/2023	13	NA	NA	NA	NA	NA	NA				
202	3/27/2023	30	Moisture Condition, Soil/Dirt Compaction	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
202	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
203	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA	NA	NA	NA				
204	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
207	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA	NA	NA	NA				
174	4/17/2023	40	Moisture Condition, Soil/Dirt Compaction	4/27/2023	22	NA	NA	NA	NA	NA	NA				
190	4/17/2023	26	Moisture Condition, Soil/Dirt Compaction	4/27/2023	17	NA	NA	NA	NA	NA	NA				
200	4/17/2023	25	Moisture Condition, Soil/Dirt Compaction	4/27/2023	19	NA	NA	NA	NA	NA	NA				
207	5/1/2023	54	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
210	5/1/2023	26	Moisture Condition, Soil/Dirt Compaction	5/10/2023	19	NA	NA	NA	NA	NA	NA				
202	5/1/2023	29	Moisture Condition, Soil/Dirt Compaction	5/10/2023	21	NA	NA	NA	NA	NA	NA				
208	5/1/2023	43	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
201	5/17/2023	30	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
205	5/17/2023	26	Moisture Condition, Soil/Dirt Compaction	5/26/2023	19	NA	NA	NA	NA	NA	NA				
203	5/17/2023	27	Moisture Condition, Soil/Dirt Compaction	5/26/2023	21	NA	NA	NA	NA	NA	NA				
169	5/17/2023	25	Moisture Condition, Soil/Dirt Compaction	5/26/2023	18	NA	NA	NA	NA	NA	NA				
173	5/17/2023	35	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
206	5/30/2023	36	Moisture Condition, Soil/Dirt Compaction	6/9/2023	19	NA	NA	NA	NA	NA	NA				
170	5/30/2023	95	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17	NA	NA	NA	NA	NA	NA				
172	5/30/2023	28	Moisture Condition, Soil/Dirt Compaction	6/9/2023	18	NA	NA	NA	NA	NA	NA				
151	5/30/2023	83	Moisture Condition, Soil/Dirt Compaction	6/9/2023	22	NA	NA	NA	NA	NA	NA				
181	5/30/2023	30	Moisture Condition, Soil/Dirt Compaction	6/9/2023	21	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
172	6/13/2023	30	Moisture Condition, Soil/Dirt Compaction	6/22/2023	19	NA	NA	NA	NA	NA	NA				
179	6/13/2023	25	Moisture Condition, Soil/Dirt Compaction	6/22/2023	10	NA	NA	NA	NA	NA	NA				
156	6/13/2023	27	Moisture Condition, Soil/Dirt Compaction	6/22/2023	21	NA	NA	NA	NA	NA	NA				
177	6/13/2023	120	Moisture Condition, Soil/Dirt Compaction	6/22/2023	23	NA	NA	NA	NA	NA	NA				
176	6/27/2023	40	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23	NA	NA	NA	NA	NA	NA				
179	6/27/2023	35	Moisture Condition, Soil/Dirt Compaction	7/7/2023	21	NA	NA	NA	NA	NA	NA				
172	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19	NA	NA	NA	NA	NA	NA				
173	6/27/2023	27	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24	NA	NA	NA	NA	NA	NA				
169	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20	NA	NA	NA	NA	NA	NA				
179	7/10/2023	50	Moisture Condition, Soil/Dirt Compaction	7/20/2023	55	Moisture Condition, Soil/Dirt Compaction	7/28/2023	36	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	24
173	7/10/2023	35	Moisture Condition, Soil/Dirt Compaction	7/20/2023	53	Moisture Condition, Soil/Dirt Compaction	7/28/2023	29	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	23
205	7/10/2023	27	Moisture Condition, Soil/Dirt Compaction	7/20/2023	168	Moisture Condition, Soil/Dirt Compaction	7/28/2023	60	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	21
203	7/10/2023	25	Moisture Condition, Soil/Dirt Compaction	7/20/2023	152	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	19
174	7/24/2023	32	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
175	7/24/2023	45	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
205	8/8/2023	74	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
206	8/8/2023	38	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
169	8/8/2023	27	Moisture Condition, Soil/Dirt Compaction	8/17/2023	21	NA	NA	NA	NA	NA	NA				
170	8/8/2023	29	Moisture Condition, Soil/Dirt Compaction	8/17/2023	22	NA	NA	NA	NA	NA	NA				
175	8/8/2023	30	Moisture Condition, Soil/Dirt Compaction	8/17/2023	19	NA	NA	NA	NA	NA	NA				
206	8/24/2023	120	Moisture Condition, Soil/Dirt Compaction	9/1/2023	377	Moisture Condition, Soil/Dirt Compaction	9/8/2023	23	NA	NA	NA				
176	8/24/2023	76	Moisture Condition, Soil/Dirt Compaction	9/1/2023	210	Moisture Condition, Soil/Dirt Compaction	9/5/2023	13	NA	NA	NA				
175	8/24/2023	68	Moisture Condition, Soil/Dirt Compaction	9/1/2023	380	Moisture Condition, Soil/Dirt Compaction	9/5/2023	11	NA	NA	NA				
174	8/24/2023	28	Moisture Condition, Soil/Dirt Compaction	9/1/2023	406	Moisture Condition, Soil/Dirt Compaction	9/5/2023	15	NA	NA	NA				
202	8/24/2023	31	Moisture Condition, Soil/Dirt Compaction	9/1/2023	220	Moisture Condition, Soil/Dirt Compaction	9/5/2023	19	NA	NA	NA				
201	8/24/2023	48	Moisture Condition, Soil/Dirt Compaction	9/1/2023	230	Moisture Condition, Soil/Dirt Compaction	9/5/2023	18	NA	NA	NA				
181	8/24/2023	29	Moisture Condition, Soil/Dirt Compaction	9/1/2023	180	Moisture Condition, Soil/Dirt Compaction	9/5/2023	17	NA	NA	NA				
207	9/5/2023	26	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.7	NA	NA	NA	NA	NA	NA				
206	9/5/2023	31	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.9	NA	NA	NA	NA	NA	NA				
205	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.7	NA	NA	NA	NA	NA	NA				
169	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.5	NA	NA	NA	NA	NA	NA				
166	9/5/2023	29	Moisture Condition, Soil/Dirt Compaction	9/15/2023	8.0	NA	NA	NA	NA	NA	NA				
154	9/5/2023	28	Moisture Condition, Soil/Dirt Compaction	9/15/2023	7.0	NA	NA	NA	NA	NA	NA				
167	9/19/2023	40	Moisture Condition, Soil/Dirt Compaction	9/29/2023	12.1	NA	NA	NA	NA	NA	NA				
202	9/19/2023	27	Moisture Condition, Soil/Dirt Compaction	9/29/2023	127.0	Moisture Condition, Soil/Dirt Compaction	10/6/2023	43.6	Moisture Condition, Soil/Dirt Compaction	10/13/2023	16				
205	9/19/2023	25	Moisture Condition, Soil/Dirt Compaction	9/29/2023	63.8	Moisture Condition, Soil/Dirt Compaction	10/6/2023	26.9	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24				
204	9/19/2023	28	Moisture Condition, Soil/Dirt Compaction	9/29/2023	44.4	Moisture Condition, Soil/Dirt Compaction	10/6/2023	12.1	NA	NA	NA				
174	9/19/2023	31	Moisture Condition, Soil/Dirt Compaction	9/29/2023	32.9	Moisture Condition, Soil/Dirt Compaction	10/6/2023	29.2	Moisture Condition, Soil/Dirt Compaction	10/13/2023	12				
170	9/19/2023	35	Moisture Condition, Soil/Dirt Compaction	9/29/2023	25.5	Moisture Condition, Soil/Dirt Compaction	10/6/2023	19.6	NA	NA	NA				
							Instantaneous (Monthly)								
201/Y1	1/25/2023	700	Moisture Condition, Soil/Dirt Compaction	2/2/2023	263	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	358				
205/Y21	1/25/2023	764	Moisture Condition, Soil/Dirt Compaction	2/2/2023	194	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	299				
214/Y22	1/25/2023	802	Moisture Condition, Soil/Dirt Compaction	2/2/2023	299	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	106				
214/Y23	1/25/2023	998	Moisture Condition, Soil/Dirt Compaction	2/2/2023	157	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	110				
202/Y41	1/25/2023	3,028	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	458				
202/Y42	1/25/2023	4,263	Moisture Condition, Soil/Dirt Compaction	2/2/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	406				
215/Y43	1/25/2023	6,519	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	398				
215/Y44	1/25/2023	963	Moisture Condition, Soil/Dirt Compaction	2/2/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	164				
203/Y61	1/25/2023	4,652	Moisture Condition, Soil/Dirt Compaction	2/2/2023	409	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	410				
203/Y62	1/25/2023	778	Moisture Condition, Soil/Dirt Compaction	2/2/2023	54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	68				
203/Y63	1/25/2023	2,465	Moisture Condition, Soil/Dirt Compaction	2/2/2023	479	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	94				
211/Y63	1/25/2023	1,237	Moisture Condition, Soil/Dirt Compaction	2/2/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	123				
201/Y21	2/23/2023	2,169	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	185	Moisture Condition, Soil/Dirt Compaction	3/24/2023	121				
175/Y22	2/23/2023	964	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	1300	Moisture Condition, Soil/Dirt Compaction	3/24/2023	484	4/27/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 4/17/23	10
175/Y23	2/23/2023	3,654	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,500	Moisture Condition, Soil/Dirt Compaction	3/13/2023	100	Moisture Condition, Soil/Dirt Compaction	3/24/2023	100				
202/Y41	2/23/2023	36,201	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,250	Moisture Condition, Soil/Dirt Compaction	3/13/2023	638	Moisture Condition, Soil/Dirt Compaction	3/24/2023	235	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y42	2/23/2023	1,678	Moisture Condition, Soil/Dirt Compaction	3/3/2023	2,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	836	Moisture Condition, Soil/Dirt Compaction	3/24/2023	441	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y43	2/23/2023	843	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,505	Moisture Condition, Soil/Dirt Compaction	3/13/2023	190	Moisture Condition, Soil/Dirt Compaction	3/24/2023	398				
169/Y61	2/23/2023	15,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	9,999	Moisture Condition, Soil/Dirt Compaction	3/13/2023	720	Moisture Condition, Soil/Dirt Compaction	3/24/2023	215	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	17
208/Y121	2/23/2023	1,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	685	Moisture Condition, Soil/Dirt Compaction	3/13/2023	135	Moisture Condition, Soil/Dirt Compaction	3/24/2023	380				
208/Y122	2/23/2023	1,200	Moisture Condition, Soil/Dirt Compaction	3/3/2023	950	Moisture Condition, Soil/Dirt Compaction	3/13/2023	580	Moisture Condition, Soil/Dirt Compaction	3/24/2023	291	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	23
207/Y1	3/31/2023	900	Moisture Condition, Soil/Dirt Compaction	4/10/2023	22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	37				
207/Y2	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	129				
202/Y3	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	98				
201/Y4	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	209				
175/Y5	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	461	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	162				
178/Y11	3/31/2023	2,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	199				
179/Y12	3/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	4/10/2023	15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	143				
175/Y13	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	425	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	398				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
174/Y14	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	82				
174/Y15	3/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	4/10/2023	300	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	283				
202/Y16	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	373	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	112				
203/Y27	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	218	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	316				
203/Y18	3/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	4/10/2023	68.88	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	152				
204/Y19	3/31/2023	500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	27.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	30				
204/Y20	3/31/2023	520	Moisture Condition, Soil/Dirt Compaction	4/10/2023	173	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	23				
H-1952C	4/6/2023	1,500	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	397	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	247				
H-1754N	4/6/2023	1,000	Increased applied vacuum with higher system vacuum. Adjusted well H-1773B. Added new soil and compacted area.	4/14/2023	419	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301				
H-1964C	4/6/2023	550	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	242	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256				
L-32	4/6/2023	1,100	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	320	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	283				
D-180	4/6/2023	4,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	272	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	194				
H-1962S	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	252	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	271				
H-2116W	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	438	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	406				
H-1773B	4/6/2023	700	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	386	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	382				
H-1965AR	4/6/2023	7,000	Reconnected H-1758S on 4/13/23 and applied vacuum. Added new soil and compacted around well casing.	4/14/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	138				
CV-2201	4/6/2023	543	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	266	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	44				
H-1963A	4/6/2023	951	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	342	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	203				
H-1966S	4/6/2023	10,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	141				
CV-2006	4/6/2023	800	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	348	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	121				
189/Y61	4/26/2023	570	Moisture Condition, Soil/Dirt Compaction	5/5/2023	346	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	39				
180/Y62	4/26/2023	1,300	Moisture Condition, Soil/Dirt Compaction	5/5/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	215				
181/Y63	4/26/2023	2,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	414	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	483				
150/Y64	4/26/2023	3,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	108	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	411				
150/Y65	4/26/2023	7,891	Moisture Condition, Soil/Dirt Compaction	5/5/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	489				
156/Y66	4/26/2023	813	Moisture Condition, Soil/Dirt Compaction	5/5/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	92				
145/Y67	4/26/2023	1,047	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	52				
145/Y68	4/26/2023	685	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	23				
173/Y1	4/26/2023	1,582	Moisture Condition, Soil/Dirt Compaction	5/5/2023	284	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	291				
174/Y2	4/26/2023	9,999	Moisture Condition, Soil/Dirt Compaction	5/5/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	493				
176/Y21	4/26/2023	930	Moisture Condition, Soil/Dirt Compaction	5/5/2023	403	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	57				
176/Y22	4/26/2023	600	Moisture Condition, Soil/Dirt Compaction	5/5/2023	221	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	74				
176/Y23	4/26/2023	734	Moisture Condition, Soil/Dirt Compaction	5/5/2023	143	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	70				
176/Y24	4/26/2023	860	Moisture Condition, Soil/Dirt Compaction	5/5/2023	98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	111				
175/Y25	4/26/2023	710	Moisture Condition, Soil/Dirt Compaction	5/5/2023	105	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	134				
175/Y26	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	316	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	87				
175/Y27	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	106				
156/Y41	4/26/2023	1,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	76	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	88				
179/Y42	4/26/2023	900	Moisture Condition, Soil/Dirt Compaction	5/5/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	73				
184/Y43	4/26/2023	1,200	Moisture Condition, Soil/Dirt Compaction	5/5/2023	262	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	159				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
184/Y44	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	136	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	132				
184/Y45	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	156				
187/Y46	4/26/2023	2,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	288	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	406				
84/Y47	4/26/2023	3,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	412	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	371				
84/Y48	4/26/2023	2,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	394	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	353				
84/Y49	4/26/2023	3,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	473	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	216				
159/Y1	5/30/2023	500	Moisture Condition, Soil/Dirt Compaction	6/9/2023	63.11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	51				
161/Y2	5/30/2023	30,000	Moisture Condition, Soil/Dirt Compaction	6/9/2023	248	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	485				
157/Y31	5/30/2023	538	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	173				
157/Y32	5/30/2023	576	Moisture Condition, Soil/Dirt Compaction	6/9/2023	26.04	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	165				
150/Y33	5/30/2023	655	Moisture Condition, Soil/Dirt Compaction	6/9/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	62				
145/Y34	5/30/2023	511	Moisture Condition, Soil/Dirt Compaction	6/9/2023	204	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	186				
155/Y21	5/30/2023	653	Moisture Condition, Soil/Dirt Compaction	6/9/2023	53.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	83				
90/Y22	5/30/2023	5,530	Moisture Condition, Soil/Dirt Compaction	6/9/2023	39.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	357				
159/Y11	5/30/2023	855	Moisture Condition, Soil/Dirt Compaction	6/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	323				
83/Y23	5/30/2023	821	Moisture Condition, Soil/Dirt Compaction	6/9/2023	139	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	57				
81/Y25	5/30/2023	771	Moisture Condition, Soil/Dirt Compaction	6/9/2023	369	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	340				
170/H-1564N	6/1/2023	8,000	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	175				
170/H-1964S	6/1/2023	618	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	3.45				
170/H-1405E	6/1/2023	699	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	14	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	376				
151/H-1773B	6/1/2023	719	Added soil and trackwalked	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	345				
151/H-1773B	6/1/2023	4,000	Added soil and trackwalked	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	148				
151/H-1773B	6/1/2023	27,000	Added soil and trackwalked	6/9/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	205				
151/H-1773B	6/1/2023	1,255	Added soil and trackwalked	6/9/2023	19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	183				
156/TC-2380C	6/1/2023	NA	Added soil and trackwalked	6/9/2023	7.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	25				
176/Y1	6/29/2023	700	Moisture Condition, Soil/Dirt Compaction	7/7/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	220				
176/Y2	6/29/2023	800	Moisture Condition, Soil/Dirt Compaction	7/7/2023	67.40	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	165				
172/Y3	6/29/2023	660	Moisture Condition, Soil/Dirt Compaction	7/7/2023	12.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	89				
187/Y46	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	59.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	26				
150/Y5	6/29/2023	525	Moisture Condition, Soil/Dirt Compaction	7/7/2023	25.83	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	152				
149/Y6	6/29/2023	1,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	262				
149/Y7	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	325				
149/Y8	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,552	Additional Soil/Dirt Compaction	7/14/2023	189	Moisture Condition, Soil/Dirt Compaction	7/28/2023	189				
53/Y9	6/29/2023	1,300	Moisture Condition, Soil/Dirt Compaction	7/7/2023	96.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	231				
81/Y10	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,250	Additional Soil/Dirt Compaction. Adjust Well H-2167B	7/14/2023	195	Moisture Condition, Soil/Dirt Compaction	7/28/2023	195				
172/Y11	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
157/Y12	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
152/Y13	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	7.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	56				
148/Y14	6/29/2023	1,900	Moisture Condition, Soil/Dirt Compaction	7/7/2023	223	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	15				
149/Y15	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	37				
150/Y16	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	39.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	80				
33/Y17	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	61.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
35/Y18	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	48.62	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	168				
176/Y21	6/29/2023	1,200	Moisture Condition, Soil/Dirt Compaction	7/7/2023	Unable to Monitor (repair work being completed)	Additional Soil/Dirt Compaction	7/14/2023	164	Moisture Condition, Soil/Dirt Compaction	7/28/2023	164				
176/Y22	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	43.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
181/Y23	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	31.95	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	66				
182/Y24	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	44.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	43				
181/Y25	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
201/Y26	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	38.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	23				
201/Y27	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
175/Y28	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	93.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	53				
172/Y29	6/29/2023	2,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	118				
183/Y31	6/29/2023	1,570	Moisture Condition, Soil/Dirt Compaction	7/7/2023	28.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	25				
183/Y32	6/29/2023	2,059	Moisture Condition, Soil/Dirt Compaction	7/7/2023	51.73	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	42				
183/Y33	6/29/2023	710	Moisture Condition, Soil/Dirt Compaction	7/7/2023	78.18	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	45				
180/Y34	6/29/2023	1,026	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	32				
180/Y35	6/29/2023	943	Moisture Condition, Soil/Dirt Compaction	7/7/2023	27.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	64				
175/Y36	6/29/2023	1,284	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	109				
174/Y37	6/29/2023	3,012	Moisture Condition, Soil/Dirt Compaction	7/7/2023	95.78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
174/Y38	6/29/2023	4,604	Moisture Condition, Soil/Dirt Compaction	7/7/2023	237	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
90/Y39	6/29/2023	1,148	Moisture Condition, Soil/Dirt Compaction	7/7/2023	3,961	Additional Soil/Dirt Compaction	7/14/2023	147	Moisture Condition, Soil/Dirt Compaction	7/28/2023	147				
150/Y11	7/31/2023	800	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
150/Y12	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	142	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
149/Y13	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	58				
81/Y14	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	306	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
81/Y15	7/31/2023	9,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	211	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	60				
59/Y16	7/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
32/Y17	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	289	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
32/Y18	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	15				
53/Y31	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	410	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	19				
81/Y32	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	341	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	38				
53/Y33	7/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	58	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
81/Y34	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	9				
59/Y35	7/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	8/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	7				
32/Y36	7/31/2023	550	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	31				
152/Y21	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	294	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	29				
152/Y22	7/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	8/9/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	111				
149/Y23	7/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	214	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	50				
149/Y24	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	310	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
149/Y25	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	137	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
83/Y26	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	123				
169/Y1	7/31/2023	2,021	Moisture Condition, Soil/Dirt Compaction	8/9/2023	240	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	73				
170/Y2	7/31/2023	506	Moisture Condition, Soil/Dirt Compaction	8/9/2023	91	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	33				
170/Y3	7/31/2023	526	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
170/Y3	7/31/2023	622	Moisture Condition, Soil/Dirt Compaction	8/9/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
166/Y4	7/31/2023	543	Moisture Condition, Soil/Dirt Compaction	8/9/2023	78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	22				
166/Y5	7/31/2023	528	Moisture Condition, Soil/Dirt Compaction	8/9/2023	81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	52				
166/Y6	7/31/2023	508	Moisture Condition, Soil/Dirt Compaction	8/9/2023	29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
166/Y7	7/31/2023	9,003	Moisture Condition, Soil/Dirt Compaction	8/9/2023	434	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	12				
159/Y9	7/31/2023	5,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	276	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
154/Y10	7/31/2023	9,453	Moisture Condition, Soil/Dirt Compaction	8/9/2023	304	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
153/Y41	7/31/2023	1,353	Moisture Condition, Soil/Dirt Compaction	8/9/2023	125	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	103				
150/Y1	8/31/2023	560	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	3.5				
150/Y2	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	21.5				
177/Y3	8/31/2023	700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	147	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	17.5				
176/Y44	8/31/2023	525	Moisture Condition, Soil/Dirt Compaction	9/8/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	70.3				
189/Y5	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	166	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	85.2				
205/Y6	8/31/2023	780	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	34.5				
205/Y7	8/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	466	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	27.1				
206/Y11	8/31/2023	600	Moisture Condition, Soil/Dirt Compaction	9/8/2023	429	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	89.7				
206/Y12	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	160	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	107.0				
82/Y21	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	241	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	244.0				
81/Y22	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	408	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	361.0				
149/Y23	8/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/8/2023	282	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	372.0				
149/Y24	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	102	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	157.0				
149/Y25	8/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	447	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	237.0				
154/Y26	8/31/2023	5,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	498	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	51.3				
155/Y27	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	71.5				
154/Y28	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	375.0				
154/Y29	8/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	118.0				
159/Y30	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	387	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	220.0				
83/Y31	8/31/2023	845	Moisture Condition, Soil/Dirt Compaction	9/8/2023	488	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	435.0				
84/Y32	8/31/2023	960	Moisture Condition, Soil/Dirt Compaction	9/8/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	353.0				
90/Y33	8/31/2023	2,280	Moisture Condition, Soil/Dirt Compaction	9/8/2023	420	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
90/Y34	8/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/8/2023	497	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
161/Y35	8/31/2023	945	Moisture Condition, Soil/Dirt Compaction	9/8/2023	250	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	111.0				
161/Y36	8/31/2023	860	Moisture Condition, Soil/Dirt Compaction	9/8/2023	377	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	95.7				
163/Y37	8/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	13.8				
166/Y38	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	6.4				
166/Y39	8/31/2023	8,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	437	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	4.3				
166/Y40	8/31/2023	5,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	489	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	246.0				
201/Y81	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	103.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	259.0				
202/Y82	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	16.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	102.0				
201/Y83	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	29.13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	58.0				
205/Y84	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	50.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,134.0				
206/Y85	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	38.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	473.0				
173/Y61	9/13/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/22/2023	23.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	388.0				
170/Y62	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	45.0				
158/Y63	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	5.19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	131.0				
149/Y64	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	58.60	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	483.0				
149/Y65	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	234.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	270.0				
149/Y66	9/13/2023	1,600	Moisture Condition, Soil/Dirt Compaction	9/22/2023	109.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	248.0				
156/Y41	9/13/2023	720	Moisture Condition, Soil/Dirt Compaction	9/22/2023	15.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	94.0				
172/Y42	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,397.0				
175/Y43	9/13/2023	510	Moisture Condition, Soil/Dirt Compaction	9/22/2023	335.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	69.0				
175/Y44	9/13/2023	628	Moisture Condition, Soil/Dirt Compaction	9/22/2023	53.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	80.0				
181/Y45	9/13/2023	520	Moisture Condition, Soil/Dirt Compaction	9/22/2023	75.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	126.0				
181/Y46	9/13/2023	640	Moisture Condition, Soil/Dirt Compaction	9/22/2023	151.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	138.0				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
181/Y47	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	255.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	413.0				
181/Y48	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	33.41	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	353.0				
176/Y49	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	273.0				
176/Y50	9/13/2023	635	Moisture Condition, Soil/Dirt Compaction	9/22/2023	101.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	89.0				
178/Y51	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	217.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	73.0				
184/Y21	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	275.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	728.0				
150/Y22	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	78.0				
150/Y23	9/13/2023	2,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	35.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	51.0				
145/Y24	9/13/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	4.17	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	194.0				
77/Y25	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	18.03	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	206.0				
78/Y26	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	144.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,053.0				
78/Y27	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	73.63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	431.0				
146/Y28	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	19.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	455.0				
191/Y1	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	31.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	239.0				
191/Y2	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	125.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	171.0				
192/Y3	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	243.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	38.0				
193/Y4	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	267.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	83.0				
193/Y5	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	147.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	176.0				
187/Y6	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	246.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	208.0				
153/Y67	9/13/2023	500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	154.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	156.0				
191/Y81	9/27/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	572.00		10/13/2023	22.91							
189/Y82	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	96.29	NA	NA	NA							
189/Y83	9/27/2023	2,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	844.00	NA	10/13/2023	22.5							
181/Y84	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	50.12	NA	NA	NA							
201/Y85	9/27/2023	1,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	239.00	NA	NA	NA							
201/Y86	9/27/2023	800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	74.16	NA	NA	NA							
203/Y87	9/27/2023	1,132	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	NA	10/13/2023	23.12							
205/Y88	9/27/2023	8,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,322.00	NA	10/13/2023	24.75							
206/Y89	9/27/2023	1,730	Moisture Condition, Soil/Dirt Compaction	10/6/2023	2,159.00	NA	10/13/2023	23.52							
185/Y61	9/27/2023	835	Moisture Condition, Soil/Dirt Compaction	10/6/2023	126.00	NA	NA	NA							
177/Y62	9/27/2023	521	Moisture Condition, Soil/Dirt Compaction	10/6/2023	67.31	NA	NA	NA							
177/Y63	9/27/2023	615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	104.00	NA	NA	NA							
171/Y64	9/27/2023	815	Moisture Condition, Soil/Dirt Compaction	10/6/2023	256.00	NA	NA	NA							
182/Y11	9/27/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,631.00	NA	10/13/2023	15.86							
203/Y12	9/27/2023	2,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,249.00	NA	10/13/2023	14.75							
159/Y01	9/27/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/6/2023	98.50	NA	NA	NA							
154/Y02	9/27/2023	1,128	Moisture Condition, Soil/Dirt Compaction	10/6/2023	75.06	NA	NA	NA							
152/Y03	9/27/2023	5,599	Moisture Condition, Soil/Dirt Compaction	10/6/2023	283.00	NA	NA	NA							
152/Y04	9/27/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/6/2023	20.23	NA	NA	NA							
170/Y41	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	966.00	NA	10/13/2023	15.42							
176/Y42	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	714.00	NA	10/13/2023	15.98							
183/Y43	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,008.00	NA	10/13/2023	18.18							
183/Y44	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	847.00	NA	10/13/2023	24.32							
173/Y45	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	NA	10/13/2023	23.5							
168/Y46	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,352.00	NA	10/13/2023	21.45							
166/Y71	9/27/2023	1,953	Moisture Condition, Soil/Dirt Compaction	10/6/2023	382.00	NA	NA	NA							
165/Y72	9/27/2023	2,615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	460.00	NA	NA	NA							
154/Y73	9/27/2023	1,205	Moisture Condition, Soil/Dirt Compaction	10/6/2023	324.00	NA	NA	NA							
149/Y74	9/27/2023	8,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,100.00	NA	10/13/2023	24.31							
149/Y75	9/27/2023	7,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	759.00	NA	10/13/2023	23.54							

Attachment D

Wellhead Temperature Data

Attachment D - Well Temperature Data
September 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWA001	A-01	9/1/2023 11:26:22 AM	90.5	90.6
CHIWA002	A-02	9/1/2023 11:34:18 AM	101.9	102.1
CHIWA002	A-02	9/11/2023 2:23:26 PM	103.6	103.7
CHIWA003	A-03	9/1/2023 11:41:16 AM	105.5	105.5
CHIWA004	A-04	9/1/2023 11:49:11 AM	96.8	96.8
CHIWA005	A-05	9/28/2023 7:44:07 AM	87.9	88.0
CHIWB001	B-01	9/28/2023 1:57:32 PM	94.9	94.5
CHIWB001	B-01	9/28/2023 2:00:00 PM	93.4	93.5
CHIWB02R	B-02R	9/6/2023 8:51:31 AM	73.0	73.0
CHIWB03R	B-03R	9/6/2023 8:57:16 AM	71.3	71.3
CHIWB005	B-05	9/6/2023 9:21:44 AM	81.6	81.6
CHIWB006	B-06	9/6/2023 9:15:56 AM	73.4	73.4
CHIWB07R	B-07R	9/6/2023 10:16:50 AM	92.2	92.2
CHIWB008	B-08	9/6/2023 9:12:46 AM	88.1	88.1
CHIWB009	B-09	9/6/2023 10:08:25 AM	85.5	87.8
CHIWB009	B-09	9/6/2023 10:11:33 AM	88.2	88.3
CHIWB010	B-10	9/6/2023 9:55:39 AM	82.3	83.4
CHIWB010	B-10	9/6/2023 10:02:23 AM	83.5	83.6
CHIWB011	B-11	9/6/2023 9:45:44 AM	92.1	93.7
CHIWB011	B-11	9/6/2023 9:48:50 AM	93.9	93.8
CHIWB012	B-12	9/6/2023 9:03:59 AM	83.5	83.6
CHIWB013	B-13	9/6/2023 10:24:12 AM	86.6	87.0
CHIWB013	B-13	9/20/2023 5:03:15 PM	84.7	84.8
CHIWB014	B-14	9/6/2023 9:34:20 AM	75.7	80.7
CHIWB014	B-14	9/6/2023 9:38:14 AM	82.1	82.3
CHIWC001	C-01	9/5/2023 8:54:21 AM	85.4	85.6
CHIWC003	C-03	9/11/2023 2:28:31 PM	112.2	112.5
CHIWC007	C-07	9/28/2023 2:58:46 PM	95.5	95.5
CHIWC008	C-08	9/1/2023 1:56:07 PM	109.9	110.3
CHIWC009	C-09	9/14/2023 5:55:31 PM	79.1	79.2
CHIWC010	C-10	9/11/2023 1:48:08 PM	107.3	107.4
CHIWC011	C-11	9/28/2023 5:39:25 PM	102.5	102.4
CHIWC012	C-12	9/11/2023 1:27:14 PM	107.7	111.0
CHIWC013	C-13	9/11/2023 1:06:31 PM	100.1	100.1
CHIWC013	C-13	9/11/2023 1:08:48 PM	100.1	100.1
CHIWC015	C-15	9/11/2023 1:18:48 PM	105.9	106.1
CHIWC016	C-16	9/11/2023 12:54:15 PM	100.7	100.8
CHIWC17A	C-17A	9/1/2023 11:54:35 AM	105.7	105.4
CHIWC17B	C-17B	9/1/2023 11:57:38 AM	109.5	109.4
CHIWC018	C-18	9/1/2023 11:31:59 AM	106.0	107.0
CHIWC019	C-19	9/1/2023 11:45:27 AM	103.6	103.7
CHIWC020	C-20	9/1/2023 11:41:42 AM	104.1	105.4
CHIWC023	C-23	9/15/2023 2:04:36 PM	113.2	113.2
CHIWC024	C-24	9/1/2023 11:49:26 AM	112.4	113.4
CHIWC025	C-25	9/6/2023 11:48:07 AM	116.9	116.9

CHIWC026	C-26	9/11/2023 12:58:50 PM	109.9	110.9
CHIWC028	C-28	9/11/2023 1:33:34 PM	111.6	111.7
CHIWC029	C-29	9/11/2023 1:45:03 PM	119.4	119.4
CHIWC030	C-30	9/28/2023 8:24:57 AM	69.3	69.9
CHIWCV02	CV-02	9/6/2023 10:25:09 AM	116.1	116.1
CHIWCV03	CV-03	9/28/2023 8:01:45 AM	120.9	120.8
CHIWCV04	CV-04	9/28/2023 8:06:49 AM	113.7	113.5
CHIWCV05	CV-05	9/1/2023 2:05:30 PM	104.9	104.9
CHIWCV06	CV-06	9/25/2023 2:53:40 PM	94.0	93.9
CHIWCV07	CV-07	9/25/2023 2:58:45 PM	91.3	91.4
CHIWCV07	CV-07	9/25/2023 3:00:13 PM	90.7	90.5
CHIWCV08	CV-08	9/25/2023 3:06:21 PM	122.5	122.5
CHIWCV09	CV-09	9/28/2023 1:06:47 PM	123.2	123.2
CHWCV100	CV-100	9/23/2023 7:54:55 AM	115.0	115.0
CHWCV103	CV-103	9/23/2023 8:46:56 AM	101.0	101.0
CV108-52	CV-108-52	9/27/2023 11:01:08 AM	126.3	126.3
CHIWCV11	CV-11	9/25/2023 8:43:33 AM	82.8	80.6
CHWCV113	CV-113	9/6/2023 11:08:39 AM	78.8	80.1
CHWCV113	CV-113	9/6/2023 11:12:44 AM	83.5	83.5
CHWCV114	CV-114	9/28/2023 4:48:28 PM	125.5	125.2
CHWCV114	CV-114	9/28/2023 5:49:18 PM	125.0	124.9
CHCV1418	CV-1418	9/28/2023 12:01:32 PM	111.0	111.0
CHCV1418	CV-1418	9/28/2023 12:04:32 PM	111.0	111.0
CHCV1420	CV-1420	9/7/2023 1:21:40 PM	113.8	113.9
CHCV1421	CV-1421	9/26/2023 10:04:39 AM	89.3	89.2
CHCV1422	CV-1422	9/26/2023 8:15:29 AM	94.4	94.4
CHCV1423	CV-1423	9/18/2023 10:48:46 AM	128.3	128.3
CHCV1424	CV-1424	9/14/2023 3:01:01 PM	116.7	116.4
CHCV1425	CV-1425	9/25/2023 11:17:02 AM	94.5	94.5
CHCV1426	CV-1426	9/26/2023 9:08:12 AM	100.4	100.4
CHCV1532	CV-1532	9/5/2023 11:36:05 AM	144.5	144.5
CHCV1532	CV-1532	9/5/2023 11:37:37 AM	144.5	144.5
CHCV1532	CV-1532	9/12/2023 2:45:33 PM	145.2	145.2
CHCV1532	CV-1532	9/15/2023 5:22:14 PM	143.4	143.4
CHCV1532	CV-1532	9/19/2023 2:19:57 PM	143.8	143.8
CHCV1534	CV-1534	9/27/2023 10:25:05 AM	108.9	108.3
CCV1534A	CV-1534A	9/29/2023 6:06:39 PM	191.3	191.3
CCV1534A	CV-1534A	9/29/2023 6:08:46 PM	192.0	191.8
CHCV1535	CV-1535	9/23/2023 4:47:50 PM	128.0	128.0
CCV1601D	CV-1601D	9/14/2023 1:15:11 PM	105.3	105.2
CCV1601S	CV-1601S	9/14/2023 1:04:06 PM	105.7	105.9
CHCV1603	CV-1603	9/28/2023 6:45:56 PM	112.0	111.4
CHCV1604	CV-1604	9/25/2023 9:39:43 AM	122.7	122.3
CHCV1605	CV-1605	9/25/2023 10:19:15 AM	91.7	91.7
CHCV1605	CV-1605	9/25/2023 10:27:40 AM	91.0	91.0
CHCV1606	CV-1606	9/25/2023 8:59:40 AM	111.0	111.0
CHCV1607	CV-1607	9/23/2023 4:28:38 PM	118.8	118.8

CCV1701D	CV-1701D	9/6/2023 4:07:33 PM	129.4	130.6
CCV1701S	CV-1701S	9/6/2023 4:02:08 PM	142.6	141.7
CCV1701S	CV-1701S	9/6/2023 4:04:14 PM	141.1	140.9
CHCV1703	CV-1703	9/13/2023 4:23:48 PM	129.4	126.8
CHCV1901	CV-1901	9/8/2023 5:08:40 PM	122.1	122.0
CCV1902D	CV-1902D	9/5/2023 10:34:43 AM	191.0	191.0
CCV1902D	CV-1902D	9/12/2023 10:32:21 AM	182.1	182.1
CCV1902D	CV-1902D	9/19/2023 11:56:42 AM	184.0	183.8
CCV1902D	CV-1902D	9/26/2023 12:05:42 PM	192.3	192.3
CCV1902S	CV-1902S	9/5/2023 10:39:06 AM	155.3	155.3
CCV1902S	CV-1902S	9/12/2023 10:40:22 AM	156.3	156.3
CCV1902S	CV-1902S	9/19/2023 11:43:58 AM	153.3	153.3
CCV1902S	CV-1902S	9/26/2023 12:13:30 PM	177.6	177.8
CHCV1903	CV-1903	9/6/2023 11:15:03 AM	118.3	117.9
CHCV1905	CV-1905	9/25/2023 10:21:12 AM	106.7	106.5
CHCV1906	CV-1906	9/16/2023 11:11:21 AM	70.3	70.4
CHCV1907	CV-1907	9/14/2023 1:30:08 PM	109.3	108.2
CHCV2001	CV-2001	9/27/2023 10:02:04 AM	97.5	97.5
CHCV2002	CV-2002	9/25/2023 2:09:00 PM	131.3	131.0
CHCV2002	CV-2002	9/25/2023 2:11:19 PM	129.4	129.3
CHCV2002	CV-2002	9/27/2023 10:07:31 AM	126.8	126.9
CHCV2003	CV-2003	9/5/2023 11:14:47 AM	170.7	170.7
CHCV2003	CV-2003	9/12/2023 2:27:06 PM	171.2	171.2
CHCV2003	CV-2003	9/19/2023 2:04:31 PM	175.0	175.0
CHCV2003	CV-2003	9/26/2023 3:56:24 PM	170.5	170.5
CHCV2003	CV-2003	9/27/2023 11:11:06 AM	170.3	170.3
CHCV2003	CV-2003	9/27/2023 11:14:45 AM	170.1	170.1
CHCV2004	CV-2004	9/5/2023 11:46:56 AM	193.5	193.5
CHCV2004	CV-2004	9/12/2023 4:33:43 PM	187.0	187.0
CHCV2004	CV-2004	9/19/2023 2:27:09 PM	187.9	188.1
CHCV2004	CV-2004	9/26/2023 2:56:09 PM	192.3	192.3
CHCV2006	CV-2006	9/23/2023 4:16:20 PM	139.5	139.5
CHCV2006	CV-2006	9/27/2023 4:36:34 PM	141.1	141.2
CHCV2007	CV-2007	9/18/2023 10:41:37 AM	121.8	121.7
CHCV2008	CV-2008	9/18/2023 11:03:45 AM	123.0	123.0
CHCV2009	CV-2009	9/11/2023 2:56:45 PM	126.4	126.4
CHCV2009	CV-2009	9/18/2023 11:23:37 AM	126.2	126.1
CCV2009A	CV-2009A	9/5/2023 2:00:14 PM	119.3	119.6
CCV2009A	CV-2009A	9/21/2023 3:01:20 PM	117.9	118.5
CCV2009A	CV-2009A	9/21/2023 3:06:26 PM	118.3	118.0
CCV2009A	CV-2009A	9/22/2023 2:08:46 PM	119.3	119.4
CHCV2010	CV-2010	9/6/2023 3:54:09 PM	130.9	125.2
CCV2010A	CV-2010A	9/6/2023 11:52:28 AM	128.7	128.6
CHCV2011	CV-2011	9/26/2023 4:31:37 PM	122.4	122.4
CCV2011A	CV-2011A	9/5/2023 3:12:20 PM	144.9	144.9
CCV2011A	CV-2011A	9/14/2023 12:46:19 PM	143.5	143.5
CHCV2012	CV-2012	9/13/2023 3:53:29 PM	134.1	133.4

CHCV2201	CV-2201	9/14/2023 10:05:02 AM	195.1	195.1
CHCV2201	CV-2201	9/19/2023 5:10:22 PM	193.0	193.0
CHCV2201	CV-2201	9/26/2023 5:41:36 PM	195.4	195.4
CHCV2202	CV-2202	9/7/2023 3:30:06 PM	191.0	191.0
CHCV2202	CV-2202	9/14/2023 11:07:59 AM	192.3	192.3
CHCV2202	CV-2202	9/19/2023 5:55:21 PM	191.3	191.3
CHCV2202	CV-2202	9/26/2023 7:21:36 PM	192.1	192.1
CHCV2203	CV-2203	9/7/2023 3:19:25 PM	158.5	158.7
CHCV2203	CV-2203	9/14/2023 10:23:46 AM	158.4	158.7
CHCV2203	CV-2203	9/19/2023 5:34:30 PM	158.7	158.7
CHCV2203	CV-2203	9/26/2023 6:15:20 PM	160.0	159.8
CHCV2204	CV-2204	9/5/2023 1:54:14 PM	173.2	173.2
CHCV2204	CV-2204	9/13/2023 8:05:42 AM	171.0	171.0
CHCV2204	CV-2204	9/19/2023 3:36:40 PM	174.8	174.6
CHCV2204	CV-2204	9/26/2023 5:00:13 PM	180.2	180.2
CHCV2205	CV-2205	9/23/2023 11:41:05 AM	120.1	120.3
CHCV2206	CV-2206	9/5/2023 2:03:51 PM	176.1	176.1
CHCV2206	CV-2206	9/8/2023 1:32:06 PM	176.9	176.9
CHCV2206	CV-2206	9/19/2023 4:31:26 PM	179.4	179.4
CHCV2206	CV-2206	9/26/2023 5:18:52 PM	181.9	181.9
CHCV2207	CV-2207	9/26/2023 8:21:01 AM	119.6	119.7
CCV2208A	CV-2208A	9/11/2023 10:33:38 AM	132.1	133.9
CCV2208A	CV-2208A	9/14/2023 2:05:46 PM	130.5	131.3
CCV2208A	CV-2208A	9/14/2023 2:08:13 PM	131.2	131.1
CCV2208A	CV-2208A	9/18/2023 10:28:34 AM	126.8	127.7
CCV2208A	CV-2208A	9/18/2023 10:31:52 AM	127.8	127.7
CCV2208A	CV-2208A	9/22/2023 3:01:33 PM	136.2	133.4
CCV2208A	CV-2208A	9/22/2023 3:05:14 PM	132.8	132.8
CHCV2301	CV-2301	9/5/2023 12:52:00 PM	135.7	135.6
CHCV2301	CV-2301	9/8/2023 1:55:16 PM	137.8	137.5
CHCV2301	CV-2301	9/18/2023 3:26:43 PM	141.6	143.1
CHCV2301	CV-2301	9/19/2023 1:28:24 PM	136.0	135.9
CHCV2301	CV-2301	9/25/2023 5:17:40 PM	137.1	137.2
CHCV2302	CV-2302	9/18/2023 4:17:15 PM	172.8	172.6
CHCV2302	CV-2302	9/19/2023 1:22:08 PM	151.7	151.7
CHCV2302	CV-2302	9/20/2023 8:17:05 AM	162.3	162.3
CHCV2302	CV-2302	9/25/2023 5:09:56 PM	153.4	153.4
CHCV2302	CV-2302	9/27/2023 8:44:31 AM	150.3	150.1
CHCV2303	CV-2303	9/5/2023 1:24:25 PM	110.1	109.2
CHCV2303	CV-2303	9/8/2023 5:22:08 PM	108.3	108.4
CHCV2303	CV-2303	9/25/2023 7:00:49 PM	86.9	92.3
CHCV2303	CV-2303	9/25/2023 7:03:37 PM	97.3	97.4
CHCV2304	CV-2304	9/5/2023 12:57:05 PM	140.4	140.9
CHCV2304	CV-2304	9/8/2023 1:47:42 PM	151.4	151.3
CHCV2304	CV-2304	9/14/2023 5:14:28 PM	162.3	162.2
CHCV2304	CV-2304	9/19/2023 5:46:54 PM	155.1	155.0
CHCV2304	CV-2304	9/27/2023 9:35:37 AM	162.3	162.3

CHCV2305	CV-2305	9/5/2023 1:36:14 PM	125.3	125.8
CHCV2305	CV-2305	9/15/2023 11:24:12 AM	124.5	124.5
CHCV2305	CV-2305	9/21/2023 3:48:08 PM	123.5	123.5
CHCV2306	CV-2306	9/12/2023 9:17:46 AM	132.3	168.6
CHCV2306	CV-2306	9/12/2023 9:21:38 AM	169.8	169.6
CHCV2306	CV-2306	9/12/2023 1:36:47 PM	144.8	144.7
CHCV2306	CV-2306	9/13/2023 7:05:40 PM	80.9	175.7
CHCV2306	CV-2306	9/13/2023 7:08:31 PM	176.1	176.1
CHCV2306	CV-2306	9/14/2023 11:54:45 AM	174.2	174.6
CHCV2306	CV-2306	9/14/2023 2:14:58 PM	175.7	175.7
CHCV2306	CV-2306	9/15/2023 3:38:37 PM	175.7	176.3
CHCV2306	CV-2306	9/19/2023 4:03:25 PM	176.7	176.9
CHCV2306	CV-2306	9/25/2023 4:25:19 PM	176.7	177.6
CHCV2306	CV-2306	9/26/2023 5:10:05 PM	178.4	178.8
CHCV2308	CV-2308	9/6/2023 4:50:09 PM	178.4	178.4
CHCV2308	CV-2308	9/13/2023 8:22:03 AM	178.6	178.8
CHCV2308	CV-2308	9/19/2023 4:50:23 PM	178.8	178.8
CHCV2308	CV-2308	9/26/2023 5:25:05 PM	185.6	185.6
CHCV2310	CV-2310	9/5/2023 1:14:51 PM	152.7	154.7
CHCV2310	CV-2310	9/8/2023 1:42:24 PM	156.7	156.6
CHCV2310	CV-2310	9/19/2023 5:23:13 PM	163.2	163.2
CHCV2310	CV-2310	9/25/2023 6:53:18 PM	165.7	165.9
CHCV2310	CV-2310	9/26/2023 5:54:27 PM	168.8	168.6
CHCV2311	CV-2311	9/5/2023 1:39:50 PM	112.5	112.4
CHCV2311	CV-2311	9/8/2023 5:36:10 PM	115.6	115.8
CHCV2311	CV-2311	9/12/2023 9:02:09 AM	115.8	115.6
CHCV2311	CV-2311	9/25/2023 7:23:18 PM	124.5	126.8
CHCV2311	CV-2311	9/25/2023 7:29:43 PM	126.8	126.8
CHCV2312	CV-2312	9/5/2023 2:11:23 PM	144.9	145.5
CHCV2312	CV-2312	9/5/2023 2:16:00 PM	145.7	145.7
CHCV2312	CV-2312	9/8/2023 2:51:58 PM	145.8	145.8
CHCV2312	CV-2312	9/8/2023 3:00:15 PM	145.4	144.9
CHCV2312	CV-2312	9/12/2023 3:07:33 PM	144.0	143.9
CHCV2312	CV-2312	9/19/2023 2:01:19 PM	144.3	144.8
CHCV2312	CV-2312	9/19/2023 2:03:49 PM	144.9	144.9
CHCV2312	CV-2312	9/19/2023 6:17:06 PM	144.5	144.5
CHCV2312	CV-2312	9/20/2023 3:42:50 PM	142.7	142.6
CHCV2312	CV-2312	9/21/2023 4:15:55 PM	144.4	144.4
CHCV2312	CV-2312	9/21/2023 4:18:01 PM	144.4	144.4
CHCV2312	CV-2312	9/22/2023 2:30:41 PM	143.0	143.0
CHCV2314	CV-2314	9/5/2023 1:50:32 PM	125.8	125.8
CHCV2314	CV-2314	9/8/2023 3:16:00 PM	124.9	124.9
CHCV2314	CV-2314	9/21/2023 4:04:55 PM	121.0	121.0
CHCV2314	CV-2314	9/26/2023 3:38:58 PM	120.5	121.0
CHCV2315	CV-2315	9/8/2023 2:24:09 PM	103.9	103.9
CHCV2315	CV-2315	9/8/2023 2:31:54 PM	103.9	104.4
CHCV2315	CV-2315	9/12/2023 1:49:15 PM	110.6	111.7

CHCV2315	CV-2315	9/14/2023 2:43:57 PM	118.1	118.1
CHCV2315	CV-2315	9/14/2023 2:46:45 PM	118.3	118.3
CHCV2315	CV-2315	9/19/2023 2:10:20 PM	116.4	116.0
CHCV2315	CV-2315	9/19/2023 2:13:28 PM	116.0	116.0
CHCV2315	CV-2315	9/25/2023 4:32:41 PM	108.3	108.7
CHCV2316	CV-2316	9/5/2023 1:15:39 PM	139.1	139.2
CHCV2316	CV-2316	9/21/2023 2:45:29 PM	137.6	136.8
CHCV2319	CV-2319	9/5/2023 1:27:34 PM	132.3	133.2
CHCV2319	CV-2319	9/21/2023 3:23:49 PM	132.4	132.3
CHCV2319	CV-2319	9/22/2023 2:15:23 PM	132.8	132.8
CHCV2319	CV-2319	9/22/2023 2:18:11 PM	132.7	132.7
CHCV2319	CV-2319	9/26/2023 9:43:59 AM	135.1	135.3
CHCV2319	CV-2319	9/26/2023 9:47:28 AM	135.3	135.3
CHCV2321	CV-2321	9/26/2023 8:50:57 AM	119.3	119.3
CHCV2322	CV-2322	9/12/2023 1:58:53 PM	141.5	137.2
CHCV2322	CV-2322	9/14/2023 3:02:02 PM	161.1	164.0
CHCV2322	CV-2322	9/19/2023 2:22:58 PM	163.4	162.5
CHCV2322	CV-2322	9/25/2023 4:40:06 PM	160.8	159.7
CHCV2322	CV-2322	9/27/2023 9:16:09 AM	166.0	166.5
CHCV2324	CV-2324	9/23/2023 11:24:43 AM	115.1	115.2
CHCV2326	CV-2326	9/5/2023 1:32:48 PM	111.1	107.8
CHCV2326	CV-2326	9/8/2023 5:28:14 PM	106.7	107.4
CHCV2326	CV-2326	9/12/2023 8:48:49 AM	108.0	108.0
CHCV2326	CV-2326	9/22/2023 4:49:31 PM	87.4	101.4
CHCV2326	CV-2326	9/22/2023 4:56:02 PM	109.5	107.4
CHCV2326	CV-2326	9/25/2023 7:13:03 PM	103.7	103.8
CHCV2327	CV-2327	9/14/2023 4:32:07 PM	149.8	149.6
CHCV2327	CV-2327	9/14/2023 4:34:00 PM	149.6	149.8
CHCV2327	CV-2327	9/15/2023 3:45:42 PM	156.6	156.5
CHCV2327	CV-2327	9/15/2023 3:47:40 PM	156.5	156.6
CHCV2327	CV-2327	9/15/2023 3:53:35 PM	127.8	127.7
CHCV2327	CV-2327	9/18/2023 3:15:33 PM	174.6	175.3
CHCV2327	CV-2327	9/18/2023 5:09:18 PM	158.4	158.5
CHCV2327	CV-2327	9/19/2023 2:29:41 PM	158.5	158.5
CHCV2327	CV-2327	9/19/2023 2:32:31 PM	158.4	158.4
CHCV2327	CV-2327	9/25/2023 4:53:22 PM	155.8	156.2
CHCV2327	CV-2327	9/27/2023 8:59:33 AM	156.5	156.3
CHCV2328	CV-2328	9/14/2023 4:40:46 PM	125.2	125.3
CHCV2328	CV-2328	9/18/2023 4:59:05 PM	127.8	127.6
CHCV2328	CV-2328	9/19/2023 2:38:31 PM	125.3	125.3
CHCV2328	CV-2328	9/20/2023 3:56:08 PM	121.5	120.9
CHCV2328	CV-2328	9/21/2023 2:51:22 PM	120.0	120.0
CHCV2328	CV-2328	9/21/2023 2:59:51 PM	120.0	119.7
CHCV2328	CV-2328	9/22/2023 3:33:58 PM	130.2	128.3
CHCV2328	CV-2328	9/23/2023 10:39:58 AM	132.4	130.0
CHCV2328	CV-2328	9/23/2023 10:41:54 AM	129.7	129.8
CHCV2328	CV-2328	9/25/2023 4:59:52 PM	119.8	120.7

CHCV2328	CV-2328	9/27/2023 2:13:06 PM	123.9	123.7
CHCV2328	CV-2328	9/27/2023 2:21:31 PM	123.4	123.4
CHCV2333	CV-2333	9/14/2023 2:32:02 PM	130.0	130.0
CHCV2333	CV-2333	9/14/2023 2:36:00 PM	129.8	129.9
CHCV2333	CV-2333	9/14/2023 5:31:26 PM	129.4	129.4
CHCV2333	CV-2333	9/15/2023 3:03:13 PM	130.8	130.6
CHCV2333	CV-2333	9/18/2023 2:43:19 PM	131.1	131.1
CHCV2333	CV-2333	9/20/2023 4:14:59 PM	130.5	130.5
CHCV2333	CV-2333	9/25/2023 4:13:11 PM	133.7	133.7
CHCV2333	CV-2333	9/25/2023 4:17:44 PM	133.8	133.7
CHCV2334	CV-2334	9/14/2023 2:22:11 PM	116.7	116.2
CHCV2334	CV-2334	9/14/2023 2:29:15 PM	115.4	115.5
CHCV2334	CV-2334	9/14/2023 5:25:40 PM	116.1	116.1
CHCV2334	CV-2334	9/15/2023 2:56:24 PM	121.7	121.7
CHCV2334	CV-2334	9/18/2023 2:34:55 PM	126.1	126.0
CHCV2334	CV-2334	9/20/2023 4:07:56 PM	127.9	127.9
CHCV2334	CV-2334	9/25/2023 4:01:18 PM	130.3	129.8
CHCV2335	CV-2335	9/21/2023 12:59:37 PM	82.6	85.5
CHCV2335	CV-2335	9/21/2023 2:20:52 PM	79.6	79.6
CHCV2335	CV-2335	9/21/2023 2:24:19 PM	79.6	79.6
CHCV2335	CV-2335	9/22/2023 4:45:58 PM	83.7	83.9
CHCV2335	CV-2335	9/23/2023 5:49:52 PM	91.7	91.3
CHCV2335	CV-2335	9/25/2023 6:12:44 PM	98.7	99.0
CHCV2335	CV-2335	9/27/2023 10:25:54 AM	109.7	109.6
CHCV2335	CV-2335	9/29/2023 5:40:30 PM	91.6	91.6
CHCV2336	CV-2336	9/21/2023 1:21:46 PM	108.4	104.5
CHCV2336	CV-2336	9/21/2023 2:35:37 PM	89.3	90.1
CHCV2336	CV-2336	9/22/2023 4:37:00 PM	92.7	92.8
CHCV2336	CV-2336	9/23/2023 5:56:12 PM	100.4	100.4
CHCV2336	CV-2336	9/25/2023 6:07:50 PM	103.4	103.4
CHCV2336	CV-2336	9/27/2023 10:37:02 AM	99.0	99.8
CHCV2336	CV-2336	9/27/2023 10:43:38 AM	113.5	113.6
CHCV2336	CV-2336	9/27/2023 4:24:59 PM	116.1	116.1
CHCV2336	CV-2336	9/28/2023 9:37:59 AM	115.5	115.6
CHCV2336	CV-2336	9/28/2023 1:51:21 PM	116.9	119.8
CHCV2336	CV-2336	9/28/2023 6:01:03 PM	117.3	117.3
CHCV2336	CV-2336	9/29/2023 5:47:41 PM	115.8	115.8
CHCV2337	CV-2337	9/23/2023 4:22:45 PM	111.6	110.7
CHCV2337	CV-2337	9/23/2023 6:09:41 PM	110.1	109.9
CHCV2337	CV-2337	9/25/2023 6:02:13 PM	121.3	121.1
CHCV2337	CV-2337	9/27/2023 10:53:21 AM	129.1	129.1
CHCV2337	CV-2337	9/29/2023 6:19:30 PM	136.8	136.7
CHCV2337	CV-2337	9/29/2023 6:22:55 PM	136.7	136.8
CHCV2339	CV-2339	9/20/2023 3:18:24 PM	196.7	196.7
CHCV2339	CV-2339	9/20/2023 3:20:09 PM	196.4	195.9
CHCV2339	CV-2339	9/26/2023 1:59:31 PM	200.7	201.0
CHCV2340	CV-2340	9/18/2023 4:07:58 PM	85.4	85.4

CHCV2340	CV-2340	9/22/2023 4:12:40 PM	98.7	99.3
CHCV2340	CV-2340	9/22/2023 4:15:41 PM	96.4	97.2
CHCV2340	CV-2340	9/22/2023 4:21:04 PM	96.9	97.5
CHCV2341	CV-2341	9/18/2023 3:43:23 PM	143.9	144.5
CHCV2341	CV-2341	9/18/2023 3:47:36 PM	145.0	145.2
CHCV2341	CV-2341	9/19/2023 1:46:43 PM	140.6	140.6
CHCV2341	CV-2341	9/21/2023 3:28:55 PM	134.3	134.2
CHCV2341	CV-2341	9/22/2023 3:57:25 PM	125.7	126.2
CHCV2341	CV-2341	9/25/2023 5:33:19 PM	136.3	134.7
CHCV2341	CV-2341	9/25/2023 5:42:55 PM	131.9	131.9
CHCV2341	CV-2341	9/27/2023 10:00:39 AM	132.0	131.8
CHCV2346	CV-2346	9/27/2023 6:17:22 PM	121.4	121.5
CHCV2346	CV-2346	9/29/2023 5:36:02 PM	123.0	122.4
CHCV2348	CV-2348	9/20/2023 3:32:28 PM	109.7	108.9
CHCV2348	CV-2348	9/21/2023 3:09:16 PM	116.6	118.9
CHCV2348	CV-2348	9/21/2023 3:14:36 PM	119.1	121.4
CHCV2348	CV-2348	9/22/2023 3:41:29 PM	120.1	120.1
CHCV2348	CV-2348	9/25/2023 5:25:28 PM	121.4	121.5
CHCV2351	CV-2351	9/25/2023 6:33:51 PM	83.1	80.9
CHCV2351	CV-2351	9/25/2023 6:35:49 PM	82.4	82.4
CHCV2351	CV-2351	9/27/2023 4:39:27 PM	123.7	124.3
CHCV2353	CV-2353	9/27/2023 5:57:12 PM	157.0	157.4
CHCV2353	CV-2353	9/27/2023 5:59:37 PM	156.9	157.2
CHIWCV25	CV-25	9/28/2023 5:08:57 PM	107.4	107.4
CHICV30S	CV-30S	9/26/2023 2:12:41 PM	124.6	124.6
CHICV31S	CV-31S	9/26/2023 2:21:23 PM	132.7	132.7
CHICV33S	CV-33S	9/6/2023 10:58:42 AM	123.8	123.7
CHICV34D	CV-34D	9/21/2023 11:39:01 AM	76.3	79.4
CHICV34D	CV-34D	9/21/2023 11:40:32 AM	81.2	81.3
CHICV34S	CV-34S	9/21/2023 11:45:26 AM	83.3	83.3
CHICV35D	CV-35D	9/25/2023 8:28:50 AM	72.6	72.8
CHWCV48R	CV-48R	9/6/2023 11:25:15 AM	127.9	127.8
CHWCV49S	CV-49S	9/28/2023 5:33:54 PM	77.7	78.0
CHWCV52D	CV-52D	9/6/2023 11:15:05 AM	136.0	136.6
CHWCV52D	CV-52D	9/8/2023 1:20:28 PM	138.3	138.3
CHWCV53D	CV-53D	9/5/2023 11:52:14 AM	124.4	122.4
CHWCV53S	CV-53S	9/5/2023 11:39:54 AM	136.0	136.1
CHWCV54D	CV-54D	9/5/2023 11:29:39 AM	91.5	91.7
CHWCV54S	CV-54S	9/5/2023 11:24:28 AM	138.1	138.3
CHWCV55R	CV-55R	9/5/2023 2:52:38 PM	145.9	145.8
CHWCV55R	CV-55R	9/14/2023 12:34:43 PM	146.2	146.2
CHWCV55R	CV-55R	9/20/2023 8:46:10 AM	144.9	144.3
CHWCV56D	CV-56D	9/28/2023 12:28:46 PM	125.8	125.4
CHWCV56S	CV-56S	9/28/2023 12:31:56 PM	125.1	125.1
CHWCV57R	CV-57R	9/26/2023 4:27:00 PM	106.9	107.3
CHWCV74R	CV-74R	9/23/2023 10:28:29 AM	109.2	109.3
CHWCV79R	CV-79R	9/26/2023 3:53:48 PM	129.7	129.8

Attachment D - Well Temperature Data
September 2023

CHWCV84S	CV-84S	9/25/2023 9:53:49 AM	81.5	82.7
CHWCV85S	CV-85S	9/25/2023 9:40:08 AM	103.9	103.9
CHIWCV94	CV-94	9/13/2023 5:44:26 PM	109.0	108.7
CHIWCV95	CV-95	9/26/2023 4:23:28 PM	111.7	112.0
CHIWCV99	CV-99	9/6/2023 10:59:17 AM	122.4	122.5
CHIWD001	D-01	9/25/2023 3:37:07 PM	95.8	95.6
CHIWD001	D-01	9/25/2023 3:39:14 PM	95.3	95.3
CHIWD002	D-02	9/25/2023 3:30:51 PM	102.2	102.2
CHIWD003	D-03	9/25/2023 3:26:43 PM	105.1	105.3
CHIWD004	D-04	9/25/2023 3:23:26 PM	104.5	104.5
CHIWD005	D-05	9/25/2023 3:16:14 PM	101.9	102.0
CHIWD006	D-06	9/27/2023 2:46:13 PM	103.7	103.7
CHIWD009	D-09	9/13/2023 3:02:52 PM	112.4	112.6
CHIWD010	D-10	9/13/2023 4:31:07 PM	108.4	108.5
CHIWH001	H-01 (EXP-01)	9/1/2023 11:19:41 AM	106.2	94.7
CHIWH002	H-02 (EXP-02)	9/1/2023 11:11:08 AM	121.3	108.5
CHIWH003	H-03 (EXP-03)	9/1/2023 11:06:41 AM	122.3	122.3
CHIWH004	H-04 (EXP-04)	9/21/2023 4:14:01 PM	132.7	130.8
CHIWH004	H-04 (EXP-04)	9/21/2023 4:16:19 PM	130.6	130.7
CHIWH004	H-04 (EXP-04)	9/21/2023 4:18:19 PM	130.7	131.5
CHIWH004	H-04 (EXP-04)	9/21/2023 4:20:07 PM	131.5	131.6
CHIWH006	H-06 (EXP-06)	9/1/2023 10:48:16 AM	106.5	95.8
CHIWH008	H-08 (EXP-08)	9/1/2023 10:42:26 AM	90.9	91.1
CHIWH009	H-09 (EXP-09)	9/1/2023 10:39:25 AM	119.9	119.5
CHIWH010	H-10 (EXP-10)	9/1/2023 10:11:16 AM	122.7	118.3
CHIH101W	H-101W	9/27/2023 8:37:44 AM	65.5	66.4
CHWH102A	H-102A	9/28/2023 9:15:43 AM	92.2	92.3
CHWH104A	H-104A	9/27/2023 9:25:41 AM	95.1	95.1
CHIWH012	H-12 (EXP-12)	9/28/2023 5:08:34 PM	93.4	93.4
CHIWH013	H-13 (EXP-13)	9/1/2023 10:02:49 AM	96.4	96.4
CHIWH014	H-14 (EXP-14)	9/28/2023 11:19:35 AM	NA	NA
CHH1401W	H-1401W	9/27/2023 8:19:30 AM	98.9	98.9
CHH1402C	H-1402C	9/18/2023 4:11:53 PM	119.9	119.9
CHH1403W	H-1403W	9/27/2023 9:01:24 AM	94.3	94.6
CHH1404C	H-1404C	9/23/2023 11:29:14 AM	113.6	113.5
CHH1405C	H-1405C	9/23/2023 3:42:11 PM	115.7	115.7
CHH1405E	H-1405E	9/23/2023 7:48:09 AM	113.7	113.6
CHH1405W	H-1405W	9/29/2023 3:21:56 PM	132.1	131.6
CHH1405W	H-1405W	9/29/2023 3:27:00 PM	130.4	130.4
CHH1406W	H-1406W	9/25/2023 11:37:55 AM	89.2	89.4
CHH1406W	H-1406W	9/25/2023 11:41:20 AM	90.4	90.5
CH1408CR	H-1408CR	9/29/2023 3:31:27 PM	105.2	105.2
CHH1408E	H-1408E	9/26/2023 1:07:50 PM	104.2	104.9
CHH1408E	H-1408E	9/26/2023 1:09:25 PM	105.3	105.3
CHH1408W	H-1408W	9/25/2023 9:46:49 AM	112.4	112.3
CHH1408W	H-1408W	9/26/2023 1:01:06 PM	97.2	96.3
CHH1409N	H-1409N	9/26/2023 12:52:43 PM	93.7	94.5

CHH1410S	H-1410S	9/25/2023 10:43:48 AM	107.8	107.8
CHH1551C	H-1551C	9/5/2023 4:11:17 PM	132.6	130.5
CHH1551C	H-1551C	9/5/2023 4:14:40 PM	129.9	129.8
CHH1552A	H-1552A	9/26/2023 6:22:57 PM	115.1	114.4
CHH1560N	H-1560N	9/29/2023 3:44:49 PM	135.0	135.0
CHH1560S	H-1560S	9/25/2023 11:49:35 AM	96.8	96.9
CHH1561C	H-1561C	9/5/2023 11:29:06 AM	163.4	163.5
CHH1561C	H-1561C	9/12/2023 2:37:45 PM	161.1	161.1
CHH1561C	H-1561C	9/19/2023 2:17:07 PM	164.3	164.3
CHH1561C	H-1561C	9/26/2023 3:44:04 PM	163.8	164.0
CHH1561N	H-1561N	9/5/2023 12:04:34 PM	116.5	117.1
CHH1562N	H-1562N	9/23/2023 4:34:49 PM	124.7	124.8
CHH1563N	H-1563N	9/23/2023 8:15:22 AM	73.4	93.2
CHH1563N	H-1563N	9/23/2023 8:19:00 AM	99.8	102.6
CHH1563S	H-1563S	9/23/2023 3:46:17 PM	118.3	118.3
CHH1564N	H-1564N	9/23/2023 7:43:54 AM	104.9	104.6
CHH1565C	H-1565C	9/23/2023 8:43:49 AM	111.5	111.5
CHH1565E	H-1565E	9/23/2023 10:57:37 AM	97.2	97.2
CHH1568N	H-1568N	9/23/2023 11:19:41 AM	89.4	89.3
CHH1568S	H-1568S	9/26/2023 12:42:13 PM	99.3	99.3
CHH1569S	H-1569S	9/23/2023 10:52:02 AM	86.8	86.8
CHH1571S	H-1571S	9/25/2023 9:52:44 AM	121.6	121.6
CHH1572N	H-1572N	9/23/2023 11:15:17 AM	123.3	123.3
CHH1572S	H-1572S	9/25/2023 9:29:18 AM	117.5	117.7
CHH1573S	H-1573S	9/21/2023 4:03:08 PM	128.9	129.0
CHH1574N	H-1574N	9/25/2023 2:17:24 PM	102.9	102.7
CHH1574N	H-1574N	9/25/2023 2:18:48 PM	104.0	103.9
CHIH1575	H-1575	9/27/2023 8:50:18 AM	79.2	79.3
CHH1751N	H-1751N	9/5/2023 10:21:41 AM	163.8	163.8
CHH1751N	H-1751N	9/12/2023 10:12:12 AM	168.8	169.1
CHH1751N	H-1751N	9/19/2023 10:57:53 AM	171.4	171.4
CHH1751N	H-1751N	9/26/2023 11:04:41 AM	167.1	167.1
CHH1751S	H-1751S	9/29/2023 4:48:06 PM	92.9	104.2
CHH1751S	H-1751S	9/29/2023 4:50:06 PM	105.4	105.5
CHH1752N	H-1752N	9/7/2023 2:09:55 PM	103.0	103.0
CHH1752S	H-1752S	9/23/2023 4:07:25 PM	112.0	112.1
CHH1753N	H-1753N	9/7/2023 2:03:28 PM	123.1	124.9
CHH1753S	H-1753S	9/23/2023 8:00:43 AM	114.3	113.7
CHH1753S	H-1753S	9/27/2023 1:42:55 PM	117.7	117.8
CHH1754N	H-1754N	9/7/2023 2:33:48 PM	122.8	122.9
CHH1754S	H-1754S	9/23/2023 8:39:37 AM	80.4	80.4
CHH1755N	H-1755N	9/27/2023 10:17:12 AM	90.8	92.3
CHH1755N	H-1755N	9/27/2023 10:21:05 AM	95.1	95.9
CHH1755S	H-1755S	9/25/2023 1:57:28 PM	101.4	101.3
CHH1756N	H-1756N	9/23/2023 4:41:39 PM	109.9	110.0
CHH1756S	H-1756S	9/29/2023 5:30:54 PM	116.3	116.3
CHH1757N	H-1757N	9/5/2023 10:52:39 AM	154.3	154.3

CHH1757N	H-1757N	9/12/2023 12:24:16 PM	156.5	156.5
CHH1757N	H-1757N	9/19/2023 12:08:13 PM	157.4	157.4
CHH1757N	H-1757N	9/26/2023 2:12:19 PM	155.4	155.4
CHH1757S	H-1757S	9/23/2023 3:39:23 PM	113.6	113.6
CH1758NR	H-1758NR	9/23/2023 8:08:28 AM	114.9	115.0
CHH1759N	H-1759N	9/20/2023 2:38:21 PM	75.0	75.0
CHH1759S	H-1759S	9/23/2023 11:41:18 AM	111.4	111.4
CHH1760N	H-1760N	9/23/2023 8:54:27 AM	83.5	84.0
CHH1760S	H-1760S	9/23/2023 11:25:21 AM	112.1	112.1
CHH1762N	H-1762N	9/26/2023 1:40:32 PM	97.1	97.8
CHH1762N	H-1762N	9/26/2023 1:43:49 PM	98.3	98.3
CHH1763N	H-1763N	9/25/2023 10:24:27 AM	118.2	118.2
CHH1763S	H-1763S	9/13/2023 4:28:00 PM	128.4	128.4
CHH1764N	H-1764N	9/23/2023 3:34:08 PM	102.2	102.3
CHH1764S	H-1764S	9/14/2023 11:12:03 AM	108.9	108.5
CHH1765N	H-1765N	9/20/2023 4:14:57 PM	81.8	81.9
CHH1766N	H-1766N	9/26/2023 6:26:33 PM	126.9	126.9
CHH1766S	H-1766S	9/25/2023 2:30:48 PM	99.5	99.6
CHH1766S	H-1766S	9/25/2023 2:31:55 PM	100.1	100.2
CHH1767N	H-1767N	9/25/2023 8:49:02 AM	118.7	118.7
CHH1767S	H-1767S	9/25/2023 9:12:19 AM	78.6	79.4
CHH1768N	H-1768N	9/8/2023 4:23:15 PM	105.2	104.5
CHH1768N	H-1768N	9/8/2023 4:25:47 PM	104.9	104.9
CHH1769A	H-1769A	9/23/2023 7:24:11 AM	129.4	129.6
CHH1769A	H-1769A	9/23/2023 3:27:24 PM	131.0	130.5
CHH1769A	H-1769A	9/23/2023 3:29:25 PM	130.4	130.4
CHH1769B	H-1769B	9/7/2023 2:27:51 PM	106.0	106.1
CHH1769N	H-1769N	9/6/2023 11:42:33 AM	120.4	120.6
CHH1769S	H-1769S	9/23/2023 11:47:08 AM	100.6	100.5
CHH1770A	H-1770A	9/6/2023 10:56:46 AM	124.2	123.6
CHH1770B	H-1770B	9/5/2023 10:17:36 AM	157.4	157.4
CHH1770B	H-1770B	9/12/2023 10:06:33 AM	160.1	160.1
CHH1770B	H-1770B	9/19/2023 10:53:10 AM	162.2	162.2
CHH1770B	H-1770B	9/26/2023 11:09:48 AM	162.6	162.6
CHH1770N	H-1770N	9/6/2023 11:28:42 AM	154.2	165.4
CHH1770N	H-1770N	9/6/2023 11:31:21 AM	166.0	165.3
CHH1770N	H-1770N	9/8/2023 4:54:54 PM	174.2	166.5
CHH1770N	H-1770N	9/8/2023 4:57:03 PM	165.5	165.4
CHH1770N	H-1770N	9/14/2023 12:16:21 PM	149.9	150.1
CHH1770N	H-1770N	9/19/2023 9:48:17 AM	152.4	152.4
CHH1770N	H-1770N	9/26/2023 9:49:18 AM	153.6	153.6
CHH1770S	H-1770S	9/23/2023 4:01:48 PM	119.8	119.6
CHH1771A	H-1771A	9/18/2023 10:58:03 AM	116.1	116.0
CHH1771B	H-1771B	9/6/2023 2:42:38 PM	112.3	112.3
CHH1771N	H-1771N	9/26/2023 10:23:14 AM	93.0	93.8
CHH1771S	H-1771S	9/26/2023 12:20:55 PM	106.4	106.4
CHH1771S	H-1771S	9/26/2023 12:24:41 PM	106.2	106.2

CHH1771S	H-1771S	9/26/2023 12:27:08 PM	106.0	106.0
CHH1772A	H-1772A	9/15/2023 3:08:00 PM	109.4	108.3
CHH1772A	H-1772A	9/27/2023 12:27:03 PM	119.0	119.6
CHH1772B	H-1772B	9/7/2023 1:37:18 PM	107.9	108.6
CHH1772B	H-1772B	9/7/2023 1:39:24 PM	108.6	108.7
CHH1772C	H-1772C	9/26/2023 10:17:14 AM	87.6	89.0
CHH1772N	H-1772N	9/25/2023 11:11:28 AM	90.5	90.5
CHH1772S	H-1772S	9/23/2023 11:37:34 AM	114.6	114.3
CHH1773A	H-1773A	9/5/2023 8:39:41 AM	173.0	173.0
CHH1773A	H-1773A	9/12/2023 8:49:54 AM	169.8	169.8
CHH1773A	H-1773A	9/19/2023 9:09:21 AM	172.3	172.3
CHH1773A	H-1773A	9/23/2023 5:16:50 PM	172.6	151.7
CHH1773A	H-1773A	9/23/2023 5:21:15 PM	141.8	170.0
CHH1773A	H-1773A	9/23/2023 5:22:39 PM	174.2	174.0
CHH1773A	H-1773A	9/26/2023 9:11:25 AM	179.6	179.2
CHH1773B	H-1773B	9/7/2023 1:13:34 PM	100.6	100.7
CHH1773C	H-1773C	9/23/2023 10:33:26 AM	110.3	110.4
CHH1773N	H-1773N	9/7/2023 2:55:58 PM	126.7	126.6
CHH1774A	H-1774A	9/5/2023 9:18:41 AM	158.7	160.2
CHH1774A	H-1774A	9/12/2023 9:25:43 AM	159.5	160.0
CHH1774A	H-1774A	9/19/2023 10:24:56 AM	159.0	158.7
CHH1774A	H-1774A	9/26/2023 10:05:04 AM	155.8	155.7
CHH1774A	H-1774A	9/27/2023 1:25:43 PM	157.2	157.3
CHH1774A	H-1774A	9/27/2023 1:28:35 PM	157.4	157.4
CHH1774B	H-1774B	9/5/2023 10:04:41 AM	180.9	180.9
CHH1774B	H-1774B	9/12/2023 9:51:44 AM	190.0	189.8
CHH1774B	H-1774B	9/19/2023 11:21:21 AM	191.0	191.3
CHH1774B	H-1774B	9/26/2023 10:45:42 AM	189.5	189.8
CHH1774N	H-1774N	9/23/2023 5:38:06 PM	111.3	111.3
CHH1774S	H-1774S	9/27/2023 10:48:24 AM	124.6	124.6
CHH1801S	H-1801S	9/26/2023 4:07:03 PM	125.7	125.7
CHH1802N	H-1802N	9/26/2023 8:46:36 AM	108.7	108.7
CHH1802S	H-1802S	9/26/2023 3:49:58 PM	130.8	130.9
CHH1803N	H-1803N	9/5/2023 9:07:37 AM	177.6	177.6
CHH1803N	H-1803N	9/12/2023 9:09:27 AM	173.9	173.9
CHH1803N	H-1803N	9/19/2023 9:34:48 AM	173.7	173.9
CHH1803N	H-1803N	9/26/2023 9:39:55 AM	176.9	176.7
CHH1804A	H-1804A	9/26/2023 9:51:52 AM	112.3	112.3
CHH1804B	H-1804B	9/25/2023 10:06:02 AM	97.3	97.4
CHH1804B	H-1804B	9/26/2023 10:30:28 AM	98.2	98.2
CHH1804N	H-1804N	9/18/2023 11:13:48 AM	118.3	118.4
CHH1804S	H-1804S	9/23/2023 3:43:38 PM	107.6	107.2
CHH1805A	H-1805A	9/14/2023 2:48:41 PM	121.7	121.7
CHH1805B	H-1805B	9/23/2023 11:06:40 AM	108.4	108.2
CHH1805S	H-1805S	9/26/2023 5:11:24 PM	131.3	130.8
CHH1805S	H-1805S	9/26/2023 5:13:17 PM	130.8	130.7
CHH1806A	H-1806A	9/26/2023 8:28:32 AM	116.0	116.1

CHH1806B	H-1806B	9/26/2023 3:45:44 PM	111.5	112.3
CHH1806N	H-1806N	9/11/2023 2:41:56 PM	124.4	124.4
CHH1806N	H-1806N	9/18/2023 11:34:28 AM	122.2	122.5
CHH1806N	H-1806N	9/18/2023 11:38:01 AM	122.6	122.5
CHH1806N	H-1806N	9/22/2023 3:24:17 PM	127.6	124.8
CHH1806S	H-1806S	9/13/2023 5:14:45 PM	114.1	114.1
CHH1807A	H-1807A	9/13/2023 3:32:12 PM	116.9	116.9
CHH1807N	H-1807N	9/18/2023 11:59:20 AM	96.8	101.3
CHH1807N	H-1807N	9/18/2023 12:01:01 PM	101.1	101.2
CHH1807S	H-1807S	9/13/2023 4:08:16 PM	97.3	92.2
CHH1951W	H-1951W	9/25/2023 10:06:10 AM	92.9	93.6
CHH1952C	H-1952C	9/7/2023 2:50:32 PM	119.6	117.8
CHH1952N	H-1952N	9/5/2023 10:00:10 AM	123.1	122.8
CHH1952S	H-1952S	9/23/2023 9:07:34 AM	115.6	115.7
CHH1953C	H-1953C	9/26/2023 10:10:47 AM	89.8	89.8
CHH1953N	H-1953N	9/26/2023 2:34:58 PM	115.6	115.6
CHH1953S	H-1953S	9/23/2023 7:12:37 AM	114.0	114.2
CHH1953S	H-1953S	9/26/2023 10:54:01 AM	91.0	101.0
CHH1953S	H-1953S	9/26/2023 10:56:38 AM	102.2	102.2
CHH1954C	H-1954C	9/26/2023 9:55:56 AM	82.2	81.7
CHH1954N	H-1954N	9/23/2023 7:08:28 AM	106.6	105.9
CHH1954S	H-1954S	9/25/2023 10:43:18 AM	83.9	84.6
CHH1955C	H-1955C	9/14/2023 3:10:10 PM	111.5	111.6
CHH1955N	H-1955N	9/18/2023 11:17:14 AM	95.6	95.4
CHH1955S	H-1955S	9/14/2023 2:30:45 PM	107.1	107.1
CHH1956B	H-1956B	9/14/2023 1:37:17 PM	103.9	103.2
CHH1956N	H-1956N	9/11/2023 2:46:40 PM	112.8	112.7
CHH1956N	H-1956N	9/18/2023 11:27:41 AM	108.0	108.0
CHH1956N	H-1956N	9/22/2023 3:11:28 PM	113.0	110.7
CHH1956S	H-1956S	9/26/2023 4:50:09 PM	105.0	104.9
CHH1957A	H-1957A	9/26/2023 8:36:41 AM	81.2	75.3
CHH1957B	H-1957B	9/26/2023 4:17:48 PM	106.7	106.7
CHH1957N	H-1957N	9/11/2023 2:38:44 PM	118.3	118.2
CHH1957N	H-1957N	9/18/2023 11:41:37 AM	116.6	116.6
CHH1957N	H-1957N	9/22/2023 3:18:13 PM	118.1	117.2
CHH1957S	H-1957S	9/26/2023 4:00:20 PM	133.6	133.1
CHH1957S	H-1957S	9/26/2023 4:04:22 PM	132.6	131.5
CHH1958C	H-1958C	9/13/2023 3:22:51 PM	123.6	123.2
CHH1958N	H-1958N	9/18/2023 12:06:00 PM	86.2	86.2
CHH1958S	H-1958S	9/28/2023 12:20:47 PM	120.1	120.1
CHH-1960	H-1960	9/26/2023 6:07:02 PM	177.8	177.6
CHH1962A	H-1962A	9/6/2023 11:05:32 AM	85.1	86.3
CHH1962A	H-1962A	9/6/2023 11:08:48 AM	87.4	87.4
CHH1962B	H-1962B	9/5/2023 10:13:34 AM	175.9	175.9
CHH1962B	H-1962B	9/12/2023 10:19:08 AM	158.9	158.9
CHH1962B	H-1962B	9/19/2023 11:08:12 AM	152.8	152.8
CHH1962B	H-1962B	9/26/2023 10:59:16 AM	173.0	173.0

CHH1962N	H-1962N	9/6/2023 11:21:43 AM	153.3	152.9
CHH1962N	H-1962N	9/19/2023 6:33:27 PM	133.4	133.4
CHH1962N	H-1962N	9/23/2023 5:31:49 PM	124.7	124.7
CHH1962S	H-1962S	9/5/2023 11:01:44 AM	173.0	172.8
CHH1962S	H-1962S	9/14/2023 7:11:40 PM	178.6	178.4
CHH1962S	H-1962S	9/19/2023 1:43:10 PM	178.2	179.4
CHH1962S	H-1962S	9/26/2023 2:25:05 PM	164.8	164.8
CHH1963A	H-1963A	9/23/2023 7:33:27 AM	120.2	120.4
CHH1963N	H-1963N	9/6/2023 11:36:11 AM	119.3	119.2
CHH1964C	H-1964C	9/7/2023 1:57:44 PM	95.1	95.3
CHH1964N	H-1964N	9/6/2023 11:48:32 AM	139.8	139.9
CHH1964N	H-1964N	9/6/2023 11:51:04 AM	139.9	139.9
CHH1964N	H-1964N	9/20/2023 4:23:25 PM	141.6	141.6
CHH1964S	H-1964S	9/27/2023 1:52:51 PM	96.6	97.3
CHH1965C	H-1965C	9/7/2023 1:48:53 PM	106.7	106.7
CHH1965C	H-1965C	9/7/2023 1:50:21 PM	105.5	105.4
CHH1965C	H-1965C	9/20/2023 4:31:19 PM	126.5	125.9
CHH1965S	H-1965S	9/23/2023 9:02:03 AM	76.7	77.2
CHH1966N	H-1966N	9/23/2023 5:41:44 PM	112.3	111.6
CHH1966S	H-1966S	9/23/2023 6:01:27 PM	112.3	112.2
CHH1967E	H-1967E	9/13/2023 5:19:13 PM	92.5	91.0
CHH1967W	H-1967W	9/25/2023 12:54:24 PM	102.5	102.5
CHH2051W	H-2051W	9/25/2023 12:58:20 PM	109.2	109.3
CHH2052W	H-2052W	9/11/2023 3:47:30 PM	106.0	106.0
CHH2052W	H-2052W	9/15/2023 5:04:13 PM	105.2	105.0
CHH2052W	H-2052W	9/15/2023 5:06:44 PM	97.6	97.5
CHH2053E	H-2053E	9/13/2023 4:36:34 PM	119.8	119.8
CHH2053W	H-2053W	9/27/2023 8:30:58 AM	106.6	106.7
CHH2054W	H-2054W	9/25/2023 10:06:56 AM	108.9	109.0
CHH2055E	H-2055E	9/14/2023 10:57:26 AM	111.5	111.0
CHH2056E	H-2056E	9/28/2023 7:05:51 PM	95.8	94.9
CHH2056W	H-2056W	9/25/2023 1:01:42 PM	111.7	111.7
CHH2057E	H-2057E	9/13/2023 4:44:18 PM	122.1	121.8
CHH2057W	H-2057W	9/25/2023 1:18:07 PM	120.6	120.6
CHH2058A	H-2058A	9/25/2023 12:23:33 PM	115.8	115.7
CHH2058B	H-2058B	9/25/2023 12:32:13 PM	109.3	109.3
CHH2058E	H-2058E	9/13/2023 2:58:46 PM	107.5	107.1
CHH2058E	H-2058E	9/13/2023 4:24:24 PM	105.5	106.4
CHH2058W	H-2058W	9/25/2023 1:09:04 PM	106.4	106.5
CHH2059W	H-2059W	9/25/2023 9:51:26 AM	114.1	114.2
CHH2160B	H-2160B	9/25/2023 12:37:23 PM	119.7	119.7
CHH2160E	H-2160E	9/25/2023 12:13:56 PM	115.7	115.7
CHH2161W	H-2161W	9/25/2023 9:59:54 AM	115.1	115.2
CHH2162B	H-2162B	9/14/2023 10:39:24 AM	108.6	108.5
CHH2162W	H-2162W	9/25/2023 1:41:31 PM	117.1	117.1
CHH2162W	H-2162W	9/27/2023 9:06:28 AM	116.4	116.4
CHH2163C	H-2163C	9/14/2023 12:59:24 PM	109.5	109.5

CHH2163E	H-2163E	9/25/2023 10:38:18 AM	104.9	105.4
CHH2163W	H-2163W	9/25/2023 9:41:17 AM	110.5	110.6
CHH2164A	H-2164A	9/18/2023 4:20:52 PM	112.2	112.2
CHH2164B	H-2164B	9/14/2023 10:43:23 AM	109.9	109.9
CHH2164E	H-2164E	9/25/2023 10:12:40 AM	122.2	122.0
CHH2165E	H-2165E	9/25/2023 9:21:58 AM	112.3	112.3
CHH2165W	H-2165W	9/25/2023 11:18:52 AM	123.1	123.2
CHH2166A	H-2166A	9/6/2023 2:52:27 PM	94.8	93.7
CHH2166C	H-2166C	9/26/2023 9:34:56 AM	113.7	113.7
CHH2166C	H-2166C	9/26/2023 2:53:22 PM	113.2	113.2
CHH2166E	H-2166E	9/6/2023 11:47:31 AM	117.2	117.2
CHH2166W	H-2166W	9/7/2023 1:09:55 PM	100.1	99.8
CHH2167A	H-2167A	9/16/2023 11:02:32 AM	72.9	72.7
CHH2167A	H-2167A	9/26/2023 9:13:33 AM	102.1	102.2
CHH2167B	H-2167B	9/26/2023 9:25:16 AM	80.2	79.7
CHH2167B	H-2167B	9/26/2023 9:27:58 AM	81.4	81.3
CHH2167E	H-2167E	9/13/2023 5:38:19 PM	85.6	86.3
CHH2167W	H-2167W	9/7/2023 3:00:01 PM	96.0	96.5
CHH2168A	H-2168A	9/26/2023 3:33:10 PM	97.3	97.3
CHH2168C	H-2168C	9/26/2023 8:59:36 AM	76.3	76.5
CHH2168E	H-2168E	9/13/2023 5:57:03 PM	108.7	108.2
CHH2169B	H-2169B	9/25/2023 10:51:51 AM	106.9	106.9
CHH2169C	H-2169C	9/14/2023 1:42:55 PM	90.5	90.5
CHH2169E	H-2169E	9/23/2023 11:32:55 AM	118.0	117.9
CHH2169W	H-2169W	9/23/2023 9:13:28 AM	93.8	93.8
CHH2170N	H-2170N	9/11/2023 12:42:53 PM	117.3	117.3
CHH2170S	H-2170S	9/6/2023 12:20:54 PM	88.7	88.7
CHH2171A	H-2171A	9/28/2023 5:26:28 PM	111.6	111.3
CHH2171B	H-2171B	9/29/2023 4:37:11 PM	112.7	112.7
CHH2171S	H-2171S	9/11/2023 12:46:54 PM	118.0	118.0
CHH2272C	H-2272C	9/14/2023 10:27:06 AM	118.7	118.8
CHH2272C	H-2272C	9/25/2023 1:27:54 PM	120.3	120.3
CHH2272W	H-2272W	9/25/2023 11:56:53 AM	120.4	120.4
CHH2273C	H-2273C	9/29/2023 1:12:43 PM	111.1	111.1
CHH2273W	H-2273W	9/25/2023 11:12:57 AM	121.9	121.9
CHH2274B	H-2274B	9/23/2023 11:53:01 AM	107.2	107.2
CHH2274B	H-2274B	9/26/2023 12:37:32 PM	113.2	113.2
CHH2274E	H-2274E	9/25/2023 9:34:49 AM	79.4	79.3
CHH2274W	H-2274W	9/27/2023 10:52:57 AM	121.3	121.2
CHH2275C	H-2275C	9/29/2023 2:42:39 PM	110.7	110.7
CHH2275E	H-2275E	9/13/2023 4:31:07 PM	109.2	109.2
CHH2275W	H-2275W	9/23/2023 3:49:31 PM	109.9	109.9
CHH2276A	H-2276A	9/23/2023 11:33:51 AM	113.6	113.5
CHH2276B	H-2276B	9/29/2023 5:19:13 PM	94.0	94.0
CHH2276E	H-2276E	9/26/2023 5:02:12 PM	112.7	112.7
CHH2276W	H-2276W	9/22/2023 3:48:24 PM	103.4	103.1
CHH2276W	H-2276W	9/23/2023 3:35:33 PM	104.8	104.9

CHH2277A	H-2277A	9/23/2023 10:49:33 AM	82.7	81.8
CHH2277B	H-2277B	9/23/2023 11:03:06 AM	87.5	93.5
CHH2277B	H-2277B	9/23/2023 11:06:15 AM	94.0	93.9
CHH2277E	H-2277E	9/26/2023 12:31:45 PM	108.2	108.2
CHH2277W	H-2277W	9/23/2023 3:58:07 PM	121.6	122.1
CHIWH023	H-23 (EXP-23)	9/6/2023 11:41:25 AM	121.8	122.9
CHH2301E	H-2301E	9/14/2023 4:15:16 PM	102.7	102.9
CHH2301E	H-2301E	9/14/2023 4:17:35 PM	102.9	102.9
CHH2301E	H-2301E	9/15/2023 2:46:04 PM	103.2	103.1
CHH2301E	H-2301E	9/22/2023 1:57:11 PM	104.4	104.2
CHH2301E	H-2301E	9/22/2023 2:02:09 PM	103.9	103.4
CHH2302E	H-2302E	9/13/2023 6:17:50 PM	98.4	98.6
CHH2302E	H-2302E	9/14/2023 3:56:44 PM	100.7	100.7
CHH2302E	H-2302E	9/14/2023 4:04:31 PM	101.6	102.2
CHH2302E	H-2302E	9/15/2023 2:35:08 PM	102.9	102.9
CHH2303E	H-2303E	9/13/2023 5:58:23 PM	88.3	88.6
CHH2303E	H-2303E	9/13/2023 6:02:11 PM	88.6	88.6
CHH2303E	H-2303E	9/14/2023 3:49:51 PM	89.5	89.9
CHH2303E	H-2303E	9/15/2023 2:29:35 PM	89.1	88.6
CHH2303E	H-2303E	9/22/2023 1:40:58 PM	89.1	89.4
CHH2303E	H-2303E	9/22/2023 1:48:40 PM	103.1	102.5
CHIWH029	H-29	9/11/2023 12:29:36 PM	120.5	126.5
CHIWH029	H-29	9/11/2023 12:32:16 PM	126.8	126.8
CHIWH030	H-30	9/11/2023 1:59:45 PM	113.9	114.9
CHIWH031	H-31	9/1/2023 11:36:29 AM	102.3	102.3
CHIWH048	H-48	9/18/2023 3:22:08 PM	91.2	91.4
CHIWH051	H-51	9/28/2023 5:32:25 PM	92.1	92.1
CHIWH052	H-52	9/29/2023 1:21:29 PM	89.0	89.0
CHIWH053	H-53	9/28/2023 6:11:17 PM	100.0	99.8
CHIWH054	H-54	9/28/2023 6:31:36 PM	97.4	97.4
CHIWH059	H-59	9/29/2023 1:35:18 PM	107.2	107.2
CHIWH060	H-60	9/28/2023 6:02:46 PM	91.9	91.8
CHIWH064	H-64	9/5/2023 9:48:25 AM	187.7	187.7
CHIWH064	H-64	9/5/2023 10:00:21 AM	188.1	188.1
CHIWH064	H-64	9/12/2023 9:45:03 AM	186.3	187.2
CHIWH064	H-64	9/19/2023 10:46:25 AM	189.5	189.5
CHIWH064	H-64	9/22/2023 5:18:21 PM	188.6	188.6
CHIWH064	H-64	9/26/2023 10:23:51 AM	190.5	190.5
CHIWH065	H-65	9/7/2023 2:13:57 PM	102.9	102.9
CHIWH067	H-67	9/7/2023 2:40:23 PM	110.1	110.1
CHIWH072	H-72	9/28/2023 5:41:02 PM	92.8	93.6
CHIWH074	H-74	9/26/2023 2:16:05 PM	122.0	122.0
CHIWH076	H-76	9/15/2023 2:29:52 PM	104.2	104.2
CHIWH077	H-77	9/28/2023 6:20:39 PM	109.7	109.7
CHIWH77A	H-77A	9/28/2023 5:43:52 PM	82.7	82.4
CHIWH078	H-78	9/28/2023 5:36:00 PM	93.9	93.9
CHIWH78A	H-78A	9/28/2023 5:28:01 PM	94.5	94.5

CHIWH079	H-79	9/15/2023 5:33:11 PM	135.0	130.9
CHIWH079	H-79	9/15/2023 5:34:58 PM	129.8	129.8
CHIWH079	H-79	9/15/2023 5:36:44 PM	129.7	135.3
CHIWH079	H-79	9/15/2023 5:38:17 PM	135.3	135.3
CHIWH084	H-84	9/15/2023 2:38:32 PM	97.2	97.2
CHIWP002	P-02	9/11/2023 1:37:54 PM	106.6	106.7
CHIWP02R	P-02R	9/21/2023 9:58:35 AM	83.2	83.2
CHIWP03R	P-03R	9/11/2023 1:30:32 PM	105.6	105.5
CHIWP03R	P-03R	9/11/2023 1:32:59 PM	106.5	106.6
CHIWP004	P-04	9/21/2023 11:32:45 AM	87.5	88.1
CHIWP005	P-05	9/11/2023 12:48:21 PM	104.4	104.2
CHIWP005	P-05	9/11/2023 12:51:01 PM	105.4	105.4
CHIWP06R	P-06R	9/11/2023 12:36:28 PM	111.6	112.0
CHIWP06R	P-06R	9/11/2023 12:57:16 PM	112.9	112.9
CHIWP07R	P-07R	9/21/2023 10:54:48 AM	78.3	78.3
CHIWP08R	P-08R	9/6/2023 8:50:42 AM	100.5	100.5
CHIWP009	P-09	9/6/2023 8:56:00 AM	93.3	92.1
CHIWP010	P-10	9/6/2023 9:00:26 AM	96.5	96.0
CHIWP011	P-11	9/6/2023 9:04:42 AM	106.5	105.7
CHIWP012	P-12	9/21/2023 11:13:59 AM	74.5	74.9
CHIWP013	P-13	9/21/2023 11:08:16 AM	79.1	80.1
CHIWP014	P-14	9/6/2023 9:09:06 AM	74.4	74.6
CHIWP15R	P-15R	9/6/2023 9:14:05 AM	85.6	85.8
CHIWP016	P-16	9/6/2023 9:19:53 AM	71.2	72.8
CHIWP017	P-17	9/6/2023 9:25:30 AM	79.3	88.6
CHIP18RD	P-18RD	9/6/2023 9:34:28 AM	90.8	90.9
CHIP18RS	P-18RS	9/6/2023 9:32:16 AM	74.7	74.7
CHIWP019	P-19	9/6/2023 9:38:29 AM	82.1	82.1
CHIWP20R	P-20R	9/6/2023 9:42:54 AM	77.9	77.9
CHIWP021	P-21	9/6/2023 9:48:04 AM	81.7	81.7
CHIP21RD	P-21RD	9/6/2023 9:57:42 AM	83.0	83.0
CHIP21RS	P-21RS	9/6/2023 9:52:49 AM	107.6	107.6
CHIP22RD	P-22RD	9/21/2023 10:41:12 AM	113.2	113.2
CHIP22RS	P-22RS	9/21/2023 10:38:14 AM	68.9	68.9
CHIWP023	P-23	9/6/2023 10:03:25 AM	88.1	88.0
CHIWP024	P-24	9/6/2023 10:50:48 AM	87.7	87.7
CHIWP026	P-26	9/6/2023 10:59:25 AM	85.3	85.2
CHIWP027	P-27	9/6/2023 11:03:24 AM	88.8	89.1
CHIWP028	P-28	9/6/2023 11:10:22 AM	88.3	87.7
CHIWP29R	P-29R	9/6/2023 11:15:41 AM	94.5	94.7
CHIWP30R	P-30R	9/6/2023 11:19:43 AM	87.3	87.3
CHIWP30R	P-30R	9/13/2023 3:23:56 PM	90.5	91.1
CHIWP30R	P-30R	9/15/2023 1:21:27 PM	86.1	86.3
CHIWP30R	P-30R	9/15/2023 3:19:07 PM	89.1	89.2
CHIWP30R	P-30R	9/16/2023 9:47:02 AM	86.3	85.7
CHIWP30R	P-30R	9/18/2023 11:18:12 AM	86.2	86.2
CHIWP30R	P-30R	9/18/2023 2:30:03 PM	87.4	87.5

CHIWP30R	P-30R	9/19/2023 11:50:10 AM	88.6	88.8
CHIWP30R	P-30R	9/22/2023 2:49:30 PM	89.5	89.4
CHIWP30R	P-30R	9/25/2023 3:04:33 PM	91.5	91.5
CHIWP031	P-31	9/6/2023 11:26:35 AM	94.5	94.4
CHIWP031	P-31	9/13/2023 2:31:10 PM	95.4	95.5
CHIWP031	P-31	9/15/2023 1:15:17 PM	93.4	93.5
CHIWP031	P-31	9/18/2023 11:24:43 AM	93.6	93.6
CHIWP031	P-31	9/18/2023 2:12:43 PM	94.4	95.3
CHIWP031	P-31	9/19/2023 11:24:26 AM	97.1	97.1
CHIWP031	P-31	9/22/2023 2:42:59 PM	88.4	80.3
CHIWP031	P-31	9/22/2023 2:44:57 PM	88.2	89.5
CHIWP031	P-31	9/25/2023 2:58:25 PM	94.4	94.4
CHIWP031	P-31	9/25/2023 3:32:21 PM	94.6	94.4
CHIP32R1	P-32R1	9/6/2023 11:33:23 AM	101.7	101.6
CHIP32R2	P-32R2	9/6/2023 11:36:28 AM	98.9	98.9
CHIWP033	P-33	9/6/2023 11:42:03 AM	89.7	88.3
CHIWP033	P-33	9/6/2023 11:43:38 AM	88.7	88.7
CHIWP034	P-34	9/6/2023 11:48:04 AM	88.0	88.2
CHIWP036	P-36	9/6/2023 2:39:32 PM	108.8	108.5
CHIWP037	P-37	9/6/2023 2:43:50 PM	96.2	96.2
CHIP38RD	P-38RD	9/6/2023 3:10:52 PM	101.0	102.5
CHIP38RS	P-38RS	9/6/2023 3:14:18 PM	104.5	104.4
CHIWP039	P-39	9/6/2023 3:19:59 PM	94.3	94.4
CHIWP041	P-41	9/8/2023 11:21:41 AM	108.5	108.2
CHIWP42R	P-42R	9/8/2023 11:29:49 AM	121.4	121.4
CHIWP043	P-43	9/8/2023 11:33:12 AM	103.1	103.1
CHIWP043	P-43	9/15/2023 1:02:58 PM	98.1	108.4
CHIWP043	P-43	9/15/2023 1:04:32 PM	109.4	109.5
CHIWP043	P-43	9/15/2023 3:24:03 PM	115.0	115.0
CHIWP043	P-43	9/18/2023 11:39:20 AM	114.9	114.9
CHIWP043	P-43	9/18/2023 12:34:20 PM	115.0	117.2
CHIWP043	P-43	9/18/2023 1:59:32 PM	117.4	117.5
CHIWP043	P-43	9/19/2023 11:10:51 AM	116.6	116.6
CHIWP043	P-43	9/22/2023 2:25:11 PM	116.5	116.5
CHIWP043	P-43	9/25/2023 2:46:54 PM	117.3	117.3
CHIP44RD	P-44RD	9/8/2023 12:10:58 PM	110.3	110.3
CHIP44RD	P-44RD	9/13/2023 3:58:04 PM	109.2	109.3
CHIP44RD	P-44RD	9/15/2023 12:59:20 PM	108.2	108.2
CHIP44RD	P-44RD	9/15/2023 3:27:35 PM	108.6	108.9
CHIP44RD	P-44RD	9/18/2023 11:48:11 AM	106.8	106.7
CHIP44RD	P-44RD	9/19/2023 11:02:40 AM	105.5	105.4
CHIP44RD	P-44RD	9/22/2023 2:35:14 PM	105.3	105.8
CHIP44RD	P-44RD	9/25/2023 2:38:04 PM	112.1	112.0
CHIP44RS	P-44RS	9/8/2023 12:14:30 PM	118.5	118.0
CHIP44RS	P-44RS	9/15/2023 12:55:46 PM	109.2	114.7
CHIP44RS	P-44RS	9/18/2023 11:52:30 AM	120.6	120.5
CHIP44RS	P-44RS	9/18/2023 12:28:21 PM	121.0	122.0

CHIP44RS	P-44RS	9/18/2023 2:03:45 PM	122.0	122.1
CHIP44RS	P-44RS	9/19/2023 11:07:03 AM	121.5	121.5
CHIP44RS	P-44RS	9/22/2023 2:31:11 PM	121.2	121.2
CHIP44RS	P-44RS	9/25/2023 2:43:07 PM	123.1	123.0
CHIP45RD	P-45RD	9/8/2023 1:40:21 PM	107.3	107.3
CHIP45RD	P-45RD	9/13/2023 2:42:08 PM	104.5	111.4
CHIP45RS	P-45RS	9/8/2023 1:33:11 PM	105.3	108.9
CHIP45RS	P-45RS	9/8/2023 1:34:59 PM	110.6	110.6
CHIP46RD	P-46RD	9/8/2023 1:43:32 PM	111.8	111.9
CHIP46RS	P-46RS	9/8/2023 1:47:20 PM	111.3	111.5
CHIWP047	P-47	9/21/2023 10:09:06 AM	81.4	81.5
CHIWP048	P-48	9/21/2023 10:15:34 AM	119.3	117.1
CHIP49RD	P-49RD	9/21/2023 10:24:52 AM	116.0	116.0
CHIP49RS	P-49RS	9/21/2023 10:28:18 AM	113.7	113.7
CHIWP052	P-52	9/27/2023 2:17:02 PM	113.9	117.0
CHIWP052	P-52	9/27/2023 2:18:27 PM	117.1	117.1
CHIWP053	P-53	9/19/2023 3:59:10 PM	111.7	111.8
CHIWP054	P-54	9/15/2023 11:56:15 AM	99.7	99.8
CHIWP055	P-55	9/15/2023 11:49:02 AM	97.6	97.6
CHIWP056	P-56	9/28/2023 3:18:06 PM	82.7	82.7
CHIWP057	P-57	9/19/2023 3:29:40 PM	89.3	89.1
CHIWP057	P-57	9/19/2023 3:31:34 PM	89.0	89.0
CHIWP60R	P-60R	9/6/2023 3:03:48 PM	90.3	91.2
CHIWP061	P-61	9/6/2023 2:53:48 PM	92.1	92.2
CHIWP065	P-65	9/27/2023 1:59:40 PM	94.1	94.3
CHIWP071	P-71	9/21/2023 10:20:48 AM	115.8	115.8
CHIWP075	P-75	9/6/2023 2:50:44 PM	97.1	97.1
CHIWP076	P-76	9/6/2023 3:05:54 PM	93.0	93.0
CHIWP079	P-79	9/28/2023 3:54:53 PM	94.1	93.8
CHIWP079	P-79	9/28/2023 3:56:46 PM	94.7	94.7
CSC2000E	SC-2000E	9/25/2023 12:09:17 PM	112.9	112.7
CSC2001E	SC-2001E	9/14/2023 12:49:02 PM	116.7	116.2
CSC2001W	SC-2001W	9/27/2023 8:42:31 AM	99.6	99.6
CHISW010	SW-10	9/28/2023 5:39:19 PM	87.4	87.4
CHISW115	SW-115	9/11/2023 1:41:50 PM	99.7	99.7
CHSW1445	SW-1445	9/27/2023 9:43:03 AM	82.1	82.2
CHSW1455	SW-1455	9/27/2023 9:37:07 AM	88.2	88.2
CHISW154	SW-154	9/1/2023 10:56:56 AM	90.3	92.1
CHISW154	SW-154	9/21/2023 2:09:12 PM	78.3	76.4
CHISW154	SW-154	9/22/2023 5:39:00 PM	69.7	69.4
CHISW154	SW-154	9/25/2023 12:56:11 PM	89.2	89.2
CHISW154	SW-154	9/26/2023 9:46:02 AM	74.3	74.5
CHISW154	SW-154	9/27/2023 9:04:18 AM	70.7	70.7
CSW17135	SW-17-135	9/27/2023 9:46:41 AM	80.6	80.7
CHISW187	SW-187	9/1/2023 9:53:11 AM	90.0	89.3
CHSW1930	SW-1930	9/1/2023 10:06:16 AM	85.6	85.6
CHSW1930	SW-1930	9/11/2023 8:27:40 AM	80.1	79.8

CHSW1930	SW-1930	9/12/2023 8:03:47 AM	80.8	80.8
CHSW1930	SW-1930	9/14/2023 8:48:44 AM	78.2	77.9
CHSW1930	SW-1930	9/15/2023 10:02:58 AM	78.2	78.2
CHSW1930	SW-1930	9/18/2023 11:17:45 AM	86.2	86.2
CHSW1930	SW-1930	9/19/2023 12:39:07 PM	87.0	87.1
CHSW1930	SW-1930	9/20/2023 12:18:55 PM	82.3	82.3
CHSW1930	SW-1930	9/21/2023 11:31:12 AM	80.2	80.3
CHSW1930	SW-1930	9/22/2023 11:20:24 AM	81.5	81.5
CHSW1930	SW-1930	9/25/2023 2:13:00 PM	90.2	90.2
CHSW1930	SW-1930	9/26/2023 10:13:56 AM	82.9	83.0
CHSW1930	SW-1930	9/27/2023 9:52:35 AM	82.2	82.2
CHSW1930	SW-1930	9/29/2023 11:24:53 AM	78.4	78.5
CHISW020	SW-20	9/19/2023 3:41:56 PM	90.9	91.2
CHISW025	SW-25	9/1/2023 10:01:20 AM	85.5	85.5
CHISW025	SW-25	9/5/2023 9:27:26 AM	81.2	81.2
CHISW025	SW-25	9/11/2023 8:36:35 AM	80.5	80.5
CHISW025	SW-25	9/12/2023 8:12:45 AM	79.4	79.4
CHISW025	SW-25	9/14/2023 8:59:45 AM	78.5	78.5
CHISW025	SW-25	9/15/2023 10:12:52 AM	79.2	79.2
CHISW025	SW-25	9/18/2023 11:13:33 AM	87.6	87.6
CHISW025	SW-25	9/19/2023 12:32:17 PM	89.4	89.4
CHISW025	SW-25	9/20/2023 11:58:13 AM	84.3	84.3
CHISW025	SW-25	9/21/2023 11:24:50 AM	79.0	79.0
CHISW025	SW-25	9/22/2023 11:31:19 AM	82.2	82.1
CHISW025	SW-25	9/25/2023 2:03:14 PM	96.0	96.0
CHISW025	SW-25	9/26/2023 10:17:31 AM	83.4	83.2
CHISW025	SW-25	9/27/2023 9:39:48 AM	79.3	79.4
CHISW025	SW-25	9/29/2023 11:11:43 AM	75.9	80.8
CHISW030	SW-30	9/13/2023 1:22:59 PM	85.9	85.8
CHISW030	SW-30	9/14/2023 3:04:52 PM	90.1	90.2
CHISW030	SW-30	9/15/2023 10:28:24 AM	75.9	76.0
CHISW030	SW-30	9/18/2023 11:40:24 AM	84.3	84.4
CHISW030	SW-30	9/19/2023 12:09:59 PM	84.8	84.9
CHISW030	SW-30	9/20/2023 11:39:31 AM	79.0	79.1
CHISW030	SW-30	9/21/2023 11:51:48 AM	76.9	76.9
CHISW030	SW-30	9/22/2023 12:21:40 PM	86.0	85.9
CHISW030	SW-30	9/25/2023 1:38:30 PM	91.3	91.2
CHISW030	SW-30	9/26/2023 10:41:18 AM	84.5	84.4
CHISW030	SW-30	9/27/2023 10:02:14 AM	80.1	80.1
CHISW030	SW-30	9/29/2023 11:43:13 AM	76.3	76.3
CHISW032	SW-32	9/13/2023 1:32:13 PM	89.3	89.3
CHISW032	SW-32	9/14/2023 3:09:50 PM	97.9	97.9
CHISW032	SW-32	9/15/2023 10:36:44 AM	74.5	74.6
CHISW032	SW-32	9/18/2023 11:28:45 AM	94.6	94.8
CHISW032	SW-32	9/19/2023 11:53:47 AM	95.0	95.0
CHISW032	SW-32	9/20/2023 11:24:24 AM	79.8	79.9
CHISW032	SW-32	9/21/2023 11:42:38 AM	81.1	81.1

CHISW032	SW-32	9/22/2023 12:12:28 PM	89.5	89.7
CHISW032	SW-32	9/25/2023 1:30:35 PM	98.8	99.0
CHISW032	SW-32	9/26/2023 10:44:39 AM	81.1	81.1
CHISW032	SW-32	9/27/2023 9:55:47 AM	86.4	86.7
CHISW032	SW-32	9/29/2023 11:35:40 AM	71.8	71.8
CHISW064	SW-64	9/13/2023 1:36:31 PM	86.2	86.3
CHISW064	SW-64	9/14/2023 3:07:14 PM	91.6	91.6
CHISW064	SW-64	9/15/2023 10:23:57 AM	74.1	74.1
CHISW064	SW-64	9/18/2023 11:36:18 AM	87.6	87.7
CHISW064	SW-64	9/19/2023 12:04:28 PM	87.1	87.1
CHISW064	SW-64	9/20/2023 11:33:49 AM	78.7	78.8
CHISW064	SW-64	9/21/2023 11:55:44 AM	76.7	76.7
CHISW064	SW-64	9/22/2023 12:25:23 PM	85.3	85.3
CHISW064	SW-64	9/25/2023 1:42:51 PM	92.0	92.2
CHISW064	SW-64	9/26/2023 10:38:42 AM	89.1	89.0
CHISW064	SW-64	9/27/2023 10:05:27 AM	84.1	84.2
CHISW064	SW-64	9/29/2023 11:46:28 AM	75.0	75.0
CHISW065	SW-65	9/11/2023 1:38:48 PM	99.8	99.8
CHISW066	SW-66	9/1/2023 10:58:38 AM	93.1	93.1
CHISW066	SW-66	9/21/2023 2:12:56 PM	76.9	83.2
CHISW066	SW-66	9/21/2023 2:13:00 PM	76.9	83.2
CHISW066	SW-66	9/21/2023 2:14:46 PM	84.2	84.2
CHISW066	SW-66	9/22/2023 5:35:52 PM	85.9	85.2
CHISW066	SW-66	9/25/2023 1:02:13 PM	91.0	91.4
CHISW066	SW-66	9/26/2023 9:43:18 AM	75.9	75.4
CHISW066	SW-66	9/27/2023 9:07:14 AM	86.9	86.9
CHISW068	SW-68	9/13/2023 1:28:01 PM	87.5	87.7
CHISW068	SW-68	9/14/2023 3:11:46 PM	89.8	89.7
CHISW068	SW-68	9/15/2023 10:41:40 AM	76.2	76.1
CHISW068	SW-68	9/18/2023 11:31:59 AM	87.4	87.5
CHISW068	SW-68	9/19/2023 11:58:16 AM	85.7	85.8
CHISW068	SW-68	9/20/2023 11:29:26 AM	77.5	77.6
CHISW068	SW-68	9/21/2023 11:46:47 AM	76.6	76.6
CHISW068	SW-68	9/22/2023 12:16:27 PM	84.6	84.8
CHISW068	SW-68	9/25/2023 1:34:10 PM	89.2	89.5
CHISW068	SW-68	9/26/2023 10:47:58 AM	85.1	85.3
CHISW068	SW-68	9/27/2023 9:59:29 AM	79.1	78.8
CHISW068	SW-68	9/29/2023 11:39:22 AM	74.4	74.4
CHISW007	SW-7	9/1/2023 9:58:13 AM	85.7	85.7
CHISW007	SW-7	9/5/2023 9:31:10 AM	83.0	83.1
CHISW007	SW-7	9/11/2023 8:33:17 AM	81.1	81.1
CHISW007	SW-7	9/12/2023 8:08:41 AM	80.9	80.9
CHISW007	SW-7	9/14/2023 8:55:15 AM	80.3	80.3
CHISW007	SW-7	9/15/2023 10:08:46 AM	80.6	80.7
CHISW007	SW-7	9/18/2023 11:09:01 AM	86.2	86.4
CHISW007	SW-7	9/19/2023 12:26:02 PM	86.8	86.8
CHISW007	SW-7	9/20/2023 11:53:25 AM	82.1	82.1

CHISW007	SW-7	9/21/2023 11:18:56 AM	80.5	80.5
CHISW007	SW-7	9/22/2023 11:28:06 AM	82.8	82.8
CHISW007	SW-7	9/25/2023 1:57:56 PM	90.0	89.6
CHISW007	SW-7	9/26/2023 10:20:25 AM	82.5	82.4
CHISW007	SW-7	9/27/2023 9:35:15 AM	81.0	81.0
CHISW007	SW-7	9/29/2023 11:04:02 AM	79.1	79.4
CHISW070	SW-70	9/1/2023 9:58:26 AM	90.2	90.2
CHISW071	SW-71	9/6/2023 10:55:15 AM	86.1	86.1
CHISW072	SW-72	9/6/2023 11:52:24 AM	87.2	87.3
CHISW080	SW-80	9/1/2023 11:26:06 AM	91.7	91.9
CHISW009	SW-9	9/1/2023 9:56:32 AM	87.3	87.6
CHH1959N	TC-1959N	9/26/2023 6:32:43 PM	86.1	82.1
CHH1959N	TC-1959N	9/26/2023 6:34:51 PM	81.7	81.8
CHH1959S	TC-1959S	9/25/2023 2:01:23 PM	118.3	118.3
CHH1961A	TC-1961A	9/29/2023 1:24:04 PM	109.1	109.3
CHH1961C	TC-1961C	9/14/2023 11:17:36 AM	84.5	89.2
CHH1961C	TC-1961C	9/14/2023 12:09:08 PM	91.0	91.0
CHH1961E	TC-1961E	9/23/2023 11:58:27 AM	116.5	116.5
CHH1961W	TC-1961W	9/23/2023 10:47:53 AM	106.6	106.6
CHH2173W	TC-2173	9/18/2023 10:53:31 AM	106.9	107.1
CHTC2174	TC-2174	9/28/2023 4:52:20 PM	141.5	141.5
CHTC2174	TC-2174	9/28/2023 4:53:49 PM	140.9	141.1
CHTC2174	TC-2174	9/28/2023 5:46:54 PM	137.5	137.4
CHTC2378	TC-2378	9/5/2023 10:09:02 AM	150.8	150.3
CHTC2378	TC-2378	9/19/2023 4:21:36 PM	142.8	142.8
CTC2378E	TC-2378E	9/5/2023 9:52:18 AM	113.9	113.9
CTC2378E	TC-2378E	9/26/2023 8:07:58 AM	121.9	121.8
CHTC2379	TC-2379	9/5/2023 12:15:43 PM	133.8	133.0
CHTC2379	TC-2379	9/5/2023 12:17:14 PM	132.8	133.3
CHTC2379	TC-2379	9/11/2023 3:37:47 PM	128.7	128.7
CTC2380E	TC-2380E	9/7/2023 1:30:11 PM	104.1	104.2
CTC2380E	TC-2380E	9/7/2023 1:32:52 PM	104.3	104.3
CTC2380W	TC-2380W	9/6/2023 11:55:33 AM	113.0	113.0
CTC2381E	TC-2381E	9/5/2023 10:44:15 AM	136.1	136.2
CTC2381E	TC-2381E	9/5/2023 10:46:54 AM	136.2	135.7
CTC2381E	TC-2381E	9/14/2023 5:43:02 PM	127.1	127.2
CTC2381E	TC-2381E	9/26/2023 12:26:47 PM	148.3	148.0
CTC2381W	TC-2381W	9/26/2023 6:00:07 PM	91.5	88.8
CTC2381W	TC-2381W	9/26/2023 6:02:34 PM	87.5	87.5
CTC2382A	TC-2382A	9/5/2023 12:09:20 PM	166.0	166.2
CTC2382A	TC-2382A	9/12/2023 4:41:47 PM	164.1	164.1
CTC2382A	TC-2382A	9/19/2023 2:40:03 PM	162.5	162.5
CTC2382A	TC-2382A	9/26/2023 3:09:25 PM	162.2	162.2
CTC2382B	TC-2382B	9/5/2023 11:55:38 AM	169.6	169.6
CTC2382B	TC-2382B	9/12/2023 5:11:51 PM	172.1	172.1
CTC2382B	TC-2382B	9/19/2023 2:50:48 PM	172.8	172.8
CTC2382B	TC-2382B	9/26/2023 3:26:44 PM	161.0	161.1

Attachment D - Well Temperature Data
September 2023

CTC2382B	TC-2382B	9/27/2023 10:33:49 AM	160.8	159.5
CTC2382B	TC-2382B	9/27/2023 10:35:32 AM	160.4	160.4
CTC2382E	TC-2382E	9/5/2023 11:22:05 AM	180.9	180.9
CTC2382E	TC-2382E	9/12/2023 2:32:57 PM	167.3	167.3
CTC2382E	TC-2382E	9/19/2023 2:09:25 PM	171.0	171.0
CTC2382E	TC-2382E	9/26/2023 3:48:20 PM	181.5	181.5
CTC2382W	TC-2382W	9/26/2023 6:40:02 PM	139.5	139.6
CTC2383A	TC-2383A	9/29/2023 3:34:38 PM	122.9	122.8
CTC2383S	TC-2383S	9/25/2023 2:24:00 PM	96.4	96.4
CTC2384A	TC-2384A	9/26/2023 6:12:42 PM	86.8	87.5
CTC2384B	TC-2384B	9/11/2023 3:21:54 PM	102.0	102.3
CTC2384N	TC-2384N	9/29/2023 4:05:54 PM	106.2	106.4
CTC2384S	TC-2384S	9/29/2023 3:56:08 PM	94.0	94.0
CTC2385A	TC-2385A	9/29/2023 5:23:42 PM	175.2	175.2
CTC2385N	TC-2385N	9/7/2023 1:54:13 PM	105.1	105.1
CTC2385S	TC-2385S	9/7/2023 2:23:43 PM	104.8	105.0
CHIWVL02	VL-02	9/25/2023 3:42:56 PM	103.4	103.4

Attachment E

Lab Analysis and Draeger Tube Readings

Attachment E - Lab Analysis and Draeger Tube Data
September 2023

Date Sampled	Draeger Tube Readings (ppmv)	Lab Analysis (ppmv)		
	H2S	H2S	DMS	TRS
9/1/2023	19	16.3	161	222.6
9/2/2023	5	5.63	160	207
9/3/2023	3	3.04	168	210.6
9/4/2023	6	4.94	163	202.8
9/5/2023	3	3.86	174	246.3
9/6/2023	6	6.17	156	213.5
9/7/2023	3	3.95	186	256.5
9/8/2023	7	7.48	157	211.6
9/9/2023	6	6.87	162	226.5
9/10/2023	2	3.33	183	234.2
9/11/2023	5	6.13	174	230.3
9/20/2023	9	7.99	199	261.3
9/27/2023	12	15.3	174	269.7

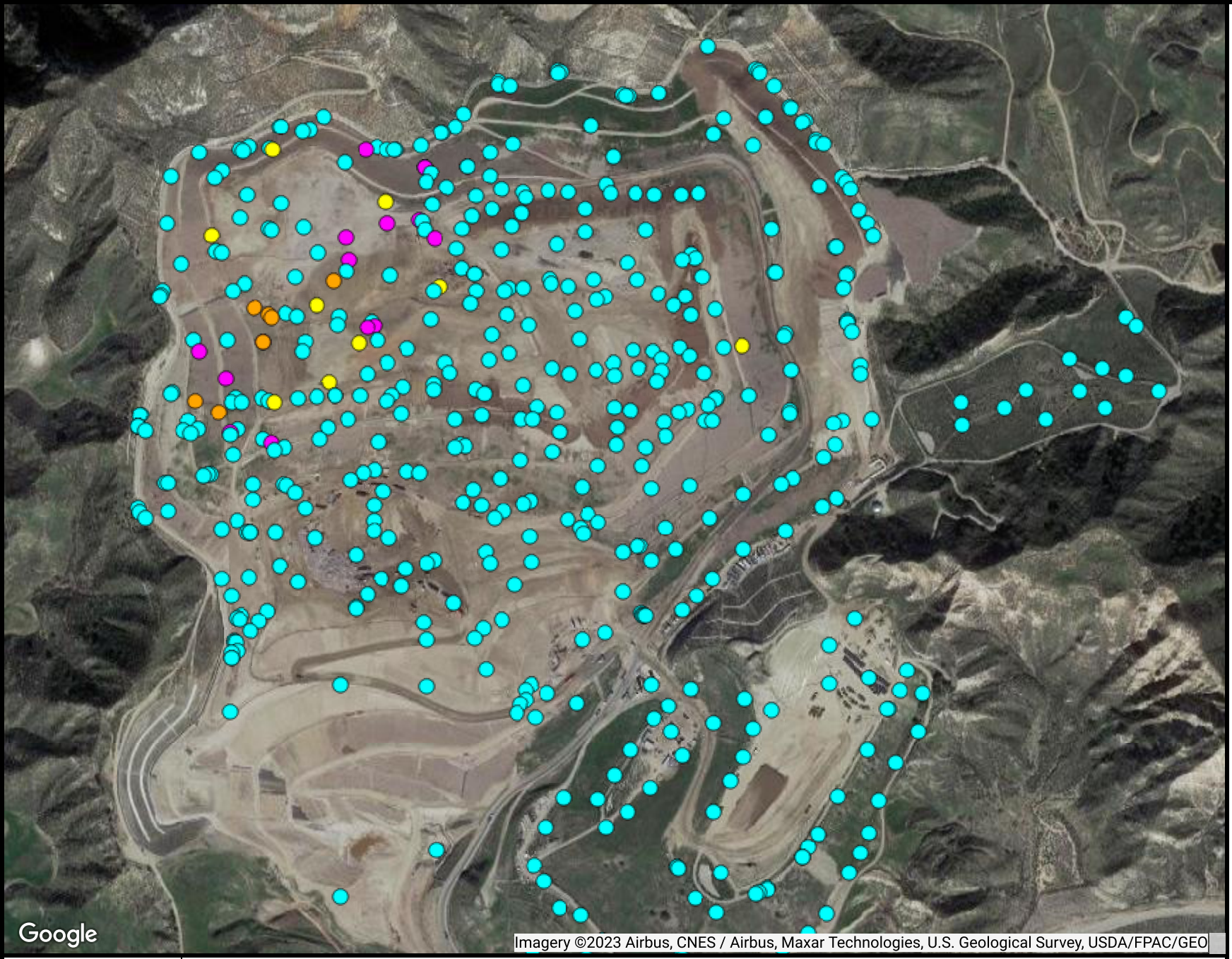
Attachment E - Lab Analysis and Draeger Tube Data
September 2023

Chiquita Canyon Landfill H_2S Draeger Tube Readings

			Tube Used		
Sample Date	**Time**	**H_2S (PPM)**	**2 to 20 ppm (6728821)**	**5 to 60 ppm (29801)**	**Technician**
9/1/23	8:30	19		x	Cage Johnson
9/2/23	8:00	5		x	Fabian Chavez
9/3/23	16:46	3		x	Eric Castro
9/4/23	7:55	6		x	Eric Castro
9/5/23	15:07	3		x	Fabian Chavez
9/6/23	7:35	6		x	Fabian Chavez
9/7/23	16:00	3		x	Fabian Chavez
9/8/23	7:30	7		x	Fabian Chavez
9/9/23	8:29	6		x	Eric Castro
9/10/23	16:15	2		x	Fabian Chavez
9/11/23	9:30	5		x	Fabian Chavez
9/20/23	9:05	9		x	Fabian Chavez
9/27/23	10:15	12		x	Fabian Chavez

Attachment F

Graphic Map



Ranges Mapped

				# Points
>	-50	and <=	145	504
>	145	and <=	160	11
>	160	and <=	169.99	8
>	169.99	and <=	999	17

Point Type Legend

well

N

SCSeTools

Chiquita Canyon Landfill

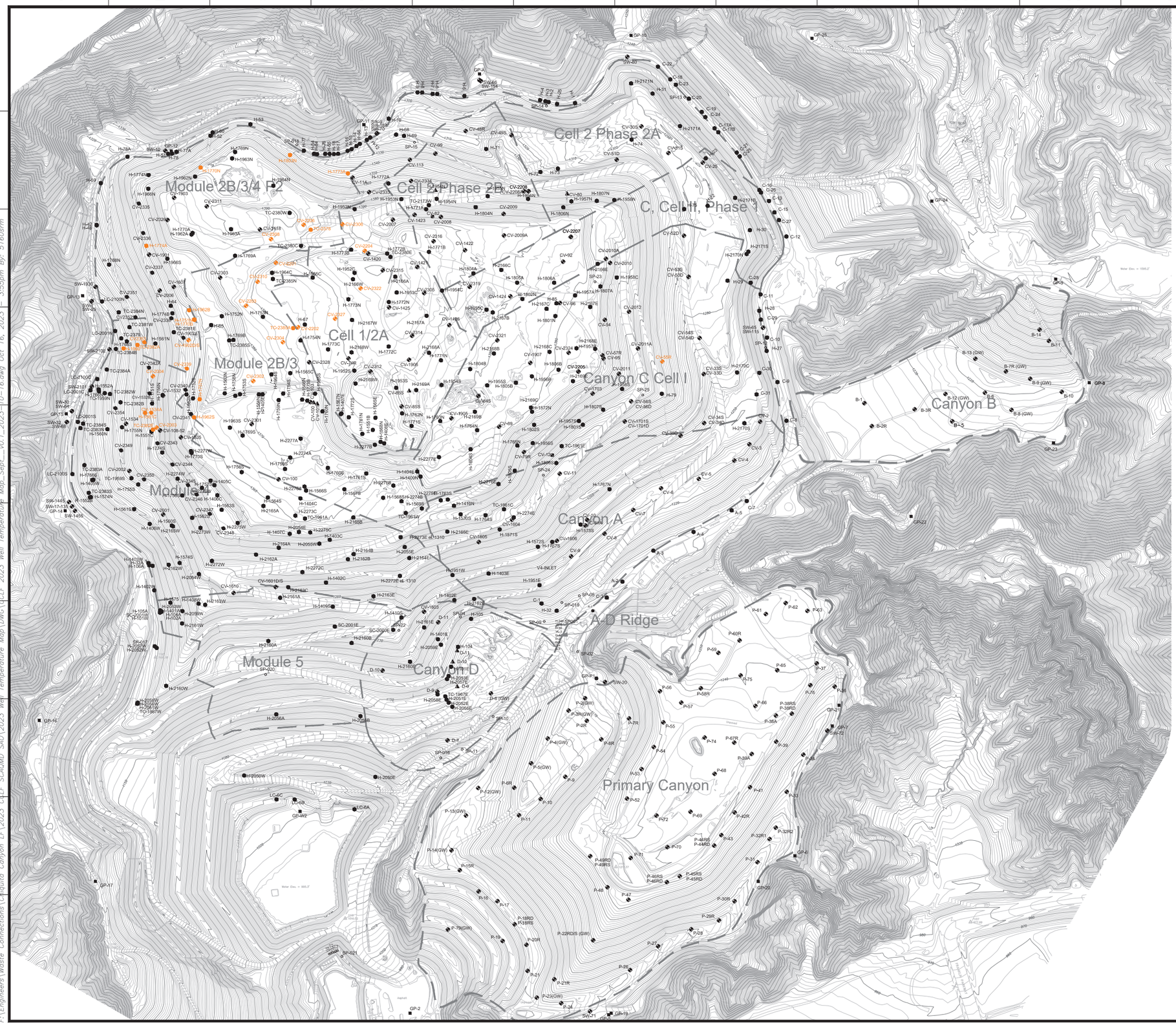
Range Map

Parameter: AdjTemp

Analysis Method: Average

Date Range: 09/01/2023 - 09/30/2023

Map generation date : 10/13/2023



LEGEND

- 1150 — EXISTING MAJOR 10 FT. CONTOUR
- EXISTING MINOR 2 FT. CONTOUR
- EXISTING CELL LIMITS (APPROXIMATE)
- CV-69 — EXISTING VERTICAL WELLS ABOVE-GRADE
- C-31 — EXISTING VERTICAL WELLS BELOW-GRADE
- C-31 — EXISTING HORIZONTAL WELLS
- SP-1 — EXISTING DETECTION WELLS
- C-39 — EXISTING REMOTE VERTICAL WELLHEAD
- GP-9 — EXISTING PERIMETER MIGRATION PROBE
- CV-69 — EXISTING VERTICAL WELLS ABOVE-GRADE-TEMPERATURE GREATER THAN 145°F
- C-31 — EXISTING HORIZONTAL WELLS - TEMPERATURE GREATER THAN 145°F

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY TETRA TECH BAS. AERIAL PHOTOGRAPHY DATED 1/18/2023.
2. NORTH ARROW SHOWN HERE IS REFERENCE TO THE CALIFORNIA STATE PLANE ZONE V COORDINATE SYSTEM, NAD 83.
3. THE LOCATION OF ANY EXISTING GCCS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FILL OPERATIONS. ACTUAL FIELD CONDITIONS MAT VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

NO.	REVISION	DATE

SHEET TITLE: WELL TEMPERATURE MAP

PROJECT TITLE: SEPTEMBER MONTHLY REPORT CHIQUITA LANDFILL CASTAIC, CALIFORNIA

CLIENT: CHIQUITA CANYON LANDFILL CASTAIC, CALIFORNIA

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX: (562) 427-0805

PROJECT NO: 07214017.93 | DSN. BY: - | DWN. BY: SRM | CHK. BY: BH | ACAD FILE: - | APP. BY: -

DATE: 10/16/2023

SCALE: AS SHOWN

SHEET: 1

F:\Engineers\Waste Connections\Chiquita Canyon LF\2023 CLF SCAQMD SAO\2023 Well Temperature Map\DWG\CLF 2023 Well Temperature Map_Sept_ v0.1_2023-10-16.dwg Oct 16, 2023 3:55pm By: 5160srm

Attachment G

Inspection Logs

9-7-23



9-8-23



9-11-23



9-12-23



9-13-23



9-13-23
Tracked slope for cracks and odors



9/14/23
Nothing found



9-15-23



9-18-23



9.18.23 9am 11am

TRACK WALK

- DECK ADDED WATER



9-19-23



9/20/23
Nothing Found



9/21/23
Nothing Sound



9-22-23



Nothing
Found
9/25/23



Nothing Found
9/24/23



Nothing Found 9/27/23



9-28-23



9/24/27

Nothing Sound



November 20, 2023
File No. 01204123.25, Task 10

Baitong Chen, Air Quality Engineer, bchen@aqmd.gov
Nathaniel Dickel, Senior Air Quality Engineer, ndickel@aqmd.gov
Christina Ojeda, Air Quality Inspector, cojeda@aqmd.gov
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: October 2023 Monthly Report for Stipulated Order for Abatement (Case No. 6177-4), Chiquita Canyon Landfill (Facility ID 119219), Castaic, California

To Whom It May Concern:

SCS Engineers (SCS), on behalf of Chiquita Canyon Landfill (CCL), hereby provides the South Coast Air Quality Management District (SCAQMD) with a monthly report per the Stipulated Order for Abatement (SOFA) (Case No. 6177-4) for the CCL in Castaic, California. The SOFA was approved on September 6, 2023.

This report covers the monthly period for October 2023. Per Condition No. 8, the monthly report for October 2023 shall be due on the third Monday of November, or November 20, 2023.

BACKGROUND

CCL is a landfill/solid waste disposal facility located at 29201 Henry Mayo Dr., Castaic, California, 91384 (SCAQMD Facility No. 119219). In connection with the landfill, CCL operates a landfill gas collection and control system.

In 2023, CCL began experiencing increased levels of total reduced sulfur and sulfur oxides, in noncompliance with its Title V permit.[1] In addition, CCL became the subject of numerous odor complaints from the public and was issued Notices of Violation by SCAQMD. The conditions at CCL indicate that the landfill is undergoing an elevated temperature landfill (ETLF) event. On September 6, 2023, a hearing was held before the SCAQMD Hearing Board to approve the SOFA which includes numerous measures to mitigate emissions resulting from the landfill's ETLF conditions. The SOFA was approved on September 6, 2023. This monthly report is following the approved conditions for the SOFA.

Condition No. 8 of the SOFA requires monthly reports to be submitted via email to Baitong Chen, Nathaniel Dickel, and Christina Ojeda of the SCAQMD, which include the following information:

A. *The landfill gas sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.*

[1] CCL operated under an Ex Parte Emergency Variance (approved on February 8, 2023), an Interim Variance request (approved on February 15, 2023 and issued in final on March 7, 2023), and a Regular Variance (approved on May 3, 2023 and issued in final on May 16, 2023). The Regular Variance ended on September 6, 2023, the effective date of the SOFA.

B. The landfill gas records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

C. The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

D. Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

E. Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).

F. Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).

G. All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format.

H. A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.

I. All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

J. Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternative sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

K. A summary report on SCS's implemented improvements to the landfill gas collection system.

L. An inspection log for landfill cover inspections, pursuant to Condition No. 24.

M. Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

N. Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

O. Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

MONTHLY REPORT

Section A – LFG Sulfur Compound Measurements during Reporting Period

The LFG sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.

Condition No. 5: Respondent shall sample, analyze, and record the landfill gas sulfur compounds combusted in each flare (as measured at sampling location FL-150 that is representative of the gas combusted in the flare under Permit G23473, A/N 491442) at least once each week using colorimetric tests for hydrogen sulfide (H2S) and at least once each week sample for analysis for total sulfur compounds as H2S using South Coast AQMD Method 307-91.

a. Respondent shall record South Coast AQMD Method 307-91 analysis upon receipt of laboratory analysis report. Each recorded measurement or result shall be documented with the time and date when the measurement or sample collection was conducted, and initialed by the personnel that conducted the measurement or sample collection.

b. Sulfur compound readings and analysis shall be reported to South Coast AQMD pursuant to Condition No. 8.

i. Tedlar bags used for Method 307-91 sampling and analysis shall not contain droplets or debris.

ii. Colorimetric tube readings shall be conducted by taking a reading from a Tedlar bag sample using an appropriate colorimetric tube sample collection pump. All sampling shall be performed in accordance with the operational manual for the colorimetric tube sample collection pump.

iii. Colorimetric tube readings shall use colorimetric tubes of appropriate concentration range and shall be reported as follows:

1. Respondent shall first use the estimated appropriately ranged colorimetric tube.

2. If the resulting reading reaches the upper concentration of the colorimetric tube concentration range, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a larger upper concentration threshold until the result is not the upper concentration threshold of the concentration range. Report the tube concentration range and tube concentration result for each reading.

3. If the reading results in the lower concentration of the colorimetric tube concentration range or does not register a result, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a smaller lower concentration threshold, if available, until the colorimetric tubes available to the facility result in:

a. A reading that is within the concentration range of the tube,

b. A reading is the lower concentration of the colorimetric tube concentration range, or

c. The colorimetric tube does not register a result.

4. When the result is the lower concentration of the colorimetric tube concentration range or does not register a result, the lower concentration of the colorimetric tube concentration shall be considered the concentration result. Report the tube concentration range and tube concentration result for each reading. If a lower range colorimetric tube is not used and the tube concentration result is below the lower range of the colorimetric tube used, Respondent shall report the result as "less than" or "<" the lower range value of the tube. Notwithstanding the forgoing, Respondent shall ensure that the colorimetric tube result is below the upper range of the colorimetric tube used and shall report the precise result of all results above the lowest range of the colorimetric tube used.

The lab analyses performed, and reports received for the reporting period that are required by Condition 5(a) are presented in **Attachment A**. This report includes analytical data sampled between October 1, 2023 and October 31, 2023. Tedlar bag samples were collected and analyzed by SCAQMD Method 307.91 for hydrogen sulfide and reduced sulfur compounds. The laboratory reports were received on October 5 and 21, 2023.

Weekly colorimetric tests (Draeger tube) samples required by Condition 5(b)(ii) and (iii) are identified in **Attachment E**.

A summary of the colorimetric tests and laboratory analyses for landfill gas (LFG) sulfur analyses is provided in the table below, covering the period of October 2023:

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
10/4/23	15	23.8	196	304.3
10/11/23	30	28.9	240	356.9
10/19/23	29	38.8	254	384
10/26/23	29	27.2	192	289.2
10/30/23	42	41.4	205	315.8

*Above summarized Lab analysis are included in **Attachment A** and **Attachment E**.

Section B – LFG Records and Calculations

The LFG records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

Condition No. 7: Respondent shall maintain a record of the following information, and provide such records to the South Coast AQMD pursuant to Condition No. 8:

a. The hourly and daily flow of landfill gas combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G23473, A/N 491442; flare No. 3 under A/N 624296), the thermal oxidizer (under Envent Corporation A/N 645484), and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility;

b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; and

c. The results of the sulfur readings, sampling, and analyses, calculated as H2S with the time and date when each measurement or sample collection was conducted.

The above-mentioned lab analyses required by Condition 7(c) are included in **Attachment A** and calculations are available in **Attachment B**.

In accordance with Condition 7(a), the flow rates for each flare as standard cubic feet per minute (scfm), scf per hour, and scf per day are provided in the calculation tables and the hourly and daily flow of LFG combusted for the thermal oxidizer are available in **Attachment B**.

In accordance with Condition 7(b), the daily flow of LFG not flared is available in **Attachment B**. Ameresco applied for a variance to operate the LFG turbine plant under a variance order, and its variance was approved on February 15th. Ameresco restarted operations on February 16th, returning the LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

Section C – Surface Emissions Monitoring

The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

Condition No. 9: Respondent shall collect integrated landfill surface samples for analysis across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1 Attachment A 2.0. In the event Respondent is unable to sample specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the sampling of the specific area(s) or grid(s).

a. The "Reaction Area" shall be defined initially by the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2. The boundary of the Reaction Area shall be modified to include the associated landfill surface area of the cells and modules that experience well temperatures of at least 170 degrees Fahrenheit, settlement, cracks in the landfill cover, presence and quantity of liquids, and the presence of hydrogen in the landfill gas. The DMS Committee (defined in Condition 12), shall transmit to the South Coast AQMD [attn: Baitong Chen,

bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] 1) the revised map which clearly displays the proposed boundary change(s) and depicts the new Reaction Area; 2) a narrative summary explaining the rationale behind the proposed changes, including memorializing any dissenting view of any member of the DMS Committee; and 3) any supporting data relied upon in the decision to revise the Reaction Area.

b. The DMS Committee shall review applicable data and shall consider revision to the Reaction Area as frequently as appropriate but shall make a determination about whether to revise the Reaction Area map at least once per month.

Condition No. 10: Respondent shall conduct instantaneous landfill surface monitoring across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1, Attachment A 3.0, beginning no later than seven (7) days after the issuance of this Order. In the event Respondent is unable to monitor specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the monitoring of the specific area(s) or grid(s).

- From the previous month, the integrated landfill surface sampling was completed on September 5, 6 and 19, 2023 resulting in exceedances on September 5 and 19, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on September 15 and September 29, 2023, respectively, and showed compliant readings except for five (5) readings on September 29, 2023.
    - A second 10-day corrective action and follow-up monitoring was completed for these five (5) exceedances on October 6, 2023, and showed compliant readings for two (2) out of the five (5) readings.
    - Three (3) grids have three (3) exceedances and therefore were in the 45-day timeframe for corrective action due by November 20, 2023. New vertical wells were installed on the West Slope within the 45-day timeframe and the monitoring on October 13, 2023 showed compliant readings for all three (3) exceedances.
- October's integrated landfill surface sampling was completed on October 3 and 17, 2023 resulting in exceedances on October 3 and 17, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on October 13 and October 17, 2023, respectively, and showed compliant readings except for one (1) reading on October 17, 2023.
    - A second 10-day corrective action and follow-up monitoring was completed for this exceedance on November 3, 2023, and showed compliant readings.

- From the previous month, the instantaneous landfill surface monitoring was conducted on September 13, 27 and 28, 2023, resulting in exceedances on September 13 and 27, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed on September 22, and October 6, 2023, and showed compliant readings except for fourteen (14) readings on October 6, 2023.
    - A second 10-day corrective action and follow-up monitoring was completed on October 13, 2023, and all fourteen (14) readings showed compliant readings.
    - The 1-month re-monitoring was conducted on October 11, 2023, for the initial readings on September 13, 2023. Two (2) readings showed exceedances, and therefore, a second set of 10-day readings were performed on October 20, 2023, showing compliant readings for both areas.
    - The second 1-month re-monitoring was conducted on November 9, 2023, showing compliant readings for the two (2) readings from October 11, 2023.
- October's instantaneous landfill surface monitoring was conducted on October 11 and 25, 2023, resulting in exceedances on October 11 and 25, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed on October 20, and November 3, 2023, and showed compliant readings.
    - The 1-month re-monitoring for the October 11 exceedances was conducted on November 9, 2023, and showed compliant readings.
    - The 1-month re-monitoring for the October 25 exceedances will be conducted in November 2023 and reported in the next monthly report.

The integrated landfill surface sample analysis and landfill surface monitoring readings are included in **Attachment C**.

<u>Section D – Schedule for Replacement or Refurbishment of Granular Activated Carbon Media</u>

Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

Condition No. 3: Respondent shall expedite, to the maximum extent feasible, replacement of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249), including the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System. Respondent shall ensure adequate stock of all odor control products and supplies are maintained on site.

The Landfill Gas Treatment System (LFGTS) currently consists of four carbon adsorber vessels. Only three of the four vessels are online during normal operations with one vessel offline awaiting servicing

to replace spent media or on standby with fresh granular activated carbon media. A vessel is typically serviced every 4 to 8 weeks. Colorimetric tests are performed on the outlet of the operating vessels approximately weekly to determine if a vessel may require an adjustment to the flow or schedule service to replace the media.

H2S vessels will be changed out at a lower concentration. At the start of the reporting period (October 1, 2023), all four vessels (ST-1, ST-2, ST-3 and ST-4) were online processing the landfill gas. Vessel ST-2 was only partially opened initially on September 28, 2023 to control the rise in temperature of the outlet gas and was fully opened on October 19, 2023. Vessel ST-3 was completely closed on October 27, 2023 in preparation of media replacement on October 30, 2023. Due to access issues around the LFGTS area for a new below grade header, the servicing of Vessel ST-3 was rescheduled to November 3 and 4, 2023. Three vessels (ST-1, ST-2 and ST-4) were online at the end of the reporting period (October 31, 2023). Media replacement occurred on November 3 and 4, 2023.

Section E – Description of Problems or Delays

> **Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).**

Due to an open trench by the LFGTS for the main header upgrade to increase flow capacity to the flare station and power plant, the media replacement service scheduled for October 30 and 31, 2023 was rescheduled to November 3 and 4, 2023. The area was regraded and access to the vessels was improved to allow the media replacement in vessel ST-3 to be completed.

Section F – Specifications of Equipment and Materials for Weekly Colorimetric Tests

> **Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).**

The weekly colorimetric tests are completed with the Draeger Accuro 64000 bellows hand pump with either Draeger hydrogen sulfide colorimetric tubes Model 6728821 (2 to 20 ppm) or Model CH29801 (5 to 60 ppm). The specifications of the equipment and materials used for the colorimetric test was included in the initial weekly variance report provided on February 13, 2023 in Case No. 6177-3, as required under the previous emergency variance. There has been no change in the specifications since the previous report submitted under the emergency variance.

Section G – Wellhead Temperature Readings

> **All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format**

Wellhead temperature readings for the past month are included in **Attachment D**. Lab analysis and Draeger tube readings for the past month are included in **Attachment A** and **Attachment E**, respectively.

Section H – Graphic Map

> A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.

A graphic map with the above information is included in **Attachment F**. **Attachment F** also includes a second map that highlights those wells with measured carbon monoxide concentrations above 1500 parts per million by volume (ppmv). Increased volume of gas is being extracted from elevated temperature wells located in the Reaction Area to help remove accumulated heat in the waste mass. Additionally, de-watering pumps have been installed in elevated temperature wells as needed to increase the available perforations in high heat wells to further increase gas extraction. The de-watering pumps also assist in removing heat by eliminating elevated temperature liquids from the waste.

Section I – Status of Vertical Liquid Impacted Landfill Gas Wells

> All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.
>
> > *Condition No. 17: Respondent shall expeditiously dewater wells being impacted by liquids, and shall take proactive measures to remove additional liquids in the Reaction Area to limit the reaction severity and spread. This shall be accomplished through the installation of dewatering sumps/pumps at 20 percent of the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area as determined by the DMS Committee within 60 days of the issuance of this Order, unless otherwise determined infeasible per Condition No. 17.a. below. Respondent shall provide updates in the monthly reports pursuant to Condition No. 8.*
> >
> > *a. In the event Respondent determines the installation of a dewatering sump/pump at a single landfill gas collection well to be infeasible, Respondent shall provide detailed rationale and reasoning in the monthly report submitted pursuant to Condition No. 8, and shall continue with implementation of the dewatering guidelines pursuant to Condition No. 18 to remove liquids to the maximum extent possible including to ensure installation across 20% of total landfill gas collection wells within the Reaction Area.*

Please note, SOFA Condition 8(i) references Condition No. 20, which is regarding the permit application for a new flare. Therefore, we believe this is the wrong reference and did not include it. Likely the correct reference is Condition No. 17, which requires CCL to expeditiously dewater wells being impacted by liquids. Condition No. 17 requires the DMS Committee to determine the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area by November 5, 2023. The DMS Committee determination was submitted to the SCAQMD on November 2, 2023, and is attached in **Attachment G**. As of November 2nd, CCL has installed pumps in 22 of the 25 wells determined to have the worst liquid impaction issues in the Reaction Area (88%) exceeding the requirements of 20%.

Section J – Status of Investigation for Alternate Sulfur Compound Treatment Systems

Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternatives sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

SCS investigated the availability and viability of alternative sulfur compound treatment systems that control, treat or remove dimethyl sulfide and other sulfur compounds. A preliminary list of alternative treatment systems is included below:

- Oxidation by Hypochlorite
- Oxidation by Peroxide
- Oxidation by Potassium Permanganate
- Bentonite or Zeolite Media Impregnated with Metal
- Reaction with Iron
- Reaction with Copper
- Biotreatment with Sulfur-Reducing Bacteria (SRBs)

A preliminary assessment of these treatment technologies was included in Attachment D of the February 27, 2023 status update report, submitted in compliance with the interim variance. These technologies will be further investigated, and updates will be included in subsequent reports.

In addition to the preliminary list of alternative treatment systems, SCS is investigating the use of a hydrogen re-former catalyst to convert all sulfur compounds to H_2S and oxidation by Sodium Hydroxide. A reaction with nickel alternative treatment has been investigated but is not a preferred alternative as heat is required. Bench testing of stronger oxidation scrubbing solutions is ongoing to convert DMS to Dimethylsulfoxide (DMSO).

Testing of Oxidation by Hypochlorite was completed early November 2023 using the liquid scrubbers with the temporary thermal oxidizer (TOX) located in the northwest area of the site. An update on the testing will be included in the next monthly report.

A separate application for the modification of the LFG treatment system and Title V Revision was submitted to the SCAQMD on February 27, 2023. SCAQMD requested additional information, which was submitted to SCAQMD on April 21, 2023.

On March 30, 2023, SCS submitted to SCAQMD an application for operation of slip stream pilot tests to evaluate these alternative treatment systems. SCAQMD requested additional information, which was to be provided to SCAQMD by June 30, 2023.

Additional information was submitted on August 14, 2023, however, on August 8, 2023, SCAQMD rejected the LFG Treatment System modification applications (A/N 643714 and 643715). Therefore, additional research is being conducted per SCAQMD and applications will be submitted if needed.

Section K – SCS's Implemented Improvements

A summary report on SCS's implemented improvements to the landfill gas collection system.

In October 2023, CCL installed a second rental TOX unit to increase the destruction capacity at the landfill. SCS installed eight (8) new vertical LFG extraction wells which were connected to either the existing Gas Collection and Control System (GCCS), or either of the TOX units. In addition, eight (8) new de-watering pumps were installed in new and/or existing wells to remove water in wells impacted by liquids, to increase LFG recovery. Construction of the new flare FL-120 was underway during October as part of increasing control capacity. The new flare was installed and operational on November 15, 2023, and CCL notified the SCAQMD on November 17, 2023.

Section L – Cover Inspections to the LFG Collection System

An inspection log for landfill cover inspections, pursuant to Condition No. 24.

> *Condition No. 24: Respondent shall visually inspect the landfill cover around the Reaction Area (as defined in Condition 9(a)) each operating day and shall promptly repair any cover issues identified, which may include adding and spreading soil, wetting, and retracking the damaged area. Respondent shall maintain a log demonstrating that it has addressed any damages to the landfill cover, including the date the damage was identified, the action taken to repair the damage, and the time at which the repair was completed. Results of the daily inspection and the repair log required by this condition shall be included in the monthly reports required pursuant to Condition No. 8.*

Routine cover inspections and repairs were performed and logged throughout the month of October 2023. Results of the daily inspection and the repair log are provided in the photos in Attachment H. Chiquita has a full-time operator that is responsible for repairing covers in the Reaction Area. These photos show areas where cracks in the cover were noted on the days that they were first observed. The cracks are repaired on an immediate and ongoing basis by the operator that makes such observations by tracking over the area and adding small amounts of water when necessary.

Section M – Subsequent Additions to the LFG Collection System

Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

> *Condition No. 15: Respondent shall continue to evaluate and install, as needed, vertical dual extraction wells to collect both landfill gas and leachate. Respondent shall continue to expand the well-field as needed, and notify South Coast AQMD by October 31, 2023 of the number of wells added, attention to Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov). Any subsequent additions to the well-field shall be documented in the monthly reports pursuant to Condition 8.*

In the month of October 2023, eight (8) additional vertical LFG extraction wells have been installed and are operational as of October 30, 2023. Expansion of the well field, including but not limited to additional vertical LFG extraction wells, header and lateral piping and associated valves, is on-going. Subsequent additions will be documented in these monthly reports.

Section N – Additions to the LFG Condensate or Leachate Collection System

Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

Condition No. 18: Respondent shall, in addition to the installation of dewatering sumps/pumps specified in Condition No. 17 above, within ninety (90) days of the issuance of this Order, provide proposed Reaction Area dewatering guidelines and implementation procedures for the landfill to South Coast AQMD (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov)) that include but are not limited to the following:

a. Proposed methodologies and monitoring procedures that determine the level of dewatering within the Reaction Area (as defined in Condition 9(a)) wells impacted by liquid. Methods may include the measurement of the gas flow at each landfill gas collection well impacted by liquids;

b. Use of dewatering pumps or other methods to remove liquids from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

c. An implementation plan for the use of dewatering pumps or other methods to remove liquids from the Reaction Area wells impacted by liquids. The plan shall include a list of wells in the Reaction Area and depth where liquids are expected to impact landfill gas collection efficacy or be a concern, the proposed action to remove the liquids, and the schedule for liquid removal. The implementation plan shall also include pro-active measures, such as additional dewatering pumps, to be installed at landfill gas collection wells where liquid impaction issues have not yet occurred, but may be expected to occur.

d. Upgrades to the site leachate collection system as needed, including through the addition of increased air compressor and/or drain line infrastructure;

e. Protocols for the pumping and monitoring of dewatering pumps and other such methods to remove water from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

f. Well field liquid sounding in the Reaction Area (as defined in Condition 9(a)), and a proposed schedule for conducting liquid sounding on a consistent basis;

g. A timeline for appropriate reporting on impacted wells;

h. The feasibility of integrity testing of all vertical gas wells in the Reaction Area (as defined in Condition 9(a)) and a timeline and protocol for addressing any wells that the integrity testing demonstrates are damaged or are exhibiting temperatures of at least 170 degrees Fahrenheit; and

> *i. A timeline for implementation of appropriate dewatering procedures upon discovery of wells impacted by liquids.*
>
> *The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented within seven (7) days of South Coast AQMD approval.*

Please note, SOFA Condition 8(n) references Condition No. 17, however, we believe the correct reference is Condition No. 18, which requires CCL to provide proposed Reaction Area dewatering guidelines and implementation procedures to SCAQMD by December 5, 2023.

The evaluation of vertical wells for the installation of dewatering pumps is ongoing. Prior to October 2023, there were thirty-one (31) active wells with dewatering pumps. In the month of October 2023, eight (8) additional de-watering pumps were installed in new wells bringing the total to thirty-nine (39) dewatering pump installations.

Section O – Updates of the Geosynthetic Cover

> Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.
>
> *Condition No. 25: Respondent shall install a geosynthetic cover over western portions of Module 2B/3/4 Phase 2, Module 2B/3, and Module 4 to limit the migration of landfill gas from the site. Respondent shall submit the completed design for the cover, which will provide greater definition to the cover location, including associated landfill gas extraction infrastructure to be installed underneath the cover, to the South Coast AQMD by September 12, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)). Respondent shall then obtain and install the geosynthetic cover material of at least 30 mil thickness. Respondent shall notify South Coast AQMD by October 31, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)) on the progress of procuring and installing the geosynthetic cover. Respondent shall include updates on the procurement and installation of the geosynthetic cover in the monthly reports pursuant to Condition 8.*

The completed design for the geosynthetic cover was submitted to SCAQMD on September 12, 2023, as required by Condition 25. South Coast AQMD was notified by October 31, 2023, on the progress of procuring and installing the geosynthetic cover. Future monthly reports will include updates on its procurement and installation.

CLOSING

If you have any questions or need any additional information, please contact Cornelius Fong of SCS Field Services at (562) 743-7895 or either of the undersigned at (800) 326-9544.

Sincerely,

James J. Kim
Senior Project Professional
SCS Engineers

Gabrielle F. Stephens
Project Director
SCS Engineers

JJK/GFS/PSS

Enclosures

cc: Cornelius Fong, SCS Engineers; Steve Cassulo, Chiquita Canyon Landfill
Enclosures

Attachment A

Lab Analyses from the Reporting Period

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: October 4, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: October 4, 2023
Date Received: October 4, 2023
Date Analyzed: October 4, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22773-6
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	23.8
Carbonyl sulfide	1.02
Methyl mercaptan	37.2
Ethyl mercaptan	0.84
Dimethyl sulfide	196
Carbon disulfide	<0.50
i-Propyl mercaptan	1.29
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.32
s-Butyl mercaptan	3.43
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.9
Tetrahydrothiophene	2.11
Unidentified sulfurs	20.0

(Concentration in ppmv, as H_2S)

Total Sulfur	304.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: October 4, 2023
Date Received: October 4, 2023
Date Analyzed: October 4, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	23.8	23.7	23.8	0.42
Carbonyl sulfide	FL-150	1.02	1.02	1.02	0.00
Methyl mercaptan	FL-150	37.1	37.3	37.2	0.54
Ethyl mercaptan	FL-150	0.84	0.83	0.84	1.2
Dimethyl sulfide	FL-150	196	195	196	0.51
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.33	1.25	1.29	6.2
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.39	3.24	3.32	4.5
s-Butyl mercaptan	FL-150	3.52	3.34	3.43	5.2
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	8.13	7.73	7.93	5.0
Tetrahydrothiophene	FL-150	2.14	2.08	2.11	2.8
Unidentified sulfurs	FL-150	20.5	19.5	20.0	4.9

One Tedlar bag sample, laboratory number 22773-6, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 2.8%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Antonio Ambriz)*	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150	Landfill Gas	22773.6	10/04/23	8:10am	X	Filtered

Relinquished by: *(Signature)*	**Date** 10/4/23 ~~5/31/23~~	**Time** 10:10 am ~~15:20pm~~	**Received by:** *(Signature)* S. Ferrer	**Date** 10-4-23	**Time** 10:10
Relinquished by: *(Signature)* S. Ferrer	**Date** 10/4/23	**Time** 11:11	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)* AtmAA	**Date** 10/4/23	**Time** 11:11

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
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FAX: (818) 223-8250

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: October 20, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: October 11, 2023
Date Received: October 11, 2023
Date Analyzed: October 11, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22843-5
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	28.9
Carbonyl sulfide	0.87
Methyl mercaptan	40.6
Ethyl mercaptan	0.80
Dimethyl sulfide	240
Carbon disulfide	<0.50
i-Propyl mercaptan	1.39
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.81
s-Butyl mercaptan	3.74
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.47
Tetrahydrothiophene	2.03
Unidentified sulfurs	19.9
	(Concentration in ppmv, as H_2S)
Total Sulfur	356.9

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: October 11, 2023
Date Received: October 11, 2023
Date Analyzed: October 11, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	29.6	28.2	28.9	4.8
Carbonyl sulfide	FL-150	0.84	0.90	0.87	6.9
Methyl mercaptan	FL-150	40.3	40.9	40.6	1.5
Ethyl mercaptan	FL-150	0.77	0.82	0.80	6.3
Dimethyl sulfide	FL-150	237	243	240	2.5
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.32	1.45	1.39	9.4
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.71	3.91	3.81	5.2
s-Butyl mercaptan	FL-150	3.58	3.89	3.74	8.3
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.04	7.90	7.47	12
Tetrahydrothiophene	FL-150	1.94	2.12	2.03	8.9
Unidentified sulfurs	FL-150	19.9	19.9	19.9	0.14

One Tedlar bag sample, laboratory number 22843-5, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 6.0%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS						Special Remarks
FL-150 INLET		22923-1	10/19/23	8:30							

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Fabian Chavez	10/19	9:35am			
Relinquished by: *(Signature)*	**Date**	**Time**	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)*	**Date**	**Time**
			AtmAA	10/19/23	9:34

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302
TEL: (818) 223-3277
FAX: (818) 223-8250

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: October 21, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: October 19, 2023
Date Received: October 19, 2023
Date Analyzed: October 19, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 22923-1
Sample I.D.: FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	38.8
Carbonyl sulfide	0.99
Methyl mercaptan	36.6
Ethyl mercaptan	0.71
Dimethyl sulfide	254
Carbon disulfide	<0.50
i-Propyl mercaptan	1.34
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	4.06
s-Butyl mercaptan	3.95
i-Butyl mercaptan	<0.50
Dimethyl disulfide	9.86
Tetrahydrothiophene	2.27
Unidentified sulfurs	21.7

(Concentration in ppmv, as H_2S)

Total Sulfur	384.0

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: October 19, 2023
Date Received: October 19, 2023
Date Analyzed: October 19, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	38.9	38.6	38.8	0.77
Carbonyl sulfide	FL-150	0.98	0.99	0.99	1.0
Methyl mercaptan	FL-150	37.2	35.9	36.6	3.6
Ethyl mercaptan	FL-150	0.71	0.70	0.71	1.4
Dimethyl sulfide	FL-150	252	256	254	1.6
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.35	1.32	1.34	2.2
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	4.11	4.00	4.06	2.7
s-Butyl mercaptan	FL-150	3.99	3.90	3.95	2.3
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	10.0	9.72	9.86	2.8
Tetrahydrothiophene	FL-150	2.32	2.22	2.27	4.4
Unidentified sulfurs	FL-150	21.9	21.4	21.7	2.2

One Tedlar bag sample, laboratory number 22923-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 2.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature) Eric Castro	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150	Landfill Gas	22843-5	10/11/23	9:32AM	X	Filtered/ H2S 30ppm
					X	

	Date	Time		Date	Time
Relinquished by: (Signature) Eric Castro	10/11/23	10:07AM	**Received by: (Signature)** LUIS FARFAN	10/11/23	10:05
Relinquished by: (Signature) LUIS FARFAN	10/11/23	10:58	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)** AtmAA	10/11/23	10:58

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	November 15, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	October 26, 2023
Date Received:	October 26, 2023
Date Analyzed:	October 26, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	22993-8
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	27.2
Carbonyl sulfide	0.89
Methyl mercaptan	26.1
Ethyl mercaptan	0.63
Dimethyl sulfide	192
Carbon disulfide	<0.50
i-Propyl mercaptan	1.10
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.93
s-Butyl mercaptan	3.17
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.00
Tetrahydrothiophene	1.67
Unidentified sulfurs	20.1
	(Concentration in ppmv, as H_2S)
Total Sulfur	289.2

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: October 26, 2023
Date Received: October 26, 2023
Date Analyzed: October 26, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	26.8	27.6	27.2	2.9
Carbonyl sulfide	FL-150	0.86	0.91	0.89	5.6
Methyl mercaptan	FL-150	25.2	26.9	26.1	6.5
Ethyl mercaptan	FL-150	0.58	0.68	0.63	16
Dimethyl sulfide	FL-150	196	187	192	4.7
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.11	1.09	1.10	1.8
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.96	2.89	2.93	2.4
s-Butyl mercaptan	FL-150	3.13	3.20	3.17	2.2
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	7.00	7.00	7.00	0.00
Tetrahydrothiophene	FL-150	1.67	1.66	1.67	0.60
Unidentified sulfurs	FL-150	20.8	19.4	20.1	6.5

One Tedlar bag sample, laboratory number 22993-8, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 4.5%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: (Signature)	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150 INLET	Landfill Gas	22992-8	10-26-23	9:30am	X	Filtered 29 ppm

Relinquished by: (Signature) Fabian Chavez	**Date** 10-26-23	**Time** 10:21am	**Received by: (Signature)**	**Date** 10/26/23	**Time** 10:21 AM
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)**	**Date** 10.26.23	**Time** 11:50

Company Info:		Send Report to:	
Company:	SCS Engineers	**Company:**	SCS Engineers
Street Address	3900 Kilroy Airport Way Suite 100	**Street Address**	3900 Kilroy Airport Way Suite 100
City/State/Zip:	Long Beach / CA / 90806	**City/State/Zip:**	Long Beach / CA / 90806
Telephone No.:	562-743-7895 /562-335-0002	**Project Manager:**	Cornelius Fong
Fax No.:		**Email Address:**	CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
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AtmAA Inc.
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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	November 15, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	October 30, 2023
Date Received:	October 30, 2023
Date Analyzed:	October 30, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23033-1
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	41.4
Carbonyl sulfide	0.93
Methyl mercaptan	37.5
Ethyl mercaptan	0.76
Dimethyl sulfide	205
Carbon disulfide	<0.50
i-Propyl mercaptan	1.25
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.81
s-Butyl mercaptan	3.34
i-Butyl mercaptan	<0.50
Dimethyl disulfide	4.64
Tetrahydrothiophene	1.76
Unidentified sulfurs	12.4
	(Concentration in ppmv, as H_2S)
Total Sulfur	315.8

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: October 30, 2023
Date Received: October 30, 2023
Date Analyzed: October 30, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	39.5	43.2	41.4	8.9
Carbonyl sulfide	FL-150	0.91	0.95	0.93	4.3
Methyl mercaptan	FL-150	35.5	39.5	37.5	11
Ethyl mercaptan	FL-150	0.69	0.82	0.76	17
Dimethyl sulfide	FL-150	201	208	205	3.4
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.20	1.30	1.25	8.0
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	2.82	2.80	2.81	0.71
s-Butyl mercaptan	FL-150	3.32	3.35	3.34	0.90
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	4.64	4.64	4.64	0.00
Tetrahydrothiophene	FL-150	1.78	1.74	1.76	2.3
Unidentified sulfurs	FL-150	12.5	12.2	12.4	2.6

One Tedlar bag sample, laboratory number 23033-1, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 5.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature) Christian Villagomez	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-150 INLET	Landfill gas	23033-1	10/30/23	8:45am	X						Filtered ~~Y2~~ N

Relinquished by: (Signature) Fabian Chavez	**Date** 10/30/23	**Time** 9:06am	**Received by: (Signature)** LUIS FARFAN	**Date** 10/30/23	**Time** 9:10AM
Relinquished by: (Signature) LUIS FARFAN	**Date** 10/30/23	**Time** 11:47	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)** AtmAA	**Date** 10/30/23	**Time** 11:47

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	**Company:**	SCS Engineers	**AtmAA Inc.**
Street Address	3900 Kilroy Airport Way Suite 100	**Street Address**	3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip:	Long Beach / CA / 90806	**City/State/Zip:**	Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.:	562-743-7895 /562-335-0002	**Project Manager:**	Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:		**Email Address:**	CFong@scsengineers.com	**FAX: (818) 223-8250**

Attachment B

Calculations

Chiquita Canyon Landfill
Total Emissions
Monthly Report Period: October 2023

	Flare No. 1 John Zink (FL-150)				Flare No. 2 John Zink (Zule) (FL-100)				Envent Thermal Oxidizer (TOx)	All Control Devices (Flare No. 1, Flare No. 2, TOx)			Lab Analysis Total Reduced Sulfur as H2S (ppmv)
Date	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total Flow Rate (scfm)	Total Flow Rate (scf/hr)	
10/1/2023	4,862,102	24.00	3,376	202,588	5,454,517	24.00	3,788	227,272	2,158,560	12,475,179	8,663	519,799	--
10/2/2023	4,865,086	23.27	3,379	202,712	5,284,274	24.00	3,670	220,178	2,151,065	12,300,424	8,542	512,518	--
10/3/2023	5,127,888	24.00	3,561	213,662	5,186,151	24.00	3,601	216,090	2,095,640	12,409,679	8,618	517,070	--
10/4/2023	5,230,144	24.00	3,632	217,923	5,310,973	24.00	3,688	221,291	2,152,800	12,693,916	8,815	528,913	304
10/5/2023	5,259,104	24.00	3,652	219,129	5,400,854	24.00	3,751	225,036	2,152,800	12,812,758	8,898	533,865	--
10/6/2023	5,016,050	23.32	3,483	209,002	5,123,783	23.00	3,558	213,491	2,152,800	12,292,633	8,537	512,193	--
10/7/2023	4,859,610	22.77	3,375	202,484	5,380,636	24.00	3,737	224,193	2,152,800	12,393,046	8,606	516,377	--
10/8/2023	5,293,808	24.00	3,676	220,575	5,462,582	24.00	3,793	227,608	2,097,010	12,853,399	8,926	535,558	--
10/9/2023	5,380,187	24.00	3,736	224,174	5,430,592	24.00	3,771	226,275	2,105,215	12,915,993	8,969	538,166	--
10/10/2023	5,446,086	24.00	3,782	226,920	5,377,591	24.00	3,734	224,066	2,093,000	12,916,677	8,970	538,195	--
10/11/2023	5,355,216	23.88	3,719	223,134	5,142,551	23.07	3,571	214,273	2,152,800	12,650,567	8,785	527,107	357
10/12/2023	5,291,437	24.00	3,675	220,477	5,027,105	22.17	3,491	209,463	2,152,800	12,471,342	8,661	519,639	--
10/13/2023	5,128,332	24.00	3,561	213,681	5,462,304	24.00	3,793	227,596	1,696,825	12,287,461	8,533	511,978	--
10/14/2023	4,991,390	24.00	3,466	207,975	5,316,818	24.00	3,692	221,534	2,100,475	12,408,683	8,617	517,028	--
10/15/2023	4,970,936	24.00	3,452	207,122	5,362,044	24.00	3,724	223,418	2,152,800	12,485,779	8,671	520,241	--
10/16/2023	5,020,451	24.00	3,486	209,185	5,464,506	24.00	3,795	227,688	2,152,800	12,637,756	8,776	526,573	--
10/17/2023	5,099,072	24.00	3,541	212,461	5,247,369	23.22	3,644	218,640	2,152,800	12,499,241	8,680	520,802	--
10/18/2023	5,091,761	23.12	3,536	212,157	5,273,301	23.30	3,662	219,721	2,152,800	12,517,861	8,693	521,578	--
10/19/2023	5,204,039	24.00	3,614	216,835	5,419,838	24.00	3,764	225,827	2,152,800	12,776,677	8,873	532,362	384
10/20/2023	5,118,182	23.22	3,554	213,258	5,272,473	23.42	3,661	219,686	2,154,120	12,544,774	8,712	522,699	--
10/21/2023	5,332,135	24.00	3,703	222,172	5,432,877	24.00	3,773	226,370	2,134,755	12,899,767	8,958	537,490	--
10/22/2023	4,339,502	22.38	3,014	180,813	5,038,382	24.00	3,499	209,933	2,152,800	11,530,684	8,007	480,445	--
10/23/2023	4,588,846	24.00	3,187	191,202	5,017,200	24.00	3,484	209,050	2,152,800	11,758,845	8,166	489,952	--
10/24/2023	4,497,645	24.00	3,123	187,402	4,998,767	24.00	3,471	208,282	2,130,375	11,626,787	8,074	484,449	--
10/25/2023	3,812,687	20.45	2,648	158,862	5,002,974	23.65	3,474	208,457	2,152,800	10,968,461	7,617	457,019	--
10/26/2023	5,113,504	24.00	3,551	213,063	5,177,496	24.00	3,595	215,729	1,897,155	12,188,155	8,464	507,840	289
10/27/2023	5,177,402	24.00	3,595	215,725	5,209,188	24.00	3,617	217,049	2,152,800	12,539,389	8,708	522,475	--
10/28/2023	5,062,967	24.00	3,516	210,957	5,140,277	24.00	3,570	214,178	2,152,800	12,356,044	8,581	514,835	--
10/29/2023	5,018,948	24.00	3,485	209,123	5,065,611	24.00	3,518	211,067	1,974,390	12,058,949	8,374	502,456	--
10/30/2023	5,075,104	24.00	3,524	211,463	5,160,024	24.00	3,583	215,001	2,152,800	12,387,928	8,603	516,164	316
10/31/2023	5,120,524	24.00	3,556	213,355	5,288,325	24.00	3,672	220,347	2,152,800	12,561,648	8,723	523,402	--

*Flare Flow and Runtime from chart recorder data. Total consists of Flare No. 1 and Flare No. 2. Ameresco's variance was approved on February 15th and Ameresco began operations on February 16th.

*Date of lab data based on date sampled.

Chiquita Canyon Landfill
LFG Not Combusted
Monthly Report Period: October 2023

Date	Flare 1, 2, TOx Total Flow Rate (scf/day)	2022 Baseline Flow Rate (scf/day)	LFG Not Combusted (scf/day)[1]	Ameresco LFG Processed (scf/day)[2]	LFG Not Combusted (scfm)
10/1/2023	12,475,179	--	--	5,567,717	--
10/2/2023	12,300,424	--	--	5,546,498	--
10/3/2023	12,409,679	--	--	5,563,171	--
10/4/2023	12,693,916	--	--	5,529,835	--
10/5/2023	12,812,758	--	--	5,558,709	--
10/6/2023	12,292,633	--	--	5,512,589	--
10/7/2023	12,393,046	--	--	5,474,180	--
10/8/2023	12,853,399	--	--	5,484,974	--
10/9/2023	12,915,993	--	--	3,944,454	--
10/10/2023	12,916,677	--	--	2,403,135	--
10/11/2023	12,650,567	--	--	4,283,965	--
10/12/2023	12,471,342	--	--	5,816,384	--
10/13/2023	12,287,461	--	--	5,370,168	--
10/14/2023	12,408,683	--	--	5,932,743	--
10/15/2023	12,485,779	--	--	5,490,741	--
10/16/2023	12,637,756	--	--	1,657,195	--
10/17/2023	12,499,241	--	--	2,946,328	--
10/18/2023	12,517,861	--	--	3,107,778	--
10/19/2023	12,776,677	--	--	4,012,954	--
10/20/2023	12,544,774	--	--	5,586,864	--
10/21/2023	12,899,767	--	--	5,886,807	--
10/22/2023	11,530,684	--	--	5,973,147	--
10/23/2023	11,758,845	--	--	5,957,299	--
10/24/2023	11,626,787	--	--	5,918,337	--
10/25/2023	10,968,461	--	--	5,439,612	--
10/26/2023	12,188,155	--	--	5,999,856	--
10/27/2023	12,539,389	--	--	5,970,026	--
10/28/2023	12,356,044	--	--	5,904,990	--
10/29/2023	12,058,949	--	--	5,965,100	--
10/30/2023	12,387,928	--	--	5,935,460	--
10/31/2023	12,561,648	--	--	5,866,568	--
Total/Average					**--**

[1]Total LFG not combusted is calculated based on the difference from total flow rate from all control devices from 2022 (baseline) and flow rate from Flare 1 and 2 during the reporting period. Ameresco applied for variance to operate the LFG turbine plant under a variance order, and their variance was approved on February 15th. Ameresco restarted operations on February 16th, returning LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

[2]Actual Ameresco LFG flow rate after restarting operations are greater than the unflared amount while Ameresco was off-line. Therefore, there are no unflared gas in October 2023.

*Flare Flow and Runtime from chart recorder data.

*Date of lab data based on date sampled.

2022 Baseline Flow Rate			
Devices	**Total Flow (scf)**	**Flow Rate (scf/day)**	**Flow Rate (scfm)**
Flare No. 1	1,380,940,025	3,783,397	2,627
Flare No. 2	1,386,138,034	3,797,638	2,637
LFGTE Facility	1,584,198,413	4,340,270	3,014
Total	**4,351,276,471**	**11,921,305**	**8,279**

*Flare flow from chart recorder data. LFGTE Facility flow from Ameresco.

Attachment C

Surface Emissions Monitoring

2023 Chiquita Surface Emissions Exceedance

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
Integrated (Monthly)															
1/13/23, 1/20/23, 1/21/23 (no exceedances)															
2/1/23, 2/4/23, 2/13/23, 2/21/23 (no exceedances)															
175	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	68	Moisture Condition, Soil/Dirt Compaction	3/13/2023	48	Moisture Condition, Soil/Dirt Compaction	3/24/2023	20	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	9
182	2/21/2023	80	Moisture Condition, Soil/Dirt Compaction	3/3/2023	51	Moisture Condition, Soil/Dirt Compaction	3/13/2023	52	Moisture Condition, Soil/Dirt Compaction	3/24/2023	18	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	8
200	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	72	Moisture Condition, Soil/Dirt Compaction	3/13/2023	56	Moisture Condition, Soil/Dirt Compaction	3/24/2023	22	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	17
202	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	45	Moisture Condition, Soil/Dirt Compaction	3/13/2023	19	NA	NA	NA				
190	3/9/2023	39	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
191	3/9/2023	29	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.63	NA	NA	NA				
192	3/9/2023	41	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
193	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.77	NA	NA	NA				
189	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
188	3/9/2023	38	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.64	NA	NA	NA				
187	3/9/2023	40	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
186	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	13.91	NA	NA	NA				
182	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.7	NA	NA	NA				
183	3/9/2023	48	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.24	NA	NA	NA				
184	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
200	3/9/2023	45	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
181	3/9/2023	34	Moisture Condition, Soil/Dirt Compaction	3/17/2023	21	NA	NA	NA	NA	NA	NA				
180	3/9/2023	49	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
139	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
201	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	17	NA	NA	NA	NA	NA	NA				
175	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
176	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	38	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.49	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	42	Moisture Condition, Soil/Dirt Compaction	3/27/2023	60.04	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	17
202	3/9/2023	54	Moisture Condition, Soil/Dirt Compaction	3/17/2023	36	Moisture Condition, Soil/Dirt Compaction	3/27/2023	30.99	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
174	3/9/2023	60	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
173	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	28	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.75	NA	NA	NA				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	40	Moisture Condition, Soil/Dirt Compaction	3/27/2023	58.78	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	13
203	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	20	NA	NA	NA	NA	NA	NA				
169	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	37	Moisture Condition, Soil/Dirt Compaction	3/27/2023	16.2	NA	NA	NA				
207	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	22	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	55.11	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	14
168	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.65	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
202	3/9/2023	59	Moisture Condition, Soil/Dirt Compaction	3/17/2023	46	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
204	3/27/2023	55	Moisture Condition, Soil/Dirt Compaction	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
203	3/27/2023	52	Moisture Condition, Soil/Dirt Compaction	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA				
207	3/27/2023	50	Moisture Condition, Soil/Dirt Compaction	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA				
206	3/27/2023	58	Moisture Condition, Soil/Dirt Compaction	4/4/2023	18	NA	NA	NA	NA	NA	NA				
205	3/27/2023	60	Moisture Condition, Soil/Dirt Compaction	4/4/2023	16	NA	NA	NA	NA	NA	NA				
175	3/27/2023	49	Moisture Condition, Soil/Dirt Compaction	4/4/2023	13	NA	NA	NA	NA	NA	NA				
202	3/27/2023	30	Moisture Condition, Soil/Dirt Compaction	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
202	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
203	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA	NA	NA	NA				
204	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
207	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA	NA	NA	NA				
174	4/17/2023	40	Moisture Condition, Soil/Dirt Compaction	4/27/2023	22	NA	NA	NA	NA	NA	NA				
190	4/17/2023	26	Moisture Condition, Soil/Dirt Compaction	4/27/2023	17	NA	NA	NA	NA	NA	NA				
200	4/17/2023	25	Moisture Condition, Soil/Dirt Compaction	4/27/2023	19	NA	NA	NA	NA	NA	NA				
207	5/1/2023	54	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
210	5/1/2023	26	Moisture Condition, Soil/Dirt Compaction	5/10/2023	19	NA	NA	NA	NA	NA	NA				
202	5/1/2023	29	Moisture Condition, Soil/Dirt Compaction	5/10/2023	21	NA	NA	NA	NA	NA	NA				
208	5/1/2023	43	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
201	5/17/2023	30	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
205	5/17/2023	26	Moisture Condition, Soil/Dirt Compaction	5/26/2023	19	NA	NA	NA	NA	NA	NA				
203	5/17/2023	27	Moisture Condition, Soil/Dirt Compaction	5/26/2023	21	NA	NA	NA	NA	NA	NA				
169	5/17/2023	25	Moisture Condition, Soil/Dirt Compaction	5/26/2023	18	NA	NA	NA	NA	NA	NA				
173	5/17/2023	35	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
206	5/30/2023	36	Moisture Condition, Soil/Dirt Compaction	6/9/2023	19	NA	NA	NA	NA	NA	NA				
170	5/30/2023	95	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17	NA	NA	NA	NA	NA	NA				
172	5/30/2023	28	Moisture Condition, Soil/Dirt Compaction	6/9/2023	18	NA	NA	NA	NA	NA	NA				
151	5/30/2023	83	Moisture Condition, Soil/Dirt Compaction	6/9/2023	22	NA	NA	NA	NA	NA	NA				
181	5/30/2023	30	Moisture Condition, Soil/Dirt Compaction	6/9/2023	21	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
172	6/13/2023	30	Moisture Condition, Soil/Dirt Compaction	6/22/2023	19	NA	NA	NA	NA	NA	NA				
179	6/13/2023	25	Moisture Condition, Soil/Dirt Compaction	6/22/2023	10	NA	NA	NA	NA	NA	NA				
156	6/13/2023	27	Moisture Condition, Soil/Dirt Compaction	6/22/2023	21	NA	NA	NA	NA	NA	NA				
177	6/13/2023	120	Moisture Condition, Soil/Dirt Compaction	6/22/2023	23	NA	NA	NA	NA	NA	NA				
176	6/27/2023	40	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23	NA	NA	NA	NA	NA	NA				
179	6/27/2023	35	Moisture Condition, Soil/Dirt Compaction	7/7/2023	21	NA	NA	NA	NA	NA	NA				
172	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19	NA	NA	NA	NA	NA	NA				
173	6/27/2023	27	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24	NA	NA	NA	NA	NA	NA				
169	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20	NA	NA	NA	NA	NA	NA				
179	7/10/2023	50	Moisture Condition, Soil/Dirt Compaction	7/20/2023	55	Moisture Condition, Soil/Dirt Compaction	7/28/2023	36	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	24
173	7/10/2023	35	Moisture Condition, Soil/Dirt Compaction	7/20/2023	53	Moisture Condition, Soil/Dirt Compaction	7/28/2023	29	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	23
205	7/10/2023	27	Moisture Condition, Soil/Dirt Compaction	7/20/2023	168	Moisture Condition, Soil/Dirt Compaction	7/28/2023	60	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	21
203	7/10/2023	25	Moisture Condition, Soil/Dirt Compaction	7/20/2023	152	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	19
174	7/24/2023	32	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
175	7/24/2023	45	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
205	8/8/2023	74	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
206	8/8/2023	38	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
169	8/8/2023	27	Moisture Condition, Soil/Dirt Compaction	8/17/2023	21	NA	NA	NA	NA	NA	NA				
170	8/8/2023	29	Moisture Condition, Soil/Dirt Compaction	8/17/2023	22	NA	NA	NA	NA	NA	NA				
175	8/8/2023	30	Moisture Condition, Soil/Dirt Compaction	8/17/2023	19	NA	NA	NA	NA	NA	NA				
206	8/24/2023	120	Moisture Condition, Soil/Dirt Compaction	9/1/2023	377	Moisture Condition, Soil/Dirt Compaction	9/8/2023	23	NA	NA	NA				
176	8/24/2023	76	Moisture Condition, Soil/Dirt Compaction	9/1/2023	210	Moisture Condition, Soil/Dirt Compaction	9/5/2023	13	NA	NA	NA				
175	8/24/2023	68	Moisture Condition, Soil/Dirt Compaction	9/1/2023	380	Moisture Condition, Soil/Dirt Compaction	9/5/2023	11	NA	NA	NA				
174	8/24/2023	28	Moisture Condition, Soil/Dirt Compaction	9/1/2023	406	Moisture Condition, Soil/Dirt Compaction	9/5/2023	15	NA	NA	NA				
202	8/24/2023	31	Moisture Condition, Soil/Dirt Compaction	9/1/2023	220	Moisture Condition, Soil/Dirt Compaction	9/5/2023	19	NA	NA	NA				
201	8/24/2023	48	Moisture Condition, Soil/Dirt Compaction	9/1/2023	230	Moisture Condition, Soil/Dirt Compaction	9/5/2023	18	NA	NA	NA				
181	8/24/2023	29	Moisture Condition, Soil/Dirt Compaction	9/1/2023	180	Moisture Condition, Soil/Dirt Compaction	9/5/2023	17	NA	NA	NA				
207	9/5/2023	26	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.7	NA	NA	NA	NA	NA	NA				
206	9/5/2023	31	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.9	NA	NA	NA	NA	NA	NA				
205	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.7	NA	NA	NA	NA	NA	NA				
169	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.5	NA	NA	NA	NA	NA	NA				
166	9/5/2023	29	Moisture Condition, Soil/Dirt Compaction	9/15/2023	8.0	NA	NA	NA	NA	NA	NA				
154	9/5/2023	28	Moisture Condition, Soil/Dirt Compaction	9/15/2023	7.0	NA	NA	NA	NA	NA	NA				
167	9/19/2023	40	Moisture Condition, Soil/Dirt Compaction	9/29/2023	12.1	NA	NA	NA	NA	NA	NA				
202	9/19/2023	27	Moisture Condition, Soil/Dirt Compaction	9/29/2023	127.0	Moisture Condition, Soil/Dirt Compaction	10/6/2023	43.6	Moisture Condition, Soil/Dirt Compaction	10/13/2023	16	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	16
205	9/19/2023	25	Moisture Condition, Soil/Dirt Compaction	9/29/2023	63.8	Moisture Condition, Soil/Dirt Compaction	10/6/2023	26.9	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	24
204	9/19/2023	28	Moisture Condition, Soil/Dirt Compaction	9/29/2023	44.4	Moisture Condition, Soil/Dirt Compaction	10/6/2023	12.1	NA	NA	NA				
174	9/19/2023	31	Moisture Condition, Soil/Dirt Compaction	9/29/2023	32.9	Moisture Condition, Soil/Dirt Compaction	10/6/2023	29.2	Moisture Condition, Soil/Dirt Compaction	10/13/2023	12	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	12
170	9/19/2023	35	Moisture Condition, Soil/Dirt Compaction	9/29/2023	25.5	Moisture Condition, Soil/Dirt Compaction	10/6/2023	19.6	NA	NA	NA				
201/79	10/3/2023	79	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.5	NA	NA	NA	NA	NA	NA				
202/60	10/3/2023	60	Moisture Condition, Soil/Dirt Compaction	10/13/2023	18.2	NA	NA	NA	NA	NA	NA				
203/37	10/3/2023	37	Moisture Condition, Soil/Dirt Compaction	10/13/2023	19.6	NA	NA	NA	NA	NA	NA				
174/35	10/3/2023	35	Moisture Condition, Soil/Dirt Compaction	10/13/2023	13.3	NA	NA	NA	NA	NA	NA				
169/36	10/3/2023	36	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.4	NA	NA	NA	NA	NA	NA				
170/27	10/3/2023	27	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.2	NA	NA	NA	NA	NA	NA				
206/25	10/3/2023	25	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23	NA	NA	NA	NA	NA	NA				
205/26	10/3/2023	26	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24	NA	NA	NA	NA	NA	NA				
158/145	10/17/2023	145	Moisture Condition, Soil/Dirt Compaction	10/17/2023	12.72	NA	NA	NA	NA	NA	NA				
152/150	10/17/2023	150	Moisture Condition, Soil/Dirt Compaction	10/17/2023	13.82	NA	NA	NA	NA	NA	NA				
206/30	10/17/2023	30	Moisture Condition, Soil/Dirt Compaction	10/17/2023	33.22	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23	NA	NA	NA				
204/29	10/17/2023	29	Moisture Condition, Soil/Dirt Compaction	10/17/2023	18.35	NA	NA	NA	NA	NA	NA				
201/27	10/17/2023	27	Moisture Condition, Soil/Dirt Compaction	10/17/2023	24.50	NA	NA	NA	NA	NA	NA				
202/25	10/17/2023	25	Moisture Condition, Soil/Dirt Compaction	10/17/2023	22.10	NA	NA	NA	NA	NA	NA				
177/151	11/1/2023	151	Moisture Condition, Soil/Dirt Compaction	11/10/2023	24.50	NA	NA	NA	NA	NA	NA				
203/179	11/1/2023	179	Moisture Condition, Soil/Dirt Compaction	11/10/2023	21.95	NA	NA	NA	NA	NA	NA				
206/31	11/1/2023	31	Moisture Condition, Soil/Dirt Compaction	11/10/2023	24.30	NA	NA	NA	NA	NA	NA				
207/28	11/1/2023	28	Moisture Condition, Soil/Dirt Compaction	11/10/2023	23.21	NA	NA	NA	NA	NA	NA				
205/40	11/1/2023	40	Moisture Condition, Soil/Dirt Compaction	11/10/2023	22.71	NA	NA	NA	NA	NA	NA				
176/63	11/14/2023	63													
177/43	11/14/2023	43													
202/115	11/14/2023	115													
174/64	11/14/2023	64													
206/35	11/14/2023	35													
169/28	11/14/2023	28													
170/31	11/14/2023	31													
Instantaneous (Monthly)															
201/Y1	1/25/2023	700	Moisture Condition, Soil/Dirt Compaction	2/2/2023	263	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	358				
205/Y21	1/25/2023	764	Moisture Condition, Soil/Dirt Compaction	2/2/2023	194	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	299				
214/Y22	1/25/2023	802	Moisture Condition, Soil/Dirt Compaction	2/2/2023	299	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	106				
214/Y23	1/25/2023	998	Moisture Condition, Soil/Dirt Compaction	2/2/2023	157	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	110				
202/Y41	1/25/2023	3,028	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	458				
202/Y42	1/25/2023	4,263	Moisture Condition, Soil/Dirt Compaction	2/2/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	406				
215/Y43	1/25/2023	6,519	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	398				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
215/Y44	1/25/2023	963	Moisture Condition, Soil/Dirt Compaction	2/2/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	164				
203/Y61	1/25/2023	4,652	Moisture Condition, Soil/Dirt Compaction	2/2/2023	409	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	410				
203/Y62	1/25/2023	778	Moisture Condition, Soil/Dirt Compaction	2/2/2023	54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	68				
203/Y63	1/25/2023	2,465	Moisture Condition, Soil/Dirt Compaction	2/2/2023	479	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	94				
211/Y63	1/25/2023	1,237	Moisture Condition, Soil/Dirt Compaction	2/2/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	123				
201/Y21	2/23/2023	2,169	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	185	Moisture Condition, Soil/Dirt Compaction	3/24/2023	121				
175/Y22	2/23/2023	964	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	1300	Moisture Condition, Soil/Dirt Compaction	3/24/2023	484	4/27/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 4/17/23	10
175/Y23	2/23/2023	3,654	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,500	Moisture Condition, Soil/Dirt Compaction	3/13/2023	100	Moisture Condition, Soil/Dirt Compaction	3/24/2023	100				
202/Y41	2/23/2023	36,201	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,250	Moisture Condition, Soil/Dirt Compaction	3/13/2023	638	Moisture Condition, Soil/Dirt Compaction	3/24/2023	235	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y42	2/23/2023	1,678	Moisture Condition, Soil/Dirt Compaction	3/3/2023	2,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	836	Moisture Condition, Soil/Dirt Compaction	3/24/2023	441	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y43	2/23/2023	843	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,505	Moisture Condition, Soil/Dirt Compaction	3/13/2023	190	Moisture Condition, Soil/Dirt Compaction	3/24/2023	398				
169/Y61	2/23/2023	15,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	9,999	Moisture Condition, Soil/Dirt Compaction	3/13/2023	720	Moisture Condition, Soil/Dirt Compaction	3/24/2023	215	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	17
208/Y121	2/23/2023	1,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	685	Moisture Condition, Soil/Dirt Compaction	3/13/2023	135	Moisture Condition, Soil/Dirt Compaction	3/24/2023	380				
208/Y122	2/23/2023	1,200	Moisture Condition, Soil/Dirt Compaction	3/3/2023	950	Moisture Condition, Soil/Dirt Compaction	3/13/2023	580	Moisture Condition, Soil/Dirt Compaction	3/24/2023	291	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	23
207/Y1	3/31/2023	900	Moisture Condition, Soil/Dirt Compaction	4/10/2023	22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	37				
207/Y2	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	129				
202/Y3	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	98				
201/Y4	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	209				
175/Y5	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	461	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	162				
178/Y11	3/31/2023	2,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	199				
179/Y12	3/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	4/10/2023	15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	143				
175/Y13	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	425	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	398				
174/Y14	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	82				
174/Y15	3/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	4/10/2023	300	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	283				
202/Y16	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	373	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	112				
203/Y27	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	218	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	316				
203/Y18	3/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	4/10/2023	68.88	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	152				
204/Y19	3/31/2023	500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	27.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	30				
204/Y20	3/31/2023	520	Moisture Condition, Soil/Dirt Compaction	4/10/2023	173	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	23				
H-1952C	4/6/2023	1,500	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	397	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	247				
H-1754N	4/6/2023	1,000	Increased applied vacuum with higher system vacuum. Adjusted well H-1773B. Added new soil and compacted area.	4/14/2023	419	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301				
H-1964C	4/6/2023	550	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	242	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256				
L-32	4/6/2023	1,100	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	320	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	283				
D-180	4/6/2023	4,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	272	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	194				
H-1962S	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	252	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	271				
H-2116W	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	438	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	406				
H-1773B	4/6/2023	700	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	386	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	382				
H-1965AR	4/6/2023	7,000	Reconnected H-1758S on 4/13/23 and applied vacuum. Added new soil and compacted around well casing.	4/14/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	138				
CV-2201	4/6/2023	543	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	266	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	44				
H-1963A	4/6/2023	951	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	342	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	203				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
H-1966S	4/6/2023	10,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	141				
CV-2006	4/6/2023	800	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	348	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	121				
189/Y61	4/26/2023	570	Moisture Condition, Soil/Dirt Compaction	5/5/2023	346	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	39				
180/Y62	4/26/2023	1,300	Moisture Condition, Soil/Dirt Compaction	5/5/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	215				
181/Y63	4/26/2023	2,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	414	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	483				
150/Y64	4/26/2023	3,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	108	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	411				
150/Y65	4/26/2023	7,891	Moisture Condition, Soil/Dirt Compaction	5/5/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	489				
156/Y66	4/26/2023	813	Moisture Condition, Soil/Dirt Compaction	5/5/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	92				
145/Y67	4/26/2023	1,047	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	52				
145/Y68	4/26/2023	685	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	23				
173/Y1	4/26/2023	1,582	Moisture Condition, Soil/Dirt Compaction	5/5/2023	284	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	291				
174/Y2	4/26/2023	9,999	Moisture Condition, Soil/Dirt Compaction	5/5/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	493				
176/Y21	4/26/2023	930	Moisture Condition, Soil/Dirt Compaction	5/5/2023	403	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	57				
176/Y22	4/26/2023	600	Moisture Condition, Soil/Dirt Compaction	5/5/2023	221	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	74				
176/Y23	4/26/2023	734	Moisture Condition, Soil/Dirt Compaction	5/5/2023	143	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	70				
176/Y24	4/26/2023	860	Moisture Condition, Soil/Dirt Compaction	5/5/2023	98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	111				
175/Y25	4/26/2023	710	Moisture Condition, Soil/Dirt Compaction	5/5/2023	105	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	134				
175/Y26	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	316	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	87				
175/Y27	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	106				
156/Y41	4/26/2023	1,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	76	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	88				
179/Y42	4/26/2023	900	Moisture Condition, Soil/Dirt Compaction	5/5/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	73				
184/Y43	4/26/2023	1,200	Moisture Condition, Soil/Dirt Compaction	5/5/2023	262	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	159				
184/Y44	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	136	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	132				
184/Y45	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	156				
187/Y46	4/26/2023	2,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	288	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	406				
84/Y47	4/26/2023	3,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	412	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	371				
84/Y48	4/26/2023	2,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	394	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	353				
84/Y49	4/26/2023	3,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	473	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	216				
159/Y1	5/30/2023	500	Moisture Condition, Soil/Dirt Compaction	6/9/2023	63.11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	51				
161/Y2	5/30/2023	30,000	Moisture Condition, Soil/Dirt Compaction	6/9/2023	248	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	485				
157/Y31	5/30/2023	538	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	173				
157/Y32	5/30/2023	576	Moisture Condition, Soil/Dirt Compaction	6/9/2023	26.04	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	165				
150/Y33	5/30/2023	655	Moisture Condition, Soil/Dirt Compaction	6/9/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	62				
145/Y34	5/30/2023	511	Moisture Condition, Soil/Dirt Compaction	6/9/2023	204	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	186				
155/Y21	5/30/2023	653	Moisture Condition, Soil/Dirt Compaction	6/9/2023	53.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	83				
90/Y22	5/30/2023	5,530	Moisture Condition, Soil/Dirt Compaction	6/9/2023	39.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	357				
159/Y11	5/30/2023	855	Moisture Condition, Soil/Dirt Compaction	6/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	323				
83/Y23	5/30/2023	821	Moisture Condition, Soil/Dirt Compaction	6/9/2023	139	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	57				
81/Y25	5/30/2023	771	Moisture Condition, Soil/Dirt Compaction	6/9/2023	369	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	340				
170/H-1564N	6/1/2023	8,000	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	175				
170/H-1964S	6/1/2023	618	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	3.45				
170/H-1405E	6/1/2023	699	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	14	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	376				
151/H-1773B	6/1/2023	719	Added soil and trackwalked	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	345				
151/H-1773B	6/1/2023	4,000	Added soil and trackwalked	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	148				
151/H-1773B	6/1/2023	27,000	Added soil and trackwalked	6/9/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	205				
151/H-1773B	6/1/2023	1,255	Added soil and trackwalked	6/9/2023	19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	183				
156/TC-2380C	6/1/2023	NA	Added soil and trackwalked	6/9/2023	7.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	25				
176/Y1	6/29/2023	700	Moisture Condition, Soil/Dirt Compaction	7/7/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	220				
176/Y2	6/29/2023	800	Moisture Condition, Soil/Dirt Compaction	7/7/2023	67.40	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	165				
172/Y3	6/29/2023	660	Moisture Condition, Soil/Dirt Compaction	7/7/2023	12.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	89				
187/Y46	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	59.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	26				
150/Y5	6/29/2023	525	Moisture Condition, Soil/Dirt Compaction	7/7/2023	25.83	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	152				
149/Y6	6/29/2023	1,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	262				
149/Y7	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	325				
149/Y8	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,552	Additional Soil/Dirt Compaction	7/14/2023	189	Moisture Condition, Soil/Dirt Compaction	7/28/2023	189				
53/Y9	6/29/2023	1,300	Moisture Condition, Soil/Dirt Compaction	7/7/2023	96.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	231				
81/Y10	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,250	Additional Soil/Dirt Compaction. Adjust Well H-2167B	7/14/2023	195	Moisture Condition, Soil/Dirt Compaction	7/28/2023	195				
172/Y11	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
157/Y12	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
152/Y13	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	7.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	56				
148/Y14	6/29/2023	1,900	Moisture Condition, Soil/Dirt Compaction	7/7/2023	223	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	15				
149/Y15	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	37				
150/Y16	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	39.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	80				
33/Y17	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	61.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
35/Y18	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	48.62	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	168				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
176/Y21	6/29/2023	1,200	Moisture Condition, Soil/Dirt Compaction	7/7/2023	Unable to Monitor (repair work being completed)	Additional Soil/Dirt Compaction	7/14/2023	164	Moisture Condition, Soil/Dirt Compaction	7/28/2023	164				
176/Y22	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	43.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
181/Y23	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	31.95	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	66				
182/Y24	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	44.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	43				
181/Y25	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
201/Y26	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	38.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	23				
201/Y27	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
175/Y28	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	93.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	53				
172/Y29	6/29/2023	2,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	118				
183/Y31	6/29/2023	1,570	Moisture Condition, Soil/Dirt Compaction	7/7/2023	28.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	25				
183/Y32	6/29/2023	2,059	Moisture Condition, Soil/Dirt Compaction	7/7/2023	51.73	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	42				
183/Y33	6/29/2023	710	Moisture Condition, Soil/Dirt Compaction	7/7/2023	78.18	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	45				
180/Y34	6/29/2023	1,026	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	32				
180/Y35	6/29/2023	943	Moisture Condition, Soil/Dirt Compaction	7/7/2023	27.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	64				
175/Y36	6/29/2023	1,284	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	109				
174/Y37	6/29/2023	3,012	Moisture Condition, Soil/Dirt Compaction	7/7/2023	95.78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
174/Y38	6/29/2023	4,604	Moisture Condition, Soil/Dirt Compaction	7/7/2023	237	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
90/Y39	6/29/2023	1,148	Moisture Condition, Soil/Dirt Compaction	7/7/2023	3,961	Additional Soil/Dirt Compaction	7/14/2023	147	Moisture Condition, Soil/Dirt Compaction	7/28/2023	147				
150/Y11	7/31/2023	800	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
150/Y12	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	142	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
149/Y13	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	58				
81/Y14	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	306	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
81/Y15	7/31/2023	9,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	211	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	60				
59/Y16	7/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
32/Y17	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	289	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
32/Y18	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	15				
53/Y31	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	410	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	19				
81/Y32	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	341	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	38				
53/Y33	7/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	58	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
81/Y34	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	9				
59/Y35	7/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	8/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	7				
32/Y36	7/31/2023	550	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	31				
152/Y21	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	294	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	29				
152/Y22	7/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	8/9/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	111				
149/Y23	7/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	214	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	50				
149/Y24	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	310	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
149/Y25	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	137	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
83/Y26	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	123				
169/Y1	7/31/2023	2,021	Moisture Condition, Soil/Dirt Compaction	8/9/2023	240	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	73				
170/Y2	7/31/2023	506	Moisture Condition, Soil/Dirt Compaction	8/9/2023	91	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	33				
170/Y3	7/31/2023	526	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
170/Y3	7/31/2023	622	Moisture Condition, Soil/Dirt Compaction	8/9/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
166/Y4	7/31/2023	543	Moisture Condition, Soil/Dirt Compaction	8/9/2023	78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	22				
166/Y5	7/31/2023	528	Moisture Condition, Soil/Dirt Compaction	8/9/2023	81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	52				
166/Y6	7/31/2023	508	Moisture Condition, Soil/Dirt Compaction	8/9/2023	29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
166/Y7	7/31/2023	9,003	Moisture Condition, Soil/Dirt Compaction	8/9/2023	434	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	12				
159/Y9	7/31/2023	5,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	276	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
154/Y10	7/31/2023	9,453	Moisture Condition, Soil/Dirt Compaction	8/9/2023	304	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
153/Y41	7/31/2023	1,353	Moisture Condition, Soil/Dirt Compaction	8/9/2023	125	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	103				
150/Y1	8/31/2023	560	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	3.5				
150/Y2	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	21.5				
177/Y3	8/31/2023	700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	147	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	17.5				
176/Y44	8/31/2023	525	Moisture Condition, Soil/Dirt Compaction	9/8/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	70.3				
189/Y5	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	166	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	85.2				
205/Y6	8/31/2023	780	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	34.5				
205/Y7	8/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	466	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	27.1				
206/Y11	8/31/2023	600	Moisture Condition, Soil/Dirt Compaction	9/8/2023	429	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	89.7				
206/Y12	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	160	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	107.0				
82/Y21	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	241	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	244.0				
81/Y22	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	408	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	361.0				
149/Y23	8/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/8/2023	282	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	372.0				
149/Y24	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	102	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	157.0				
149/Y25	8/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	447	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	237.0				
154/Y26	8/31/2023	5,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	498	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	51.3				
155/Y27	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	71.5				
154/Y28	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	375.0				
154/Y29	8/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	118.0				
159/Y30	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	387	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	220.0				
83/Y31	8/31/2023	845	Moisture Condition, Soil/Dirt Compaction	9/8/2023	488	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	435.0				
84/Y32	8/31/2023	960	Moisture Condition, Soil/Dirt Compaction	9/8/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	353.0				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
90/Y33	8/31/2023	2,280	Moisture Condition, Soil/Dirt Compaction	9/8/2023	420	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
90/Y34	8/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/8/2023	497	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
161/Y35	8/31/2023	945	Moisture Condition, Soil/Dirt Compaction	9/8/2023	250	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	111.0				
161/Y36	8/31/2023	860	Moisture Condition, Soil/Dirt Compaction	9/8/2023	377	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	95.7				
163/Y37	8/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	13.8				
166/Y38	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	6.4				
166/Y39	8/31/2023	8,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	437	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	4.3				
166/Y40	8/31/2023	5,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	489	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	246.0				
201/Y81	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	103.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	259.0				
202/Y82	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	16.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	102.0				
201/Y83	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	29.13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	58.0				
205/Y84	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	50.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,134.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24.2				
206/Y85	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	38.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	473.0				
173/Y61	9/13/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/22/2023	23.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	388.0				
170/Y62	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	45.0				
158/Y63	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	5.19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	131.0				
149/Y64	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	58.60	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	483.0				
149/Y65	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	234.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	270.0				
149/Y66	9/13/2023	1,600	Moisture Condition, Soil/Dirt Compaction	9/22/2023	109.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	248.0				
156/Y41	9/13/2023	720	Moisture Condition, Soil/Dirt Compaction	9/22/2023	15.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	94.0				
172/Y42	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,397.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21.1				
175/Y43	9/13/2023	510	Moisture Condition, Soil/Dirt Compaction	9/22/2023	335.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	69.0				
175/Y44	9/13/2023	628	Moisture Condition, Soil/Dirt Compaction	9/22/2023	53.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	80.0				
181/Y45	9/13/2023	520	Moisture Condition, Soil/Dirt Compaction	9/22/2023	75.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	126.0				
181/Y46	9/13/2023	640	Moisture Condition, Soil/Dirt Compaction	9/22/2023	151.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	138.0				
181/Y47	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	255.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	413.0				
181/Y48	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	33.41	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	353.0				
176/Y49	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	273.0				
176/Y50	9/13/2023	635	Moisture Condition, Soil/Dirt Compaction	9/22/2023	101.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	89.0				
178/Y51	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	217.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	73.0				
184/Y21	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	275.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	728.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23.2				
150/Y22	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	78.0				
150/Y23	9/13/2023	2,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	35.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	51.0				
145/Y24	9/13/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	4.17	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	194.0				
77/Y25	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	18.03	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	206.0				
78/Y26	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	144.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,053.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	20.99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18.8				
78/Y27	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	73.63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	431.0				
146/Y28	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	19.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	455.0				
191/Y1	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	31.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	239.0				
191/Y2	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	125.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	171.0				
192/Y3	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	243.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	38.0				
193/Y4	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	267.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	83.0				
193/Y5	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	147.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	176.0				
187/Y6	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	246.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	208.0				
153/Y67	9/13/2023	500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	154.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	156.0				
191/Y81	9/27/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	572.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.91	Moisture Condition, Soil/Dirt Compaction	10/19/2023	58				
189/Y82	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	96.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	31				
189/Y83	9/27/2023	2,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	844.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.5	Moisture Condition, Soil/Dirt Compaction	10/19/2023	392				
181/Y84	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	50.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	106				
201/Y85	9/27/2023	1,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	239.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	254				
201/Y86	9/27/2023	800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	74.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	93				
203/Y87	9/27/2023	1,132	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.12	Moisture Condition, Soil/Dirt Compaction	10/19/2023	78				
205/Y88	9/27/2023	8,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,322.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.75	Moisture Condition, Soil/Dirt Compaction	10/19/2023	487				
206/Y89	9/27/2023	1,730	Moisture Condition, Soil/Dirt Compaction	10/6/2023	2,159.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.52	Moisture Condition, Soil/Dirt Compaction	10/19/2023	69				
185/Y61	9/27/2023	835	Moisture Condition, Soil/Dirt Compaction	10/6/2023	126.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	122				
177/Y62	9/27/2023	521	Moisture Condition, Soil/Dirt Compaction	10/6/2023	67.31	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	100				
177/Y63	9/27/2023	615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	104.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	216				
171/Y64	9/27/2023	815	Moisture Condition, Soil/Dirt Compaction	10/6/2023	256.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	43				
182/Y11	9/27/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,631.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.86	Moisture Condition, Soil/Dirt Compaction	10/19/2023	324				
203/Y12	9/27/2023	2,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,249.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	14.75	Moisture Condition, Soil/Dirt Compaction	10/19/2023	307				
159/Y01	9/27/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/6/2023	98.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	271				
154/Y02	9/27/2023	1,128	Moisture Condition, Soil/Dirt Compaction	10/6/2023	75.06	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	51				
152/Y03	9/27/2023	5,599	Moisture Condition, Soil/Dirt Compaction	10/6/2023	283.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	492				
152/Y04	9/27/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/6/2023	20.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	63				
170/Y41	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	966.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.42	Moisture Condition, Soil/Dirt Compaction	10/19/2023	21				
176/Y42	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	714.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.98	Moisture Condition, Soil/Dirt Compaction	10/19/2023	233				
183/Y43	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,008.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	18.18	Moisture Condition, Soil/Dirt Compaction	10/19/2023	163				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
183/Y44	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	847.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.32	Moisture Condition, Soil/Dirt Compaction	10/19/2023	111				
173/Y45	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.5	Moisture Condition, Soil/Dirt Compaction	10/19/2023	72				
168/Y46	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,352.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	21.45	Moisture Condition, Soil/Dirt Compaction	10/19/2023	79				
166/Y71	9/27/2023	1,953	Moisture Condition, Soil/Dirt Compaction	10/6/2023	382.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	224				
165/Y72	9/27/2023	2,615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	460.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	281				
154/Y73	9/27/2023	1,205	Moisture Condition, Soil/Dirt Compaction	10/6/2023	324.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	132				
149/Y74	9/27/2023	8,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,100.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.31	Moisture Condition, Soil/Dirt Compaction	10/19/2023	478				
149/Y75	9/27/2023	7,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	759.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.54	Moisture Condition, Soil/Dirt Compaction	10/19/2023	456				
184/Y1	10/11/2023	600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	14.96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
184/Y2	10/11/2023	725	Moisture Condition, Soil/Dirt Compaction	10/20/2023	55.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
183/Y3	10/11/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	50.35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
183/Y4	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21				
183/Y5	10/11/2023	1,250	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
187/Y6	10/11/2023	650	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
187/Y7	10/11/2023	715	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	15				
156/Y51	10/11/2023	5,600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	134	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
152/Y52	10/11/2023	9,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	220	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
146/Y53	10/11/2023	4,800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	95.4	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
147/Y54	10/11/2023	5,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	75.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	20				
152/Y55	10/11/2023	5,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
157/Y56	10/11/2023	4,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
202/Y31	10/11/2023	1,300	Moisture Condition, Soil/Dirt Compaction	10/20/2023	32.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
202/Y32	10/11/2023	1,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	163	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	16				
202/Y33	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
203/Y34	10/11/2023	1,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
181/Y11	10/11/2023	600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.45	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
201/Y12	10/11/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
179/Y13	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	109	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
77/Y14	10/11/2023	800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	10				
201/Y21	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	45.64	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
101/Y22	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
172/Y23	10/11/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
172/Y24	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	34.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
173/Y25	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
175/Y26	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
175/Y27	10/11/2023	2,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	101	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	15				
175/Y28	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.55	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
204/Y61	10/11/2023	2,800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.8	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
208/Y62	10/11/2023	3,840	Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	13				
208/Y63	10/11/2023	3,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	19.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	16				
165/Y64	10/11/2023	5,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	13				
163/Y65	10/11/2023	4,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	132	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
165/Y66	10/11/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21				
165/Y67	10/11/2023	1,650	Moisture Condition, Soil/Dirt Compaction	10/20/2023	19.54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
149/Y61	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.31	NA	NA	NA							
149/Y62	10/25/2023	1,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	22.32	NA	NA	NA							
149/Y63	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	17.42	NA	NA	NA							
180/Y11	10/25/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.71	NA	NA	NA							
180/Y12	10/25/2023	700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	24.2	NA	NA	NA							
180/Y13	10/25/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	18.65	NA	NA	NA							
181/Y14	10/25/2023	700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.55	NA	NA	NA							
179/Y15	10/25/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.21	NA	NA	NA							
150/Y16	10/25/2023	650	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.33	NA	NA	NA							
165/Y51	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.23	NA	NA	NA							
160/Y52	10/25/2023	800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.1	NA	NA	NA							
90/Y53	10/25/2023	8,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.57	NA	NA	NA							
155/Y54	10/25/2023	6,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.71	NA	NA	NA							
174/Y31	10/25/2023	2,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.05	NA	NA	NA							
174/Y32	10/25/2023	1,800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	36.5	NA	NA	NA							
202/Y33	10/25/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/3/2023	41.81	NA	NA	NA							
205/Y41	10/25/2023	600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	37.29	NA	NA	NA							
205/Y42	10/25/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	33.75	NA	NA	NA							
192/Y1	10/25/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.22	NA	NA	NA							
192/Y2	10/25/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	18.59	NA	NA	NA							
192/Y3	10/25/2023	800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.28	NA	NA	NA							
192/Y4	10/25/2023	1,600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	15.42	NA	NA	NA							
191/Y5	10/25/2023	2,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.22	NA	NA	NA							
189/Y6	10/25/2023	1,700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	17.85	NA	NA	NA							
189/Y7	10/25/2023	1,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	22.98	NA	NA	NA							
187/Y8	10/25/2023	1,600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.54	NA	NA	NA							
184/Y9	10/25/2023	2,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.12	NA	NA	NA							

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
184/Y10	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	33.1	NA	NA	NA							

Attachment D

Wellhead Temperature Data

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWA001	A-01	10/2/2023 2:31:58 PM	88.8	89.0
CHIWA002	A-02	10/2/2023 2:27:25 PM	98.3	98.4
CHIWA003	A-03	10/2/2023 2:23:10 PM	96.9	97.3
CHIWA004	A-04	10/2/2023 2:18:48 PM	94.6	94.5
CHIWA005	A-05	10/2/2023 2:09:29 PM	91.3	91.4
CHIWB001	B-01	10/26/2023 2:45:19 PM	79.7	79.7
CHIWB02R	B-02R	10/2/2023 10:56:18 AM	80.9	80.9
CHIWB03R	B-03R	10/2/2023 11:03:47 AM	86.1	86.1
CHIWB005	B-05	10/2/2023 11:28:38 AM	82.2	82.2
CHIWB006	B-06	10/2/2023 11:39:46 AM	82.6	82.7
CHIWB07R	B-07R	10/2/2023 12:12:37 PM	87.8	87.9
CHIWB008	B-08	10/2/2023 11:43:17 AM	91.5	91.5
CHIWB009	B-09	10/2/2023 12:07:50 PM	89.3	89.3
CHIWB010	B-10	10/2/2023 12:04:06 PM	84.6	85.1
CHIWB011	B-11	10/2/2023 12:01:45 PM	94.3	94.3
CHIWB012	B-12	10/2/2023 11:26:52 AM	90.7	90.8
CHIWB013	B-13	10/2/2023 12:17:17 PM	86.4	86.4
CHIWB014	B-14	10/2/2023 11:53:08 AM	94.0	94.0
CHIWC001	C-01	10/26/2023 2:35:26 PM	83.7	83.3
CHIWC001	C-01	10/26/2023 2:36:52 PM	83.4	83.4
CHIWC003	C-03	10/26/2023 3:00:24 PM	89.6	89.6
CHIWC007	C-07	10/2/2023 2:04:56 PM	82.0	82.0
CHIWC008	C-08	10/2/2023 1:58:45 PM	97.3	97.5
CHIWC009	C-09	10/23/2023 8:57:36 AM	68.9	68.9
CHIWC009	C-09	10/23/2023 8:59:43 AM	68.9	68.9
CHIWC010	C-10	10/23/2023 9:16:06 AM	83.4	83.4
CHIWC011	C-11	10/23/2023 1:28:06 PM	103.1	103.4
CHIWC012	C-12	10/13/2023 12:08:56 PM	94.9	98.8
CHIWC013	C-13	10/13/2023 11:56:29 AM	91.9	91.9
CHIWC013	C-13	10/13/2023 11:58:10 AM	92.0	92.1
CHIWC015	C-15	10/13/2023 12:02:47 PM	103.3	103.3
CHIWC016	C-16	10/13/2023 11:39:23 AM	102.3	102.3
CHIWC016	C-16	10/13/2023 11:39:27 AM	102.3	102.3
CHIWC016	C-16	10/13/2023 11:43:18 AM	103.2	103.2
CHIWC016	C-16	10/28/2023 9:09:36 AM	98.5	98.6
CHIWC17A	C-17A	10/13/2023 11:20:41 AM	97.1	97.3
CHIWC17A	C-17A	10/13/2023 11:29:34 AM	95.4	95.1
CHIWC17A	C-17A	10/28/2023 8:51:19 AM	69.2	71.5
CHIWC17A	C-17A	10/28/2023 8:56:23 AM	74.5	74.5
CHIWC17B	C-17B	10/13/2023 11:25:15 AM	109.1	109.1
CHIWC018	C-18	10/13/2023 10:35:13 AM	96.8	96.8
CHIWC019	C-19	10/13/2023 11:01:28 AM	100.9	100.8
CHIWC020	C-20	10/13/2023 10:45:56 AM	99.7	99.8
CHIWC023	C-23	10/13/2023 10:39:46 AM	113.2	113.2
CHIWC024	C-24	10/13/2023 11:07:43 AM	109.1	109.3

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWC025	C-25	10/13/2023 11:34:32 AM	120.5	120.5
CHIWC026	C-26	10/13/2023 11:50:48 AM	106.2	107.3
CHIWC028	C-28	10/23/2023 1:32:00 PM	109.6	109.7
CHIWC029	C-29	10/23/2023 9:25:20 AM	118.8	119.0
CHIWC030	C-30	10/23/2023 9:08:42 AM	73.5	76.2
CH3OP175	CH3OP175	10/30/2023 2:51:57 PM	98.3	98.1
CH3OP175	CH3OP175	10/30/2023 3:02:43 PM	95.6	99.1
CH3OP175	CH3OP175	10/30/2023 3:04:41 PM	99.7	99.8
CHIWCV02	CV-02	10/2/2023 2:54:06 PM	115.2	114.9
CHIWCV03	CV-03	10/2/2023 2:49:45 PM	120.4	120.4
CHIWCV04	CV-04	10/2/2023 2:44:45 PM	113.6	113.6
CHIWCV05	CV-05	10/2/2023 2:38:09 PM	104.4	104.4
CHIWCV06	CV-06	10/5/2023 2:12:26 PM	101.9	102.3
CHIWCV06	CV-06	10/5/2023 2:20:11 PM	101.6	101.6
CHIWCV07	CV-07	10/5/2023 2:38:27 PM	100.2	99.0
CHIWCV07	CV-07	10/5/2023 2:43:55 PM	97.6	97.6
CHIWCV08	CV-08	10/5/2023 2:59:41 PM	122.1	122.2
CHIWCV09	CV-09	10/5/2023 3:05:52 PM	121.8	121.8
CHWCV100	CV-100	10/9/2023 1:48:44 PM	115.3	115.3
CHWCV103	CV-103	10/9/2023 11:04:04 AM	103.3	103.3
CV108-52	CV-108-52	10/26/2023 4:02:22 PM	123.7	123.2
CHIWCV11	CV-11	10/30/2023 1:40:34 PM	82.5	82.5
CHWCV113	CV-113	10/24/2023 1:34:47 PM	90.9	91.0
CHWCV114	CV-114	10/24/2023 1:39:31 PM	129.0	129.1
CHCV1420	CV-1420	10/9/2023 9:03:11 AM	110.4	108.7
CHCV1421	CV-1421	10/13/2023 10:34:25 AM	90.5	96.7
CHCV1422	CV-1422	10/25/2023 11:00:32 AM	95.1	95.0
CHCV1423	CV-1423	10/6/2023 3:10:48 PM	129.0	128.9
CHCV1424	CV-1424	10/4/2023 9:56:03 AM	117.4	116.6
CHCV1425	CV-1425	10/9/2023 9:33:21 AM	92.8	92.3
CHCV1426	CV-1426	10/13/2023 10:20:40 AM	100.8	100.8
CHCV1532	CV-1532	10/10/2023 11:32:08 AM	142.2	142.5
CCV1532A	CV-1532A	10/12/2023 6:17:17 PM	78.7	78.7
CCV1532A	CV-1532A	10/18/2023 9:46:52 AM	188.6	188.8
CCV1532A	CV-1532A	10/28/2023 11:12:30 AM	168.6	168.6
CCV1532A	CV-1532A	10/31/2023 9:12:13 AM	146.5	146.5
CCV1534A	CV-1534A	10/3/2023 3:44:13 PM	192.0	192.0
CCV1534A	CV-1534A	10/12/2023 1:50:30 PM	192.0	192.0
CCV1534A	CV-1534A	10/18/2023 9:28:28 AM	192.5	192.8
CCV1534A	CV-1534A	10/24/2023 11:54:12 AM	192.0	192.0
CCV1534A	CV-1534A	10/31/2023 9:24:48 AM	191.5	191.5
CHCV1535	CV-1535	10/9/2023 2:19:45 PM	129.4	129.4
CCV1601D	CV-1601D	10/5/2023 3:30:15 PM	104.5	104.5
CCV1601D	CV-1601D	10/9/2023 8:22:16 AM	97.3	97.7
CCV1601S	CV-1601S	10/5/2023 3:33:48 PM	106.7	107.1

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CCV1601S	CV-1601S	10/9/2023 8:29:05 AM	104.0	103.9
CHCV1603	CV-1603	10/9/2023 9:19:15 AM	87.6	89.2
CHCV1604	CV-1604	10/6/2023 1:50:52 PM	123.1	123.5
CHCV1605	CV-1605	10/5/2023 4:58:15 PM	100.3	100.0
CHCV1606	CV-1606	10/5/2023 11:50:01 AM	115.6	115.6
CHCV1607	CV-1607	10/26/2023 2:26:33 PM	120.7	120.8
CCV1701D	CV-1701D	10/6/2023 1:01:31 PM	128.7	128.8
CCV1701D	CV-1701D	10/13/2023 3:33:09 PM	126.7	118.9
CCV1701S	CV-1701S	10/6/2023 12:56:45 PM	144.3	144.0
CCV1701S	CV-1701S	10/6/2023 12:58:40 PM	143.9	144.0
CCV1701S	CV-1701S	10/13/2023 3:08:26 PM	143.1	134.8
CCV1701S	CV-1701S	10/13/2023 3:11:56 PM	132.3	132.0
CCV1701S	CV-1701S	10/13/2023 3:12:01 PM	132.3	132.0
CCV1701S	CV-1701S	10/13/2023 3:25:07 PM	131.0	143.1
CCV1701S	CV-1701S	10/13/2023 3:28:42 PM	143.4	143.3
CHCV1703	CV-1703	10/6/2023 11:05:02 AM	129.3	129.3
CHCV1901	CV-1901	10/26/2023 2:11:36 PM	121.7	120.0
CCV1902A	CV-1902A	10/4/2023 5:55:23 PM	103.9	104.0
CCV1902A	CV-1902A	10/5/2023 5:37:12 PM	194.6	194.1
CCV1902A	CV-1902A	10/5/2023 5:39:32 PM	192.8	192.8
CCV1902A	CV-1902A	10/10/2023 10:34:58 AM	141.4	141.2
CCV1902A	CV-1902A	10/24/2023 9:50:16 AM	102.2	102.4
CCV1902A	CV-1902A	10/24/2023 9:55:54 AM	104.1	103.6
CCV1902D	CV-1902D	10/3/2023 11:05:14 AM	191.5	191.5
CCV1902D	CV-1902D	10/10/2023 10:45:00 AM	191.3	191.5
CCV1902D	CV-1902D	10/17/2023 2:15:46 PM	190.3	190.3
CCV1902D	CV-1902D	10/24/2023 10:04:53 AM	187.7	187.7
CCV1902D	CV-1902D	10/31/2023 10:58:56 AM	187.4	187.4
CCV1902S	CV-1902S	10/3/2023 11:16:24 AM	172.1	172.1
CCV1902S	CV-1902S	10/10/2023 10:56:51 AM	167.1	167.1
CCV1902S	CV-1902S	10/17/2023 2:23:31 PM	169.1	169.1
CCV1902S	CV-1902S	10/24/2023 10:10:23 AM	178.8	178.8
CCV1902S	CV-1902S	10/31/2023 11:08:19 AM	180.2	180.0
CHCV1903	CV-1903	10/5/2023 1:35:51 PM	116.9	116.9
CHCV1905	CV-1905	10/7/2023 3:15:57 PM	107.8	107.8
CHCV1906	CV-1906	10/9/2023 9:44:49 AM	86.7	88.1
CHCV1907	CV-1907	10/9/2023 1:58:52 PM	99.4	95.6
CHCV2001	CV-2001	10/28/2023 10:01:20 AM	104.2	97.1
CHCV2001	CV-2001	10/28/2023 10:04:30 AM	99.2	99.3
CHCV2002	CV-2002	10/28/2023 9:31:51 AM	125.8	125.3
CHCV2002	CV-2002	10/28/2023 9:36:06 AM	125.5	125.2
CHCV2002	CV-2002	10/28/2023 9:37:52 AM	125.3	125.3
CHCV2003	CV-2003	10/3/2023 4:18:38 PM	149.0	149.0
CHCV2003	CV-2003	10/12/2023 1:58:12 PM	178.8	178.8
CHCV2003	CV-2003	10/18/2023 8:57:40 AM	144.7	144.6

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2003	CV-2003	10/24/2023 11:33:04 AM	155.3	155.3
CHCV2003	CV-2003	10/31/2023 9:37:15 AM	166.2	165.9
CHCV2004	CV-2004	10/3/2023 3:15:12 PM	193.0	193.0
CHCV2004	CV-2004	10/10/2023 11:36:18 AM	188.1	188.1
CHCV2004	CV-2004	10/18/2023 9:59:20 AM	194.3	194.6
CHCV2004	CV-2004	10/24/2023 2:09:29 PM	193.5	193.5
CHCV2004	CV-2004	10/31/2023 8:39:23 AM	192.0	192.5
CHCV2006	CV-2006	10/6/2023 2:28:37 PM	144.6	144.5
CHCV2007	CV-2007	10/6/2023 11:52:38 AM	124.4	124.5
CHCV2008	CV-2008	10/6/2023 3:26:40 PM	125.4	125.4
CHCV2009	CV-2009	10/26/2023 3:09:42 PM	125.1	125.1
CCV2009A	CV-2009A	10/5/2023 1:38:10 PM	121.7	122.0
CCV2009A	CV-2009A	10/5/2023 1:44:18 PM	122.1	122.0
CHCV2010	CV-2010	10/9/2023 10:02:54 AM	117.5	120.7
CCV2010A	CV-2010A	10/9/2023 9:47:04 AM	129.1	129.1
CHCV2011	CV-2011	10/16/2023 11:41:48 AM	122.9	122.8
CCV2011A	CV-2011A	10/6/2023 12:09:20 PM	140.0	140.0
CCV2011A	CV-2011A	10/6/2023 12:11:48 PM	140.1	140.1
CCV2011A	CV-2011A	10/13/2023 2:08:12 PM	139.8	138.7
CCV2011A	CV-2011A	10/13/2023 2:59:31 PM	138.8	138.6
CCV2011A	CV-2011A	10/13/2023 3:02:58 PM	138.5	138.5
CCV2011A	CV-2011A	10/13/2023 3:06:35 PM	138.5	138.5
CHCV2012	CV-2012	10/6/2023 11:54:24 AM	134.2	134.2
CHCV2012	CV-2012	10/6/2023 11:56:45 AM	134.4	134.4
CHCV2012	CV-2012	10/20/2023 6:42:47 PM	133.8	130.8
CHCV2012	CV-2012	10/20/2023 6:44:32 PM	130.0	129.9
CHCV2012	CV-2012	10/20/2023 6:48:36 PM	129.8	134.0
CHCV2012	CV-2012	10/20/2023 6:51:17 PM	134.2	134.1
CHCV2201	CV-2201	10/3/2023 6:14:09 PM	193.8	193.8
CHCV2201	CV-2201	10/12/2023 9:38:10 AM	193.5	193.5
CHCV2201	CV-2201	10/19/2023 9:40:01 AM	193.3	193.5
CHCV2201	CV-2201	10/24/2023 4:32:26 PM	192.5	192.5
CHCV2202	CV-2202	10/3/2023 5:26:36 PM	192.3	192.3
CHCV2202	CV-2202	10/12/2023 12:42:50 PM	193.6	193.6
CHCV2202	CV-2202	10/19/2023 10:50:04 AM	192.0	192.0
CHCV2202	CV-2202	10/24/2023 3:08:36 PM	190.8	190.8
CHCV2203	CV-2203	10/3/2023 5:46:05 PM	159.0	159.1
CHCV2203	CV-2203	10/12/2023 10:17:14 AM	156.6	156.6
CHCV2203	CV-2203	10/19/2023 10:21:29 AM	156.9	157.2
CHCV2203	CV-2203	10/26/2023 8:40:40 AM	157.8	158.0
CHCV2204	CV-2204	10/4/2023 4:14:43 PM	177.1	177.1
CHCV2204	CV-2204	10/10/2023 10:36:26 AM	179.4	178.2
CHCV2204	CV-2204	10/19/2023 8:19:05 AM	181.1	181.1
CHCV2204	CV-2204	10/24/2023 3:38:52 PM	181.3	181.5
CHCV2204	CV-2204	10/31/2023 2:51:23 PM	182.5	182.3

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2205	CV-2205	10/9/2023 11:08:02 AM	123.1	123.1
CHCV2206	CV-2206	10/3/2023 6:40:21 PM	183.6	183.6
CHCV2206	CV-2206	10/12/2023 8:28:10 AM	181.5	181.5
CHCV2206	CV-2206	10/19/2023 9:04:16 AM	182.6	182.6
CHCV2206	CV-2206	10/24/2023 4:05:55 PM	182.5	182.5
CHCV2206	CV-2206	10/31/2023 3:20:16 PM	183.4	183.4
CHCV2207	CV-2207	10/4/2023 9:22:17 AM	119.4	119.4
CCV2208A	CV-2208A	10/6/2023 2:41:01 PM	136.6	135.6
CHCV2301	CV-2301	10/26/2023 4:19:46 PM	132.3	132.3
CHCV2301	CV-2301	10/30/2023 4:32:58 PM	130.1	130.1
CHCV2302	CV-2302	10/3/2023 4:46:34 PM	134.9	134.8
CHCV2302	CV-2302	10/3/2023 4:50:12 PM	134.5	134.6
CHCV2303	CV-2303	10/5/2023 2:17:27 PM	106.7	113.5
CHCV2303	CV-2303	10/5/2023 2:19:42 PM	114.8	114.9
CHCV2304	CV-2304	10/3/2023 5:04:25 PM	160.8	160.5
CHCV2304	CV-2304	10/12/2023 10:42:02 AM	159.0	159.1
CHCV2304	CV-2304	10/19/2023 10:36:23 AM	160.8	160.8
CHCV2304	CV-2304	10/24/2023 2:55:56 PM	155.5	155.3
CHCV2305	CV-2305	10/5/2023 11:19:40 AM	124.9	124.9
CHCV2305	CV-2305	10/5/2023 11:23:27 AM	124.9	124.9
CHCV2306	CV-2306	10/3/2023 6:52:32 PM	177.3	177.5
CHCV2306	CV-2306	10/12/2023 8:08:09 AM	174.2	174.0
CHCV2306	CV-2306	10/19/2023 8:39:37 AM	173.0	173.1
CHCV2306	CV-2306	10/24/2023 3:49:36 PM	171.2	171.4
CHCV2306	CV-2306	10/31/2023 3:49:27 PM	169.5	169.8
CHCV2308	CV-2308	10/3/2023 6:33:04 PM	184.3	184.5
CHCV2308	CV-2308	10/12/2023 9:18:41 AM	182.8	182.5
CHCV2308	CV-2308	10/19/2023 9:19:41 AM	181.1	181.3
CHCV2308	CV-2308	10/24/2023 4:19:16 PM	175.2	175.0
CHCV2310	CV-2310	10/3/2023 6:02:57 PM	172.1	171.9
CHCV2310	CV-2310	10/12/2023 9:58:25 AM	173.7	173.7
CHCV2310	CV-2310	10/19/2023 9:57:36 AM	177.8	177.8
CHCV2310	CV-2310	10/26/2023 8:23:18 AM	179.8	179.6
CHCV2311	CV-2311	10/5/2023 1:42:09 PM	124.9	124.9
CHCV2311	CV-2311	10/5/2023 1:44:52 PM	124.6	124.6
CHCV2312	CV-2312	10/5/2023 2:17:30 PM	142.6	142.6
CHCV2314	CV-2314	10/5/2023 1:57:58 PM	121.0	121.2
CHCV2314	CV-2314	10/5/2023 2:01:44 PM	121.5	121.4
CHCV2315	CV-2315	10/26/2023 3:21:17 PM	121.5	121.6
CHCV2316	CV-2316	10/5/2023 1:26:33 PM	138.7	138.9
CHCV2316	CV-2316	10/13/2023 1:57:53 PM	140.8	141.2
CHCV2316	CV-2316	10/13/2023 2:09:02 PM	141.2	130.6
CHCV2316	CV-2316	10/13/2023 2:10:33 PM	127.9	127.8
CHCV2316	CV-2316	10/13/2023 2:13:36 PM	126.6	140.5
CHCV2316	CV-2316	10/13/2023 2:15:48 PM	141.7	141.7

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2316	CV-2316	10/28/2023 7:48:09 AM	135.0	134.7
CHCV2319	CV-2319	10/5/2023 11:04:53 AM	134.1	134.0
CHCV2319	CV-2319	10/5/2023 11:14:38 AM	134.0	134.0
CHCV2319	CV-2319	10/13/2023 2:28:13 PM	134.2	129.9
CHCV2319	CV-2319	10/13/2023 2:31:55 PM	130.8	130.9
CHCV2319	CV-2319	10/13/2023 2:48:40 PM	130.3	133.5
CHCV2319	CV-2319	10/13/2023 2:51:27 PM	133.5	133.5
CHCV2319	CV-2319	10/28/2023 7:57:59 AM	129.1	129.2
CHCV2321	CV-2321	10/4/2023 11:33:09 AM	120.4	120.4
CHCV2322	CV-2322	10/4/2023 3:56:11 PM	166.2	165.5
CHCV2322	CV-2322	10/12/2023 12:55:45 PM	169.6	169.5
CHCV2322	CV-2322	10/19/2023 11:16:48 AM	176.3	176.3
CHCV2322	CV-2322	10/26/2023 9:13:37 AM	176.5	176.7
CHCV2324	CV-2324	10/13/2023 11:29:14 AM	116.1	116.0
CHCV2326	CV-2326	10/5/2023 1:30:02 PM	108.5	113.0
CHCV2326	CV-2326	10/5/2023 1:32:40 PM	113.1	113.1
CHCV2327	CV-2327	10/4/2023 6:10:48 PM	155.3	155.4
CHCV2327	CV-2327	10/12/2023 1:04:24 PM	155.3	155.4
CHCV2327	CV-2327	10/19/2023 11:10:30 AM	155.5	155.7
CHCV2327	CV-2327	10/26/2023 9:01:31 AM	153.3	153.0
CHCV2328	CV-2328	10/26/2023 3:52:19 PM	122.7	123.0
CHCV2333	CV-2333	10/6/2023 12:17:38 PM	137.3	137.2
CHCV2333	CV-2333	10/6/2023 12:22:04 PM	137.2	137.2
CHCV2334	CV-2334	10/6/2023 12:33:53 PM	132.9	132.9
CHCV2334	CV-2334	10/6/2023 12:36:33 PM	133.2	133.3
CHCV2334	CV-2334	10/20/2023 6:32:13 PM	130.4	130.5
CHCV2335	CV-2335	10/3/2023 11:58:33 AM	109.5	109.9
CHCV2335	CV-2335	10/9/2023 11:52:00 AM	110.7	110.8
CHCV2336	CV-2336	10/3/2023 12:02:52 PM	119.6	119.6
CHCV2336	CV-2336	10/9/2023 11:45:35 AM	120.6	120.6
CHCV2337	CV-2337	10/3/2023 12:09:35 PM	135.8	135.8
CHCV2337	CV-2337	10/9/2023 11:35:40 AM	134.2	134.0
CHCV2337	CV-2337	10/13/2023 3:26:04 PM	134.5	130.5
CHCV2337	CV-2337	10/13/2023 3:28:09 PM	126.2	126.1
CHCV2337	CV-2337	10/13/2023 3:35:32 PM	129.6	134.4
CHCV2337	CV-2337	10/28/2023 8:20:05 AM	132.1	131.9
CHCV2338	CV-2338	10/5/2023 5:30:23 PM	187.4	187.7
CHCV2338	CV-2338	10/5/2023 5:32:01 PM	187.7	187.9
CHCV2338	CV-2338	10/10/2023 9:01:18 AM	191.0	191.0
CHCV2338	CV-2338	10/17/2023 1:40:38 PM	193.3	193.5
CHCV2338	CV-2338	10/24/2023 9:22:02 AM	188.4	188.6
CHCV2338	CV-2338	10/31/2023 11:53:47 AM	185.8	186.3
CHCV2339	CV-2339	10/3/2023 11:38:30 AM	199.2	199.5
CHCV2339	CV-2339	10/10/2023 11:11:43 AM	201.0	201.0
CHCV2339	CV-2339	10/17/2023 2:40:39 PM	198.9	198.4

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2339	CV-2339	10/24/2023 10:30:15 AM	200.7	200.7
CHCV2339	CV-2339	10/31/2023 10:44:02 AM	198.1	198.1
CHCV2340	CV-2340	10/28/2023 10:40:23 AM	83.4	84.0
CHCV2341	CV-2341	10/28/2023 10:35:04 AM	149.3	148.3
CCV2342A	CV-2342A	10/12/2023 5:38:24 PM	210.5	210.5
CCV2342A	CV-2342A	10/18/2023 10:18:33 AM	198.7	198.7
CCV2342A	CV-2342A	10/28/2023 11:01:51 AM	194.8	194.8
CCV2342A	CV-2342A	10/31/2023 8:34:41 AM	195.1	194.8
CHCV2343	CV-2343	10/4/2023 4:44:25 PM	111.9	112.4
CHCV2344	CV-2344	10/11/2023 3:04:15 PM	116.9	117.1
CHCV2345	CV-2345	10/11/2023 3:30:18 PM	124.4	124.4
CHCV2346	CV-2346	10/27/2023 4:43:39 PM	129.9	129.0
CHCV2347	CV-2347	10/26/2023 4:38:17 PM	103.0	103.9
CHCV2348	CV-2348	10/27/2023 4:54:09 PM	120.8	119.5
CHCV2349	CV-2349	10/4/2023 5:24:41 PM	118.0	118.8
CHCV2349	CV-2349	10/5/2023 4:23:12 PM	123.2	122.8
CHCV2349	CV-2349	10/5/2023 4:25:39 PM	122.3	122.3
CHCV2350	CV-2350	10/5/2023 4:15:16 PM	129.1	128.7
CHCV2351	CV-2351	10/3/2023 12:49:54 PM	130.9	130.5
CHCV2352	CV-2352	10/3/2023 12:56:59 PM	139.3	138.8
CHCV2352	CV-2352	10/3/2023 1:02:38 PM	139.9	140.1
CHCV2352	CV-2352	10/3/2023 1:05:25 PM	140.2	140.2
CHCV2353	CV-2353	10/3/2023 1:14:49 PM	194.6	194.6
CHCV2353	CV-2353	10/3/2023 1:18:54 PM	194.3	194.3
CHCV2353	CV-2353	10/3/2023 2:49:11 PM	195.9	195.6
CHCV2353	CV-2353	10/12/2023 1:29:04 PM	193.3	193.3
CHCV2353	CV-2353	10/18/2023 10:36:33 AM	195.1	195.1
CHCV2353	CV-2353	10/24/2023 1:48:51 PM	195.4	195.4
CHCV2353	CV-2353	10/31/2023 8:20:03 AM	195.1	195.1
CHCV2354	CV-2354	10/3/2023 2:08:18 PM	93.8	94.2
CHCV2354	CV-2354	10/3/2023 2:09:06 PM	94.7	94.8
CHCV2354	CV-2354	10/27/2023 5:08:13 PM	113.9	113.0
CHIWCV25	CV-25	10/23/2023 2:14:51 PM	96.8	93.8
CHICV30S	CV-30S	10/13/2023 1:32:53 PM	125.3	125.0
CHICV33S	CV-33S	10/2/2023 3:12:07 PM	123.4	123.4
CHICV34D	CV-34D	10/5/2023 5:52:23 PM	89.9	89.7
CHICV34D	CV-34D	10/9/2023 11:56:47 AM	102.0	102.6
CHICV34S	CV-34S	10/9/2023 11:52:24 AM	100.4	100.1
CHICV35D	CV-35D	10/9/2023 10:11:25 AM	94.5	97.5
CHWCV48R	CV-48R	10/23/2023 2:42:51 PM	126.2	125.3
CHWCV49S	CV-49S	10/23/2023 2:48:57 PM	86.4	86.4
CHWCV52D	CV-52D	10/24/2023 1:06:07 PM	137.7	138.0
CHWCV53D	CV-53D	10/24/2023 12:53:56 PM	118.8	118.8
CHWCV53S	CV-53S	10/24/2023 1:01:27 PM	135.3	133.4
CHWCV54D	CV-54D	10/2/2023 3:03:04 PM	89.0	89.2

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHWCV54S	CV-54S	10/2/2023 3:06:25 PM	138.3	137.4
CHWCV54S	CV-54S	10/2/2023 3:08:15 PM	137.2	137.2
CHWCV55R	CV-55R	10/27/2023 2:13:46 PM	146.3	144.9
CHWCV55R	CV-55R	10/27/2023 2:18:02 PM	144.7	144.7
CHWCV56D	CV-56D	10/6/2023 1:14:38 PM	124.7	124.7
CHWCV56S	CV-56S	10/6/2023 1:10:51 PM	124.4	124.5
CHWCV57R	CV-57R	10/30/2023 1:55:02 PM	100.5	101.5
CHWCV74R	CV-74R	10/9/2023 10:32:00 AM	110.9	111.0
CHWCV79R	CV-79R	10/9/2023 1:44:03 PM	129.0	129.1
CHWCV84S	CV-84S	10/6/2023 1:49:17 PM	97.8	97.9
CHWCV85S	CV-85S	10/7/2023 3:03:12 PM	105.3	105.3
CHIWCV94	CV-94	10/9/2023 12:54:26 PM	109.2	109.4
CHIWCV95	CV-95	10/16/2023 11:35:40 AM	112.1	112.1
CHIWCV99	CV-99	10/23/2023 1:14:02 PM	120.3	119.5
CHIWD001	D-01	10/26/2023 2:12:09 PM	85.7	87.2
CHIWD001	D-01	10/26/2023 2:14:47 PM	87.0	87.0
CHIWD002	D-02	10/26/2023 2:17:10 PM	97.1	97.3
CHIWD003	D-03	10/26/2023 2:19:53 PM	103.1	103.1
CHIWD004	D-04	10/26/2023 2:24:39 PM	104.5	104.5
CHIWD005	D-05	10/26/2023 2:02:35 PM	96.8	96.9
CHIWD006	D-06	10/19/2023 4:04:14 PM	103.1	103.4
CHIWD009	D-09	10/5/2023 11:30:41 AM	113.3	113.3
CHIWD010	D-10	10/5/2023 1:07:32 PM	99.7	99.8
CHIWH001	H-01 (EXP-01)	10/9/2023 3:27:59 PM	97.0	97.9
CHIWH001	H-01 (EXP-01)	10/9/2023 3:29:42 PM	97.7	97.7
CHIWH002	H-02 (EXP-02)	10/9/2023 3:17:36 PM	102.9	107.6
CHIWH002	H-02 (EXP-02)	10/9/2023 3:20:01 PM	107.7	107.7
CHIWH003	H-03 (EXP-03)	10/9/2023 3:06:15 PM	119.1	119.1
CHIWH004	H-04 (EXP-04)	10/6/2023 1:47:23 PM	133.3	133.3
CHIWH004	H-04 (EXP-04)	10/6/2023 1:49:12 PM	133.3	133.3
CHIWH006	H-06 (EXP-06)	10/9/2023 2:43:03 PM	105.5	103.4
CHIWH006	H-06 (EXP-06)	10/9/2023 2:44:52 PM	102.6	102.6
CHIWH008	H-08 (EXP-08)	10/24/2023 1:44:59 PM	90.9	90.9
CHIWH009	H-09 (EXP-09)	10/9/2023 2:30:01 PM	117.8	117.9
CHIWH010	H-10 (EXP-10)	10/9/2023 2:25:21 PM	120.6	120.6
CHIH101W	H-101W	10/5/2023 11:12:30 AM	118.4	118.8
CHIH101W	H-101W	10/19/2023 4:57:44 PM	105.7	105.6
CHWH102A	H-102A	10/19/2023 4:42:43 PM	101.9	102.0
CHWH104A	H-104A	10/19/2023 4:49:31 PM	100.9	100.8
CHIWH012	H-12 (EXP-12)	10/23/2023 10:49:06 AM	83.5	83.8
CHIWH013	H-13 (EXP-13)	10/23/2023 10:43:11 AM	84.8	86.0
CHIWH013	H-13 (EXP-13)	10/23/2023 10:44:45 AM	85.9	86.0
CHIWH014	H-14 (EXP-14)	10/23/2023 10:53:28 AM	85.4	85.5
CHH1401W	H-1401W	10/19/2023 4:46:00 PM	100.7	100.7
CHH1402C	H-1402C	10/9/2023 8:42:52 AM	118.4	118.4

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1403W	H-1403W	10/24/2023 1:12:58 PM	97.7	97.7
CHH1404C	H-1404C	10/9/2023 11:24:10 AM	113.3	112.9
CHH1405C	H-1405C	10/9/2023 2:40:13 PM	113.0	112.9
CHH1405E	H-1405E	10/9/2023 11:26:34 AM	115.6	115.5
CHH1405W	H-1405W	10/30/2023 2:22:28 PM	89.1	88.7
CHH1406W	H-1406W	10/24/2023 1:22:50 PM	95.5	96.8
CH1408CR	H-1408CR	10/9/2023 8:58:31 AM	101.3	101.4
CHH1408E	H-1408E	10/6/2023 10:20:38 AM	105.5	105.5
CHH1408W	H-1408W	10/9/2023 8:09:09 AM	109.9	109.5
CHH1409N	H-1409N	10/9/2023 10:19:42 AM	89.0	89.2
CHH1409N	H-1409N	10/13/2023 2:20:52 PM	98.4	98.3
CHH1410S	H-1410S	10/5/2023 1:17:36 PM	108.6	109.0
CHH1551C	H-1551C	10/26/2023 4:09:18 PM	124.0	124.3
CHH1560S	H-1560S	10/24/2023 1:35:40 PM	93.4	93.2
CHH1560S	H-1560S	10/24/2023 1:41:25 PM	91.5	92.9
CHH1561C	H-1561C	10/3/2023 3:59:42 PM	152.2	152.2
CHH1561C	H-1561C	10/10/2023 1:53:55 PM	141.9	142.0
CHH1561C	H-1561C	10/18/2023 9:35:35 AM	149.3	149.5
CHH1561C	H-1561C	10/24/2023 2:23:51 PM	140.6	140.6
CHH1561N	H-1561N	10/26/2023 4:31:33 PM	183.8	184.5
CHH1561N	H-1561N	10/26/2023 4:57:11 PM	185.8	186.0
CHH1561N	H-1561N	10/27/2023 11:02:31 AM	109.1	109.6
CHH1562N	H-1562N	10/26/2023 2:43:03 PM	122.6	122.4
CHH1563N	H-1563N	10/9/2023 2:03:53 PM	111.9	112.3
CHH1563N	H-1563N	10/9/2023 2:05:35 PM	112.1	112.1
CHH1563S	H-1563S	10/9/2023 2:44:15 PM	117.1	117.1
CHH1564N	H-1564N	10/9/2023 11:32:13 AM	108.0	107.6
CHH1565C	H-1565C	10/9/2023 11:10:59 AM	112.8	112.8
CHH1565E	H-1565E	10/6/2023 11:13:06 AM	100.4	100.4
CHH1568N	H-1568N	10/6/2023 10:51:52 AM	92.2	92.2
CHH1568N	H-1568N	10/9/2023 10:20:15 AM	92.3	92.5
CHH1568S	H-1568S	10/9/2023 10:52:11 AM	97.4	97.5
CHH1568S	H-1568S	10/26/2023 2:29:46 PM	94.8	94.9
CHH1569S	H-1569S	10/6/2023 10:17:21 AM	95.1	95.4
CHH1571S	H-1571S	10/6/2023 1:56:21 PM	122.9	123.1
CHH1571S	H-1571S	10/26/2023 3:38:39 PM	121.1	121.1
CHH1572N	H-1572N	10/9/2023 1:28:26 PM	123.2	123.2
CHH1572S	H-1572S	10/6/2023 1:46:53 PM	119.3	119.6
CHH1573S	H-1573S	10/9/2023 9:47:25 AM	127.8	128.1
CHH1574N	H-1574N	10/27/2023 3:40:29 PM	122.1	122.1
CHIH1575	H-1575	10/9/2023 2:09:19 PM	99.1	99.2
CHH1751N	H-1751N	10/3/2023 10:08:42 AM	167.3	167.3
CHH1751N	H-1751N	10/10/2023 9:16:55 AM	172.6	172.6
CHH1751N	H-1751N	10/17/2023 1:52:35 PM	178.6	178.6
CHH1751N	H-1751N	10/24/2023 9:36:13 AM	169.5	169.6

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1751N	H-1751N	10/31/2023 11:23:17 AM	169.3	169.3
CHH1751S	H-1751S	10/26/2023 4:17:07 PM	118.4	118.5
CHH1752N	H-1752N	10/5/2023 2:52:11 PM	104.1	104.1
CHH1752S	H-1752S	10/9/2023 2:13:05 PM	112.8	113.2
CHH1753N	H-1753N	10/5/2023 2:48:41 PM	112.6	112.8
CHH1753S	H-1753S	10/9/2023 1:53:53 PM	118.3	117.7
CHH1754N	H-1754N	10/5/2023 2:39:51 PM	122.7	122.7
CHH1754S	H-1754S	10/9/2023 11:18:10 AM	100.0	100.3
CHH1755N	H-1755N	10/11/2023 4:44:17 PM	94.8	92.9
CHH1755N	H-1755N	10/26/2023 2:36:54 PM	106.6	106.2
CHH1755S	H-1755S	10/24/2023 1:54:58 PM	95.5	99.9
CHH1755S	H-1755S	10/28/2023 9:23:11 AM	78.1	82.1
CHH1756N	H-1756N	10/30/2023 3:42:03 PM	103.5	98.4
CHH1756S	H-1756S	10/26/2023 3:20:41 PM	116.9	116.9
CHH1757N	H-1757N	10/3/2023 11:55:23 AM	155.3	154.9
CHH1757N	H-1757N	10/10/2023 11:25:28 AM	154.7	154.6
CHH1757N	H-1757N	10/17/2023 2:54:51 PM	155.7	155.8
CHH1757N	H-1757N	10/24/2023 10:44:46 AM	153.7	153.7
CHH1757N	H-1757N	10/31/2023 10:27:39 AM	154.5	153.9
CHH1757S	H-1757S	10/9/2023 2:33:28 PM	114.2	114.1
CH1758NR	H-1758NR	10/9/2023 1:58:31 PM	116.1	116.1
CHH1759S	H-1759S	10/9/2023 11:13:21 AM	115.7	115.9
CHH1759S	H-1759S	10/9/2023 11:16:11 AM	116.1	116.1
CHH1760N	H-1760N	10/9/2023 10:53:18 AM	95.4	94.4
CHH1760S	H-1760S	10/9/2023 9:58:58 AM	112.9	112.8
CHH1762N	H-1762N	10/6/2023 10:07:20 AM	91.0	91.3
CHH1763N	H-1763N	10/7/2023 3:11:03 PM	119.7	119.7
CHH1763S	H-1763S	10/6/2023 10:33:40 AM	127.7	127.6
CHH1764N	H-1764N	10/9/2023 2:00:00 PM	102.4	102.5
CHH1764S	H-1764S	10/6/2023 2:01:35 PM	110.1	110.1
CHH1764S	H-1764S	10/26/2023 3:42:17 PM	108.0	108.3
CHH1766S	H-1766S	10/27/2023 3:27:42 PM	98.4	98.3
CHH1767N	H-1767N	10/9/2023 10:25:50 AM	118.2	118.7
CHH1767N	H-1767N	10/9/2023 10:28:40 AM	119.0	119.0
CHH1767S	H-1767S	10/9/2023 10:53:41 AM	94.3	97.8
CHH1768N	H-1768N	10/26/2023 5:18:29 PM	72.2	71.7
CHH1769A	H-1769A	10/5/2023 2:06:28 PM	132.2	132.2
CHH1769A	H-1769A	10/5/2023 2:08:22 PM	132.1	132.2
CHH1769A	H-1769A	10/19/2023 4:10:08 PM	133.9	133.8
CHH1769B	H-1769B	10/5/2023 3:01:50 PM	105.8	105.8
CHH1769N	H-1769N	10/23/2023 10:00:53 AM	114.7	114.6
CHH1769S	H-1769S	10/26/2023 3:09:52 PM	101.7	101.6
CHH1770A	H-1770A	10/5/2023 1:50:36 PM	126.4	126.5
CHH1770B	H-1770B	10/3/2023 10:13:36 AM	163.2	163.2
CHH1770B	H-1770B	10/10/2023 9:19:45 AM	165.7	165.7

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1770B	H-1770B	10/17/2023 1:55:41 PM	166.2	166.2
CHH1770B	H-1770B	10/24/2023 9:39:01 AM	165.1	165.1
CHH1770B	H-1770B	10/31/2023 11:18:55 AM	162.6	162.6
CHH1770N	H-1770N	10/3/2023 9:06:30 AM	151.5	151.5
CHH1770N	H-1770N	10/10/2023 8:32:00 AM	164.3	164.1
CHH1770N	H-1770N	10/17/2023 1:10:25 PM	166.0	166.0
CHH1770N	H-1770N	10/24/2023 8:39:39 AM	151.5	151.8
CHH1770N	H-1770N	10/31/2023 2:00:17 PM	151.4	151.3
CHH1770S	H-1770S	10/9/2023 2:28:32 PM	119.6	119.3
CHH1771A	H-1771A	10/6/2023 3:19:31 PM	117.5	117.3
CHH1771B	H-1771B	10/9/2023 9:07:41 AM	103.9	104.0
CHH1771N	H-1771N	10/6/2023 11:57:28 AM	98.2	98.7
CHH1771N	H-1771N	10/6/2023 11:57:32 AM	98.2	98.7
CHH1771N	H-1771N	10/6/2023 12:00:06 PM	98.9	98.9
CHH1771S	H-1771S	10/6/2023 10:14:04 AM	104.0	104.1
CHH1772A	H-1772A	10/6/2023 12:27:03 PM	117.7	117.8
CHH1772B	H-1772B	10/9/2023 8:51:05 AM	109.8	109.8
CHH1772C	H-1772C	10/9/2023 9:38:03 AM	86.5	86.8
CHH1772N	H-1772N	10/9/2023 9:25:26 AM	77.1	78.8
CHH1772S	H-1772S	10/9/2023 11:05:36 AM	115.3	115.3
CHH1773A	H-1773A	10/3/2023 8:34:55 AM	179.8	179.8
CHH1773A	H-1773A	10/10/2023 8:03:08 AM	180.2	180.7
CHH1773A	H-1773A	10/17/2023 8:26:39 AM	181.5	181.7
CHH1773A	H-1773A	10/24/2023 8:00:18 AM	181.7	181.7
CHH1773A	H-1773A	10/31/2023 2:32:52 PM	183.0	183.0
CHH1773B	H-1773B	10/24/2023 1:58:57 PM	96.3	96.3
CHH1773C	H-1773C	10/26/2023 3:46:36 PM	111.2	111.3
CHH1773C	H-1773C	10/26/2023 4:02:18 PM	111.1	111.1
CHH1773N	H-1773N	10/25/2023 11:26:11 AM	126.2	126.2
CHH1774A	H-1774A	10/3/2023 9:19:28 AM	160.8	160.7
CHH1774A	H-1774A	10/10/2023 8:45:10 AM	156.5	156.5
CHH1774A	H-1774A	10/17/2023 1:21:12 PM	153.3	153.3
CHH1774A	H-1774A	10/24/2023 9:08:19 AM	155.7	155.5
CHH1774A	H-1774A	10/31/2023 1:49:48 PM	157.3	157.3
CHH1774B	H-1774B	10/3/2023 9:49:42 AM	187.9	187.9
CHH1774N	H-1774N	10/23/2023 9:03:50 AM	111.8	111.8
CHH1774S	H-1774S	10/26/2023 3:51:28 PM	123.7	120.7
CHH1801S	H-1801S	10/30/2023 1:59:09 PM	126.2	126.2
CHH1802N	H-1802N	10/13/2023 11:15:19 AM	109.0	109.0
CHH1802S	H-1802S	10/9/2023 1:32:26 PM	130.3	130.3
CHH1803N	H-1803N	10/3/2023 8:50:10 AM	175.9	175.7
CHH1803N	H-1803N	10/10/2023 8:20:19 AM	175.9	176.1
CHH1803N	H-1803N	10/17/2023 1:00:09 PM	176.5	176.3
CHH1803N	H-1803N	10/24/2023 8:27:04 AM	174.2	174.0
CHH1803N	H-1803N	10/31/2023 2:18:25 PM	174.0	174.2

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1804A	H-1804A	10/13/2023 11:01:04 AM	113.5	113.6
CHH1804B	H-1804B	10/19/2023 3:31:12 PM	101.9	102.0
CHH1804N	H-1804N	10/9/2023 9:22:32 AM	117.1	117.1
CHH1804S	H-1804S	10/9/2023 1:55:44 PM	106.7	106.8
CHH1805A	H-1805A	10/4/2023 9:48:09 AM	121.8	121.8
CHH1805B	H-1805B	10/9/2023 12:28:00 PM	107.8	107.8
CHH1805S	H-1805S	10/9/2023 1:49:45 PM	129.2	129.2
CHH1806A	H-1806A	10/4/2023 9:29:38 AM	116.4	116.4
CHH1806B	H-1806B	10/9/2023 1:24:22 PM	111.0	111.0
CHH1806N	H-1806N	10/9/2023 8:40:01 AM	122.4	122.9
CHH1806S	H-1806S	10/6/2023 10:47:44 AM	114.9	114.9
CHH1807A	H-1807A	10/9/2023 12:45:11 PM	114.9	114.9
CHH1807N	H-1807N	10/19/2023 3:06:23 PM	127.6	126.6
CHH1807S	H-1807S	10/6/2023 11:28:15 AM	105.0	105.2
CHH1807S	H-1807S	10/6/2023 11:33:57 AM	103.6	103.6
CHH1807S	H-1807S	10/20/2023 6:37:57 PM	76.0	75.8
CHH1951W	H-1951W	10/9/2023 9:35:51 AM	91.8	91.7
CHH1952C	H-1952C	10/25/2023 11:20:52 AM	102.3	104.7
CHH1952C	H-1952C	10/25/2023 11:22:20 AM	106.9	106.9
CHH1952N	H-1952N	10/6/2023 12:05:43 PM	126.6	126.4
CHH1952S	H-1952S	10/9/2023 10:40:20 AM	117.4	115.2
CHH1953C	H-1953C	10/9/2023 9:19:06 AM	86.5	86.5
CHH1953N	H-1953N	10/6/2023 11:57:22 AM	116.1	116.2
CHH1953S	H-1953S	10/9/2023 9:50:29 AM	104.1	104.4
CHH1954C	H-1954C	10/13/2023 10:51:58 AM	112.7	112.8
CHH1954N	H-1954N	10/6/2023 12:42:54 PM	109.9	109.9
CHH1954S	H-1954S	10/9/2023 10:00:06 AM	86.4	86.4
CHH1955C	H-1955C	10/4/2023 11:09:22 AM	110.7	110.7
CHH1955N	H-1955N	10/9/2023 8:58:39 AM	86.3	86.1
CHH1955S	H-1955S	10/19/2023 3:35:57 PM	107.9	108.1
CHH1955S	H-1955S	10/19/2023 3:38:50 PM	108.2	108.2
CHH1956B	H-1956B	10/9/2023 1:47:11 PM	101.9	102.2
CHH1956N	H-1956N	10/9/2023 8:47:37 AM	109.3	109.7
CHH1956S	H-1956S	10/9/2023 1:40:21 PM	115.8	115.9
CHH1957A	H-1957A	10/9/2023 12:38:53 PM	96.4	97.3
CHH1957B	H-1957B	10/9/2023 1:14:17 PM	107.0	106.9
CHH1957N	H-1957N	10/9/2023 8:32:03 AM	118.1	118.2
CHH1957N	H-1957N	10/13/2023 2:34:07 PM	118.3	118.3
CHH1957S	H-1957S	10/30/2023 2:03:10 PM	116.8	115.3
CHH1958C	H-1958C	10/6/2023 11:44:50 AM	121.7	121.7
CHH1958C	H-1958C	10/9/2023 12:49:47 PM	121.4	121.5
CHH1958N	H-1958N	10/19/2023 3:14:56 PM	102.5	102.4
CHH1958S	H-1958S	10/6/2023 11:39:56 AM	118.7	118.7
CHH-1960	H-1960	10/3/2023 2:13:58 PM	179.0	179.2
CHH1962A	H-1962A	10/5/2023 1:55:51 PM	96.8	97.6

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1962B	H-1962B	10/3/2023 10:02:22 AM	173.3	173.3
CHH1962B	H-1962B	10/10/2023 9:07:57 AM	172.6	172.6
CHH1962B	H-1962B	10/18/2023 8:32:17 AM	169.6	169.6
CHH1962B	H-1962B	10/24/2023 9:29:24 AM	171.0	171.0
CHH1962B	H-1962B	10/31/2023 11:30:51 AM	173.3	173.3
CHH1962N	H-1962N	10/23/2023 9:22:23 AM	135.8	135.7
CHH1962N	H-1962N	10/23/2023 9:26:02 AM	135.5	135.5
CHH1962S	H-1962S	10/3/2023 12:09:36 PM	166.2	166.0
CHH1962S	H-1962S	10/10/2023 11:34:03 AM	181.7	181.7
CHH1962S	H-1962S	10/17/2023 2:58:07 PM	184.9	184.9
CHH1962S	H-1962S	10/24/2023 11:16:59 AM	166.2	167.3
CHH1962S	H-1962S	10/24/2023 11:20:45 AM	167.3	167.3
CHH1962S	H-1962S	10/31/2023 10:15:08 AM	166.0	168.1
CHH1962S	H-1962S	10/31/2023 10:18:00 AM	169.0	169.0
CHH1963A	H-1963A	10/5/2023 2:01:27 PM	120.7	120.6
CHH1963N	H-1963N	10/30/2023 2:23:39 PM	121.9	121.9
CHH1964C	H-1964C	10/5/2023 2:25:37 PM	96.1	96.1
CHH1964N	H-1964N	10/26/2023 3:39:00 PM	146.9	146.9
CHH1964S	H-1964S	10/9/2023 11:21:09 AM	105.4	105.4
CHH1965C	H-1965C	10/5/2023 2:35:49 PM	124.9	124.9
CHH1965S	H-1965S	10/9/2023 10:47:16 AM	92.1	92.8
CHH1966N	H-1966N	10/23/2023 9:14:25 AM	111.6	109.1
CHH1966S	H-1966S	10/26/2023 2:17:57 PM	113.8	113.7
CHH1967E	H-1967E	10/5/2023 10:46:11 AM	98.8	99.8
CHH1967E	H-1967E	10/5/2023 11:03:10 AM	99.5	99.5
CHH1967W	H-1967W	10/19/2023 4:20:05 PM	101.4	101.4
CHH2051W	H-2051W	10/19/2023 4:23:46 PM	107.1	107.1
CHH2052W	H-2052W	10/19/2023 4:13:36 PM	100.9	101.0
CHH2053E	H-2053E	10/30/2023 2:32:35 PM	118.5	118.3
CHH2053W	H-2053W	10/19/2023 5:01:47 PM	107.6	107.6
CHH2054W	H-2054W	10/6/2023 9:57:47 AM	109.0	109.0
CHH2055E	H-2055E	10/5/2023 4:42:34 PM	112.6	112.6
CHH2056E	H-2056E	10/28/2023 11:23:23 AM	96.3	96.3
CHH2056W	H-2056W	10/19/2023 4:27:49 PM	110.9	110.9
CHH2057E	H-2057E	10/5/2023 11:24:23 AM	122.1	122.1
CHH2057W	H-2057W	10/19/2023 4:37:28 PM	120.6	120.7
CHH2058A	H-2058A	10/9/2023 2:26:36 PM	112.4	112.8
CHH2058B	H-2058B	10/27/2023 3:05:20 PM	105.3	105.1
CHH2058E	H-2058E	10/5/2023 11:36:18 AM	107.3	107.3
CHH2058W	H-2058W	10/19/2023 4:31:30 PM	106.4	106.5
CHH2059W	H-2059W	10/9/2023 2:13:18 PM	117.7	118.0
CHH2160B	H-2160B	10/27/2023 2:56:49 PM	119.8	119.8
CHH2160E	H-2160E	10/5/2023 1:41:19 PM	116.1	116.1
CHH2161W	H-2161W	10/9/2023 2:16:32 PM	117.7	117.8
CHH2162B	H-2162B	10/5/2023 4:20:21 PM	110.5	110.5

Attachment D - Well Temperature Data
October 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2162W	H-2162W	10/24/2023 2:22:16 PM	117.4	117.4
CHH2163C	H-2163C	10/9/2023 8:33:50 AM	105.7	106.4
CHH2163E	H-2163E	10/9/2023 9:10:25 AM	104.6	104.7
CHH2163W	H-2163W	10/9/2023 8:01:54 AM	108.4	108.4
CHH2164A	H-2164A	10/5/2023 3:59:05 PM	113.8	114.0
CHH2164B	H-2164B	10/5/2023 4:27:05 PM	111.7	111.7
CHH2164E	H-2164E	10/5/2023 4:51:52 PM	123.8	123.7
CHH2165E	H-2165E	10/6/2023 10:38:42 AM	110.7	110.7
CHH2165E	H-2165E	10/9/2023 10:59:46 AM	114.4	114.6
CHH2165E	H-2165E	10/26/2023 3:32:12 PM	114.3	114.2
CHH2165W	H-2165W	10/24/2023 2:17:37 PM	120.6	120.7
CHH2166A	H-2166A	10/9/2023 9:13:31 AM	79.5	80.1
CHH2166C	H-2166C	10/4/2023 9:33:49 AM	112.9	113.0
CHH2166E	H-2166E	10/9/2023 10:59:03 AM	120.2	120.2
CHH2166W	H-2166W	10/25/2023 11:31:48 AM	97.6	97.2
CHH2167A	H-2167A	10/13/2023 10:15:13 AM	103.4	103.3
CHH2167B	H-2167B	10/4/2023 11:16:12 AM	90.4	89.7
CHH2167B	H-2167B	10/4/2023 11:24:20 AM	89.2	89.1
CHH2167C	H-2167C	10/5/2023 3:39:45 PM	108.7	108.7
CHH2167E	H-2167E	10/9/2023 12:59:38 PM	98.6	98.7
CHH2167W	H-2167W	10/25/2023 11:15:25 AM	80.1	80.7
CHH2168A	H-2168A	10/7/2023 3:40:00 PM	104.6	104.4
CHH2168A	H-2168A	10/7/2023 3:44:52 PM	103.6	103.4
CHH2168C	H-2168C	10/5/2023 10:53:22 AM	91.7	91.7
CHH2168E	H-2168E	10/9/2023 1:10:16 PM	107.1	108.0
CHH2169B	H-2169B	10/7/2023 3:30:19 PM	109.1	109.3
CHH2169C	H-2169C	10/9/2023 2:11:41 PM	91.9	92.1
CHH2169E	H-2169E	10/9/2023 11:15:13 AM	118.9	119.0
CHH2169W	H-2169W	10/9/2023 10:26:39 AM	96.1	96.1
CHH2170N	H-2170N	10/23/2023 1:49:37 PM	116.6	116.6
CHH2170S	H-2170S	10/24/2023 12:48:20 PM	89.4	89.5
CHH2171A	H-2171A	10/13/2023 10:56:06 AM	110.4	110.4
CHH2171B	H-2171B	10/24/2023 1:11:40 PM	113.9	113.9
CHH2171S	H-2171S	10/23/2023 1:46:51 PM	117.5	117.6
CHH2272C	H-2272C	10/5/2023 4:09:09 PM	121.1	121.1
CHH2272C	H-2272C	10/5/2023 4:37:44 PM	120.4	120.4
CHH2272W	H-2272W	10/6/2023 9:53:55 AM	118.7	118.7
CHH2273C	H-2273C	10/9/2023 11:31:13 AM	112.1	112.2
CHH2273W	H-2273W	10/26/2023 3:27:49 PM	123.6	123.6
CHH2274B	H-2274B	10/9/2023 10:44:43 AM	113.3	113.2
CHH2274B	H-2274B	10/9/2023 2:52:48 PM	110.9	110.9
CHH2274B	H-2274B	10/26/2023 2:33:38 PM	113.0	113.0
CHH2274E	H-2274E	10/6/2023 1:38:19 PM	104.4	104.1
CHH2274W	H-2274W	10/26/2023 3:43:44 PM	121.4	121.4
CHH2275C	H-2275C	10/5/2023 4:05:07 PM	115.7	115.8

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2275C	H-2275C	10/9/2023 1:47:01 PM	113.4	113.2
CHH2275E	H-2275E	10/6/2023 10:23:20 AM	109.4	109.6
CHH2275W	H-2275W	10/9/2023 2:48:33 PM	110.7	110.7
CHH2275W	H-2275W	10/9/2023 2:48:34 PM	110.7	110.7
CHH2276A	H-2276A	10/9/2023 10:58:46 AM	115.3	115.3
CHH2276B	H-2276B	10/9/2023 10:27:02 AM	98.4	98.4
CHH2276E	H-2276E	10/9/2023 12:21:43 PM	113.1	113.2
CHH2276W	H-2276W	10/28/2023 10:26:14 AM	88.8	87.8
CHH2277A	H-2277A	10/9/2023 10:58:08 AM	91.0	91.2
CHH2277B	H-2277B	10/6/2023 10:55:35 AM	95.5	95.5
CHH2277B	H-2277B	10/9/2023 10:34:29 AM	108.5	108.5
CHH2277E	H-2277E	10/30/2023 2:15:10 PM	107.8	107.6
CHH2277W	H-2277W	10/9/2023 2:25:13 PM	123.2	123.2
CHIWH023	H-23 (EXP-23)	10/23/2023 2:17:41 PM	94.5	94.5
CHH2301E	H-2301E	10/30/2023 3:24:10 PM	100.6	101.9
CHH2301E	H-2301E	10/30/2023 3:26:04 PM	102.5	102.3
CHH2303E	H-2303E	10/30/2023 2:42:53 PM	84.9	85.1
CHIWH029	H-29	10/23/2023 1:39:54 PM	126.1	125.4
CHIWH030	H-30	10/23/2023 1:55:45 PM	95.4	95.6
CHIWH031	H-31	10/24/2023 1:26:36 PM	99.4	106.9
CHIWH048	H-48	10/23/2023 2:53:36 PM	86.4	86.5
CHIWH051	H-51	10/23/2023 11:15:04 AM	83.3	84.2
CHIWH052	H-52	10/23/2023 1:21:55 PM	93.6	93.7
CHIWH053	H-53	10/26/2023 1:58:49 PM	101.8	101.7
CHIWH054	H-54	10/25/2023 11:58:52 AM	98.5	98.4
CHIWH059	H-59	10/30/2023 3:57:56 PM	109.5	109.5
CHIWH060	H-60	10/23/2023 1:40:08 PM	91.1	91.1
CHIWH064	H-64	10/3/2023 9:34:38 AM	188.6	188.6
CHIWH065	H-65	10/26/2023 2:51:00 PM	102.9	102.9
CHIWH067	H-67	10/5/2023 2:42:24 PM	109.2	109.3
CHIWH072	H-72	10/23/2023 2:55:49 PM	97.6	98.0
CHIWH074	H-74	10/24/2023 1:17:32 PM	122.3	122.2
CHIWH076	H-76	10/30/2023 5:02:27 PM	103.8	103.9
CHIWH077	H-77	10/26/2023 1:41:32 PM	107.6	107.6
CHIWH77A	H-77A	10/23/2023 11:31:47 AM	81.0	79.9
CHIWH078	H-78	10/23/2023 11:20:10 AM	93.8	93.8
CHIWH78A	H-78A	10/30/2023 4:08:02 PM	93.4	93.5
CHIWH079	H-79	10/6/2023 1:20:26 PM	136.0	136.5
CHIWH084	H-84	10/25/2023 11:51:04 AM	98.0	98.0
CHIWP002	P-02	10/4/2023 10:13:55 AM	88.0	88.0
CHIWP02R	P-02R	10/19/2023 2:41:29 PM	96.0	95.9
CHIWP03R	P-03R	10/4/2023 2:08:13 PM	98.6	100.9
CHIWP03R	P-03R	10/4/2023 2:12:26 PM	101.2	101.2
CHIWP004	P-04	10/19/2023 2:30:27 PM	101.7	103.3
CHIWP005	P-05	10/19/2023 2:23:41 PM	109.2	110.4

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP06R	P-06R	10/19/2023 2:14:28 PM	112.6	114.4
CHIWP06R	P-06R	10/19/2023 2:16:17 PM	114.6	114.6
CHIWP07R	P-07R	10/4/2023 2:43:40 PM	104.5	95.0
CHIWP07R	P-07R	10/4/2023 2:47:18 PM	94.6	94.6
CHIWP08R	P-08R	10/19/2023 1:36:11 PM	104.5	104.6
CHIWP009	P-09	10/4/2023 10:22:37 AM	90.1	92.8
CHIWP010	P-10	10/4/2023 10:34:05 AM	94.1	96.6
CHIWP011	P-11	10/4/2023 10:39:36 AM	107.1	107.1
CHIWP012	P-12	10/19/2023 2:00:27 PM	101.1	98.4
CHIWP012	P-12	10/19/2023 2:02:57 PM	96.9	96.8
CHIWP013	P-13	10/19/2023 1:54:13 PM	89.6	89.1
CHIWP014	P-14	10/19/2023 1:46:48 PM	100.6	91.6
CHIWP15R	P-15R	10/3/2023 1:57:03 PM	94.9	94.9
CHIWP016	P-16	10/3/2023 10:37:20 AM	85.3	85.4
CHIWP016	P-16	10/4/2023 10:48:47 AM	93.0	93.5
CHIWP016	P-16	10/4/2023 10:51:24 AM	93.6	93.6
CHIWP017	P-17	10/4/2023 11:07:52 AM	98.8	102.4
CHIWP017	P-17	10/4/2023 11:11:17 AM	102.8	102.8
CHIP18RD	P-18RD	10/3/2023 2:34:13 PM	95.1	95.1
CHIP18RS	P-18RS	10/4/2023 11:36:40 AM	94.6	91.4
CHIP18RS	P-18RS	10/4/2023 11:40:14 AM	91.1	91.3
CHIWP019	P-19	10/4/2023 11:48:49 AM	93.3	92.2
CHIWP019	P-19	10/4/2023 11:54:50 AM	91.1	91.1
CHIWP20R	P-20R	10/2/2023 4:24:47 PM	78.3	90.7
CHIWP20R	P-20R	10/2/2023 4:28:18 PM	91.7	91.7
CHIWP021	P-21	10/2/2023 4:06:51 PM	83.6	89.1
CHIWP021	P-21	10/2/2023 4:10:04 PM	89.6	89.7
CHIP21RD	P-21RD	10/4/2023 3:24:56 PM	98.0	100.1
CHIP21RD	P-21RD	10/4/2023 3:32:05 PM	100.3	100.3
CHIP21RS	P-21RS	10/3/2023 2:47:47 PM	108.7	108.7
CHIP22RD	P-22RD	10/3/2023 3:52:50 PM	115.1	115.1
CHIP22RS	P-22RS	10/3/2023 3:49:44 PM	114.2	114.3
CHIWP023	P-23	10/2/2023 3:39:00 PM	87.1	89.9
CHIWP023	P-23	10/2/2023 3:42:49 PM	89.7	89.7
CHIWP024	P-24	10/2/2023 3:19:57 PM	86.2	86.3
CHIWP024	P-24	10/2/2023 3:23:59 PM	86.3	86.3
CHIWP026	P-26	10/2/2023 2:42:35 PM	84.9	84.9
CHIWP027	P-27	10/2/2023 2:18:56 PM	83.8	83.6
CHIWP027	P-27	10/2/2023 2:21:26 PM	84.2	84.2
CHIWP027	P-27	10/19/2023 3:45:46 PM	100.4	98.8
CHIWP027	P-27	10/19/2023 3:47:47 PM	97.5	97.4
CHIWP028	P-28	10/2/2023 2:05:21 PM	87.1	87.8
CHIWP29R	P-29R	10/2/2023 1:59:33 PM	87.1	87.6
CHIWP30R	P-30R	10/2/2023 1:54:59 PM	90.0	90.0
CHIP32R1	P-32R1	10/2/2023 12:09:21 PM	99.1	99.1

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIP32R2	P-32R2	10/2/2023 12:04:24 PM	93.6	101.7
CHIWP033	P-33	10/2/2023 11:54:55 AM	84.5	84.5
CHIWP034	P-34	10/2/2023 11:48:09 AM	82.9	84.2
CHIWP036	P-36	10/2/2023 11:24:40 AM	103.9	103.9
CHIWP037	P-37	10/2/2023 11:13:53 AM	90.2	92.5
CHIP38RD	P-38RD	10/3/2023 10:43:49 AM	103.4	104.2
CHIP38RS	P-38RS	10/3/2023 10:47:59 AM	102.2	102.2
CHIWP039	P-39	10/3/2023 11:19:07 AM	86.7	86.7
CHIWP041	P-41	10/3/2023 11:33:52 AM	109.6	110.1
CHIWP42R	P-42R	10/3/2023 11:42:23 AM	118.3	118.3
CHIWP043	P-43	10/3/2023 11:48:01 AM	92.4	92.7
CHIP44RD	P-44RD	10/3/2023 11:55:12 AM	105.3	105.4
CHIP44RS	P-44RS	10/3/2023 11:58:33 AM	120.8	120.9
CHIP45RD	P-45RD	10/3/2023 12:07:48 PM	113.8	113.9
CHIP45RS	P-45RS	10/3/2023 12:04:33 PM	113.9	114.2
CHIP46RD	P-46RD	10/3/2023 12:16:25 PM	108.7	108.8
CHIP46RS	P-46RS	10/3/2023 12:12:43 PM	114.2	114.3
CHIWP047	P-47	10/4/2023 9:13:53 AM	96.7	96.8
CHIWP048	P-48	10/3/2023 12:36:20 PM	115.7	123.1
CHIWP048	P-48	10/4/2023 9:35:35 AM	124.2	120.9
CHIP49RD	P-49RD	10/3/2023 8:25:56 AM	113.9	113.9
CHIP49RS	P-49RS	10/3/2023 8:32:12 AM	108.0	108.0
CHIWP052	P-52	10/3/2023 8:49:56 AM	73.8	73.8
CHIWP053	P-53	10/3/2023 8:54:07 AM	73.9	73.9
CHIWP054	P-54	10/3/2023 8:58:48 AM	70.9	70.9
CHIWP055	P-55	10/3/2023 9:05:03 AM	71.6	71.5
CHIWP056	P-56	10/3/2023 9:31:47 AM	97.0	97.0
CHIWP057	P-57	10/3/2023 9:20:01 AM	76.8	76.8
CHIWP60R	P-60R	10/3/2023 9:55:07 AM	79.8	79.8
CHIWP061	P-61	10/3/2023 10:11:18 AM	90.9	90.9
CHIWP065	P-65	10/3/2023 10:21:15 AM	91.9	91.9
CHIWP071	P-71	10/3/2023 12:51:22 PM	94.8	94.9
CHIWP075	P-75	10/3/2023 9:51:15 AM	96.1	96.2
CHIWP076	P-76	10/27/2023 4:38:35 PM	79.1	87.9
CHIWP076	P-76	10/27/2023 4:40:52 PM	91.5	91.5
CHIWP079	P-79	10/3/2023 4:10:31 PM	95.0	94.9
CSC2000E	SC-2000E	10/5/2023 1:27:42 PM	112.1	116.1
CSC2000E	SC-2000E	10/5/2023 1:33:11 PM	116.6	116.6
CSC2001E	SC-2001E	10/9/2023 8:51:17 AM	90.8	91.9
CSC2001W	SC-2001W	10/19/2023 5:06:19 PM	105.0	104.9
CHISW010	SW-10	10/23/2023 11:25:32 AM	87.4	87.6
CHISW115	SW-115	10/23/2023 9:19:37 AM	85.2	85.2
CHSW1445	SW-1445	10/27/2023 2:41:02 PM	79.7	79.7
CHSW1455	SW-1455	10/27/2023 2:32:54 PM	87.7	87.7
CHISW154	SW-154	10/9/2023 2:57:59 PM	89.6	87.1

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHISW154	SW-154	10/9/2023 3:00:40 PM	88.2	88.3
CSW17135	SW-17-135	10/27/2023 2:38:12 PM	79.0	79.0
CHISW187	SW-187	10/9/2023 2:15:07 PM	96.7	95.5
CHISW187	SW-187	10/9/2023 2:21:15 PM	94.1	93.7
CHSW1930	SW-1930	10/9/2023 10:36:17 AM	97.2	98.2
CHSW1930	SW-1930	10/13/2023 11:28:58 AM	92.1	91.6
CHSW1930	SW-1930	10/16/2023 3:21:53 PM	111.3	111.5
CHSW1930	SW-1930	10/24/2023 8:57:05 AM	61.4	61.2
CHSW1930	SW-1930	10/25/2023 9:23:26 AM	66.1	66.1
CHSW1930	SW-1930	10/25/2023 10:59:03 AM	82.8	83.8
CHSW1930	SW-1930	10/26/2023 8:15:57 AM	58.3	58.2
CHSW1930	SW-1930	10/27/2023 8:21:45 AM	53.8	53.6
CHSW1930	SW-1930	10/30/2023 10:13:46 AM	75.9	75.9
CHSW1930	SW-1930	10/31/2023 9:14:00 AM	71.3	71.3
CHISW020	SW-20	10/3/2023 3:13:07 PM	97.7	97.3
CHISW025	SW-25	10/9/2023 10:18:09 AM	85.9	85.9
CHISW025	SW-25	10/12/2023 9:44:10 AM	82.7	82.7
CHISW025	SW-25	10/13/2023 9:59:32 AM	83.1	83.1
CHISW025	SW-25	10/16/2023 2:18:16 PM	101.1	101.0
CHISW025	SW-25	10/24/2023 9:18:56 AM	82.7	82.7
CHISW025	SW-25	10/25/2023 8:47:58 AM	82.5	82.5
CHISW025	SW-25	10/26/2023 8:19:17 AM	81.8	81.8
CHISW025	SW-25	10/27/2023 8:27:09 AM	81.2	81.2
CHISW025	SW-25	10/30/2023 10:17:24 AM	81.3	81.3
CHISW025	SW-25	10/31/2023 9:27:05 AM	80.4	80.5
CHISW030	SW-30	10/13/2023 10:49:03 AM	84.7	84.6
CHISW030	SW-30	10/16/2023 2:45:43 PM	101.2	101.3
CHISW030	SW-30	10/24/2023 9:45:41 AM	74.2	74.2
CHISW030	SW-30	10/25/2023 10:15:39 AM	73.2	73.4
CHISW030	SW-30	10/26/2023 8:50:22 AM	70.8	71.0
CHISW030	SW-30	10/27/2023 8:56:19 AM	71.2	71.4
CHISW030	SW-30	10/30/2023 10:46:27 AM	72.6	72.6
CHISW030	SW-30	10/31/2023 10:05:00 AM	75.5	75.4
CHISW032	SW-32	10/12/2023 11:26:26 AM	86.8	86.8
CHISW032	SW-32	10/13/2023 10:52:24 AM	89.2	89.4
CHISW032	SW-32	10/16/2023 2:53:49 PM	103.0	103.3
CHISW032	SW-32	10/24/2023 9:53:37 AM	80.9	81.2
CHISW032	SW-32	10/25/2023 10:22:01 AM	77.2	77.3
CHISW032	SW-32	10/26/2023 8:56:26 AM	69.3	69.4
CHISW032	SW-32	10/27/2023 9:04:48 AM	69.7	70.2
CHISW032	SW-32	10/30/2023 10:51:58 AM	76.9	76.9
CHISW032	SW-32	10/31/2023 10:19:34 AM	76.9	76.6
CHISW064	SW-64	10/13/2023 10:43:41 AM	87.0	86.9
CHISW064	SW-64	10/16/2023 2:42:42 PM	100.5	100.4
CHISW064	SW-64	10/24/2023 9:41:31 AM	77.1	77.0

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHISW064	SW-64	10/25/2023 10:12:42 AM	73.5	73.6
CHISW064	SW-64	10/26/2023 8:45:58 AM	65.5	65.7
CHISW064	SW-64	10/27/2023 8:53:22 AM	68.0	68.1
CHISW064	SW-64	10/30/2023 10:43:44 AM	72.7	72.7
CHISW064	SW-64	10/31/2023 9:58:50 AM	81.3	81.5
CHISW065	SW-65	10/23/2023 9:22:28 AM	87.5	87.5
CHISW066	SW-66	10/9/2023 2:52:47 PM	92.1	92.0
CHISW068	SW-68	10/12/2023 11:32:30 AM	80.7	80.6
CHISW068	SW-68	10/13/2023 10:55:03 AM	83.4	83.3
CHISW068	SW-68	10/16/2023 2:50:12 PM	90.7	90.5
CHISW068	SW-68	10/24/2023 9:48:47 AM	75.8	75.8
CHISW068	SW-68	10/25/2023 10:18:59 AM	76.0	76.0
CHISW068	SW-68	10/26/2023 8:54:21 AM	71.6	71.4
CHISW068	SW-68	10/27/2023 9:01:34 AM	72.2	72.2
CHISW068	SW-68	10/30/2023 10:49:53 AM	73.4	73.4
CHISW068	SW-68	10/31/2023 10:14:03 AM	73.9	74.2
CHISW007	SW-7	10/9/2023 10:26:23 AM	80.7	81.7
CHISW007	SW-7	10/12/2023 9:48:42 AM	77.7	77.7
CHISW007	SW-7	10/13/2023 10:03:01 AM	77.8	77.8
CHISW007	SW-7	10/24/2023 9:30:26 AM	75.6	75.6
CHISW007	SW-7	10/25/2023 8:52:30 AM	75.7	75.7
CHISW007	SW-7	10/26/2023 8:22:22 AM	73.5	73.6
CHISW007	SW-7	10/27/2023 8:33:16 AM	72.2	72.2
CHISW007	SW-7	10/30/2023 10:20:35 AM	74.6	74.5
CHISW007	SW-7	10/31/2023 9:35:16 AM	75.7	75.7
CHISW070	SW-70	10/23/2023 10:30:37 AM	88.8	88.2
CHISW071	SW-71	10/2/2023 3:05:35 PM	85.8	85.9
CHISW072	SW-72	10/2/2023 11:38:33 AM	84.0	84.3
CHISW080	SW-80	10/13/2023 10:28:40 AM	85.5	85.8
CHISW009	SW-9	10/23/2023 10:38:03 AM	80.6	79.6
CHH1959N	TC-1959N	10/9/2023 3:54:14 PM	95.5	95.5
CHH1959S	TC-1959S	10/24/2023 2:06:37 PM	116.7	116.7
CHH1961A	TC-1961A	10/9/2023 1:41:59 PM	113.0	113.0
CHH1961C	TC-1961C	10/6/2023 2:10:33 PM	106.8	107.1
CHH1961C	TC-1961C	10/26/2023 3:47:48 PM	95.9	97.5
CHH1961E	TC-1961E	10/16/2023 11:09:46 AM	115.7	115.8
CHH1961E	TC-1961E	10/16/2023 11:15:48 AM	116.6	116.6
CHH1961W	TC-1961W	10/6/2023 10:12:45 AM	107.7	108.1
CHH2173W	TC-2173	10/6/2023 3:15:09 PM	108.2	109.0
CHTC2174	TC-2174	10/13/2023 1:52:42 PM	143.3	134.4
CHTC2174	TC-2174	10/13/2023 1:55:51 PM	133.4	133.4
CHTC2174	TC-2174	10/13/2023 2:02:20 PM	132.5	145.0
CHTC2174	TC-2174	10/13/2023 2:04:32 PM	144.7	144.9
CHTC2378	TC-2378	10/26/2023 3:32:46 PM	149.3	149.5
CHTC2378	TC-2378	10/31/2023 3:13:03 PM	146.5	146.4

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CTC2378E	TC-2378E	10/24/2023 1:52:51 PM	144.4	144.2
CTC2378E	TC-2378E	10/24/2023 1:54:56 PM	143.1	143.2
CTC2380E	TC-2380E	10/9/2023 8:58:55 AM	104.8	104.2
CTC2380W	TC-2380W	10/26/2023 3:28:02 PM	111.5	111.5
CTC2381E	TC-2381E	10/3/2023 11:22:45 AM	144.2	144.7
CTC2381E	TC-2381E	10/3/2023 11:24:31 AM	144.3	144.3
CTC2382A	TC-2382A	10/3/2023 2:21:01 PM	166.0	166.0
CTC2382B	TC-2382B	10/3/2023 2:06:24 PM	168.6	168.6
CTC2382B	TC-2382B	10/10/2023 1:52:56 PM	178.2	178.2
CTC2382B	TC-2382B	10/19/2023 11:39:54 AM	170.8	170.8
CTC2382B	TC-2382B	10/24/2023 2:29:11 PM	156.2	156.1
CTC2382B	TC-2382B	10/31/2023 10:00:56 AM	164.3	163.5
CTC2382E	TC-2382E	10/3/2023 4:11:28 PM	171.4	171.4
CTC2382E	TC-2382E	10/12/2023 2:06:24 PM	176.3	176.1
CTC2382E	TC-2382E	10/18/2023 9:03:52 AM	168.8	168.8
CTC2382E	TC-2382E	10/24/2023 11:37:00 AM	170.5	170.5
CTC2382E	TC-2382E	10/31/2023 9:43:59 AM	163.1	163.1
CTC2383S	TC-2383S	10/27/2023 3:10:38 PM	84.9	85.4
CTC2383S	TC-2383S	10/27/2023 3:12:18 PM	85.3	85.4
CTC2383S	TC-2383S	10/30/2023 1:47:03 PM	81.9	81.9
CTC2385A	TC-2385A	10/4/2023 3:37:54 PM	155.9	151.2
CTC2385A	TC-2385A	10/12/2023 2:26:41 PM	144.0	144.0
CTC2385A	TC-2385A	10/19/2023 10:54:57 AM	153.3	153.2
CTC2385A	TC-2385A	10/24/2023 3:12:41 PM	139.1	139.0
CTC2385N	TC-2385N	10/5/2023 2:31:44 PM	105.1	104.7
CTC2385S	TC-2385S	10/5/2023 2:57:44 PM	101.7	101.7
CHIWVL02	VL-02	10/26/2023 2:28:00 PM	96.5	96.5

Attachment E

Lab Analysis and Draeger Tube Readings

Attachment E - Lab Analysis and Draeger Tube Data
October 2023

Date Sampled	Draeger Tube Readings (ppmv)	Lab Analysis (ppmv)		
	H2S	H2S	DMS	TRS
10/4/2023	15	23.8	196	304.3
10/11/2023	30	28.9	240	356.9
10/19/2023	29	38.8	254	384.0
10/26/2023	29	27.2	192	289.2
10/30/2023	42	41.4	205	315.8

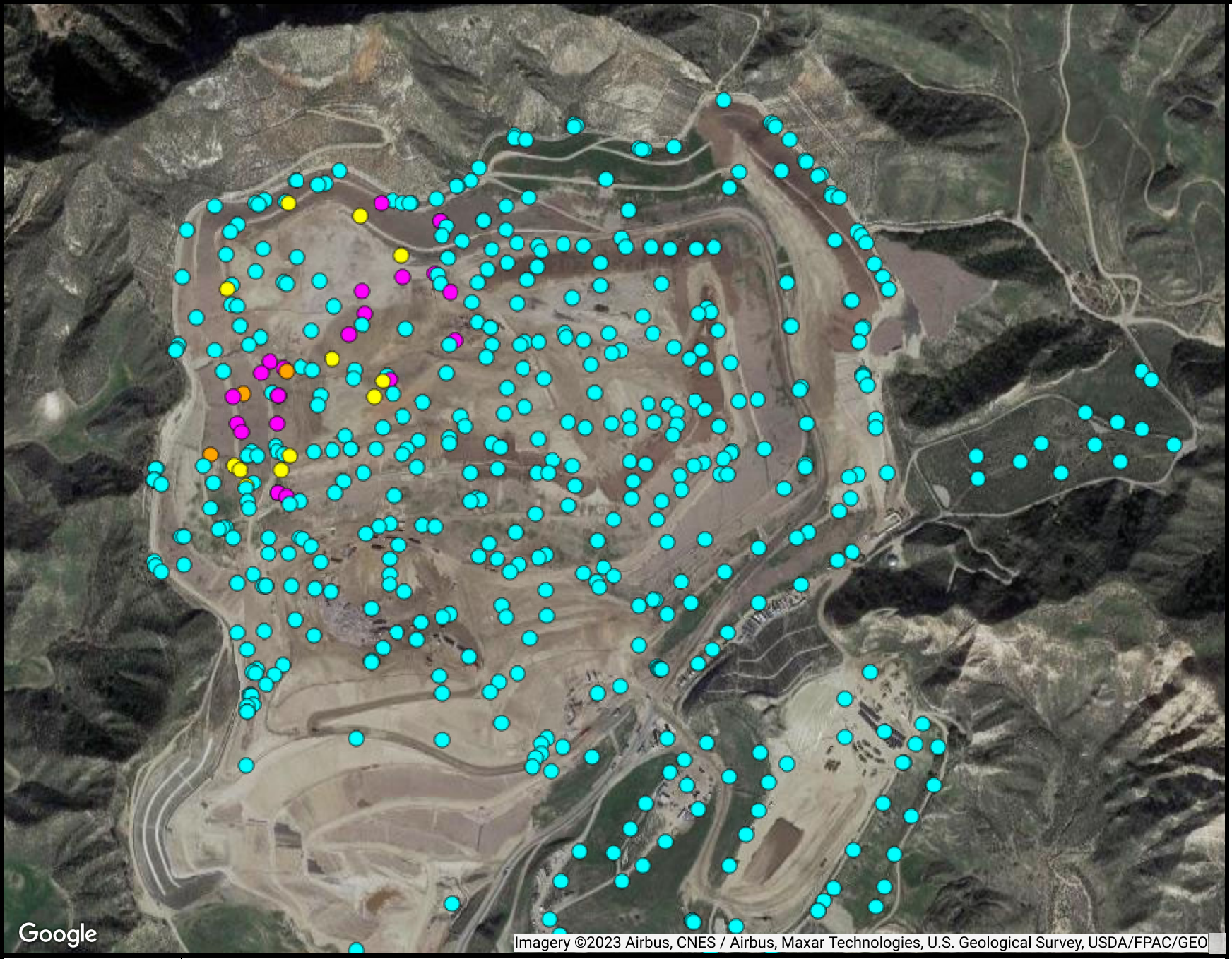
Attachment E - Lab Analysis and Draeger Tube Data
October 2023

Chiquita Canyon Landfill H_2S Draeger Tube Readings

			Tube Used		
Sample Date	**Time**	**H_2S (PPM)**	**2 to 20 ppm (6728821)**	**5 to 60 ppm (29801)**	**Technician**
10/4/23	8:10	15		x	Antonio Ambriz
10/11/23	9:30	30		x	Eric Castro
10/19/23	8:30	29		x	Christian Villagomez
10/26/23	9:30	29		x	Fabian Chavez
10/30/23	8:45	42		x	Fabian Chavez

Attachment F

Graphic Map



Ranges Mapped

				# Points
>	-50	and <=	145	494
>	145	and <=	160	13
>	160	and <=	169.99	4
>	169.99	and <=	999	21
	N/A		N/A	

Point Type Legend

well

N

SCSeTools

Chiquita Canyon Landfill

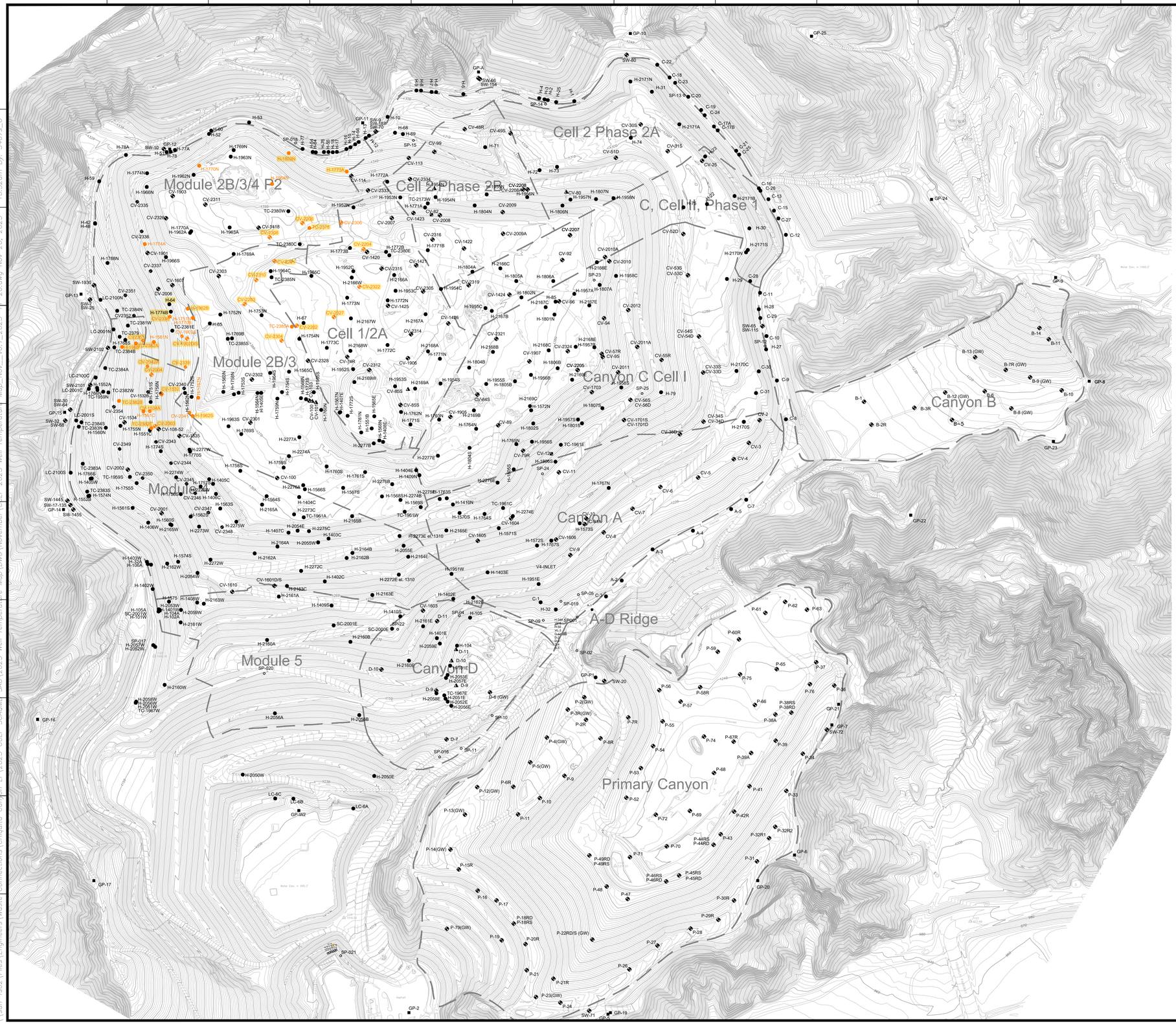
Range Map

Parameter: AdjTemp

Analysis Method: Average

Date Range: 10/01/2023 - 10/31/2023

Map generation date : 11/19/2023



LEGEND

- 1150 — EXISTING MAJOR 10 FT. CONTOUR
- EXISTING MINOR 2 FT. CONTOUR
- EXISTING CELL LIMITS (APPROXIMATE)
- CV-69 — EXISTING VERTICAL WELLS ABOVE-GRADE
- C-31 — EXISTING VERTICAL WELLS BELOW-GRADE
- C-31 — EXISTING HORIZONTAL WELLS
- SP-1 — EXISTING DETECTION WELLS
- C-39 — EXISTING REMOTE VERTICAL WELLHEAD
- GP-9 — EXISTING PERIMETER MIGRATION PROBE
- CV-69 — EXISTING VERTICAL WELLS ABOVE-GRADE-TEMPERATURE GREATER THAN 145°F
- C-31 — EXISTING HORIZONTAL WELLS - TEMPERATURE GREATER THAN 145°F
- EXISTING WELL WITH CARBON MONOXIDE (CO) GREATER THAN 1500 PPMV

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY TETRA TECH BAS. AERIAL PHOTOGRAPHY DATED 1/18/2023.
2. NORTH ARROW SHOWN HERE IS REFERENCE TO THE CALIFORNIA STATE PLANE ZONE V COORDINATE SYSTEM, NAD 83.
3. THE LOCATION OF ANY EXISTING GCCS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FILL OPERATIONS. ACTUAL FIELD CONDITIONS MAT VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

NO.	REVISION	DATE

SHEET TITLE: WELL TEMPERATURE MAP

PROJECT TITLE: SEPTEMBER MONTHLY REPORT
CHIQUITA LANDFILL
CASTAIC, CALIFORNIA

CLIENT:
CHIQUITA CANYON LANDFILL
CASTAIC, CALIFORNIA

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX. (562) 427-0805

PROJ. NO. 07214017.93 | DWN. BY: SO | CHK. BY: BH | ACAD FILE: - | APP. BY: -
DSN. BY: -

DATE: 11/20/2023

SCALE: AS SHOWN

SHEET: 1

\\scs-fs02\Files\Engineers\Waste Connections\Chiquita Canyon LF\2023 CCLF SCAQMD SAO\2023 Well Temperature Map\DWG\November CCLF 2023 Well Temperature Map_Nov__v0.1_2023-11-20.dwg Nov 20, 2023 10:32am By: S407ts_o

Attachment G

DMS Committee Determination on Dewatering Wells

November 3, 2023
File No. 01204123.21-13

Mr. Baitong Chen
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765

Subject: DMS Committee Determination on Dewatering Wells Exhibiting Worst Liquid Impact
Chiquita Canyon Landfill – Castaic, California

Dear Mr. Chen:

In accordance with Condition No. 17 of the Stipulated Order of Abatement (SOFA) pertaining to the Chiquita Canyon Landfill (Facility) (Case No. 6177-4), the DMS Committee has reviewed landfill gas (LFG) wellfield liquid level measurements and dewatering pump data recorded on 11/1/23 at the subject Facility, and has prepared this determination to confirm that the Facility has successfully accomplished the installation of dewatering pumps at greater than 20 percent of the LFG collection wells with the worst liquid impaction issues in the Reaction Area.

For purposes of this determination, the DMS Committee understands the Reaction Area boundary to be as prescribed in the DMS Committee's October 6 boundary determination (which corresponds to the limits of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2). The DMS Committee also understands that "landfill gas collection wells," as used in Condition No. 17, means vertical LFG extraction wells and does not include horizontal collectors, since it is generally infeasible to install pneumatic dewatering pump equipment into a horizontal collector.

The DMS Committee identified the existing LFG vertical extraction wells that exhibited the "worst liquid impaction issues" based on the following criteria:

- Lowest "Depth-to-Liquid" Distance: The LFG system operator routinely measures the distance from the well riser pipe "top-of-casing" to the point where the surface of accumulated liquid is present within the well piping. The lowest measured distance often correlates to the highest liquid elevation within the waste matrix, constituting one aspect of the "worst liquid impaction issue".

- Greatest "Liquid Column Depth" Measurement: The LFG system operator routinely measures the distance from the well riser pipe "top-of-casing" to the bottom of the well (or has previously established the total well depth). The Liquid Column Depth is established by subtracting the Depth-to-Liquid measurement from the total well depth measurement. The greatest calculated Liquid Column Depth constitutes one aspect of the "worst liquid impaction issue".

- Lowest Length of "Open Perforated Pipe Available": The total length of perforated well riser piping is recorded during well construction and is documented on the well boring logs. A comparison of the Depth-to-Liquid distance measurement with the known depth to where solid-wall piping transitions to perforated piping within the well enables calculation of the

portion of the perforated pipe that is "open" or "available" (i.e., the length of pipe that exists above the surface of accumulated liquid). The lowest calculated Open Perforated Pipe Available constitutes one aspect of the "worst liquid impaction issue".

Based on a review of these criteria, the DMS Committee has determined that 25 wells within the Reaction Area boundary are the wells with the worst liquid impaction issues. As of November 1, 2023, pumps were installed in 22 of the wells determined to have the worst liquid impaction issues in the Reaction Area. Thus, the Facility has installed pumps within 88 percent of the wells with the "worst liquid impaction issues" (22 out of 25). Accordingly, these proportions exceed the 20 percent stipulated by Condition No. 17.

Also, at this time, the Facility has not determined that installation of a pump in any well is infeasible, thus there is no statement in the monthly report on this circumstance warranted per Condition 17.a.

Please contact either of the undersigned if you have questions or require additional information.

Sincerely,

Robert E. Dick, PE, BCEE
Senior Vice President
SCS Engineers

Patrick S. Sullivan, BCES, CCP
Senior Vice President
SCS Engineers

RED/PSS

cc: Nathaniel Dickel, SCAQMD
Christina Ojeda, SCAQMD
Pablo Sanchez Soria, PhD, CIH, CTEH
Neal Bolton, PE, Blue Ridge Services, Inc.
Angie Perez, PhD, CIH, CTEH
Srividhya Viswanathan, PE, SCS Engineers

Attachment H

Inspection Logs

10-2-23 TRACKED Add'l WATER





No Cracks Noted

10-3-2023



No cracks noted

10-4-2023

10.5.23

TRACKED & H/W WATER ADDED



10-6-23 TRACKED & ADDED WATER




10-9-23
TRACKED
WATER ADDED
CREEKS
CREEKS



Nothing to note 10-10-2023

10-11-23



10-12-23 TRACKED / WATER





Nothing to note 10.13.2023

10.16.23 TRACKED / WATER



10-17-23



10-18-2023

Nothing to note

10-19-23 TRACKED / WATER





10·20·23
nothing to note

10-23-23



10-24-23

No Notable Cracks



CRACKS
TRACK
WALKED



10.25.23

10-26-23 CRACKS TRACK WALKED



10-27-23 CRACKS TRACK WALKED



10-30-23 CRACKS TRACKWALKED



10-31-23

CRACKS WERE TRACK WALKED



December 18, 2023
File No. 01204123.25, Task 10

Baitong Chen, Air Quality Engineer, bchen@aqmd.gov
Nathaniel Dickel, Senior Air Quality Engineer, ndickel@aqmd.gov
Christina Ojeda, Air Quality Inspector, cojeda@aqmd.gov
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: November 2023 Monthly Report for Stipulated Order for Abatement (Case No. 6177-4), Chiquita Canyon Landfill (Facility ID 119219), Castaic, California

To Whom It May Concern:

SCS Engineers (SCS), on behalf of Chiquita Canyon Landfill (CCL), hereby provides the South Coast Air Quality Management District (SCAQMD) with a monthly report per the Stipulated Order for Abatement (SOFA) (Case No. 6177-4) for the CCL in Castaic, California. The SOFA was approved on September 6, 2023.

This report covers the monthly period for November 2023. Per Condition No. 8, the monthly report for November 2023 shall be due on the third Monday of December, or December 18, 2023.

BACKGROUND

CCL is a landfill/solid waste disposal facility located at 29201 Henry Mayo Dr., Castaic, California, 91384 (SCAQMD Facility No. 119219). In connection with the landfill, CCL operates a landfill gas collection and control system.

In 2023, CCL began experiencing increased levels of total reduced sulfur and sulfur oxides, in noncompliance with its Title V permit.[1] In addition, CCL became the subject of numerous odor complaints from the public and was issued Notices of Violation by SCAQMD. The conditions at CCL indicate that the landfill is undergoing an elevated temperature landfill (ETLF) event. On September 6, 2023, a hearing was held before the SCAQMD Hearing Board to approve the SOFA which includes numerous measures to mitigate emissions resulting from the landfill's ETLF conditions. The SOFA was approved on September 6, 2023. This monthly report is following the approved conditions for the SOFA.

Condition No. 8 of the SOFA requires monthly reports to be submitted via email to Baitong Chen, Nathaniel Dickel, and Christina Ojeda of the SCAQMD, which include the following information:

A. *The landfill gas sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.*

[1] CCL operated under an Ex Parte Emergency Variance (approved on February 8, 2023), an Interim Variance (approved on February 15, 2023 and issued in final on March 7, 2023), and a Regular Variance (approved on May 3, 2023 and issued in final on May 16, 2023). The Regular Variance ended on September 6, 2023, the effective date of the SOFA.

B. The landfill gas records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

C. The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

D. Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

E. Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).

F. Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).

G. All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format.

H. A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.

I. All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

J. Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternative sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

K. A summary report on SCS's implemented improvements to the landfill gas collection system.

L. An inspection log for landfill cover inspections, pursuant to Condition No. 24.

M. Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

N. Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

O. Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

MONTHLY REPORT

Section A – LFG Sulfur Compound Measurements during Reporting Period

The LFG sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.

Condition No. 5: Respondent shall sample, analyze, and record the landfill gas sulfur compounds combusted in each flare (as measured at sampling location FL-150 that is representative of the gas combusted in the flare under Permit G23473, A/N 491442) at least once each week using colorimetric tests for hydrogen sulfide (H2S) and at least once each week sample for analysis for total sulfur compounds as H2S using South Coast AQMD Method 307-91.

a. Respondent shall record South Coast AQMD Method 307-91 analysis upon receipt of laboratory analysis report. Each recorded measurement or result shall be documented with the time and date when the measurement or sample collection was conducted, and initialed by the personnel that conducted the measurement or sample collection.

b. Sulfur compound readings and analysis shall be reported to South Coast AQMD pursuant to Condition No. 8.

i. Tedlar bags used for Method 307-91 sampling and analysis shall not contain droplets or debris.

ii. Colorimetric tube readings shall be conducted by taking a reading from a Tedlar bag sample using an appropriate colorimetric tube sample collection pump. All sampling shall be performed in accordance with the operational manual for the colorimetric tube sample collection pump.

iii. Colorimetric tube readings shall use colorimetric tubes of appropriate concentration range and shall be reported as follows:

1. Respondent shall first use the estimated appropriately ranged colorimetric tube.

2. If the resulting reading reaches the upper concentration of the colorimetric tube concentration range, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a larger upper concentration threshold until the result is not the upper concentration threshold of the concentration range. Report the tube concentration range and tube concentration result for each reading.

3. If the reading results in the lower concentration of the colorimetric tube concentration range or does not register a result, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a smaller lower concentration threshold, if available, until the colorimetric tubes available to the facility result in:

a. A reading that is within the concentration range of the tube,

b. A reading is the lower concentration of the colorimetric tube concentration range, or

c. The colorimetric tube does not register a result.

4. When the result is the lower concentration of the colorimetric tube concentration range or does not register a result, the lower concentration of the colorimetric tube concentration shall be considered the concentration result. Report the tube concentration range and tube concentration result for each reading. If a lower range colorimetric tube is not used and the tube concentration result is below the lower range of the colorimetric tube used, Respondent shall report the result as "less than" or "<" the lower range value of the tube. Notwithstanding the forgoing, Respondent shall ensure that the colorimetric tube result is below the upper range of the colorimetric tube used and shall report the precise result of all results above the lowest range of the colorimetric tube used.

The lab analyses performed, and reports received for the reporting period that are required by Condition 5(a) are presented in **Attachment A**. This report includes analytical data sampled between November 1, 2023 and November 30, 2023. Tedlar bag samples were collected and analyzed by SCAQMD Method 307.91 for hydrogen sulfide and reduced sulfur compounds. The laboratory reports were received on November 15, 25 and December 5, 2023.

Weekly colorimetric tests (Draeger tube) samples required by Condition 5(b)(ii) and (iii) are identified in **Attachment E**.

A summary of the colorimetric tests and laboratory analyses for landfill gas (LFG) sulfur analyses is provided in the table below, covering the period of November 2023:

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
11/8/23	45	42.6	178	286.5
11/17/23	18	20.1	152	242.3
11/21/23	20	25.9	167	273.8
11/29/23	39	43.2	179	302.5

*Above summarized Lab analysis are included in **Attachment A** and **Attachment E**.

Section B – LFG Records and Calculations

The LFG records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

Condition No. 7: Respondent shall maintain a record of the following information, and provide such records to the South Coast AQMD pursuant to Condition No. 8:

a. The hourly and daily flow of landfill gas combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G23473, A/N 491442; flare No. 3 under A/N 624296), the thermal oxidizer (under Envent Corporation A/N 645484), and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility;

b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; and

c. The results of the sulfur readings, sampling, and analyses, calculated as H2S with the time and date when each measurement or sample collection was conducted.

The above-mentioned lab analyses required by Condition 7(c) are included in **Attachment A** and calculations are available in **Attachment B**.

In accordance with Condition 7(a), the flow rates for each flare as standard cubic feet per minute (scfm), scf per hour, and scf per day are provided in the calculation tables and the hourly and daily flow of LFG combusted for the Envent and Zeeco thermal oxidizers are available in **Attachment B**. The new Flare No. 3 (FL-2023) began operations on November 15, 2023, and the new Zeeco Thermal oxidizer began operations on November 3, 2023.

In accordance with Condition 7(b), the daily flow of LFG not flared is available in **Attachment B**. Ameresco applied for a variance to operate the LFG turbine plant under a variance order, and its variance was approved on February 15th. Ameresco restarted operations on February 16th, returning the LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

Section C – Surface Emissions Monitoring

The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

Condition No. 9: Respondent shall collect integrated landfill surface samples for analysis across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1 Attachment A 2.0. In the event Respondent is unable to sample specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the sampling of the specific area(s) or grid(s).

a. The "Reaction Area" shall be defined initially by the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2. The boundary of the Reaction Area shall be modified to include the associated landfill surface area of the cells and modules that experience well temperatures of at least 170 degrees Fahrenheit, settlement, cracks in the landfill cover, presence and quantity of liquids, and the presence of hydrogen in the landfill gas. The DMS Committee (defined in Condition 12), shall

transmit to the South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] 1) the revised map which clearly displays the proposed boundary change(s) and depicts the new Reaction Area; 2) a narrative summary explaining the rationale behind the proposed changes, including memorializing any dissenting view of any member of the DMS Committee; and 3) any supporting data relied upon in the decision to revise the Reaction Area.

b. The DMS Committee shall review applicable data and shall consider revision to the Reaction Area as frequently as appropriate but shall make a determination about whether to revise the Reaction Area map at least once per month.

Condition No. 10: Respondent shall conduct instantaneous landfill surface monitoring across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1, Attachment A 3.0, beginning no later than seven (7) days after the issuance of this Order. In the event Respondent is unable to monitor specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the monitoring of the specific area(s) or grid(s).

- November's integrated landfill surface sampling was completed on November 1, 14 and 28, 2023 resulting in exceedances on November 1, 14 and 28, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on November 10, November 22, 2023, and December 7, 2023, respectively, and showed compliant readings, except for three (3) events on December 7, 2023. The second 10-day Corrective Action and follow-up monitoring will be performed and reported in the next monthly report.
- October's instantaneous landfill surface monitoring conducted on October 11 and 25, 2023 resulted in exceedances on October 11 and 25, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed on October 20, and November 3, 2023, and showed compliant readings.
    - The 1-month re-monitoring for the October 11 exceedances was conducted on November 9, 2023, and showed compliant readings.
    - The 1-month re-monitoring for the October 25 exceedances was conducted on November 21, 2023, and showed compliant readings.

- November's instantaneous landfill surface monitoring was conducted on November 10 and 22, 2023, resulting in exceedances on November 10 and 22, 2023.

    - The 10-day Corrective Action and follow-up monitoring was completed on November 20 and 30, 2023, and showed compliant readings.

    - The 1-month re-monitoring will be conducted and reported in the next monthly report.

The integrated landfill surface sample analysis and landfill surface monitoring readings are included in **Attachment C**.

Section D – Schedule for Replacement or Refurbishment of Granular Activated Carbon Media

> **Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.**
>
> > ***Condition No. 3: Respondent shall expedite, to the maximum extent feasible, replacement of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249), including the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System. Respondent shall ensure adequate stock of all odor control products and supplies are maintained on site.***

The Landfill Gas Treatment System (LFGTS) currently consists of four carbon adsorber vessels. Only three of the four vessels are online during normal operations with one vessel offline awaiting servicing to replace spent media or on standby with fresh granular activated carbon media. A vessel is typically serviced every 4 to 8 weeks. Colorimetric tests are performed on the outlet of the operating vessels approximately weekly to determine if a vessel may require an adjustment to the flow or schedule service to replace the media.

H2S vessels will be changed out at a lower concentration. At the start of the reporting period (November 1, 2023), three vessels (ST-1, ST-2 and ST-4) were online processing the landfill gas. Vessel ST-3 was offline in preparation for media replacement. Media replacement in vessel ST-3 occurred on November 3 and 4, 2023. Beginning on November 8, 2023, vessel ST-3 was slowly brought online to control the rise in temperature of the outlet gas and the flow through vessel ST-1 was reduced. On November 20, 2023, vessel ST-1 was taken offline and the spent media removed and fresh media installed on November 21, 2023. On November 29, 2023, vessel ST-1 was slowly brought online to control the rise in temperature of the outlet gas with the inlet valve opened 10%. The next media change out was scheduled for December 7 and 8, 2023, but completed on December 15, 2023 as there was a delay in receiving the fresh BG1 media (spent media was removed as scheduled on December 7, 2023). A second December media change out has been scheduled for December 28 and 29, 2023.

Section E – Description of Problems or Delays

> **Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any**

> operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).

Due to the increase in temperature of the landfill gas when exposed to fresh media, the new vessels have been slowly brought online to avoid damaging the fiber reinforced plastic (FRP) vessels.

Section F – Specifications of Equipment and Materials for Weekly Colorimetric Tests

> Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).

The weekly colorimetric tests are completed with the Draeger Accuro 64000 bellows hand pump with either Draeger hydrogen sulfide colorimetric tubes Model 6728821 (2 to 20 ppm) or Model CH29801 (5 to 60 ppm). The specifications of the equipment and materials used for the colorimetric test was included in the initial weekly variance report provided on February 13, 2023 in Case No. 6177-3, as required under the previous emergency variance. There has been no change in the specifications since the previous report submitted under the emergency variance.

Section G – Wellhead Temperature Readings

> All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format

Wellhead temperature readings for the past month are included in **Attachment D**. Lab analysis and Draeger tube readings for the past month are included in **Attachment A** and **Attachment E**, respectively.

Section H – Graphic Map

> A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.

A graphic map with the above information is included in **Attachment F**. **Attachment F** also includes a second map that highlights those wells with measured carbon monoxide concentrations above 1500 parts per million by volume (ppmv). Increased volume of gas is being extracted from elevated temperature wells located in the Reaction Area to help remove accumulated heat in the waste mass. Additionally, de-watering pumps have been installed in elevated temperature wells as needed to increase the available perforations in high heat wells to further increase gas extraction. The de-watering pumps also assist in removing heat by eliminating elevated temperature liquids from the waste.

Section I – Status of Vertical Liquid Impacted Landfill Gas Wells

> All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

Condition No. 17: Respondent shall expeditiously dewater wells being impacted by liquids, and shall take proactive measures to remove additional liquids in the Reaction Area to limit the reaction severity and spread. This shall be accomplished through the installation of dewatering sumps/pumps at 20 percent of the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area as determined by the DMS Committee within 60 days of the issuance of this Order, unless otherwise determined infeasible per Condition No. 17.a. below. Respondent shall provide updates in the monthly reports pursuant to Condition No. 8.

a. In the event Respondent determines the installation of a dewatering sump/pump at a single landfill gas collection well to be infeasible, Respondent shall provide detailed rationale and reasoning in the monthly report submitted pursuant to Condition No. 8, and shall continue with implementation of the dewatering guidelines pursuant to Condition No. 18 to remove liquids to the maximum extent possible including to ensure installation across 20% of total landfill gas collection wells within the Reaction Area.

Please note, SOFA Condition 8(i) references Condition No. 20, which is regarding the permit application for a new flare. Therefore, we believe this is the wrong reference and did not include it. Likely the correct reference is Condition No. 17, which requires CCL to expeditiously dewater wells being impacted by liquids. Condition No. 17 requires the DMS Committee to determine the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area by November 5, 2023. The DMS Committee determination was submitted to the SCAQMD on November 2, 2023 and included in Attachment G of the November 20, 2023 monthly status update report. As of December 13th, CCL has installed pumps in 41 wells determined to have the worst liquid impaction issues exceeding the requirement met by November 2nd when 22 of 25 wells determine to have the worst liquid impaction issues in the Reaction Area (88%) had received pumps.

Section J – Status of Investigation for Alternate Sulfur Compound Treatment Systems

Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternatives sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

SCS investigated the availability and viability of alternative sulfur compound treatment systems that control, treat or remove dimethyl sulfide and other sulfur compounds. A preliminary list of alternative treatment systems is included below:

- Oxidation by Hypochlorite
- Oxidation by Peroxide
- Oxidation by Potassium Permanganate
- Bentonite or Zeolite Media Impregnated with Metal
- Reaction with Iron
- Reaction with Copper
- Biotreatment with Sulfur-Reducing Bacteria (SRBs)

A preliminary assessment of these treatment technologies was included in Attachment D of the February 27, 2023 status update report, submitted in compliance with the interim variance. These technologies will be further investigated, and updates will be included in subsequent reports.

In addition to the preliminary list of alternative treatment systems, SCS is investigating the use of a hydrogen re-former catalyst to convert all sulfur compounds to H_2S and oxidation by Sodium Hydroxide. A reaction with nickel alternative treatment has been investigated but is not a preferred alternative as heat is required. Bench testing of stronger oxidation scrubbing solutions is ongoing to convert DMS to Dimethylsulfoxide (DMSO).

Testing of Oxidation by Hypochlorite was completed early November 2023 using the liquid scrubbers with the temporary Envent thermal oxidizer (TOX) located in the northwest area of the site. The initial analytical results indicate that sodium hypochlorite is able to reduce DMS from the gas stream by 88%, but its capacity to oxidize is diminished quickly in less than a week. Further analysis is needed to determine the effectiveness of sodium hypochlorite.

Section K – SCS's Implemented Improvements

A summary report on SCS's implemented improvements to the landfill gas collection system.

In November 2023, CCL maintained and replaced the existing 39 de-watering pumps in existing wells and installed an additional 2 de-watering pumps to more efficiently remove liquids and improve gas collection efficiency in wells impacted by liquids. The wellfield was tuned and well laterals re-routed to utilize the additional vacuum provided by the second rental TOX, the Zeeco TOX, and the new flare FL-120/FL-2023, Flare 4. Construction of the new flare FL-120/FL-2023 was substantially completed and the new flare was operational on November 15, 2023. CCL notified the SCAQMD on November 17, 2023.

Section L – Cover Inspections to the LFG Collection System

An inspection log for landfill cover inspections, pursuant to Condition No. 24.

> *Condition No. 24: Respondent shall visually inspect the landfill cover around the Reaction Area (as defined in Condition 9(a)) each operating day and shall promptly repair any cover issues identified, which may include adding and spreading soil, wetting, and retracking the damaged area. Respondent shall maintain a log demonstrating that it has addressed any damages to the landfill cover, including the date the damage was identified, the action taken to repair the damage, and the time at which the repair was completed. Results of the daily inspection and the repair log required by this condition shall be included in the monthly reports required pursuant to Condition No. 8.*

Routine cover inspections and repairs were performed and logged throughout the month of November 2023. Results of the daily inspection and the repair log are provided in the photos in **Attachment G**. Chiquita has a full-time operator that is responsible for repairing covers in the Reaction Area. These photos show areas where cracks in the cover were noted on the days that they were first observed. The cracks are repaired on an immediate and ongoing basis by the operator that makes such observations by tracking over the area and adding small amounts of water when necessary.

Section M – Subsequent Additions to the LFG Collection System

Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

Condition No. 15: Respondent shall continue to evaluate and install, as needed, vertical dual extraction wells to collect both landfill gas and leachate. Respondent shall continue to expand the well-field as needed, and notify South Coast AQMD by October 31, 2023 of the number of wells added, attention to Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov). Any subsequent additions to the well-field shall be documented in the monthly reports pursuant to Condition 8.

In the month of November 2023, no new vertical LFG extraction wells were installed. Additional expansion of the well field, including but not limited to additional vertical LFG extraction wells, header and lateral piping and associated valves, is being planned, and CCL began installation in December 2023 installing 10 new vertical extraction wells to date. Subsequent additions will be documented in these monthly reports.

Section N – Additions to the LFG Condensate or Leachate Collection System

Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

Condition No. 18: Respondent shall, in addition to the installation of dewatering sumps/pumps specified in Condition No. 17 above, within ninety (90) days of the issuance of this Order, provide proposed Reaction Area dewatering guidelines and implementation procedures for the landfill to South Coast AQMD (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov)) that include but are not limited to the following:

a. Proposed methodologies and monitoring procedures that determine the level of dewatering within the Reaction Area (as defined in Condition 9(a)) wells impacted by liquid. Methods may include the measurement of the gas flow at each landfill gas collection well impacted by liquids;

b. Use of dewatering pumps or other methods to remove liquids from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

c. An implementation plan for the use of dewatering pumps or other methods to remove liquids from the Reaction Area wells impacted by liquids. The plan shall include a list of wells in the Reaction Area and depth where liquids are expected to impact landfill gas collection efficacy or be a concern, the proposed action to remove the liquids, and the schedule for liquid removal. The implementation plan shall also include pro-active measures, such as additional dewatering pumps, to be installed at landfill gas collection wells where liquid impaction issues have not yet occurred, but may be expected to occur.

d. Upgrades to the site leachate collection system as needed, including through the addition of increased air compressor and/or drain line infrastructure;

e. Protocols for the pumping and monitoring of dewatering pumps and other such methods to remove water from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

f. Well field liquid sounding in the Reaction Area (as defined in Condition 9(a)), and a proposed schedule for conducting liquid sounding on a consistent basis;

g. A timeline for appropriate reporting on impacted wells;

h. The feasibility of integrity testing of all vertical gas wells in the Reaction Area (as defined in Condition 9(a)) and a timeline and protocol for addressing any wells that the integrity testing demonstrates are damaged or are exhibiting temperatures of at least 170 degrees Fahrenheit; and

i. A timeline for implementation of appropriate dewatering procedures upon discovery of wells impacted by liquids.

The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented within seven (7) days of South Coast AQMD approval.

Please note, SOFA Condition 8(n) references Condition No. 17, however, we believe the correct reference is Condition No. 18, which requires CCL to provide proposed Reaction Area dewatering guidelines and implementation procedures to SCAQMD by December 5, 2023. The dewatering guidelines were submitted to SCAQMD on December 5, 2023 and are posted on Chiquita's website.

The evaluation of vertical wells for the installation of dewatering pumps is ongoing. Prior to November 2023, there were thirty-nine (39) active wells with dewatering pumps. In the month of November 2023, two additional pumps were installed in existing wells and 40 additional pumps were ordered for future installation in both existing wells and new LFG wells. The 39 existing pumps were maintained and replaced as needed for increased pumping efficiency.

<u>Section O – Updates of the Geosynthetic Cover</u>

Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

Condition No. 25: Respondent shall install a geosynthetic cover over western portions of Module 2B/3/4 Phase 2, Module 2B/3, and Module 4 to limit the migration of landfill gas from the site. Respondent shall submit the completed design for the cover, which will provide greater definition to the cover location, including associated landfill gas extraction infrastructure to be installed underneath the cover, to the South Coast AQMD by September 12, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)). Respondent shall then obtain and install the geosynthetic cover material of at least

> *30 mil thickness. Respondent shall notify South Coast AQMD by October 31, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)) on the progress of procuring and installing the geosynthetic cover. Respondent shall include updates on the procurement and installation of the geosynthetic cover in the monthly reports pursuant to Condition 8.*

As required by Condition No. 25, Chiquita provided an initial update on the status of the procurement and installation of the geosynthetic cover to SCAQMD on October 31. This status update discusses Chiquita's progress since Chiquita's October 31 update. The timeline provided in Chiquita's October 31 update and below is Chiquita's current best estimate, which may change for a variety of reasons. As with any construction project of this size, there may be unanticipated setbacks that cause delays that may cascade through the rest of the timeline. Further, Chiquita is in ongoing discussions with the Local Enforcement Agency concerning cover, which may impact this timeline.

West Slope Regrading: Chiquita has completed grading the toe on the west side of the Landfill to eliminate the bulge and smooth the slope.

Existing Liner Repairs: Chiquita has not yet been able to begin liner repairs because Chiquita continues to expand the well system on the west slope to address leachate seepage. Chiquita anticipates the drilling on the western slope will be completed by the end of December, at which point Chiquita can begin liner repairs. Preparing appropriate health and safety plans for the repair work has also taken longer than anticipated. Chiquita also expects to have these plans in place by the end of December.

Cutoff Trench: Construction of this trench began in mid-November as Chiquita completed the west slope regrading. Chiquita will continue evaluating the plans for this trench as drilling on the west slope is completed.

Clearing and Grubbing: Now that Chiquita has completed the west slope regrading, Chiquita estimates that this work will begin by the end of December, weather permitting.

Landfill Gas (LFG) Surface/Horizontal Collectors: Chiquita has been evaluating alternative options to allow for faster placement of the geosynthetic cover. Chiquita anticipates proceeding with the horizontal collectors or the alternative by the end of December.

Bench Grading: Chiquita anticipates beginning this work in early January once clearing and grubbing is complete.

Subgrade Prep: Chiquita anticipates beginning this work by the end of December.

Geosynthetic Cover Procurement: The 30-mil geosynthetic cover material has been delivered to the site.

Geosynthetic Cover Placement: Chiquita anticipates beginning placement of the cover material in early January once clearing and grubbing and subgrade prep has begun.

Bench Collector & Operations Layer: As noted in Chiquita's October 31 update, this work will begin once the geosynthetic cover material is in place.

CLOSING

If you have any questions or need any additional information, please contact Cornelius Fong of SCS Field Services at (562) 743-7895 or either of the undersigned at (800) 326-9544.

Sincerely,

James J. Kim
Senior Project Professional
SCS Engineers

Gabrielle F. Stephens
Project Director/Vice President
SCS Engineers

JJK/GFS/PSS

Enclosures

cc: Cornelius Fong, SCS Engineers; Steve Cassulo, Chiquita Canyon Landfill
Enclosures

Attachment A

Lab Analyses from the Reporting Period

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	November 15, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	November 8, 2023
Date Received:	November 8, 2023
Date Analyzed:	November 8, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23123-13
Sample I.D.:	FL-150

Components	*(Concentration in ppmv)*
Hydrogen sulfide	42.6
Carbonyl sulfide	0.96
Methyl mercaptan	34.0
Ethyl mercaptan	0.82
Dimethyl sulfide	178
Carbon disulfide	<0.50
i-Propyl mercaptan	1.66
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.33
s-Butyl mercaptan	3.87
i-Butyl mercaptan	<0.50
Dimethyl disulfide	3.25
Tetrahydrothiophene	1.74
Unidentified sulfurs	13.0

(Concentration in ppmv, as H_2S)

Total Sulfur	286.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: November 8, 2023
Date Received: November 8, 2023
Date Analyzed: November 8, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-150	43.5	41.7	42.6	4.2
Carbonyl sulfide	FL-150	0.97	0.94	0.96	3.1
Methyl mercaptan	FL-150	35.0	33.0	34.0	5.9
Ethyl mercaptan	FL-150	0.80	0.83	0.82	3.7
Dimethyl sulfide	FL-150	183	173	178	5.6
Carbon disulfide	FL-150	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-150	1.69	1.63	1.66	3.6
t-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-150	3.40	3.25	3.33	4.5
s-Butyl mercaptan	FL-150	4.04	3.69	3.87	9.1
i-Butyl mercaptan	FL-150	<0.50	<0.50	---	---
Dimethyl disulfide	FL-150	3.34	3.16	3.25	5.5
Tetrahydrothiophene	FL-150	1.74	1.73	1.74	0.58
Unidentified sulfurs	FL-150	13.3	12.7	13.0	4.9

One Tedlar bag sample, laboratory number 23123-13, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 4.6%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)* Fabian Chavez	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)	Special Remarks
FL-150	Landfill Gas	23123-13	11-8-23	7:55 am	X	Filtered
						Report due _____
						H2S 45 PPM

Relinquished by: *(Signature)* Fabian Chavez	**Date** 11-8-23	**Time** 10:06	**Received by:** *(Signature)*	**Date** 11/8/23	**Time** 1006
Relinquished by: *(Signature)*	**Date** 11/8/23	**Time** 1104	**Received by:** *(Signature)*	**Date**	**Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by:** *(Signature)* AtmAA	**Date** 11/8/23	**Time** 11:01

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: November 17, 2023
Date Received: November 17, 2023
Date Analyzed: November 17, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23213-21
Sample I.D.:	FL-100

Components	*(Concentration in ppmv)*
Hydrogen sulfide	20.1
Carbonyl sulfide	0.82
Methyl mercaptan	23.7
Ethyl mercaptan	0.60
Dimethyl sulfide	152
Carbon disulfide	<0.50
i-Propyl mercaptan	1.02
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.84
s-Butyl mercaptan	3.09
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.95
Tetrahydrothiophene	1.66
Unidentified sulfurs	21.2
	(Concentration in ppmv, as H_2S)
Total Sulfur	242.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: November 17, 2023
Date Received: November 17, 2023
Date Analyzed: November 17, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-100	20.2	19.9	20.1	1.5
Carbonyl sulfide	FL-100	0.83	0.80	0.82	3.7
Methyl mercaptan	FL-100	23.6	23.7	23.7	0.42
Ethyl mercaptan	FL-100	0.62	0.57	0.60	8.4
Dimethyl sulfide	FL-100	153	150	152	2.0
Carbon disulfide	FL-100	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-100	1.02	1.01	1.02	0.99
t-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-100	2.87	2.80	2.84	2.5
s-Butyl mercaptan	FL-100	3.08	3.10	3.09	0.65
i-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl disulfide	FL-100	7.98	7.92	7.95	0.75
Tetrahydrothiophene	FL-100	1.69	1.63	1.66	3.6
Unidentified sulfurs	FL-100	21.3	21.1	21.2	0.98

One Tedlar bag sample, laboratory number 23213-21, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 2.3%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)* Cage Johnson	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-100	Landfill Gas	23213-21	11/17/23	14:13	X						Filtered
											H2S ___18___ PPM

ANALYSES REQUESTED

Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Cage Johnson	11/17/23	14:25	Mari Matty	11-17-23	14:25
Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Relinquished by: *(Signature)* Mari Matty	Date	Time	Received for Laboratory by: *(Signature)*	Date	Time
				11/17/23	4:09

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302
TEL: (818) 223-3277
FAX: (818) 223-8250

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
specialized air assessment laboratory
atmaa.com

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: November 25, 2023
Client: SCS Engineers
Project Location: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2
Date Sampled: November 21, 2023
Date Received: November 21, 2023
Date Analyzed: November 21, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23253-4
Sample I.D.:	FL-100

Components	*(Concentration in ppmv)*
Hydrogen sulfide	25.9
Carbonyl sulfide	0.94
Methyl mercaptan	23.7
Ethyl mercaptan	0.60
Dimethyl sulfide	167
Carbon disulfide	<0.50
i-Propyl mercaptan	0.93
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.01
s-Butyl mercaptan	3.21
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.46
Tetrahydrothiophene	2.04
Unidentified sulfurs	32.1

(Concentration in ppmv, as H_2S)

Total Sulfur	273.8

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: November 21, 2023
Date Received: November 21, 2023
Date Analyzed: November 21, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-100	26.3	25.5	25.9	3.1
Carbonyl sulfide	FL-100	0.94	0.93	0.94	1.1
Methyl mercaptan	FL-100	23.7	23.6	23.7	0.42
Ethyl mercaptan	FL-100	0.60	0.60	0.60	0.00
Dimethyl sulfide	FL-100	167	166	167	0.60
Carbon disulfide	FL-100	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-100	0.92	0.94	0.93	2.2
t-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-100	2.94	3.07	3.01	4.3
s-Butyl mercaptan	FL-100	3.19	3.23	3.21	1.2
i-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl disulfide	FL-100	7.06	7.85	7.46	11
Tetrahydrothiophene	FL-100	2.03	2.04	2.04	0.49
Unidentified sulfurs	FL-100	33.5	30.7	32.1	8.6

One Tedlar bag sample, laboratory number 23253-4, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 3.0%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: (Signature) Cage Johnson	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-100	Landfill Gas	23253-4	11/21/23	11:49am	X						Filtered
											H2S ___20___ PPM

ANALYSES REQUESTED

	Date	Time		Date	Time
Relinquished by: (Signature) Cage Johnson	11/21/23	12:18	**Received by: (Signature)**	11/21/23	1:50
Relinquished by: (Signature)	11/21/23	2:43	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received for Laboratory by: (Signature)**	11/21/23	2:45

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
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Analytical Laboratory

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	December 5, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	November 29, 2023
Date Received:	November 29, 2023
Date Analyzed:	November 30, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23333-26
Sample I.D.:	FL-100

Components	*(Concentration in ppmv)*
Hydrogen sulfide	43.2
Carbonyl sulfide	1.01
Methyl mercaptan	31.5
Ethyl mercaptan	0.83
Dimethyl sulfide	179
Carbon disulfide	<0.50
i-Propyl mercaptan	1.01
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.18
s-Butyl mercaptan	3.44
i-Butyl mercaptan	<0.50
Dimethyl disulfide	7.84
Tetrahydrothiophene	2.08
Unidentified sulfurs	22.1

(Concentration in ppmv, as H_2S)

Total Sulfur	302.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: November 29, 2023
Date Received: November 29, 2023
Date Analyzed: November 30, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-100	43.3	43.1	43.2	0.46
Carbonyl sulfide	FL-100	1.01	1.01	1.01	0.00
Methyl mercaptan	FL-100	31.8	31.2	31.5	1.9
Ethyl mercaptan	FL-100	0.85	0.81	0.83	4.8
Dimethyl sulfide	FL-100	180	177	179	1.7
Carbon disulfide	FL-100	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-100	1.02	0.99	1.01	3.0
t-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-100	3.20	3.15	3.18	1.6
s-Butyl mercaptan	FL-100	3.43	3.44	3.44	0.29
i-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl disulfide	FL-100	7.75	7.93	7.84	2.3
Tetrahydrothiophene	FL-100	2.20	1.96	2.08	12
Unidentified sulfurs	FL-100	22.2	21.9	22.1	1.5

One Tedlar bag sample, laboratory number 23333-26, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 11 repeat measurements from one Tedlar bag sample is 2.6%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)*	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)						Special Remarks
FL-100 INLET	Landfill Gas	23333-26	11/29/23	2:30pm	X						Filtered 39ppm

	Date	Time		Date	Time
Relinquished by: *(Signature)* Fabian Chavez	11/29/23	3:00pm	**Received by: *(Signature)*** Mark Guerrero	11/29/23	3:10pm
Relinquished by: *(Signature)* Mark Guerrero	11/29/23	9:12pm	**Received by: *(Signature)***		
Relinquished by: *(Signature)*			**Received for Laboratory by: *(Signature)***	11/29/23	16:45

Company Info:

Company:	SCS Engineers
Street Address	3900 Kilroy Airport Way Suite 100
City/State/Zip:	Long Beach / CA / 90806
Telephone No.:	562-743-7895 /562-335-0002
Fax No.:	

Send Report to:

Company:	SCS Engineers
Street Address	3900 Kilroy Airport Way Suite 100
City/State/Zip:	Long Beach / CA / 90806
Project Manager:	Cornelius Fong
Email Address:	CFong@scsengineers.com

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Attachment B

Calculations

Chiquita Canyon Landfill
Total Emissions
Monthly Report Period: November 2023

	Flare No. 1 John Zink (FL-150) (FL-1995)				Flare No. 2 John Zink (Zule) (FL-100) (FL-2009)				Flare No. 3 John Zink (Zule) (FL-2023)				Envent Thermal Oxidizer (TOx)	Zeeco Thermal Oxidizer (TOx)	All Control Devices (Flare No. 1, Flare No. 2, Flare No. 3, Envent, Zeeco)			Lab Analysis Total Reduced Sulfur as H2S (ppmv)
Date	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total Flow Rate (scfm)	Total Flow Rate (scf/hr)	
11/1/2023	5,138,608	24.00	3,568	214,109	5,268,353	24.00	3,659	219,515	--	--	--	--	2,152,800	--	12,559,761	8,722	523,323	--
11/2/2023	5,062,618	24.00	3,516	210,942	5,178,480	24.00	3,596	215,770	--	--	--	--	1,738,685	--	11,979,783	8,319	499,158	--
11/3/2023	4,585,392	23.08	3,184	191,058	4,548,317	22.02	3,159	189,513	--	--	--	--	1,943,500	312,800	11,390,008	7,910	474,584	--
11/4/2023	4,204,131	24.00	2,920	175,172	4,555,593	24.00	3,164	189,816	--	--	--	--	2,152,800	3,312,000	14,224,524	9,878	592,688	--
11/5/2023	3,953,048	25.00	2,745	164,710	4,119,239	25.00	2,861	171,635	--	--	--	--	2,152,800	3,312,000	13,537,087	9,401	564,045	--
11/6/2023	2,438,734	15.33	1,694	101,614	2,571,231	15.77	1,786	107,135	--	--	--	--	2,152,800	2,820,000	9,982,765	6,932	415,949	--
11/7/2023	3,417,072	24.00	2,373	142,378	3,569,311	24.00	2,479	148,721	--	--	--	--	2,152,800	2,448,000	11,587,182	8,047	482,799	--
11/8/2023	3,407,358	24.00	2,366	141,973	3,553,058	24.00	2,467	148,044	--	--	--	--	2,037,320	2,016,000	11,013,736	7,648	458,906	287
11/9/2023	3,855,802	24.00	2,678	160,658	3,917,689	24.00	2,721	163,237	--	--	--	--	2,158,560	1,993,600	11,925,650	8,282	496,902	--
11/10/2023	3,875,710	24.00	2,691	161,488	3,681,102	22.67	2,556	153,379	--	--	--	--	2,158,560	2,016,000	11,731,372	8,147	488,807	--
11/11/2023	4,289,864	24.00	2,979	178,744	4,265,496	24.00	2,962	177,729	--	--	--	--	2,158,560	1,971,200	12,685,120	8,809	528,547	--
11/12/2023	3,206,129	19.12	2,226	133,589	3,310,073	19.45	2,299	137,920	--	--	--	--	2,158,560	1,037,400	9,712,162	6,745	404,673	--
11/13/2023	4,330,980	23.80	3,008	180,457	4,458,835	24.00	3,096	185,785	--	--	--	--	2,158,560	903,000	11,851,375	8,230	493,807	--
11/14/2023	2,298,057	11.87	1,596	95,752	4,652,263	23.30	3,231	193,844	--	--	--	--	2,158,560	82,600	9,191,480	6,383	382,978	--
11/15/2023	0	0.00	0	0	4,058,599	24.00	2,818	169,108	1,399,177	10.43	972	58,299	2,158,560	1,090,600	8,706,936	6,046	362,789	--
11/16/2023	0	0.00	0	0	3,128,738	21.15	2,173	130,364	4,052,353	23.00	2,814	168,848	2,158,560	1,944,600	11,284,251	7,836	470,177	--
11/17/2023	0	0.00	0	0	3,697,060	23.47	2,567	154,044	4,933,372	24.00	3,426	205,557	2,158,560	1,738,800	12,527,792	8,700	521,991	242
11/18/2023	0	0.00	0	0	3,756,061	24.00	2,608	156,503	3,884,352	24.00	2,697	161,848	2,151,065	2,160,000	11,951,478	8,300	497,978	--
11/19/2023	0	0.00	0	0	144,263	0.97	100	6,011	5,946,710	23.95	4,130	247,780	2,061,125	2,157,000	10,309,097	7,159	429,546	--
11/20/2023	0	0.00	0	0	904,409	7.32	628	37,684	5,519,882	23.85	3,833	229,995	1,484,010	2,160,000	10,068,301	6,992	419,513	--
11/21/2023	0	0.00	0	0	3,696,071	24.00	2,567	154,003	4,825,760	24.00	3,351	201,073	2,158,560	1,944,000	12,624,390	8,767	526,016	274
11/22/2023	0	0.00	0	0	3,716,964	24.00	2,581	154,873	4,403,225	23.88	3,058	183,468	2,158,560	1,944,000	12,222,749	8,488	509,281	--
11/23/2023	0	0.00	0	0	3,664,889	24.00	2,545	152,704	3,054,529	18.10	2,121	127,272	2,158,560	2,160,000	11,037,978	7,665	459,916	--
11/24/2023	0	0.00	0	0	3,362,379	21.67	2,335	140,099	3,057,238	20.93	2,123	127,385	2,158,560	2,016,000	10,594,176	7,357	441,424	--
11/25/2023	0	0.00	0	0	4,051,713	24.00	2,814	168,821	4,410,575	24.00	3,063	183,774	2,068,620	2,016,000	12,546,908	8,713	522,788	--
11/26/2023	0	0.00	0	0	4,275,417	24.00	2,969	178,142	4,483,636	24.00	3,114	186,818	2,143,570	2,016,000	12,918,623	8,971	538,276	--
11/27/2023	0	0.00	0	0	4,098,882	24.00	2,846	170,787	4,933,048	24.00	3,426	205,544	2,113,590	1,728,000	12,873,520	8,940	536,397	--
11/28/2023	0	0.00	0	0	3,944,919	24.00	2,740	164,372	5,674,441	24.00	3,941	236,435	2,068,620	1,728,000	13,415,980	9,317	558,999	--
11/29/2023	0	0.00	0	0	4,210,177	24.00	2,924	175,424	5,781,437	24.00	4,015	240,893	2,158,560	997,500	13,147,674	9,130	547,820	303
11/30/2023	0	0.00	0	0	2,387,531	12.93	1,658	99,480	5,674,567	22.18	3,941	236,440	2,143,570	341,000	10,546,668	7,324	439,444	--

*Flare Flow and Runtime from chart recorder data. Ameresco's variance was approved on February 15th and Ameresco began operations on February 16th.

*Date of lab data based on date sampled.

Chiquita Canyon Landfill
LFG Not Combusted
Monthly Report Period: November 2023

Date	Flare 1, 2, 3, Envent, Zeeco Total Flow Rate (scf/day)	2022 Baseline Flow Rate (scf/day)	LFG Not Combusted (scf/day)[1]	Ameresco LFG Processed (scf/day)[2]	LFG Not Combusted (scfm)
11/1/2023	12,559,761	--	--	5,567,717	--
11/2/2023	11,979,783	--	--	5,546,498	--
11/3/2023	11,390,008	--	--	5,563,171	--
11/4/2023	14,224,524	--	--	5,529,835	--
11/5/2023	13,537,087	--	--	5,558,709	--
11/6/2023	9,982,765	--	--	5,512,589	--
11/7/2023	11,587,182	--	--	5,474,180	--
11/8/2023	11,013,736	--	--	5,484,974	--
11/9/2023	11,925,650	--	--	3,944,454	--
11/10/2023	11,731,372	--	--	2,403,135	--
11/11/2023	12,685,120	--	--	4,283,965	--
11/12/2023	9,712,162	--	--	5,816,384	--
11/13/2023	11,851,375	--	--	5,370,168	--
11/14/2023	9,191,480	--	--	5,932,743	--
11/15/2023	8,706,936	--	--	5,490,741	--
11/16/2023	11,284,251	--	--	1,657,195	--
11/17/2023	12,527,792	--	--	2,946,328	--
11/18/2023	11,951,478	--	--	3,107,778	--
11/19/2023	10,309,097	--	--	4,012,954	--
11/20/2023	10,068,301	--	--	5,586,864	--
11/21/2023	12,624,390	--	--	5,886,807	--
11/22/2023	12,222,749	--	--	5,973,147	--
11/23/2023	11,037,978	--	--	5,957,299	--
11/24/2023	10,594,176	--	--	5,918,337	--
11/25/2023	12,546,908	--	--	5,439,612	--
11/26/2023	12,918,623	--	--	5,999,856	--
11/27/2023	12,873,520	--	--	5,970,026	--
11/28/2023	13,415,980	--	--	5,904,990	--
11/29/2023	13,147,674	--	--	5,965,100	--
11/30/2023	10,546,668	--	--	5,935,460	--
Total/Average					**--**

[1]Total LFG not combusted is calculated based on the difference from total flow rate from all control devices from 2022 (baseline) and flow rate from Flare 1 and 2 during the reporting period. Ameresco applied for variance to operate the LFG turbine plant under a variance order, and their variance was approved on February 15th. Ameresco restarted operations on February 16th, returning LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

[2]Actual Ameresco LFG flow rate after restarting operations are greater than the unflared amount while Ameresco was off-line. Therefore, there are no unflared gas in November 2023.

*Flare Flow and Runtime from chart recorder data.

*Date of lab data based on date sampled.

2022 Baseline Flow Rate			
Devices	**Total Flow (scf)**	**Flow Rate (scf/day)**	**Flow Rate (scfm)**
Flare No. 1	1,380,940,025	3,783,397	2,627
Flare No. 2	1,386,138,034	3,797,638	2,637
LFGTE Facility	1,584,198,413	4,340,270	3,014
Total	**4,351,276,471**	**11,921,305**	**8,279**

*Flare flow from chart recorder data. LFGTE Facility flow from Ameresco.

Attachment C

Surface Emissions Monitoring

2023 Chiquita Surface Emissions Exceedance

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
Integrated (Monthly)															
1/13/23, 1/20/23, 1/21/23 (no exceedances)															
2/1/23, 2/4/23, 2/13/23, 2/21/23 (no exceedances)															
175	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	68	Moisture Condition, Soil/Dirt Compaction	3/13/2023	48	Moisture Condition, Soil/Dirt Compaction	3/24/2023	20	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	9
182	2/21/2023	80	Moisture Condition, Soil/Dirt Compaction	3/3/2023	51	Moisture Condition, Soil/Dirt Compaction	3/13/2023	52	Moisture Condition, Soil/Dirt Compaction	3/24/2023	18	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	8
200	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	72	Moisture Condition, Soil/Dirt Compaction	3/13/2023	56	Moisture Condition, Soil/Dirt Compaction	3/24/2023	22	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	17
202	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	45	Moisture Condition, Soil/Dirt Compaction	3/13/2023	19	NA	NA	NA				
190	3/9/2023	39	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
191	3/9/2023	29	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.63	NA	NA	NA				
192	3/9/2023	41	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
193	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.77	NA	NA	NA				
189	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
188	3/9/2023	38	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.64	NA	NA	NA				
187	3/9/2023	40	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
186	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	13.91	NA	NA	NA				
182	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.7	NA	NA	NA				
183	3/9/2023	48	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.24	NA	NA	NA				
184	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
200	3/9/2023	45	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
181	3/9/2023	34	Moisture Condition, Soil/Dirt Compaction	3/17/2023	21	NA	NA	NA	NA	NA	NA				
180	3/9/2023	49	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
139	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
201	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	17	NA	NA	NA	NA	NA	NA				
175	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
176	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	38	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.49	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	42	Moisture Condition, Soil/Dirt Compaction	3/27/2023	60.04	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	17
202	3/9/2023	54	Moisture Condition, Soil/Dirt Compaction	3/17/2023	36	Moisture Condition, Soil/Dirt Compaction	3/27/2023	30.99	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
174	3/9/2023	60	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
173	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	28	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.75	NA	NA	NA				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	40	Moisture Condition, Soil/Dirt Compaction	3/27/2023	58.78	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	13
203	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	20	NA	NA	NA	NA	NA	NA				
169	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	37	Moisture Condition, Soil/Dirt Compaction	3/27/2023	16.2	NA	NA	NA				
207	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	22	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	55.11	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	14
168	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.65	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
202	3/9/2023	59	Moisture Condition, Soil/Dirt Compaction	3/17/2023	46	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
204	3/27/2023	55	Moisture Condition, Soil/Dirt Compaction	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
203	3/27/2023	52	Moisture Condition, Soil/Dirt Compaction	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA				
207	3/27/2023	50	Moisture Condition, Soil/Dirt Compaction	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA				
206	3/27/2023	58	Moisture Condition, Soil/Dirt Compaction	4/4/2023	18	NA	NA	NA	NA	NA	NA				
205	3/27/2023	60	Moisture Condition, Soil/Dirt Compaction	4/4/2023	16	NA	NA	NA	NA	NA	NA				
175	3/27/2023	49	Moisture Condition, Soil/Dirt Compaction	4/4/2023	13	NA	NA	NA	NA	NA	NA				
202	3/27/2023	30	Moisture Condition, Soil/Dirt Compaction	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
202	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
203	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA	NA	NA	NA				
204	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
207	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA	NA	NA	NA				
174	4/17/2023	40	Moisture Condition, Soil/Dirt Compaction	4/27/2023	22	NA	NA	NA	NA	NA	NA				
190	4/17/2023	26	Moisture Condition, Soil/Dirt Compaction	4/27/2023	17	NA	NA	NA	NA	NA	NA				
200	4/17/2023	25	Moisture Condition, Soil/Dirt Compaction	4/27/2023	19	NA	NA	NA	NA	NA	NA				
207	5/1/2023	54	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
210	5/1/2023	26	Moisture Condition, Soil/Dirt Compaction	5/10/2023	19	NA	NA	NA	NA	NA	NA				
202	5/1/2023	29	Moisture Condition, Soil/Dirt Compaction	5/10/2023	21	NA	NA	NA	NA	NA	NA				
208	5/1/2023	43	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
201	5/17/2023	30	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
205	5/17/2023	26	Moisture Condition, Soil/Dirt Compaction	5/26/2023	19	NA	NA	NA	NA	NA	NA				
203	5/17/2023	27	Moisture Condition, Soil/Dirt Compaction	5/26/2023	21	NA	NA	NA	NA	NA	NA				
169	5/17/2023	25	Moisture Condition, Soil/Dirt Compaction	5/26/2023	18	NA	NA	NA	NA	NA	NA				
173	5/17/2023	35	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
206	5/30/2023	36	Moisture Condition, Soil/Dirt Compaction	6/9/2023	19	NA	NA	NA	NA	NA	NA				
170	5/30/2023	95	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17	NA	NA	NA	NA	NA	NA				
172	5/30/2023	28	Moisture Condition, Soil/Dirt Compaction	6/9/2023	18	NA	NA	NA	NA	NA	NA				
151	5/30/2023	83	Moisture Condition, Soil/Dirt Compaction	6/9/2023	22	NA	NA	NA	NA	NA	NA				
181	5/30/2023	30	Moisture Condition, Soil/Dirt Compaction	6/9/2023	21	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
172	6/13/2023	30	Moisture Condition, Soil/Dirt Compaction	6/22/2023	19	NA	NA	NA	NA	NA	NA				
179	6/13/2023	25	Moisture Condition, Soil/Dirt Compaction	6/22/2023	10	NA	NA	NA	NA	NA	NA				
156	6/13/2023	27	Moisture Condition, Soil/Dirt Compaction	6/22/2023	21	NA	NA	NA	NA	NA	NA				
177	6/13/2023	120	Moisture Condition, Soil/Dirt Compaction	6/22/2023	23	NA	NA	NA	NA	NA	NA				
176	6/27/2023	40	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23	NA	NA	NA	NA	NA	NA				
179	6/27/2023	35	Moisture Condition, Soil/Dirt Compaction	7/7/2023	21	NA	NA	NA	NA	NA	NA				
172	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19	NA	NA	NA	NA	NA	NA				
173	6/27/2023	27	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24	NA	NA	NA	NA	NA	NA				
169	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20	NA	NA	NA	NA	NA	NA				
179	7/10/2023	50	Moisture Condition, Soil/Dirt Compaction	7/20/2023	55	Moisture Condition, Soil/Dirt Compaction	7/28/2023	36	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	24
173	7/10/2023	35	Moisture Condition, Soil/Dirt Compaction	7/20/2023	53	Moisture Condition, Soil/Dirt Compaction	7/28/2023	29	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	23
205	7/10/2023	27	Moisture Condition, Soil/Dirt Compaction	7/20/2023	168	Moisture Condition, Soil/Dirt Compaction	7/28/2023	60	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	21
203	7/10/2023	25	Moisture Condition, Soil/Dirt Compaction	7/20/2023	152	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	19
174	7/24/2023	32	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
175	7/24/2023	45	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
205	8/8/2023	74	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
206	8/8/2023	38	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
169	8/8/2023	27	Moisture Condition, Soil/Dirt Compaction	8/17/2023	21	NA	NA	NA	NA	NA	NA				
170	8/8/2023	29	Moisture Condition, Soil/Dirt Compaction	8/17/2023	22	NA	NA	NA	NA	NA	NA				
175	8/8/2023	30	Moisture Condition, Soil/Dirt Compaction	8/17/2023	19	NA	NA	NA	NA	NA	NA				
206	8/24/2023	120	Moisture Condition, Soil/Dirt Compaction	9/1/2023	377	Moisture Condition, Soil/Dirt Compaction	9/8/2023	23	NA	NA	NA				
176	8/24/2023	76	Moisture Condition, Soil/Dirt Compaction	9/1/2023	210	Moisture Condition, Soil/Dirt Compaction	9/5/2023	13	NA	NA	NA				
175	8/24/2023	68	Moisture Condition, Soil/Dirt Compaction	9/1/2023	380	Moisture Condition, Soil/Dirt Compaction	9/5/2023	11	NA	NA	NA				
174	8/24/2023	28	Moisture Condition, Soil/Dirt Compaction	9/1/2023	406	Moisture Condition, Soil/Dirt Compaction	9/5/2023	15	NA	NA	NA				
202	8/24/2023	31	Moisture Condition, Soil/Dirt Compaction	9/1/2023	220	Moisture Condition, Soil/Dirt Compaction	9/5/2023	19	NA	NA	NA				
201	8/24/2023	48	Moisture Condition, Soil/Dirt Compaction	9/1/2023	230	Moisture Condition, Soil/Dirt Compaction	9/5/2023	18	NA	NA	NA				
181	8/24/2023	29	Moisture Condition, Soil/Dirt Compaction	9/1/2023	180	Moisture Condition, Soil/Dirt Compaction	9/5/2023	17	NA	NA	NA				
207	9/5/2023	26	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.7	NA	NA	NA	NA	NA	NA				
206	9/5/2023	31	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.9	NA	NA	NA	NA	NA	NA				
205	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.7	NA	NA	NA	NA	NA	NA				
169	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.5	NA	NA	NA	NA	NA	NA				
166	9/5/2023	29	Moisture Condition, Soil/Dirt Compaction	9/15/2023	8.0	NA	NA	NA	NA	NA	NA				
154	9/5/2023	28	Moisture Condition, Soil/Dirt Compaction	9/15/2023	7.0	NA	NA	NA	NA	NA	NA				
167	9/19/2023	40	Moisture Condition, Soil/Dirt Compaction	9/29/2023	12.1	NA	NA	NA	NA	NA	NA				
202	9/19/2023	27	Moisture Condition, Soil/Dirt Compaction	9/29/2023	127.0	Moisture Condition, Soil/Dirt Compaction	10/6/2023	43.6	Moisture Condition, Soil/Dirt Compaction	10/13/2023	16	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	16
205	9/19/2023	25	Moisture Condition, Soil/Dirt Compaction	9/29/2023	63.8	Moisture Condition, Soil/Dirt Compaction	10/6/2023	26.9	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	24
204	9/19/2023	28	Moisture Condition, Soil/Dirt Compaction	9/29/2023	44.4	Moisture Condition, Soil/Dirt Compaction	10/6/2023	12.1	NA	NA	NA				
174	9/19/2023	31	Moisture Condition, Soil/Dirt Compaction	9/29/2023	32.9	Moisture Condition, Soil/Dirt Compaction	10/6/2023	29.2	Moisture Condition, Soil/Dirt Compaction	10/13/2023	12	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	12
170	9/19/2023	35	Moisture Condition, Soil/Dirt Compaction	9/29/2023	25.5	Moisture Condition, Soil/Dirt Compaction	10/6/2023	19.6	NA	NA	NA				
201/79	10/3/2023	79	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.5	NA	NA	NA	NA	NA	NA				
202/60	10/3/2023	60	Moisture Condition, Soil/Dirt Compaction	10/13/2023	18.2	NA	NA	NA	NA	NA	NA				
203/37	10/3/2023	37	Moisture Condition, Soil/Dirt Compaction	10/13/2023	19.6	NA	NA	NA	NA	NA	NA				
174/35	10/3/2023	35	Moisture Condition, Soil/Dirt Compaction	10/13/2023	13.3	NA	NA	NA	NA	NA	NA				
169/36	10/3/2023	36	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.4	NA	NA	NA	NA	NA	NA				
170/27	10/3/2023	27	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.2	NA	NA	NA	NA	NA	NA				
206/25	10/3/2023	25	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23	NA	NA	NA	NA	NA	NA				
205/26	10/3/2023	26	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24	NA	NA	NA	NA	NA	NA				
158/145	10/17/2023	145	Moisture Condition, Soil/Dirt Compaction	10/17/2023	12.72	NA	NA	NA	NA	NA	NA				
152/150	10/17/2023	150	Moisture Condition, Soil/Dirt Compaction	10/17/2023	13.82	NA	NA	NA	NA	NA	NA				
206/30	10/17/2023	30	Moisture Condition, Soil/Dirt Compaction	10/17/2023	33.22	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23	NA	NA	NA				
204/29	10/17/2023	29	Moisture Condition, Soil/Dirt Compaction	10/17/2023	18.35	NA	NA	NA	NA	NA	NA				
201/27	10/17/2023	27	Moisture Condition, Soil/Dirt Compaction	10/17/2023	24.50	NA	NA	NA	NA	NA	NA				
202/25	10/17/2023	25	Moisture Condition, Soil/Dirt Compaction	10/17/2023	22.10	NA	NA	NA	NA	NA	NA				
177/151	11/1/2023	151	Moisture Condition, Soil/Dirt Compaction	11/10/2023	24.50	NA	NA	NA	NA	NA	NA				
203/179	11/1/2023	179	Moisture Condition, Soil/Dirt Compaction	11/10/2023	21.95	NA	NA	NA	NA	NA	NA				
206/31	11/1/2023	31	Moisture Condition, Soil/Dirt Compaction	11/10/2023	24.30	NA	NA	NA	NA	NA	NA				
207/28	11/1/2023	28	Moisture Condition, Soil/Dirt Compaction	11/10/2023	23.21	NA	NA	NA	NA	NA	NA				
205/40	11/1/2023	40	Moisture Condition, Soil/Dirt Compaction	11/10/2023	22.71	NA	NA	NA	NA	NA	NA				
176/63	11/14/2023	63	Track walk/compact soil	11/22/2023	24.00	NA	NA	NA	NA	NA	NA				
177/43	11/14/2023	43	Track walk/compact soil	11/22/2023	20.00	NA	NA	NA	NA	NA	NA				
202/115	11/14/2023	115	Track walk/compact soil	11/22/2023	23.00	NA	NA	NA	NA	NA	NA				
174/64	11/14/2023	64	Track walk/compact soil	11/22/2023	18.00	NA	NA	NA	NA	NA	NA				
206/35	11/14/2023	35	Track walk/compact soil	11/22/2023	21.00	NA	NA	NA	NA	NA	NA				
169/28	11/14/2023	28	Track walk/compact soil	11/22/2023	23.00	NA	NA	NA	NA	NA	NA				
170/31	11/14/2023	31	Track walk/compact soil	11/22/2023	22.00	NA	NA	NA	NA	NA	NA				
180/31	11/28/2023	31	Track walk/compact soil	12/7/2023	22.00	NA	NA	NA	NA	NA	NA				
177/56	11/28/2023	56	Track walk/compact soil	12/7/2023	34.00	Pending	Pending	Pending							
174/25	11/28/2023	25	Track walk/compact soil	12/7/2023	21.00	NA	NA	NA	NA	NA	NA				
202/43	11/28/2023	43	Track walk/compact soil	12/7/2023	37.00	Pending	Pending	Pending							
206/37	11/28/2023	37	Track walk/compact soil	12/7/2023	32.00	Pending	Pending	Pending							
176/28	11/28/2023	28	Track walk/compact soil	12/7/2023	23.00	NA	NA	NA	NA	NA	NA				
Instantaneous (Monthly)															
201/Y1	1/25/2023	700	Moisture Condition, Soil/Dirt Compaction	2/2/2023	263	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	358				
205/Y21	1/25/2023	764	Moisture Condition, Soil/Dirt Compaction	2/2/2023	194	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	299				
214/Y22	1/25/2023	802	Moisture Condition, Soil/Dirt Compaction	2/2/2023	299	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	106				
214/Y23	1/25/2023	998	Moisture Condition, Soil/Dirt Compaction	2/2/2023	157	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	110				
202/Y41	1/25/2023	3,028	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	458				
202/Y42	1/25/2023	4,263	Moisture Condition, Soil/Dirt Compaction	2/2/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	406				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
215/Y43	1/25/2023	6,519	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	398				
215/Y44	1/25/2023	963	Moisture Condition, Soil/Dirt Compaction	2/2/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	164				
203/Y61	1/25/2023	4,652	Moisture Condition, Soil/Dirt Compaction	2/2/2023	409	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	410				
203/Y62	1/25/2023	778	Moisture Condition, Soil/Dirt Compaction	2/2/2023	54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	68				
203/Y63	1/25/2023	2,465	Moisture Condition, Soil/Dirt Compaction	2/2/2023	479	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	94				
211/Y63	1/25/2023	1,237	Moisture Condition, Soil/Dirt Compaction	2/2/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	123				
201/Y21	2/23/2023	2,169	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	185	Moisture Condition, Soil/Dirt Compaction	3/24/2023	121				
175/Y22	2/23/2023	964	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	1300	Moisture Condition, Soil/Dirt Compaction	3/24/2023	484	4/27/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 4/17/23	10
175/Y23	2/23/2023	3,654	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,500	Moisture Condition, Soil/Dirt Compaction	3/13/2023	100	Moisture Condition, Soil/Dirt Compaction	3/24/2023	100				
202/Y41	2/23/2023	36,201	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,250	Moisture Condition, Soil/Dirt Compaction	3/13/2023	638	Moisture Condition, Soil/Dirt Compaction	3/24/2023	235	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y42	2/23/2023	1,678	Moisture Condition, Soil/Dirt Compaction	3/3/2023	2,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	836	Moisture Condition, Soil/Dirt Compaction	3/24/2023	441	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y43	2/23/2023	843	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,505	Moisture Condition, Soil/Dirt Compaction	3/13/2023	190	Moisture Condition, Soil/Dirt Compaction	3/24/2023	398				
169/Y61	2/23/2023	15,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	9,999	Moisture Condition, Soil/Dirt Compaction	3/13/2023	720	Moisture Condition, Soil/Dirt Compaction	3/24/2023	215	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	17
208/Y121	2/23/2023	1,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	685	Moisture Condition, Soil/Dirt Compaction	3/13/2023	135	Moisture Condition, Soil/Dirt Compaction	3/24/2023	380				
208/Y122	2/23/2023	1,200	Moisture Condition, Soil/Dirt Compaction	3/3/2023	950	Moisture Condition, Soil/Dirt Compaction	3/13/2023	580	Moisture Condition, Soil/Dirt Compaction	3/24/2023	291	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	23
207/Y1	3/31/2023	900	Moisture Condition, Soil/Dirt Compaction	4/10/2023	22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	37				
207/Y2	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	129				
202/Y3	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	98				
201/Y4	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	209				
175/Y5	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	461	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	162				
178/Y11	3/31/2023	2,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	199				
179/Y12	3/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	4/10/2023	15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	143				
175/Y13	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	425	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	398				
174/Y14	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	82				
174/Y15	3/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	4/10/2023	300	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	283				
202/Y16	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	373	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	112				
203/Y27	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	218	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	316				
203/Y18	3/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	4/10/2023	68.88	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	152				
204/Y19	3/31/2023	500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	27.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	30				
204/Y20	3/31/2023	520	Moisture Condition, Soil/Dirt Compaction	4/10/2023	173	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	23				
H-1952C	4/6/2023	1,500	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	397	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	247				
H-1754N	4/6/2023	1,000	Increased applied vacuum with higher system vacuum. Adjusted well H-1773B. Added new soil and compacted area.	4/14/2023	419	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301				
H-1964C	4/6/2023	550	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	242	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256				
L-32	4/6/2023	1,100	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	320	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	283				
D-180	4/6/2023	4,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	272	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	194				
H-1962S	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	252	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	271				
H-2116W	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	438	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	406				
H-1773B	4/6/2023	700	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	386	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	382				
H-1965AR	4/6/2023	7,000	Reconnected H-1758S on 4/13/23 and applied vacuum. Added new soil and compacted around well casing.	4/14/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	138				
CV-2201	4/6/2023	543	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	266	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	44				
H-1963A	4/6/2023	951	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	342	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	203				
H-1966S	4/6/2023	10,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	141				
CV-2006	4/6/2023	800	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	348	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	121				
189/Y61	4/26/2023	570	Moisture Condition, Soil/Dirt Compaction	5/5/2023	346	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	39				
180/Y62	4/26/2023	1,300	Moisture Condition, Soil/Dirt Compaction	5/5/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	215				
181/Y63	4/26/2023	2,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	414	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	483				
150/Y64	4/26/2023	3,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	108	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	411				
150/Y65	4/26/2023	7,891	Moisture Condition, Soil/Dirt Compaction	5/5/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	489				
156/Y66	4/26/2023	813	Moisture Condition, Soil/Dirt Compaction	5/5/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	92				
145/Y67	4/26/2023	1,047	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	52				
145/Y68	4/26/2023	685	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	23				
173/Y1	4/26/2023	1,582	Moisture Condition, Soil/Dirt Compaction	5/5/2023	284	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	291				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
174/Y2	4/26/2023	9,999	Moisture Condition, Soil/Dirt Compaction	5/5/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	493				
176/Y21	4/26/2023	930	Moisture Condition, Soil/Dirt Compaction	5/5/2023	403	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	57				
176/Y22	4/26/2023	600	Moisture Condition, Soil/Dirt Compaction	5/5/2023	221	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	74				
176/Y23	4/26/2023	734	Moisture Condition, Soil/Dirt Compaction	5/5/2023	143	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	70				
176/Y24	4/26/2023	860	Moisture Condition, Soil/Dirt Compaction	5/5/2023	98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	111				
175/Y25	4/26/2023	710	Moisture Condition, Soil/Dirt Compaction	5/5/2023	105	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	134				
175/Y26	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	316	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	87				
175/Y27	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	106				
156/Y41	4/26/2023	1,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	76	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	88				
179/Y42	4/26/2023	900	Moisture Condition, Soil/Dirt Compaction	5/5/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	73				
184/Y43	4/26/2023	1,200	Moisture Condition, Soil/Dirt Compaction	5/5/2023	262	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	159				
184/Y44	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	136	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	132				
184/Y45	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	156				
187/Y46	4/26/2023	2,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	288	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	406				
84/Y47	4/26/2023	3,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	412	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	371				
84/Y48	4/26/2023	2,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	394	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	353				
84/Y49	4/26/2023	3,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	473	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	216				
159/Y1	5/30/2023	500	Moisture Condition, Soil/Dirt Compaction	6/9/2023	63.11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	51				
161/Y2	5/30/2023	30,000	Moisture Condition, Soil/Dirt Compaction	6/9/2023	248	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	485				
157/Y31	5/30/2023	538	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	173				
157/Y32	5/30/2023	576	Moisture Condition, Soil/Dirt Compaction	6/9/2023	26.04	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	165				
150/Y33	5/30/2023	655	Moisture Condition, Soil/Dirt Compaction	6/9/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	62				
145/Y34	5/30/2023	511	Moisture Condition, Soil/Dirt Compaction	6/9/2023	204	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	186				
155/Y21	5/30/2023	653	Moisture Condition, Soil/Dirt Compaction	6/9/2023	53.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	83				
90/Y22	5/30/2023	5,530	Moisture Condition, Soil/Dirt Compaction	6/9/2023	39.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	357				
159/Y11	5/30/2023	855	Moisture Condition, Soil/Dirt Compaction	6/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	323				
83/Y23	5/30/2023	821	Moisture Condition, Soil/Dirt Compaction	6/9/2023	139	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	57				
81/Y25	5/30/2023	771	Moisture Condition, Soil/Dirt Compaction	6/9/2023	369	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	340				
170/H-1564N	6/1/2023	8,000	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	175				
170/H-1964S	6/1/2023	618	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	3.45				
170/H-1405E	6/1/2023	699	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	14	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	376				
151/H-1773B	6/1/2023	719	Added soil and trackwalked	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	345				
151/H-1773B	6/1/2023	4,000	Added soil and trackwalked	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	148				
151/H-1773B	6/1/2023	27,000	Added soil and trackwalked	6/9/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	205				
151/H-1773B	6/1/2023	1,255	Added soil and trackwalked	6/9/2023	19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	183				
156/TC-2380C	6/1/2023	NA	Added soil and trackwalked	6/9/2023	7.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	25				
176/Y1	6/29/2023	700	Moisture Condition, Soil/Dirt Compaction	7/7/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	220				
176/Y2	6/29/2023	800	Moisture Condition, Soil/Dirt Compaction	7/7/2023	67.40	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	165				
172/Y3	6/29/2023	660	Moisture Condition, Soil/Dirt Compaction	7/7/2023	12.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	89				
187/Y46	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	59.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	26				
150/Y5	6/29/2023	525	Moisture Condition, Soil/Dirt Compaction	7/7/2023	25.83	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	152				
149/Y6	6/29/2023	1,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	262				
149/Y7	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	325				
149/Y8	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,552	Additional Soil/Dirt Compaction	7/14/2023	189	Moisture Condition, Soil/Dirt Compaction	7/28/2023	189				
53/Y9	6/29/2023	1,300	Moisture Condition, Soil/Dirt Compaction	7/7/2023	96.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	231				
81/Y10	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,250	Additional Soil/Dirt Compaction. Adjust Well H-2167B	7/14/2023	195	Moisture Condition, Soil/Dirt Compaction	7/28/2023	195				
172/Y11	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
157/Y12	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
152/Y13	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	7.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	56				
148/Y14	6/29/2023	1,900	Moisture Condition, Soil/Dirt Compaction	7/7/2023	223	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	15				
149/Y15	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	37				
150/Y16	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	39.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	80				
33/Y17	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	61.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
35/Y18	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	48.62	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	168				
176/Y21	6/29/2023	1,200	Moisture Condition, Soil/Dirt Compaction	7/7/2023	Unable to Monitor (repair work being completed)	Additional Soil/Dirt Compaction	7/14/2023	164	Moisture Condition, Soil/Dirt Compaction	7/28/2023	164				
176/Y22	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	43.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
181/Y23	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	31.95	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	66				
182/Y24	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	44.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	43				
181/Y25	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
201/Y26	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	38.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	23				
201/Y27	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
175/Y28	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	93.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	53				
172/Y29	6/29/2023	2,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	118				
183/Y31	6/29/2023	1,570	Moisture Condition, Soil/Dirt Compaction	7/7/2023	28.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	25				
183/Y32	6/29/2023	2,059	Moisture Condition, Soil/Dirt Compaction	7/7/2023	51.73	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	42				
183/Y33	6/29/2023	710	Moisture Condition, Soil/Dirt Compaction	7/7/2023	78.18	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	45				
180/Y34	6/29/2023	1,026	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	32				
180/Y35	6/29/2023	943	Moisture Condition, Soil/Dirt Compaction	7/7/2023	27.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	64				
175/Y36	6/29/2023	1,284	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	109				
174/Y37	6/29/2023	3,012	Moisture Condition, Soil/Dirt Compaction	7/7/2023	95.78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
174/Y38	6/29/2023	4,604	Moisture Condition, Soil/Dirt Compaction	7/7/2023	237	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
90/Y39	6/29/2023	1,148	Moisture Condition, Soil/Dirt Compaction	7/7/2023	3,961	Additional Soil/Dirt Compaction	7/14/2023	147	Moisture Condition, Soil/Dirt Compaction	7/28/2023	147				
150/Y11	7/31/2023	800	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
150/Y12	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	142	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
149/Y13	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	58				
81/Y14	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	306	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
81/Y15	7/31/2023	9,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	211	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	60				
59/Y16	7/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
32/Y17	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	289	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
32/Y18	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	15				
53/Y31	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	410	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	19				
81/Y32	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	341	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	38				
53/Y33	7/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	58	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
81/Y34	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	9				
59/Y35	7/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	8/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	7				
32/Y36	7/31/2023	550	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	31				
152/Y21	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	294	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	29				
152/Y22	7/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	8/9/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	111				
149/Y23	7/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	214	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	50				
149/Y24	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	310	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
149/Y25	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	137	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
83/Y26	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	123				
169/Y1	7/31/2023	2,021	Moisture Condition, Soil/Dirt Compaction	8/9/2023	240	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	73				
170/Y2	7/31/2023	506	Moisture Condition, Soil/Dirt Compaction	8/9/2023	91	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	33				
170/Y3	7/31/2023	526	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
170/Y3	7/31/2023	622	Moisture Condition, Soil/Dirt Compaction	8/9/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
166/Y4	7/31/2023	543	Moisture Condition, Soil/Dirt Compaction	8/9/2023	78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	22				
166/Y5	7/31/2023	528	Moisture Condition, Soil/Dirt Compaction	8/9/2023	81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	52				
166/Y6	7/31/2023	508	Moisture Condition, Soil/Dirt Compaction	8/9/2023	29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
166/Y7	7/31/2023	9,003	Moisture Condition, Soil/Dirt Compaction	8/9/2023	434	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	12				
159/Y9	7/31/2023	5,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	276	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
154/Y10	7/31/2023	9,453	Moisture Condition, Soil/Dirt Compaction	8/9/2023	304	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
153/Y41	7/31/2023	1,353	Moisture Condition, Soil/Dirt Compaction	8/9/2023	125	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	103				
150/Y1	8/31/2023	560	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	3.5				
150/Y2	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	21.5				
177/Y3	8/31/2023	700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	147	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	17.5				
176/Y44	8/31/2023	525	Moisture Condition, Soil/Dirt Compaction	9/8/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	70.3				
189/Y5	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	166	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	85.2				
205/Y6	8/31/2023	780	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	34.5				
205/Y7	8/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	466	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	27.1				
206/Y11	8/31/2023	600	Moisture Condition, Soil/Dirt Compaction	9/8/2023	429	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	89.7				
206/Y12	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	160	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	107.0				
82/Y21	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	241	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	244.0				
81/Y22	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	408	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	361.0				
149/Y23	8/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/8/2023	282	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	372.0				
149/Y24	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	102	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	157.0				
149/Y25	8/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	447	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	237.0				
154/Y26	8/31/2023	5,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	498	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	51.3				
155/Y27	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	71.5				
154/Y28	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	375.0				
154/Y29	8/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	118.0				
159/Y30	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	387	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	220.0				
83/Y31	8/31/2023	845	Moisture Condition, Soil/Dirt Compaction	9/8/2023	488	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	435.0				
84/Y32	8/31/2023	960	Moisture Condition, Soil/Dirt Compaction	9/8/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	353.0				
90/Y33	8/31/2023	2,280	Moisture Condition, Soil/Dirt Compaction	9/8/2023	420	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
90/Y34	8/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/8/2023	497	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
161/Y35	8/31/2023	945	Moisture Condition, Soil/Dirt Compaction	9/8/2023	250	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	111.0				
161/Y36	8/31/2023	860	Moisture Condition, Soil/Dirt Compaction	9/8/2023	377	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	95.7				
163/Y37	8/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	13.8				
166/Y38	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	6.4				
166/Y39	8/31/2023	8,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	437	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	4.3				
166/Y40	8/31/2023	5,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	489	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	246.0				
201/Y81	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	103.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	259.0				
202/Y82	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	16.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	102.0				
201/Y83	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	29.13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	58.0				
205/Y84	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	50.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,134.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24.2				
206/Y85	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	38.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	473.0				
173/Y61	9/13/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/22/2023	23.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	388.0				
170/Y62	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	45.0				
158/Y63	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	5.19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	131.0				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
149/Y64	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	58.60	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	483.0				
149/Y65	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	234.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	270.0				
149/Y66	9/13/2023	1,600	Moisture Condition, Soil/Dirt Compaction	9/22/2023	109.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	248.0				
156/Y41	9/13/2023	720	Moisture Condition, Soil/Dirt Compaction	9/22/2023	15.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	94.0				
172/Y42	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,397.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21.1				
175/Y43	9/13/2023	510	Moisture Condition, Soil/Dirt Compaction	9/22/2023	335.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	69.0				
175/Y44	9/13/2023	628	Moisture Condition, Soil/Dirt Compaction	9/22/2023	53.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	80.0				
181/Y45	9/13/2023	520	Moisture Condition, Soil/Dirt Compaction	9/22/2023	75.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	126.0				
181/Y46	9/13/2023	640	Moisture Condition, Soil/Dirt Compaction	9/22/2023	151.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	138.0				
181/Y47	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	255.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	413.0				
181/Y48	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	33.41	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	353.0				
176/Y49	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	273.0				
176/Y50	9/13/2023	635	Moisture Condition, Soil/Dirt Compaction	9/22/2023	101.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	89.0				
178/Y51	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	217.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	73.0				
184/Y21	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	275.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	728.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23.2				
150/Y22	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	78.0				
150/Y23	9/13/2023	2,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	35.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	51.0				
145/Y24	9/13/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	4.17	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	194.0				
77/Y25	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	18.03	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	206.0				
78/Y26	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	144.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,053.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	20.99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18.8				
78/Y27	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	73.63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	431.0				
146/Y28	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	19.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	455.0				
191/Y1	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	31.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	239.0				
191/Y2	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	125.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	171.0				
192/Y3	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	243.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	38.0				
193/Y4	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	267.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	83.0				
193/Y5	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	147.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	176.0				
187/Y6	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	246.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	208.0				
153/Y67	9/13/2023	500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	154.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	156.0				
191/Y81	9/27/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	572.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.91	Moisture Condition, Soil/Dirt Compaction	10/19/2023	58				
189/Y82	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	96.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	31				
189/Y83	9/27/2023	2,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	844.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.5	Moisture Condition, Soil/Dirt Compaction	10/19/2023	392				
181/Y84	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	50.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	106				
201/Y85	9/27/2023	1,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	239.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	254				
201/Y86	9/27/2023	800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	74.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	93				
203/Y87	9/27/2023	1,132	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.12	Moisture Condition, Soil/Dirt Compaction	10/19/2023	78				
205/Y88	9/27/2023	8,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,322.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.75	Moisture Condition, Soil/Dirt Compaction	10/19/2023	487				
206/Y89	9/27/2023	1,730	Moisture Condition, Soil/Dirt Compaction	10/6/2023	2,159.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.52	Moisture Condition, Soil/Dirt Compaction	10/19/2023	69				
185/Y61	9/27/2023	835	Moisture Condition, Soil/Dirt Compaction	10/6/2023	126.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	122				
177/Y62	9/27/2023	521	Moisture Condition, Soil/Dirt Compaction	10/6/2023	67.31	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	100				
177/Y63	9/27/2023	615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	104.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	216				
171/Y64	9/27/2023	815	Moisture Condition, Soil/Dirt Compaction	10/6/2023	256.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	43				
182/Y11	9/27/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,631.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.86	Moisture Condition, Soil/Dirt Compaction	10/19/2023	324				
203/Y12	9/27/2023	2,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,249.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	14.75	Moisture Condition, Soil/Dirt Compaction	10/19/2023	307				
159/Y01	9/27/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/6/2023	98.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	271				
154/Y02	9/27/2023	1,128	Moisture Condition, Soil/Dirt Compaction	10/6/2023	75.06	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	51				
152/Y03	9/27/2023	5,599	Moisture Condition, Soil/Dirt Compaction	10/6/2023	283.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	492				
152/Y04	9/27/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/6/2023	20.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	63				
170/Y41	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	966.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.42	Moisture Condition, Soil/Dirt Compaction	10/19/2023	21				
176/Y42	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	714.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.98	Moisture Condition, Soil/Dirt Compaction	10/19/2023	233				
183/Y43	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,008.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	18.18	Moisture Condition, Soil/Dirt Compaction	10/19/2023	163				
183/Y44	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	847.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.32	Moisture Condition, Soil/Dirt Compaction	10/19/2023	111				
173/Y45	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.5	Moisture Condition, Soil/Dirt Compaction	10/19/2023	72				
168/Y46	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,352.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	21.45	Moisture Condition, Soil/Dirt Compaction	10/19/2023	79				
166/Y71	9/27/2023	1,953	Moisture Condition, Soil/Dirt Compaction	10/6/2023	382.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	224				
165/Y72	9/27/2023	2,615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	460.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	281				
154/Y73	9/27/2023	1,205	Moisture Condition, Soil/Dirt Compaction	10/6/2023	324.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	132				
149/Y74	9/27/2023	8,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,100.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.31	Moisture Condition, Soil/Dirt Compaction	10/19/2023	478				
149/Y75	9/27/2023	7,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	759.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.54	Moisture Condition, Soil/Dirt Compaction	10/19/2023	456				
184/Y1	10/11/2023	600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	14.96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
184/Y2	10/11/2023	725	Moisture Condition, Soil/Dirt Compaction	10/20/2023	55.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
183/Y3	10/11/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	50.35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
183/Y4	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21				
183/Y5	10/11/2023	1,250	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
187/Y6	10/11/2023	650	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
187/Y7	10/11/2023	715	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	15				
156/Y51	10/11/2023	5,600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	134	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
152/Y52	10/11/2023	9,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	220	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
146/Y53	10/11/2023	4,800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	95.4	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
147/Y54	10/11/2023	5,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	75.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	20				
152/Y55	10/11/2023	5,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
157/Y56	10/11/2023	4,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
202/Y31	10/11/2023	1,300	Moisture Condition, Soil/Dirt Compaction	10/20/2023	32.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
202/Y32	10/11/2023	1,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	163	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	16				
202/Y33	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
203/Y34	10/11/2023	1,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
181/Y11	10/11/2023	600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.45	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
201/Y12	10/11/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
179/Y13	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	109	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
77/Y14	10/11/2023	800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	10				
201/Y21	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	45.64	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
101/Y22	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
172/Y23	10/11/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
172/Y24	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	34.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
173/Y25	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
175/Y26	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
175/Y27	10/11/2023	2,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	101	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	15				
175/Y28	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.55	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
204/Y61	10/11/2023	2,800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.8	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
208/Y62	10/11/2023	3,840	Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	13				
208/Y63	10/11/2023	3,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	19.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	16				
165/Y64	10/11/2023	5,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	13				
163/Y65	10/11/2023	4,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	132	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
165/Y66	10/11/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21				
165/Y67	10/11/2023	1,650	Moisture Condition, Soil/Dirt Compaction	10/20/2023	19.54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
149/Y61	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.31	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	125				
149/Y62	10/25/2023	1,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	22.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	43				
149/Y63	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	17.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	61				
180/Y11	10/25/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	20				
180/Y12	10/25/2023	700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	24.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	20				
180/Y13	10/25/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	18.65	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	125				
181/Y14	10/25/2023	700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.55	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	41				
179/Y15	10/25/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	30				
150/Y16	10/25/2023	650	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	23				
165/Y51	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	15				
160/Y52	10/25/2023	800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	34				
90/Y53	10/25/2023	8,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.57	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	72				
155/Y54	10/25/2023	6,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	43				
174/Y31	10/25/2023	2,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	120				
174/Y32	10/25/2023	1,800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	36.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	85				
202/Y33	10/25/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/3/2023	41.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	21				
205/Y41	10/25/2023	600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	37.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	165				
205/Y42	10/25/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	33.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	325				
192/Y1	10/25/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	45				
192/Y2	10/25/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	18.59	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	18				
192/Y3	10/25/2023	800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	26				
192/Y4	10/25/2023	1,600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	15.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	17				
191/Y5	10/25/2023	2,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	38				
189/Y6	10/25/2023	1,700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	17.85	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	26				
189/Y7	10/25/2023	1,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	22.98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	41				
187/Y8	10/25/2023	1,600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	20				
184/Y9	10/25/2023	2,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	15				
184/Y10	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	33.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	34				
176/CV2303	11/8/2023	672	Increased applied vacuum to well CV-2303. Added and compacted soil around casing.	11/17/2023	180	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	34				
177/H1964C	11/8/2023	1,216	Increased applied vacuum to well H-1964C. Added and compacted soil around casing.	11/17/2023	342	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	206				
174/CV2339	11/8/2023	1,900	Verified maximum vacuum applied and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	156	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	319				
202/CV1532A	11/8/2023	945	Verified maximum vacuum applied and adjusted adjacent wells. Remonitored 11/17/23 with higher vacuum applied. Added and compacted soil around casing.	11/17/2023	2000	Verified maximum vacuum applied and adjusted adjacent wells. Installed well bore seal, added and compacted soil around casing.	11/28/2023	36	Moisture Condition, Soil/Dirt Compaction	12/7/2023	102				
169/CV1532	11/8/2023	800	Increased applied vacuum to well CV-1532. Added and compacted soil around casing.	11/17/2023	83	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	44				
203/CV1534A	11/8/2023	1,385	Verified maximum vacuum applied and adjusted adjacent wells. Remonitored 11/15/23 with higher vacuum applied. Added and compacted soil around casing.	11/17/2023	800	Verified maximum vacuum applied and adjusted adjacent wells. Installed well bore seal, added and compacted soil around casing.	11/28/2023	7	Moisture Condition, Soil/Dirt Compaction	12/7/2023	170				
203/CV1534	11/8/2023	985	Adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	100	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	149				
202/CV2354	11/8/2023	1,136	Verified applied vacuum and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	40	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	66				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
202/Surface	11/8/2023	1,000	Scrim cover over area. Unable to safely access for follow-up monitoring.	11/17/2023	Pending	Scrim cover over area. Unable to safely access for follow-up monitoring.	11/28/2023	Pending	N/A	N/A	N/A				
			Moisture Condition, Soil/Dirt Compaction	12/7/2023	84.13	N/A	N/A	N/A	Pending	Pending	Pending				
175/CV2353	11/8/2023	1,200	Verified maximum vacuum applied and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	3700	Verified maximum vacuum applied and adjusted adjacent wells. Installed well bore seal, added and compacted soil around casing.	11/28/2023	22.3	Moisture Condition, Soil/Dirt Compaction	12/7/2023	64				
174/CV2342A	11/8/2023	669	Verified maximum vacuum applied and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	470	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	22				
83/Y161	11/10/2023	1,900	Moisture Condition, Soil/Dirt Compaction	11/20/2023	34.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	350				
83/Y162	11/10/2023	3,100	Moisture Condition, Soil/Dirt Compaction	11/20/2023	47.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	175				
83/Y163	11/10/2023	21,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	64.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	401				
88/Y164	11/10/2023	9,999	Moisture Condition, Soil/Dirt Compaction	11/20/2023	71.15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	455				
89/Y165	11/10/2023	2,300	Moisture Condition, Soil/Dirt Compaction	11/20/2023	52.51	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	421				
96/Y166	11/10/2023	700	Moisture Condition, Soil/Dirt Compaction	11/20/2023	27.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	126				
193/Y167	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	81.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	223				
192/Y168	11/10/2023	800	Moisture Condition, Soil/Dirt Compaction	11/20/2023	91.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	158				
192/Y169	11/10/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/20/2023	71.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	474				
165/Y103	11/10/2023	547	Moisture Condition, Soil/Dirt Compaction	11/20/2023	81.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	110				
78/Y1	11/10/2023	13,692	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.61	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	461				
77/Y25	11/10/2023	7,331	Moisture Condition, Soil/Dirt Compaction	11/20/2023	51.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	455				
150/Y33	11/10/2023	4,091	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.37	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	319				
187/Y4	11/10/2023	5,230	Moisture Condition, Soil/Dirt Compaction	11/20/2023	77.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	326				
187/Y5	11/10/2023	28,624	Moisture Condition, Soil/Dirt Compaction	11/20/2023	35.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	419				
184/Y6	11/10/2023	669	Moisture Condition, Soil/Dirt Compaction	11/20/2023	7.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	325				
179/Y7	11/10/2023	765	Moisture Condition, Soil/Dirt Compaction	11/20/2023	5.24	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	198				
179/Y8	11/10/2023	8,563	Moisture Condition, Soil/Dirt Compaction	11/20/2023	21.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	226				
180/Y9	11/10/2023	515	Moisture Condition, Soil/Dirt Compaction	11/20/2023	37.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	117				
180/Y10	11/10/2023	6,892	Moisture Condition, Soil/Dirt Compaction	11/20/2023	15.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	482				
183/Y11	11/10/2023	2,324	Moisture Condition, Soil/Dirt Compaction	11/20/2023	13.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	342				
189/Y12	11/10/2023	3,642	Moisture Condition, Soil/Dirt Compaction	11/20/2023	68.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	232				
189/Y13	11/10/2023	3,105	Moisture Condition, Soil/Dirt Compaction	11/20/2023	17.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	471				
146/Y41	11/10/2023	680	Moisture Condition, Soil/Dirt Compaction	11/20/2023	51.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	123				
147/Y42	11/10/2023	530	Moisture Condition, Soil/Dirt Compaction	11/20/2023	43.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	99				
147/Y43	11/10/2023	692	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	43				
151/Y44	11/10/2023	702	Moisture Condition, Soil/Dirt Compaction	11/20/2023	25.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	36				
156/Y45	11/10/2023	1,292	Moisture Condition, Soil/Dirt Compaction	11/20/2023	50.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	204				
176/Y46	11/10/2023	19,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	75.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	462				
173/Y47	11/10/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	458				
175/Y48	11/10/2023	6,780	Moisture Condition, Soil/Dirt Compaction	11/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	396				
201/Y49	11/10/2023	1,250	Moisture Condition, Soil/Dirt Compaction	11/20/2023	16.02	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	401				
148/Y81	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	248				
149/Y82	11/10/2023	500	Moisture Condition, Soil/Dirt Compaction	11/20/2023	30.27	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	70				
149/Y83	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	40.38	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	101				
154/Y84	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	53.35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	24				
154/Y85	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	121	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	13				
153/Y86	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	91.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	137				
158/Y87	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	50.39	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	464				
159/Y88	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.61	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	429				
166/Y89	11/10/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/20/2023	30.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	14				
170/Y90	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	19.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	256				
168/Y91	11/10/2023	8,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	39.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	180				
169/Y92	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	13.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	317				
203/Y93	11/10/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	196	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	461				
204/Y94	11/10/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/20/2023	15.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	494				
90/B102	11/10/2023	208	Moisture Condition, Soil/Dirt Compaction	11/20/2023	33.1	NA	NA	NA	Pending	Pending	Pending				
146/B41	11/10/2023	390	Moisture Condition, Soil/Dirt Compaction	11/20/2023	15.21	NA	NA	NA	Pending	Pending	Pending				
176/B42	11/10/2023	330	Moisture Condition, Soil/Dirt Compaction	11/20/2023	75.1	NA	NA	NA	Pending	Pending	Pending				
152/B42	11/10/2023	289	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.2	NA	NA	NA	Pending	Pending	Pending				
151/B43	11/10/2023	218	Moisture Condition, Soil/Dirt Compaction	11/20/2023	33.15	NA	NA	NA	Pending	Pending	Pending				
151/B44	11/10/2023	320	Moisture Condition, Soil/Dirt Compaction	11/20/2023	27.33	NA	NA	NA	Pending	Pending	Pending				
151/B45	11/10/2023	289	Moisture Condition, Soil/Dirt Compaction	11/20/2023	13.5	NA	NA	NA	Pending	Pending	Pending				
156/B46	11/10/2023	210	Moisture Condition, Soil/Dirt Compaction	11/20/2023	50.71	NA	NA	NA	Pending	Pending	Pending				
157/B47	11/10/2023	347	Moisture Condition, Soil/Dirt Compaction	11/20/2023	22.21	NA	NA	NA	Pending	Pending	Pending				
172/B48	11/10/2023	218	Moisture Condition, Soil/Dirt Compaction	11/20/2023	30.35	NA	NA	NA	Pending	Pending	Pending				
172/B49	11/10/2023	230	Moisture Condition, Soil/Dirt Compaction	11/20/2023	19.33	NA	NA	NA	Pending	Pending	Pending				
177/B50	11/10/2023	290	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.42	NA	NA	NA	Pending	Pending	Pending				
176/B51	11/10/2023	279	Moisture Condition, Soil/Dirt Compaction	11/20/2023	25.31	NA	NA	NA	Pending	Pending	Pending				
179/B52	11/10/2023	230	Moisture Condition, Soil/Dirt Compaction	11/20/2023	17.27	NA	NA	NA	Pending	Pending	Pending				
183/Y1	11/22/2023	800	Moisture Condition, Soil/Dirt Compaction	11/30/2023	200	NA	NA	NA	Pending	Pending	Pending				
183/Y2	11/22/2023	600	Moisture Condition, Soil/Dirt Compaction	11/30/2023	110	NA	NA	NA	Pending	Pending	Pending				
180/Y3	11/22/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/30/2023	270	NA	NA	NA	Pending	Pending	Pending				
175/Y51	11/22/2023	659	Moisture Condition, Soil/Dirt Compaction	11/30/2023	126	NA	NA	NA	Pending	Pending	Pending				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
174/Y52	11/22/2023	859	Moisture Condition, Soil/Dirt Compaction	11/30/2023	97	NA	NA	NA	Pending	Pending	Pending				
169/Y53	11/22/2023	1,229	Moisture Condition, Soil/Dirt Compaction	11/30/2023	203	NA	NA	NA	Pending	Pending	Pending				
176/Y54	11/22/2023	620	Moisture Condition, Soil/Dirt Compaction	11/30/2023	107	NA	NA	NA	Pending	Pending	Pending				
173/Y55	11/22/2023	995	Moisture Condition, Soil/Dirt Compaction	11/30/2023	75	NA	NA	NA	Pending	Pending	Pending				
207/Y41	11/22/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/30/2023	190	NA	NA	NA	Pending	Pending	Pending				
207/Y42	11/22/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/30/2023	54	NA	NA	NA	Pending	Pending	Pending				
204/Y43	11/22/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/30/2023	250	NA	NA	NA	Pending	Pending	Pending				
187/Y11	11/22/2023	2,700	Moisture Condition, Soil/Dirt Compaction	11/30/2023	470	NA	NA	NA	Pending	Pending	Pending				
187/Y12	11/22/2023	2,300	Moisture Condition, Soil/Dirt Compaction	11/30/2023	421	NA	NA	NA	Pending	Pending	Pending				
184/Y13	11/22/2023	900	Moisture Condition, Soil/Dirt Compaction	11/30/2023	140	NA	NA	NA	Pending	Pending	Pending				
179/Y14	11/22/2023	4,600	Moisture Condition, Soil/Dirt Compaction	11/30/2023	380	NA	NA	NA	Pending	Pending	Pending				

Attachment D

Wellhead Temperature Data

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWA001	A-01	11/14/2023 8:54:47 AM	82.0	82.0
CHIWA002	A-02	11/14/2023 9:19:32 AM	73.7	73.7
CHIWA003	A-03	11/14/2023 9:10:07 AM	76.6	76.6
CHIWA004	A-04	11/14/2023 9:14:52 AM	90.7	90.7
CHIWA005	A-05	11/14/2023 9:29:21 AM	63.9	63.8
CHIWB001	B-01	11/28/2023 1:57:14 PM	78.5	78.5
CHIWB02R	B-02R	11/9/2023 2:52:09 PM	77.1	76.3
CHIWB02R	B-02R	11/9/2023 2:56:06 PM	77.1	77.1
CHIWB03R	B-03R	11/9/2023 3:13:25 PM	78.3	78.3
CHIWB03R	B-03R	11/14/2023 10:36:07 AM	82.6	82.6
CHIWB005	B-05	11/9/2023 3:48:44 PM	79.2	81.6
CHIWB006	B-06	11/17/2023 8:54:10 AM	70.5	70.6
CHIWB07R	B-07R	11/17/2023 9:30:11 AM	79.1	79.1
CHIWB008	B-08	11/17/2023 9:03:07 AM	89.4	89.5
CHIWB009	B-09	11/17/2023 9:21:44 AM	87.5	87.6
CHIWB010	B-10	11/17/2023 9:15:11 AM	76.2	76.4
CHIWB011	B-11	11/20/2023 8:26:13 AM	85.8	85.8
CHIWB012	B-12	11/9/2023 3:24:31 PM	83.9	87.2
CHIWB012	B-12	11/9/2023 3:31:59 PM	88.1	88.2
CHIWB013	B-13	11/17/2023 9:36:28 AM	84.8	84.9
CHIWB014	B-14	11/20/2023 8:21:41 AM	69.9	70.0
CHIWC001	C-01	11/14/2023 10:28:27 AM	86.5	86.8
CHIWC003	C-03	11/28/2023 1:32:24 PM	81.5	83.3
CHIWC007	C-07	11/28/2023 1:46:19 PM	82.0	82.1
CHIWC008	C-08	11/14/2023 9:42:40 AM	93.2	93.3
CHIWC009	C-09	11/28/2023 2:23:10 PM	72.3	72.3
CHIWC009	C-09	11/28/2023 2:23:15 PM	72.3	72.3
CHIWC009	C-09	11/28/2023 2:25:32 PM	72.3	72.3
CHIWC010	C-10	11/28/2023 2:10:14 PM	90.1	92.5
CHIWC011	C-11	11/14/2023 11:03:30 AM	100.5	100.5
CHIWC012	C-12	11/27/2023 9:21:15 AM	72.2	72.3
CHIWC012	C-12	11/27/2023 9:21:15 AM	72.2	72.3
CHIWC012	C-12	11/27/2023 4:21:41 PM	85.5	85.6
CHIWC013	C-13	11/27/2023 4:41:05 PM	80.0	81.2
CHIWC013	C-13	11/27/2023 4:44:01 PM	81.0	80.9
CHIWC015	C-15	11/27/2023 4:27:06 PM	92.8	93.1
CHIWC016	C-16	11/14/2023 1:28:16 PM	102.6	102.5
CHIWC17A	C-17A	11/14/2023 1:48:21 PM	101.2	101.4
CHIWC17B	C-17B	11/14/2023 1:52:44 PM	108.6	108.7
CHIWC018	C-18	11/14/2023 2:40:24 PM	90.5	90.4
CHIWC019	C-19	11/14/2023 2:06:00 PM	99.8	99.8
CHIWC020	C-20	11/14/2023 2:24:06 PM	89.4	89.6
CHIWC023	C-23	11/14/2023 2:36:21 PM	113.2	113.3
CHIWC024	C-24	11/14/2023 11:47:42 AM	121.0	121.0
CHIWC025	C-25	11/14/2023 1:36:22 PM	120.3	120.4

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWC026	C-26	11/14/2023 11:35:10 AM	102.9	103.1
CHIWC028	C-28	11/14/2023 11:12:51 AM	108.5	108.6
CHIWC029	C-29	11/30/2023 1:32:59 PM	116.5	116.6
CHIWC030	C-30	11/14/2023 10:54:16 AM	83.4	83.3
CH3OP075	CH3OP075	11/26/2023 1:55:01 PM	94.1	94.2
CHIOP075	CHIOP075	11/30/2023 2:11:21 PM	93.5	94.2
CHIWCV02	CV-02	11/14/2023 9:54:00 AM	113.7	113.7
CHIWCV02	CV-02	11/26/2023 12:32:17 PM	69.9	69.9
CHIWCV03	CV-03	11/14/2023 9:58:13 AM	119.1	119.1
CHIWCV04	CV-04	11/14/2023 10:02:52 AM	110.4	110.5
CHIWCV04	CV-04	11/19/2023 3:03:10 PM	0.0	0.0
CHIWCV04	CV-04	11/19/2023 3:09:13 PM	0.0	0.0
CHIWCV04	CV-04	11/19/2023 3:25:43 PM	0.0	0.0
CHIWCV04	CV-04	11/19/2023 3:59:15 PM	0.0	0.0
CHIWCV04	CV-04	11/26/2023 12:29:59 PM	71.8	71.7
CHIWCV05	CV-05	11/14/2023 10:07:38 AM	104.7	104.7
CHIWCV06	CV-06	11/2/2023 1:06:42 PM	97.9	98.0
CHIWCV07	CV-07	11/2/2023 1:11:22 PM	94.7	95.3
CHIWCV07	CV-07	11/2/2023 1:12:50 PM	92.9	93.0
CHIWCV08	CV-08	11/2/2023 1:17:41 PM	122.9	122.9
CHIWCV09	CV-09	11/2/2023 1:26:31 PM	123.7	123.8
CHWCV100	CV-100	11/1/2023 3:22:11 PM	113.2	113.0
CHWCV103	CV-103	11/1/2023 1:54:34 PM	103.5	103.5
CV108-52	CV-108-52	11/27/2023 10:45:38 AM	122.9	122.8
CHIWCV11	CV-11	11/1/2023 4:09:34 PM	93.1	93.3
CHWCV113	CV-113	11/20/2023 11:09:07 AM	128.2	128.2
CHWCV114	CV-114	11/20/2023 1:37:55 PM	119.9	119.5
CHCV1420	CV-1420	11/1/2023 9:16:44 AM	75.1	79.7
CHCV1420	CV-1420	11/1/2023 9:19:16 AM	87.5	87.4
CHCV1421	CV-1421	11/27/2023 3:30:17 PM	105.2	105.2
CHCV1422	CV-1422	11/29/2023 2:54:07 PM	86.9	88.8
CHCV1423	CV-1423	11/2/2023 5:52:47 PM	128.5	128.5
CHCV1424	CV-1424	11/2/2023 5:29:50 PM	115.8	115.8
CHCV1425	CV-1425	11/27/2023 2:21:11 PM	82.5	82.5
CHCV1426	CV-1426	11/2/2023 5:12:43 PM	101.1	101.1
CHCV1532	CV-1532	11/15/2023 3:32:40 PM	139.8	140.0
CCV1532A	CV-1532A	11/7/2023 5:02:26 PM	112.1	113.3
CCV1532A	CV-1532A	11/14/2023 9:49:37 AM	135.7	134.5
CCV1532A	CV-1532A	11/17/2023 5:18:24 PM	182.5	183.0
CCV1532A	CV-1532A	11/21/2023 11:59:22 AM	180.7	180.7
CCV1532A	CV-1532A	11/28/2023 3:30:38 PM	183.8	183.8
CCV1534A	CV-1534A	11/7/2023 4:40:23 PM	191.5	191.5
CCV1534A	CV-1534A	11/14/2023 10:01:29 AM	192.0	192.0
CCV1534A	CV-1534A	11/15/2023 3:47:28 PM	189.5	189.5
CCV1534A	CV-1534A	11/21/2023 11:53:17 AM	189.3	189.3

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CCV1534A	CV-1534A	11/28/2023 3:11:03 PM	189.8	189.8
CHCV1535	CV-1535	11/27/2023 10:41:25 AM	127.9	127.9
CCV1601D	CV-1601D	11/27/2023 4:43:56 PM	86.9	86.8
CCV1601S	CV-1601S	11/27/2023 4:41:58 PM	102.8	102.6
CHCV1603	CV-1603	11/1/2023 3:43:19 PM	112.4	112.4
CHCV1604	CV-1604	11/28/2023 11:23:25 AM	123.3	123.7
CHCV1605	CV-1605	11/29/2023 9:52:32 AM	79.6	79.4
CHCV1606	CV-1606	11/1/2023 3:50:06 PM	109.5	109.5
CHCV1607	CV-1607	11/27/2023 3:10:46 PM	121.7	121.7
CCV1701D	CV-1701D	11/28/2023 9:29:22 AM	74.0	74.0
CCV1701S	CV-1701S	11/28/2023 9:39:57 AM	143.0	140.0
CCV1701S	CV-1701S	11/28/2023 9:43:40 AM	140.1	140.0
CHCV1703	CV-1703	11/2/2023 3:32:48 PM	130.1	130.1
CHCV1901	CV-1901	11/27/2023 10:04:19 AM	115.2	115.1
CHCV1901	CV-1901	11/27/2023 3:00:34 PM	116.7	116.6
CCV1902A	CV-1902A	11/9/2023 2:24:52 PM	78.8	78.9
CCV1902D	CV-1902D	11/7/2023 3:14:02 PM	186.7	186.7
CCV1902D	CV-1902D	11/14/2023 11:24:21 AM	176.3	176.3
CCV1902D	CV-1902D	11/21/2023 10:36:26 AM	77.4	77.8
CCV1902D	CV-1902D	11/28/2023 11:00:49 AM	93.5	93.5
CCV1902S	CV-1902S	11/7/2023 3:24:16 PM	179.2	179.4
CCV1902S	CV-1902S	11/14/2023 11:31:30 AM	180.9	180.9
CCV1902S	CV-1902S	11/21/2023 10:44:03 AM	180.2	180.2
CCV1902S	CV-1902S	11/28/2023 11:06:23 AM	178.8	178.8
CHCV1903	CV-1903	11/1/2023 8:25:07 AM	116.6	116.1
CHCV1905	CV-1905	11/2/2023 4:47:07 PM	102.9	103.1
CHCV1906	CV-1906	11/2/2023 5:00:02 PM	84.6	84.6
CHCV1906	CV-1906	11/27/2023 2:44:25 PM	68.2	68.2
CHCV1907	CV-1907	11/20/2023 3:07:39 PM	80.8	82.3
CHCV2001	CV-2001	11/26/2023 9:36:00 AM	122.5	122.5
CHCV2001	CV-2001	11/26/2023 9:38:39 AM	122.4	123.2
CHCV2002	CV-2002	11/20/2023 2:54:07 PM	127.6	127.6
CHCV2003	CV-2003	11/7/2023 4:15:45 PM	143.7	143.7
CHCV2003	CV-2003	11/7/2023 4:17:00 PM	143.7	143.7
CHCV2003	CV-2003	11/14/2023 10:08:49 AM	176.1	176.1
CHCV2003	CV-2003	11/21/2023 11:36:08 AM	135.8	135.9
CHCV2003	CV-2003	11/28/2023 2:37:53 PM	146.9	146.7
CHCV2004	CV-2004	11/7/2023 5:27:17 PM	192.5	192.3
CHCV2004	CV-2004	11/14/2023 9:32:36 AM	194.1	194.1
CHCV2004	CV-2004	11/21/2023 12:10:08 PM	185.8	185.6
CHCV2004	CV-2004	11/28/2023 3:36:08 PM	187.0	187.4
CHCV2006	CV-2006	11/22/2023 2:49:46 PM	149.7	130.4
CHCV2006	CV-2006	11/22/2023 2:53:47 PM	123.4	123.4
CHCV2006	CV-2006	11/22/2023 2:59:09 PM	121.1	146.7
CHCV2006	CV-2006	11/22/2023 3:01:44 PM	147.4	147.3

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2006	CV-2006	11/28/2023 10:00:17 AM	145.0	145.2
CHCV2007	CV-2007	11/27/2023 11:26:29 AM	125.7	125.6
CHCV2007	CV-2007	11/27/2023 11:26:29 AM	125.7	125.6
CHCV2008	CV-2008	11/28/2023 1:39:19 PM	118.9	120.2
CHCV2009	CV-2009	11/20/2023 4:25:01 PM	125.1	125.1
CCV2009A	CV-2009A	11/20/2023 4:18:28 PM	117.7	117.7
CHCV2010	CV-2010	11/2/2023 1:56:50 PM	123.9	124.0
CCV2010A	CV-2010A	11/2/2023 2:00:58 PM	130.1	130.1
CHCV2011	CV-2011	11/2/2023 3:54:06 PM	122.9	122.9
CCV2011A	CV-2011A	11/2/2023 3:46:35 PM	144.2	144.0
CCV2011A	CV-2011A	11/2/2023 3:48:25 PM	144.2	144.2
CHCV2012	CV-2012	11/2/2023 1:46:13 PM	134.3	133.9
CHCV2012	CV-2012	11/2/2023 1:49:02 PM	133.8	133.9
CHCV2201	CV-2201	11/1/2023 12:00:53 PM	194.3	194.3
CHCV2201	CV-2201	11/7/2023 8:12:50 AM	193.8	194.1
CHCV2201	CV-2201	11/14/2023 4:20:01 PM	195.1	195.4
CHCV2201	CV-2201	11/21/2023 3:40:37 PM	193.0	192.8
CHCV2201	CV-2201	11/29/2023 10:02:37 AM	198.1	198.1
CHCV2202	CV-2202	11/1/2023 4:24:15 PM	191.0	191.0
CHCV2202	CV-2202	11/7/2023 9:21:06 AM	190.8	190.8
CHCV2202	CV-2202	11/15/2023 4:14:49 PM	187.2	187.2
CHCV2202	CV-2202	11/21/2023 3:00:57 PM	190.3	190.3
CHCV2202	CV-2202	11/28/2023 4:47:38 PM	188.6	188.6
CHCV2203	CV-2203	11/1/2023 4:06:02 PM	157.2	157.2
CHCV2203	CV-2203	11/7/2023 8:49:01 AM	159.1	159.1
CHCV2203	CV-2203	11/16/2023 9:51:16 AM	157.2	157.2
CHCV2203	CV-2203	11/21/2023 3:15:40 PM	157.7	157.7
CHCV2203	CV-2203	11/29/2023 10:34:02 AM	158.3	158.3
CHCV2204	CV-2204	11/7/2023 9:57:40 AM	182.8	182.8
CHCV2204	CV-2204	11/14/2023 3:30:49 PM	171.0	177.8
CHCV2204	CV-2204	11/21/2023 5:12:40 PM	177.6	176.5
CHCV2204	CV-2204	11/29/2023 8:29:04 AM	183.0	183.0
CHCV2205	CV-2205	11/2/2023 2:35:55 PM	122.4	124.0
CHCV2206	CV-2206	11/7/2023 11:07:04 AM	184.5	184.5
CHCV2206	CV-2206	11/15/2023 3:01:38 PM	184.9	184.9
CHCV2206	CV-2206	11/21/2023 4:17:11 PM	187.0	187.0
CHCV2206	CV-2206	11/29/2023 9:25:44 AM	186.3	186.3
CHCV2207	CV-2207	11/2/2023 5:47:03 PM	119.7	119.7
CHCV2207	CV-2207	11/20/2023 2:48:30 PM	119.0	119.0
CCV2208A	CV-2208A	11/29/2023 2:33:56 PM	129.6	129.5
CHCV2301	CV-2301	11/1/2023 4:46:16 PM	131.8	131.8
CHCV2301	CV-2301	11/1/2023 4:50:18 PM	131.9	131.5
CHCV2302	CV-2302	11/1/2023 4:54:08 PM	134.8	134.8
CHCV2303	CV-2303	11/15/2023 2:21:25 PM	105.7	105.8
CHCV2303	CV-2303	11/17/2023 6:11:06 PM	102.5	102.5

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2304	CV-2304	11/1/2023 4:14:55 PM	154.7	154.7
CHCV2304	CV-2304	11/7/2023 9:06:48 AM	156.3	156.3
CHCV2304	CV-2304	11/15/2023 4:04:00 PM	154.7	155.1
CHCV2304	CV-2304	11/21/2023 2:49:19 PM	152.7	152.5
CHCV2304	CV-2304	11/28/2023 4:29:51 PM	155.5	155.7
CHCV2305	CV-2305	11/29/2023 3:32:50 PM	122.9	122.8
CHCV2306	CV-2306	11/7/2023 10:11:13 AM	168.0	168.0
CHCV2306	CV-2306	11/15/2023 2:30:49 PM	163.2	163.2
CHCV2306	CV-2306	11/21/2023 4:52:35 PM	162.2	162.2
CHCV2306	CV-2306	11/29/2023 9:16:10 AM	162.9	162.9
CHCV2308	CV-2308	11/1/2023 11:38:31 AM	176.3	176.1
CHCV2308	CV-2308	11/7/2023 11:29:01 AM	178.8	179.2
CHCV2308	CV-2308	11/14/2023 4:36:55 PM	180.4	180.9
CHCV2308	CV-2308	11/21/2023 3:50:54 PM	160.2	160.4
CHCV2308	CV-2308	11/29/2023 9:51:35 AM	167.3	167.3
CHCV2310	CV-2310	11/1/2023 12:27:34 PM	180.0	180.2
CHCV2310	CV-2310	11/7/2023 8:32:03 AM	181.9	181.9
CHCV2310	CV-2310	11/16/2023 9:31:47 AM	184.3	184.3
CHCV2310	CV-2310	11/21/2023 3:32:45 PM	184.3	184.3
CHCV2311	CV-2311	11/30/2023 8:41:44 AM	61.5	61.5
CHCV2312	CV-2312	11/1/2023 4:24:09 PM	139.5	139.5
CHCV2314	CV-2314	11/27/2023 2:28:55 PM	119.1	119.1
CHCV2314	CV-2314	11/27/2023 2:28:55 PM	119.1	119.1
CHCV2315	CV-2315	11/1/2023 5:07:00 PM	118.5	118.6
CHCV2316	CV-2316	11/29/2023 3:45:54 PM	130.1	130.1
CHCV2319	CV-2319	11/28/2023 11:55:23 AM	128.2	128.4
CHCV2321	CV-2321	11/2/2023 5:19:28 PM	118.4	118.3
CHCV2322	CV-2322	11/1/2023 4:54:19 PM	176.3	176.3
CHCV2322	CV-2322	11/7/2023 9:40:34 AM	180.7	180.7
CHCV2322	CV-2322	11/15/2023 3:39:17 PM	175.2	175.9
CHCV2322	CV-2322	11/29/2023 11:10:47 AM	181.3	181.5
CHCV2324	CV-2324	11/2/2023 4:06:43 PM	116.6	116.5
CHCV2326	CV-2326	11/30/2023 8:28:46 AM	47.7	47.7
CHCV2327	CV-2327	11/1/2023 9:41:25 AM	152.5	152.9
CHCV2327	CV-2327	11/7/2023 9:32:02 AM	151.4	151.2
CHCV2327	CV-2327	11/15/2023 3:46:58 PM	149.3	149.6
CHCV2327	CV-2327	11/29/2023 11:04:39 AM	150.4	150.4
CHCV2328	CV-2328	11/1/2023 10:05:40 AM	125.4	126.0
CHCV2333	CV-2333	11/20/2023 11:30:19 AM	127.9	127.9
CHCV2333	CV-2333	11/22/2023 3:29:49 PM	131.2	130.6
CHCV2333	CV-2333	11/22/2023 3:31:27 PM	129.9	129.9
CHCV2333	CV-2333	11/22/2023 3:34:05 PM	129.9	131.3
CHCV2333	CV-2333	11/22/2023 3:36:04 PM	131.5	131.4
CHCV2334	CV-2334	11/20/2023 11:14:54 AM	130.3	130.4
CHCV2335	CV-2335	11/27/2023 2:40:18 PM	99.1	99.2

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2336	CV-2336	11/27/2023 2:52:38 PM	115.9	115.9
CHCV2337	CV-2337	11/28/2023 3:19:31 PM	131.5	131.8
CHCV2337	CV-2337	11/28/2023 3:24:27 PM	132.3	132.4
CHCV2338	CV-2338	11/7/2023 2:30:09 PM	186.5	186.5
CHCV2338	CV-2338	11/14/2023 11:53:15 AM	190.5	190.5
CHCV2338	CV-2338	11/21/2023 10:00:23 AM	178.2	178.4
CHCV2338	CV-2338	11/28/2023 10:28:46 AM	183.4	183.4
CHCV2339	CV-2339	11/7/2023 3:40:02 PM	195.9	195.9
CHCV2339	CV-2339	11/14/2023 11:10:37 AM	198.9	198.9
CHCV2339	CV-2339	11/15/2023 3:11:57 PM	193.5	193.8
CHCV2339	CV-2339	11/17/2023 4:48:12 PM	192.8	195.1
CHCV2339	CV-2339	11/21/2023 10:57:26 AM	193.0	193.0
CHCV2339	CV-2339	11/28/2023 11:18:39 AM	194.3	194.1
CHCV2340	CV-2340	11/30/2023 9:11:05 AM	67.4	67.6
CHCV2341	CV-2341	11/8/2023 4:27:55 PM	141.7	140.6
CHCV2341	CV-2341	11/8/2023 4:32:59 PM	142.6	143.2
CHCV2341	CV-2341	11/16/2023 10:07:37 AM	143.3	143.8
CHCV2341	CV-2341	11/22/2023 3:45:24 PM	127.3	127.3
CCV2342A	CV-2342A	11/8/2023 3:39:32 PM	194.8	195.4
CCV2342A	CV-2342A	11/14/2023 9:16:14 AM	197.3	197.3
CCV2342A	CV-2342A	11/21/2023 2:04:40 PM	190.5	190.5
CCV2342A	CV-2342A	11/28/2023 3:58:22 PM	193.8	193.5
CHCV2343	CV-2343	11/27/2023 10:49:31 AM	97.3	97.5
CHCV2344	CV-2344	11/27/2023 10:59:10 AM	110.3	110.4
CHCV2346	CV-2346	11/27/2023 11:10:53 AM	77.2	84.2
CHCV2346	CV-2346	11/27/2023 11:12:59 AM	111.5	112.3
CHCV2347	CV-2347	11/27/2023 11:17:00 AM	100.3	100.5
CHCV2348	CV-2348	11/27/2023 11:26:50 AM	119.6	120.0
CHCV2349	CV-2349	11/27/2023 10:11:37 AM	117.9	118.0
CHCV2350	CV-2350	11/27/2023 10:22:18 AM	91.9	91.9
CHCV2351	CV-2351	11/30/2023 9:50:48 AM	112.3	111.8
CHCV2351	CV-2351	11/30/2023 11:10:02 AM	116.5	116.7
CHCV2352	CV-2352	11/30/2023 9:26:19 AM	131.1	131.0
CHCV2352	CV-2352	11/30/2023 9:29:25 AM	131.5	131.7
CHCV2353	CV-2353	11/8/2023 3:59:31 PM	195.6	195.9
CHCV2353	CV-2353	11/14/2023 8:52:00 AM	197.3	197.0
CHCV2353	CV-2353	11/21/2023 2:24:55 PM	194.6	194.6
CHCV2353	CV-2353	11/22/2023 3:54:24 PM	191.8	192.0
CHCV2353	CV-2353	11/28/2023 4:14:31 PM	195.4	195.4
CHCV2354	CV-2354	11/17/2023 2:39:18 PM	78.4	78.7
CHCV2354	CV-2354	11/17/2023 5:03:26 PM	68.8	68.9
CHIWCV25	CV-25	11/20/2023 9:25:47 AM	68.7	69.5
CHICV30S	CV-30S	11/20/2023 9:59:20 AM	123.4	123.4
CHICV33S	CV-33S	11/1/2023 4:17:33 PM	123.4	123.4
CHICV34D	CV-34D	11/28/2023 8:19:13 AM	60.6	60.6

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHICV34D	CV-34D	11/28/2023 8:21:34 AM	61.3	61.3
CHICV34S	CV-34S	11/28/2023 8:26:37 AM	63.5	63.6
CHICV35D	CV-35D	11/1/2023 4:26:36 PM	88.5	88.5
CHWCV48R	CV-48R	11/20/2023 10:52:19 AM	124.7	124.7
CHWCV49S	CV-49S	11/26/2023 2:32:04 PM	99.0	100.1
CHWCV52D	CV-52D	11/27/2023 3:09:35 PM	136.3	136.3
CHWCV53D	CV-53D	11/27/2023 2:48:51 PM	116.2	116.4
CHWCV53S	CV-53S	11/27/2023 2:54:08 PM	132.2	130.5
CHWCV53S	CV-53S	11/27/2023 2:56:30 PM	130.4	130.4
CHWCV54D	CV-54D	11/27/2023 3:35:40 PM	72.0	73.5
CHWCV54S	CV-54S	11/27/2023 3:23:43 PM	120.7	141.5
CHWCV54S	CV-54S	11/27/2023 3:26:06 PM	141.6	141.5
CHWCV55R	CV-55R	11/28/2023 10:26:48 AM	144.7	144.7
CHWCV56D	CV-56D	11/28/2023 9:49:55 AM	123.4	124.4
CHWCV56S	CV-56S	11/28/2023 10:02:31 AM	125.0	125.0
CHWCV57R	CV-57R	11/2/2023 3:56:32 PM	109.8	109.9
CHWCV74R	CV-74R	11/1/2023 10:09:35 AM	110.9	110.9
CHWCV79R	CV-79R	11/2/2023 3:01:30 PM	128.9	128.9
CHWCV84S	CV-84S	11/2/2023 4:22:35 PM	103.6	103.6
CHWCV85S	CV-85S	11/2/2023 4:43:08 PM	103.7	103.7
CHIWCV94	CV-94	11/2/2023 2:17:35 PM	108.9	109.1
CHIWCV95	CV-95	11/2/2023 3:59:18 PM	112.8	112.9
CHIWCV99	CV-99	11/20/2023 11:02:36 AM	108.6	109.1
CHIWD001	D-01	11/27/2023 4:28:53 PM	71.1	70.5
CHIWD002	D-02	11/27/2023 4:26:24 PM	81.8	81.8
CHIWD003	D-03	11/27/2023 4:23:57 PM	91.8	91.9
CHIWD003	D-03	11/27/2023 4:23:57 PM	91.8	91.9
CHIWD004	D-04	11/27/2023 4:19:59 PM	97.7	97.2
CHIWD004	D-04	11/27/2023 4:19:59 PM	97.7	97.2
CHIWD005	D-05	11/27/2023 4:16:43 PM	74.4	74.4
CHIWD005	D-05	11/27/2023 4:16:43 PM	74.4	74.4
CHIWD006	D-06	11/26/2023 8:55:11 AM	96.7	96.7
CHIWD009	D-09	11/1/2023 2:42:58 PM	113.2	113.2
CHIWD010	D-10	11/1/2023 2:22:19 PM	96.9	97.1
CHIWH001	H-01 (EXP-01)	11/14/2023 4:05:39 PM	71.5	71.3
CHIWH002	H-02 (EXP-02)	11/14/2023 3:51:51 PM	91.0	91.1
CHIWH003	H-03 (EXP-03)	11/14/2023 3:54:07 PM	116.1	116.2
CHIWH004	H-04 (EXP-04)	11/14/2023 3:58:27 PM	90.0	87.8
CHIWH006	H-06 (EXP-06)	11/14/2023 4:15:10 PM	82.3	82.5
CHIWH008	H-08 (EXP-08)	11/14/2023 4:21:28 PM	69.5	69.3
CHIWH008	H-08 (EXP-08)	11/14/2023 4:23:17 PM	67.6	67.6
CHIWH009	H-09 (EXP-09)	11/14/2023 4:26:58 PM	116.9	116.9
CHIWH010	H-10 (EXP-10)	11/14/2023 4:36:04 PM	118.1	118.2
CHIH101W	H-101W	11/17/2023 4:21:39 PM	68.5	74.3
CHIH101W	H-101W	11/17/2023 4:24:33 PM	72.0	72.0

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHWH102A	H-102A	11/17/2023 4:38:04 PM	86.7	86.8
CHWH104A	H-104A	11/17/2023 4:35:29 PM	85.9	85.9
CHIWH012	H-12 (EXP-12)	11/30/2023 9:37:11 AM	107.2	107.2
CHIWH013	H-13 (EXP-13)	11/30/2023 9:30:21 AM	69.9	70.1
CHIWH013	H-13 (EXP-13)	11/30/2023 9:30:21 AM	69.9	70.1
CHIWH014	H-14 (EXP-14)	11/30/2023 10:21:25 AM	91.6	91.6
CHH1401W	H-1401W	11/17/2023 4:41:56 PM	96.9	96.9
CHH1402C	H-1402C	11/28/2023 11:45:00 AM	120.2	120.3
CHH1403W	H-1403W	11/26/2023 1:12:23 PM	92.4	92.4
CHH1404C	H-1404C	11/1/2023 4:05:50 PM	114.9	114.9
CHH1405C	H-1405C	11/27/2023 11:36:50 AM	109.9	109.9
CHH1405E	H-1405E	11/1/2023 3:12:38 PM	111.2	111.1
CHH1406W	H-1406W	11/20/2023 2:00:31 PM	80.0	79.5
CHH1406W	H-1406W	11/20/2023 2:04:11 PM	79.8	79.8
CHH1406W	H-1406W	11/26/2023 9:42:20 AM	71.5	71.3
CH1408CR	H-1408CR	11/28/2023 11:38:28 AM	102.7	102.7
CHH1408E	H-1408E	11/1/2023 10:59:51 AM	104.9	104.9
CHH1408W	H-1408W	11/17/2023 5:01:34 PM	111.1	110.7
CHH1408W	H-1408W	11/17/2023 5:04:46 PM	109.9	110.0
CHH1408W	H-1408W	11/29/2023 10:45:11 AM	110.5	110.6
CHH1409N	H-1409N	11/1/2023 10:48:08 AM	85.1	85.7
CHH1409N	H-1409N	11/1/2023 10:53:37 AM	86.2	85.8
CHH1410S	H-1410S	11/1/2023 3:28:54 PM	104.1	104.2
CHH1551C	H-1551C	11/27/2023 2:08:57 PM	121.0	121.0
CHH1560S	H-1560S	11/7/2023 2:59:20 PM	67.8	67.6
CHH1560S	H-1560S	11/20/2023 2:16:31 PM	77.4	77.4
CHH1561C	H-1561C	11/27/2023 2:14:15 PM	118.2	118.5
CHH1561N	H-1561N	11/30/2023 2:09:11 PM	191.5	191.3
CHH1561N	H-1561N	11/30/2023 2:09:57 PM	191.0	191.0
CHH1562N	H-1562N	11/28/2023 2:30:17 PM	122.2	122.2
CHH1563N	H-1563N	11/1/2023 3:38:10 PM	110.4	110.3
CHH1563N	H-1563N	11/2/2023 4:49:56 PM	119.0	119.0
CHH1563S	H-1563S	11/27/2023 11:33:30 AM	115.5	115.5
CHH1564N	H-1564N	11/1/2023 3:15:20 PM	106.2	104.7
CHH1565C	H-1565C	11/1/2023 1:51:33 PM	113.0	113.0
CHH1565E	H-1565E	11/1/2023 11:30:55 AM	97.9	97.9
CHH1568N	H-1568N	11/1/2023 11:09:42 AM	90.4	91.0
CHH1568S	H-1568S	11/28/2023 10:14:05 AM	94.3	94.4
CHH1569S	H-1569S	11/28/2023 11:00:49 AM	82.1	82.1
CHH1571S	H-1571S	11/28/2023 11:10:06 AM	121.3	121.5
CHH1572N	H-1572N	11/2/2023 2:45:11 PM	123.9	123.9
CHH1572S	H-1572S	11/29/2023 12:05:55 PM	116.6	117.1
CHH1572S	H-1572S	11/29/2023 12:05:55 PM	116.6	117.1
CHH1573S	H-1573S	11/1/2023 3:56:07 PM	126.0	126.2
CHH1574N	H-1574N	11/27/2023 10:01:54 AM	118.8	119.4

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIH1575	H-1575	11/17/2023 4:45:04 PM	74.4	74.6
CHH1751N	H-1751N	11/7/2023 2:46:49 PM	171.2	171.0
CHH1751N	H-1751N	11/14/2023 11:46:01 AM	172.8	172.8
CHH1751N	H-1751N	11/21/2023 10:12:26 AM	169.3	169.3
CHH1751N	H-1751N	11/28/2023 10:38:10 AM	170.7	170.7
CHH1751S	H-1751S	11/27/2023 2:18:20 PM	108.5	108.7
CHH1752N	H-1752N	11/27/2023 11:06:12 AM	102.6	102.6
CHH1752S	H-1752S	11/30/2023 8:46:10 AM	62.5	63.8
CHH1753N	H-1753N	11/27/2023 11:10:31 AM	107.9	107.9
CHH1753N	H-1753N	11/27/2023 11:10:31 AM	107.9	107.9
CHH1753S	H-1753S	11/1/2023 3:27:10 PM	118.0	118.0
CHH1754N	H-1754N	11/30/2023 10:56:45 AM	119.1	119.1
CHH1754S	H-1754S	11/1/2023 2:27:19 PM	85.1	86.5
CHH1755S	H-1755S	11/14/2023 11:39:54 AM	106.4	106.6
CHH1756N	H-1756N	11/28/2023 2:36:18 PM	106.0	106.5
CHH1756S	H-1756S	11/27/2023 11:08:10 AM	116.4	116.3
CHH1757N	H-1757N	11/7/2023 3:47:35 PM	153.0	152.8
CHH1757N	H-1757N	11/14/2023 10:51:45 AM	153.6	153.7
CHH1757N	H-1757N	11/21/2023 11:07:44 AM	152.3	151.8
CHH1757N	H-1757N	11/28/2023 11:27:38 AM	150.9	151.0
CHH1757S	H-1757S	11/27/2023 11:41:50 AM	113.6	113.6
CH1758NR	H-1758NR	11/1/2023 3:32:03 PM	116.3	116.3
CHH1759S	H-1759S	11/1/2023 3:46:46 PM	114.7	115.3
CHH1760N	H-1760N	11/1/2023 1:58:37 PM	88.3	88.4
CHH1760S	H-1760S	11/1/2023 4:02:31 PM	112.4	112.2
CHH1762N	H-1762N	11/1/2023 10:35:50 AM	80.0	79.7
CHH1762N	H-1762N	11/20/2023 3:57:50 PM	72.5	72.6
CHH1763N	H-1763N	11/30/2023 11:34:04 AM	117.5	117.5
CHH1763S	H-1763S	11/21/2023 1:46:45 PM	126.2	126.7
CHH1764N	H-1764N	11/20/2023 3:36:49 PM	99.1	99.1
CHH1764S	H-1764S	11/28/2023 10:58:01 AM	103.4	103.5
CHH1766S	H-1766S	11/30/2023 2:32:27 PM	77.6	77.6
CHH1766S	H-1766S	11/30/2023 2:33:08 PM	78.1	78.1
CHH1767N	H-1767N	11/1/2023 4:01:07 PM	119.2	119.2
CHH1767S	H-1767S	11/1/2023 3:46:40 PM	90.4	90.4
CHH1768N	H-1768N	11/26/2023 10:31:31 AM	66.1	66.3
CHH1769A	H-1769A	11/28/2023 9:12:31 AM	138.1	138.3
CHH1769A	H-1769A	11/28/2023 9:16:01 AM	138.2	138.2
CHH1769B	H-1769B	11/27/2023 10:57:25 AM	103.7	103.6
CHH1769N	H-1769N	11/1/2023 8:44:49 AM	115.9	115.6
CHH1769S	H-1769S	11/1/2023 3:43:03 PM	102.0	102.0
CHH1770A	H-1770A	11/1/2023 8:15:37 AM	128.0	127.9
CHH1770B	H-1770B	11/7/2023 2:51:37 PM	164.8	164.6
CHH1770B	H-1770B	11/14/2023 11:40:48 AM	165.9	165.9
CHH1770B	H-1770B	11/21/2023 10:22:07 AM	163.8	163.8

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1770B	H-1770B	11/28/2023 10:42:45 AM	165.2	165.2
CHH1770N	H-1770N	11/1/2023 8:35:48 AM	150.8	150.5
CHH1770N	H-1770N	11/7/2023 2:05:37 PM	150.1	150.5
CHH1770N	H-1770N	11/14/2023 2:26:29 PM	152.0	152.0
CHH1770N	H-1770N	11/21/2023 9:44:30 AM	141.9	142.2
CHH1770N	H-1770N	11/28/2023 9:31:37 AM	139.9	139.9
CHH1770S	H-1770S	11/27/2023 10:37:43 AM	115.3	113.7
CHH1771A	H-1771A	11/2/2023 6:00:16 PM	115.1	115.2
CHH1771B	H-1771B	11/27/2023 11:57:06 AM	84.7	84.9
CHH1771B	H-1771B	11/27/2023 12:01:45 PM	83.5	84.5
CHH1771N	H-1771N	11/2/2023 5:07:34 PM	98.2	98.2
CHH1771S	H-1771S	11/2/2023 4:53:33 PM	105.6	105.6
CHH1771S	H-1771S	11/20/2023 3:52:14 PM	100.8	101.0
CHH1772A	H-1772A	11/20/2023 11:22:59 AM	102.0	102.0
CHH1772B	H-1772B	11/1/2023 9:22:37 AM	109.9	109.8
CHH1772C	H-1772C	11/1/2023 9:53:49 AM	82.2	82.4
CHH1772N	H-1772N	11/27/2023 2:17:18 PM	67.4	67.4
CHH1772N	H-1772N	11/27/2023 2:17:18 PM	67.4	67.4
CHH1772S	H-1772S	11/1/2023 3:52:13 PM	113.8	113.7
CHH1773A	H-1773A	11/7/2023 11:57:41 AM	181.1	181.1
CHH1773A	H-1773A	11/14/2023 1:50:42 PM	183.0	183.0
CHH1773A	H-1773A	11/21/2023 9:04:40 AM	176.5	176.5
CHH1773A	H-1773A	11/28/2023 8:53:48 AM	179.8	179.8
CHH1773B	H-1773B	11/1/2023 9:09:32 AM	90.3	90.3
CHH1773C	H-1773C	11/1/2023 9:59:43 AM	111.4	111.7
CHH1773N	H-1773N	11/1/2023 9:36:29 AM	126.8	126.6
CHH1774A	H-1774A	11/7/2023 2:19:24 PM	156.6	156.5
CHH1774A	H-1774A	11/14/2023 2:37:18 PM	151.9	152.0
CHH1774A	H-1774A	11/21/2023 9:50:44 AM	152.9	152.9
CHH1774A	H-1774A	11/28/2023 9:46:34 AM	152.9	152.8
CHH1774N	H-1774N	11/27/2023 10:13:30 AM	110.6	110.7
CHH1774N	H-1774N	11/27/2023 10:13:30 AM	110.6	110.7
CHH1774N	H-1774N	11/27/2023 2:31:27 PM	111.1	111.1
CHH1774S	H-1774S	11/27/2023 10:55:30 AM	117.0	111.3
CHH1801S	H-1801S	11/28/2023 10:20:59 AM	130.2	130.3
CHH1802N	H-1802N	11/2/2023 5:24:09 PM	108.5	108.5
CHH1802S	H-1802S	11/2/2023 2:57:22 PM	130.7	130.6
CHH1803N	H-1803N	11/7/2023 12:15:17 PM	174.2	174.0
CHH1803N	H-1803N	11/14/2023 2:08:57 PM	175.9	176.3
CHH1803N	H-1803N	11/20/2023 2:00:05 PM	153.8	153.6
CHH1803N	H-1803N	11/20/2023 2:04:18 PM	153.2	149.3
CHH1803N	H-1803N	11/21/2023 9:21:18 AM	170.7	170.7
CHH1803N	H-1803N	11/28/2023 9:14:07 AM	173.5	173.7
CHH1804A	H-1804A	11/29/2023 3:05:08 PM	112.8	112.8
CHH1804B	H-1804B	11/2/2023 4:15:38 PM	100.1	100.1

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1804N	H-1804N	11/2/2023 6:14:17 PM	118.1	118.0
CHH1804S	H-1804S	11/20/2023 3:40:14 PM	103.6	103.6
CHH1805A	H-1805A	11/2/2023 5:27:51 PM	122.6	122.6
CHH1805B	H-1805B	11/20/2023 3:19:51 PM	106.3	106.4
CHH1805S	H-1805S	11/2/2023 3:07:59 PM	130.7	130.8
CHH1806A	H-1806A	11/2/2023 5:41:20 PM	115.7	115.8
CHH1806B	H-1806B	11/2/2023 2:42:37 PM	111.7	111.7
CHH1806N	H-1806N	11/20/2023 4:38:07 PM	120.7	120.7
CHH1806S	H-1806S	11/2/2023 3:29:00 PM	115.6	115.6
CHH1806S	H-1806S	11/21/2023 3:08:08 PM	109.8	113.9
CHH1806S	H-1806S	11/21/2023 3:08:13 PM	109.8	113.9
CHH1807A	H-1807A	11/2/2023 2:14:52 PM	114.8	115.0
CHH1807N	H-1807N	11/20/2023 4:52:00 PM	123.6	123.9
CHH1807S	H-1807S	11/2/2023 3:37:44 PM	98.7	98.4
CHH1951W	H-1951W	11/2/2023 1:36:51 PM	111.4	112.6
CHH1952C	H-1952C	11/1/2023 9:30:46 AM	116.1	116.1
CHH1952N	H-1952N	11/20/2023 11:40:56 AM	114.4	113.4
CHH1952S	H-1952S	11/1/2023 2:16:32 PM	116.2	116.4
CHH1952S	H-1952S	11/20/2023 2:50:48 PM	106.2	106.3
CHH1953C	H-1953C	11/27/2023 2:09:01 PM	70.6	70.7
CHH1953N	H-1953N	11/28/2023 1:18:33 PM	115.7	115.8
CHH1953S	H-1953S	11/1/2023 10:28:15 AM	104.1	104.1
CHH1954C	H-1954C	11/27/2023 3:36:23 PM	111.7	111.7
CHH1954N	H-1954N	11/28/2023 1:30:47 PM	98.4	98.4
CHH1954S	H-1954S	11/2/2023 4:30:50 PM	91.1	91.1
CHH1955C	H-1955C	11/2/2023 5:33:18 PM	109.6	109.6
CHH1955N	H-1955N	11/2/2023 6:05:12 PM	80.7	80.7
CHH1955S	H-1955S	11/2/2023 4:19:12 PM	108.3	108.3
CHH1955S	H-1955S	11/20/2023 3:30:23 PM	104.3	104.4
CHH1956B	H-1956B	11/20/2023 2:58:01 PM	86.9	87.9
CHH1956N	H-1956N	11/20/2023 4:31:43 PM	101.4	101.4
CHH1956S	H-1956S	11/2/2023 3:04:14 PM	117.2	117.3
CHH1957A	H-1957A	11/2/2023 2:10:14 PM	100.5	100.9
CHH1957B	H-1957B	11/2/2023 2:29:30 PM	107.8	107.8
CHH1957N	H-1957N	11/20/2023 4:43:05 PM	111.7	111.8
CHH1957S	H-1957S	11/28/2023 10:09:33 AM	100.3	100.7
CHH1958C	H-1958C	11/2/2023 1:51:36 PM	122.4	122.4
CHH1958N	H-1958N	11/20/2023 4:56:56 PM	117.4	115.1
CHH1958S	H-1958S	11/2/2023 3:43:41 PM	119.8	119.8
CHH1962A	H-1962A	11/1/2023 8:21:33 AM	69.0	69.0
CHH1962B	H-1962B	11/7/2023 2:40:00 PM	173.3	173.3
CHH1962B	H-1962B	11/14/2023 2:49:16 PM	179.2	179.2
CHH1962B	H-1962B	11/21/2023 10:08:27 AM	163.1	163.1
CHH1962B	H-1962B	11/28/2023 10:35:01 AM	165.5	165.5
CHH1962N	H-1962N	11/1/2023 8:31:35 AM	156.6	157.2

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1962N	H-1962N	11/7/2023 2:37:26 PM	165.5	165.9
CHH1962N	H-1962N	11/8/2023 4:46:41 PM	165.1	165.1
CHH1962N	H-1962N	11/16/2023 10:31:13 AM	170.1	170.0
CHH1962N	H-1962N	11/28/2023 9:35:01 AM	171.9	171.9
CHH1962S	H-1962S	11/7/2023 3:57:54 PM	175.7	175.7
CHH1962S	H-1962S	11/14/2023 10:42:30 AM	183.4	183.4
CHH1962S	H-1962S	11/21/2023 11:20:38 AM	166.0	166.0
CHH1962S	H-1962S	11/28/2023 11:34:57 AM	173.7	173.9
CHH1963A	H-1963A	11/30/2023 8:49:56 AM	122.4	122.4
CHH1963N	H-1963N	11/1/2023 8:41:14 AM	121.7	121.4
CHH1964C	H-1964C	11/17/2023 2:05:39 PM	77.6	77.7
CHH1964N	H-1964N	11/1/2023 8:50:01 AM	146.6	146.6
CHH1964N	H-1964N	11/1/2023 4:42:32 PM	149.5	149.5
CHH1964N	H-1964N	11/7/2023 11:17:48 AM	151.2	151.2
CHH1964N	H-1964N	11/15/2023 3:24:22 PM	154.2	154.2
CHH1964N	H-1964N	11/29/2023 9:48:38 AM	151.0	151.0
CHH1964S	H-1964S	11/1/2023 3:09:53 PM	104.9	104.9
CHH1965C	H-1965C	11/29/2023 4:54:26 PM	122.8	121.1
CHH1965S	H-1965S	11/1/2023 2:05:58 PM	87.3	86.7
CHH1965S	H-1965S	11/1/2023 2:10:04 PM	88.0	88.0
CHH1966N	H-1966N	11/27/2023 10:18:31 AM	105.2	105.4
CHH1966N	H-1966N	11/27/2023 2:36:37 PM	104.1	101.8
CHH1966S	H-1966S	11/27/2023 3:06:26 PM	113.2	110.9
CHH1967E	H-1967E	11/1/2023 2:38:17 PM	95.0	95.0
CHH1967W	H-1967W	11/21/2023 11:17:40 AM	98.4	98.6
CHH2051W	H-2051W	11/21/2023 11:13:46 AM	106.9	106.7
CHH2052W	H-2052W	11/21/2023 11:31:48 AM	99.3	100.8
CHH2053E	H-2053E	11/1/2023 2:25:09 PM	119.6	119.5
CHH2053W	H-2053W	11/17/2023 4:27:48 PM	104.9	104.9
CHH2054W	H-2054W	11/26/2023 9:15:12 AM	106.6	106.6
CHH2055E	H-2055E	11/28/2023 11:11:14 AM	107.8	109.4
CHH2056E	H-2056E	11/29/2023 8:12:23 AM	89.9	91.1
CHH2056W	H-2056W	11/21/2023 11:08:43 AM	107.3	107.6
CHH2057E	H-2057E	11/1/2023 2:27:39 PM	122.8	122.8
CHH2057W	H-2057W	11/26/2023 1:01:41 PM	119.0	119.0
CHH2058A	H-2058A	11/1/2023 2:53:26 PM	112.8	112.8
CHH2058B	H-2058B	11/1/2023 3:10:43 PM	106.1	106.2
CHH2058E	H-2058E	11/1/2023 2:46:53 PM	108.2	108.1
CHH2058W	H-2058W	11/21/2023 11:05:02 AM	104.0	104.2
CHH2059W	H-2059W	11/17/2023 4:45:32 PM	117.1	117.0
CHH2059W	H-2059W	11/29/2023 10:51:58 AM	115.3	115.3
CHH2059W	H-2059W	11/29/2023 10:51:58 AM	115.3	115.3
CHH2160B	H-2160B	11/1/2023 3:05:41 PM	120.1	120.1
CHH2160E	H-2160E	11/1/2023 3:21:29 PM	115.8	115.8
CHH2161W	H-2161W	11/17/2023 4:50:31 PM	117.1	117.1

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2161W	H-2161W	11/29/2023 11:16:30 AM	109.5	110.8
CHH2161W	H-2161W	11/29/2023 11:16:30 AM	109.5	110.8
CHH2162B	H-2162B	11/28/2023 11:33:27 AM	109.1	109.4
CHH2162W	H-2162W	11/17/2023 4:52:40 PM	117.3	117.3
CHH2163C	H-2163C	11/29/2023 9:36:11 AM	106.6	106.8
CHH2163E	H-2163E	11/1/2023 3:32:25 PM	107.8	107.8
CHH2163W	H-2163W	11/26/2023 9:06:26 AM	108.7	108.8
CHH2164A	H-2164A	11/21/2023 1:21:32 PM	112.8	112.8
CHH2164B	H-2164B	11/28/2023 11:28:06 AM	111.7	111.7
CHH2164E	H-2164E	11/29/2023 10:00:45 AM	122.2	122.2
CHH2165E	H-2165E	11/2/2023 1:39:11 PM	116.3	116.4
CHH2165E	H-2165E	11/21/2023 1:58:04 PM	98.4	99.8
CHH2165W	H-2165W	11/26/2023 9:25:27 AM	118.8	119.4
CHH2166A	H-2166A	11/27/2023 11:45:43 AM	67.7	67.7
CHH2166A	H-2166A	11/27/2023 11:50:34 AM	66.2	66.4
CHH2166A	H-2166A	11/27/2023 3:41:35 PM	66.7	66.8
CHH2166C	H-2166C	11/20/2023 4:11:16 PM	112.8	112.8
CHH2166E	H-2166E	11/2/2023 2:05:48 PM	120.1	120.1
CHH2166W	H-2166W	11/1/2023 9:13:07 AM	98.4	98.4
CHH2167A	H-2167A	11/2/2023 5:15:36 PM	102.0	102.0
CHH2167B	H-2167B	11/29/2023 3:14:37 PM	63.3	63.3
CHH2167B	H-2167B	11/29/2023 3:16:57 PM	62.8	62.8
CHH2167E	H-2167E	11/2/2023 2:23:29 PM	98.8	98.9
CHH2167W	H-2167W	11/1/2023 9:48:33 AM	77.5	77.5
CHH2168A	H-2168A	11/2/2023 5:04:20 PM	84.6	84.8
CHH2168A	H-2168A	11/27/2023 2:35:43 PM	72.9	73.1
CHH2168A	H-2168A	11/27/2023 2:35:43 PM	72.9	73.1
CHH2168C	H-2168C	11/20/2023 3:02:23 PM	73.5	73.6
CHH2168E	H-2168E	11/2/2023 2:26:44 PM	108.5	108.6
CHH2169B	H-2169B	11/2/2023 4:34:30 PM	107.7	107.7
CHH2169C	H-2169C	11/20/2023 3:14:05 PM	90.5	90.7
CHH2169E	H-2169E	11/2/2023 2:38:36 PM	119.4	119.4
CHH2169W	H-2169W	11/1/2023 10:12:19 AM	95.3	95.2
CHH2170N	H-2170N	11/27/2023 4:59:35 PM	115.0	115.0
CHH2170S	H-2170S	11/14/2023 10:15:13 AM	88.4	88.4
CHH2171A	H-2171A	11/14/2023 2:15:59 PM	108.5	108.5
CHH2171B	H-2171B	11/20/2023 9:16:14 AM	111.7	111.7
CHH2171N	H-2171N	11/20/2023 8:50:03 AM	115.3	115.2
CHH2171S	H-2171S	11/20/2023 8:54:53 AM	116.4	116.4
CHH2272C	H-2272C	11/21/2023 1:27:01 PM	123.2	123.2
CHH2272W	H-2272W	11/29/2023 10:20:26 AM	108.9	109.0
CHH2273C	H-2273C	11/28/2023 9:48:57 AM	112.7	112.8
CHH2273W	H-2273W	11/27/2023 11:20:34 AM	123.9	123.8
CHH2274B	H-2274B	11/1/2023 4:11:38 PM	111.5	111.5
CHH2274B	H-2274B	11/28/2023 10:18:33 AM	112.9	112.9

Attachment D - Well Temperature Data
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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2274E	H-2274E	11/29/2023 12:01:07 PM	75.8	75.8
CHH2274W	H-2274W	11/27/2023 11:02:04 AM	121.7	121.7
CHH2275C	H-2275C	11/28/2023 9:56:38 AM	106.0	106.8
CHH2275E	H-2275E	11/21/2023 1:40:04 PM	109.7	109.9
CHH2275W	H-2275W	11/27/2023 11:32:00 AM	109.1	109.1
CHH2276A	H-2276A	11/1/2023 3:57:51 PM	115.4	115.5
CHH2276B	H-2276B	11/1/2023 10:40:48 AM	97.5	97.5
CHH2276E	H-2276E	11/2/2023 3:10:22 PM	115.2	115.2
CHH2276W	H-2276W	11/27/2023 11:43:26 AM	71.5	71.5
CHH2277A	H-2277A	11/1/2023 2:21:59 PM	87.3	87.3
CHH2277B	H-2277B	11/1/2023 11:14:21 AM	94.9	94.9
CHH2277E	H-2277E	11/20/2023 3:46:05 PM	108.6	108.6
CHH2277W	H-2277W	11/27/2023 10:33:45 AM	122.6	122.7
CHIWH023	H-23 (EXP-23)	11/20/2023 9:33:53 AM	68.0	68.0
CHIWH023	H-23 (EXP-23)	11/20/2023 9:36:05 AM	68.2	68.2
CHH2301E	H-2301E	11/29/2023 8:28:02 AM	108.2	108.2
CHH2303E	H-2303E	11/29/2023 8:49:20 AM	89.0	90.2
CHH2303E	H-2303E	11/29/2023 8:52:53 AM	90.3	90.2
CHIWH029	H-29	11/14/2023 5:04:05 PM	127.7	127.9
CHIWH029	H-29	11/20/2023 9:01:48 AM	129.9	130.0
CHIWH030	H-30	11/20/2023 8:42:06 AM	65.2	65.2
CHIWH031	H-31	11/14/2023 3:21:49 PM	88.7	88.7
CHIWH031	H-31	11/20/2023 9:50:29 AM	105.2	105.2
CHIWH048	H-48	11/26/2023 10:52:14 AM	71.5	71.1
CHIWH051	H-51	11/26/2023 11:07:10 AM	67.9	68.2
CHIWH052	H-52	11/27/2023 5:01:49 PM	82.2	82.4
CHIWH053	H-53	11/28/2023 4:49:06 PM	102.3	102.3
CHIWH054	H-54	11/28/2023 3:53:19 PM	99.0	99.0
CHIWH059	H-59	11/30/2023 11:51:37 AM	96.3	96.3
CHIWH059	H-59	11/30/2023 11:53:38 AM	96.1	96.2
CHIWH060	H-60	11/27/2023 4:52:49 PM	84.9	84.8
CHIWH060	H-60	11/27/2023 4:54:19 PM	85.4	85.6
CHIWH065	H-65	11/27/2023 9:50:28 AM	102.8	102.8
CHIWH067	H-67	11/27/2023 9:36:33 AM	86.4	86.7
CHIWH072	H-72	11/30/2023 10:28:00 AM	93.0	93.1
CHIWH074	H-74	11/20/2023 10:06:45 AM	117.2	117.9
CHIWH076	H-76	11/27/2023 4:27:25 PM	109.8	109.8
CHIWH077	H-77	11/27/2023 4:35:33 PM	105.0	105.5
CHIWH77A	H-77A	11/26/2023 11:24:21 AM	62.1	62.0
CHIWH77A	H-77A	11/26/2023 11:28:42 AM	62.6	62.6
CHIWH078	H-78	11/26/2023 11:09:59 AM	91.2	91.3
CHIWH78A	H-78A	11/26/2023 11:02:04 AM	89.5	89.5
CHIWH079	H-79	11/14/2023 11:15:35 AM	138.3	136.0
CHIWH079	H-79	11/14/2023 11:17:45 AM	135.9	136.0
CHIWH084	H-84	11/28/2023 4:02:42 PM	67.8	69.1

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP002	P-02	11/9/2023 3:12:58 PM	85.2	85.3
CHIWP02R	P-02R	11/9/2023 2:00:31 PM	86.2	86.2
CHIWP03R	P-03R	11/9/2023 3:08:05 PM	99.9	97.2
CHIWP004	P-04	11/9/2023 2:59:08 PM	96.9	97.8
CHIWP005	P-05	11/9/2023 2:50:56 PM	107.8	107.8
CHIWP06R	P-06R	11/9/2023 2:47:06 PM	113.1	113.2
CHIWP07R	P-07R	11/26/2023 12:06:59 PM	84.4	84.4
CHIWP08R	P-08R	11/9/2023 2:04:49 PM	100.3	100.3
CHIWP009	P-09	11/9/2023 2:10:45 PM	95.0	96.8
CHIWP010	P-10	11/9/2023 2:15:36 PM	98.4	98.4
CHIWP011	P-11	11/9/2023 2:19:42 PM	105.5	105.4
CHIWP012	P-12	11/9/2023 2:45:13 PM	80.0	79.8
CHIWP013	P-13	11/9/2023 2:31:40 PM	81.4	81.4
CHIWP014	P-14	11/9/2023 2:26:07 PM	81.9	82.0
CHIWP15R	P-15R	11/9/2023 3:28:19 PM	84.8	84.8
CHIWP016	P-16	11/9/2023 3:36:23 PM	87.7	90.1
CHIWP017	P-17	11/9/2023 4:12:14 PM	102.9	103.1
CHIP18RD	P-18RD	11/9/2023 4:01:24 PM	88.3	88.5
CHIP18RS	P-18RS	11/9/2023 4:07:55 PM	88.7	88.8
CHIWP019	P-19	11/9/2023 3:50:25 PM	86.2	86.2
CHIWP20R	P-20R	11/9/2023 3:55:47 PM	96.7	96.7
CHIWP021	P-21	11/9/2023 4:19:34 PM	91.9	90.8
CHIP21RD	P-21RD	11/9/2023 4:29:45 PM	94.3	94.3
CHIP21RS	P-21RS	11/9/2023 4:25:28 PM	105.0	105.0
CHIP22RD	P-22RD	11/27/2023 9:13:13 AM	104.1	111.2
CHIP22RS	P-22RS	11/27/2023 9:15:49 AM	105.1	105.2
CHIWP023	P-23	11/9/2023 4:35:02 PM	80.9	81.0
CHIWP024	P-24	11/14/2023 1:53:45 PM	95.4	94.5
CHIWP024	P-24	11/14/2023 1:55:45 PM	94.0	94.0
CHIWP026	P-26	11/14/2023 2:10:51 PM	86.4	86.4
CHIWP027	P-27	11/14/2023 2:25:11 PM	89.0	88.7
CHIWP027	P-27	11/14/2023 2:26:40 PM	88.2	88.1
CHIWP028	P-28	11/14/2023 2:38:09 PM	93.9	95.4
CHIWP028	P-28	11/14/2023 2:40:08 PM	95.5	95.5
CHIWP29R	P-29R	11/14/2023 2:56:09 PM	95.1	95.1
CHIWP29R	P-29R	11/14/2023 2:58:21 PM	95.0	95.0
CHIWP30R	P-30R	11/14/2023 3:08:49 PM	87.8	87.8
CHIP32R1	P-32R1	11/17/2023 8:39:40 AM	86.2	86.2
CHIP32R2	P-32R2	11/17/2023 8:46:18 AM	121.9	121.9
CHIWP033	P-33	11/17/2023 8:56:31 AM	76.4	79.1
CHIWP034	P-34	11/17/2023 9:04:12 AM	84.0	83.8
CHIWP036	P-36	11/17/2023 9:18:32 AM	98.2	98.1
CHIWP037	P-37	11/17/2023 9:25:42 AM	88.6	88.6
CHIP38RD	P-38RD	11/17/2023 9:47:56 AM	104.2	105.3
CHIP38RS	P-38RS	11/17/2023 9:41:10 AM	100.8	100.8

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP039	P-39	11/17/2023 10:01:17 AM	78.7	78.7
CHIWP041	P-41	11/17/2023 10:11:15 AM	105.3	105.3
CHIWP42R	P-42R	11/17/2023 10:18:52 AM	118.4	118.4
CHIWP043	P-43	11/17/2023 10:26:20 AM	114.7	114.7
CHIP44RD	P-44RD	11/17/2023 10:46:05 AM	104.7	104.7
CHIP44RS	P-44RS	11/27/2023 9:38:33 AM	117.1	117.1
CHIP45RD	P-45RD	11/17/2023 11:47:32 AM	113.5	113.5
CHIP45RS	P-45RS	11/17/2023 11:43:40 AM	113.5	113.5
CHIP46RD	P-46RD	11/26/2023 2:11:47 PM	96.0	96.2
CHIP46RS	P-46RS	11/26/2023 2:09:12 PM	105.7	107.1
CHIWP047	P-47	11/26/2023 2:18:01 PM	85.6	102.9
CHIWP048	P-48	11/26/2023 2:36:11 PM	111.9	114.1
CHIP49RD	P-49RD	11/26/2023 2:23:33 PM	113.1	113.1
CHIP49RS	P-49RS	11/27/2023 9:45:20 AM	115.6	115.6
CHIWP052	P-52	11/26/2023 12:11:29 PM	110.6	110.9
CHIWP053	P-53	11/26/2023 12:14:58 PM	100.7	101.1
CHIWP054	P-54	11/26/2023 12:18:12 PM	91.2	92.4
CHIWP055	P-55	11/26/2023 12:23:39 PM	93.9	94.1
CHIWP056	P-56	11/26/2023 1:48:04 PM	96.0	96.0
CHIWP057	P-57	11/26/2023 1:51:13 PM	67.2	67.4
CHIWP60R	P-60R	11/26/2023 1:59:09 PM	66.4	66.4
CHIWP061	P-61	11/26/2023 2:02:27 PM	85.4	85.5
CHIWP065	P-65	11/26/2023 2:45:17 PM	85.9	86.0
CHIWP071	P-71	11/26/2023 1:37:37 PM	113.4	113.5
CHIWP075	P-75	11/27/2023 9:33:40 AM	94.5	94.5
CHIWP076	P-76	11/17/2023 9:31:12 AM	106.0	106.0
CHIWP079	P-79	11/9/2023 3:43:53 PM	91.5	91.5
CSC2000E	SC-2000E	11/1/2023 3:25:34 PM	115.8	115.9
CSC2001E	SC-2001E	11/1/2023 3:15:11 PM	108.5	108.5
CSC2001W	SC-2001W	11/17/2023 4:31:49 PM	97.6	97.6
CHISW010	SW-10	11/26/2023 11:31:50 AM	76.4	76.9
CHISW115	SW-115	11/14/2023 10:36:03 AM	83.0	83.0
CHSW1445	SW-1445	11/27/2023 4:16:23 PM	78.2	78.3
CHSW1455	SW-1455	11/27/2023 4:10:07 PM	83.7	83.7
CHISW154	SW-154	11/14/2023 3:32:50 PM	80.9	80.8
CSW17135	SW-17-135	11/27/2023 4:18:36 PM	72.5	72.6
CHISW187	SW-187	11/27/2023 10:29:57 AM	74.3	74.4
CHSW1930	SW-1930	11/1/2023 12:25:33 PM	70.6	70.7
CHSW1930	SW-1930	11/3/2023 8:08:42 AM	45.9	45.9
CHSW1930	SW-1930	11/8/2023 11:20:36 AM	59.7	59.8
CHSW1930	SW-1930	11/10/2023 7:47:29 AM	47.8	47.8
CHSW1930	SW-1930	11/13/2023 8:35:02 AM	61.0	61.0
CHSW1930	SW-1930	11/14/2023 8:41:09 AM	61.4	61.4
CHSW1930	SW-1930	11/15/2023 8:06:58 AM	58.1	58.0
CHSW1930	SW-1930	11/16/2023 8:59:11 AM	64.3	64.2

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHSW1930	SW-1930	11/17/2023 8:52:20 AM	62.2	62.2
CHSW1930	SW-1930	11/20/2023 8:04:41 AM	53.2	53.2
CHSW1930	SW-1930	11/21/2023 9:56:38 AM	77.4	77.4
CHSW1930	SW-1930	11/22/2023 11:30:24 AM	85.3	85.3
CHSW1930	SW-1930	11/27/2023 11:09:43 AM	70.9	70.9
CHSW1930	SW-1930	11/29/2023 9:52:41 AM	71.2	71.2
CHISW020	SW-20	11/9/2023 3:18:06 PM	84.8	84.8
CHISW025	SW-25	11/1/2023 12:35:05 PM	81.5	81.4
CHISW025	SW-25	11/3/2023 8:16:06 AM	77.8	77.8
CHISW025	SW-25	11/8/2023 11:31:59 AM	81.8	81.8
CHISW025	SW-25	11/9/2023 8:49:19 AM	81.3	81.4
CHISW025	SW-25	11/10/2023 7:53:08 AM	78.1	78.2
CHISW025	SW-25	11/13/2023 8:40:00 AM	78.8	78.8
CHISW025	SW-25	11/14/2023 8:47:51 AM	77.1	77.1
CHISW025	SW-25	11/15/2023 8:11:03 AM	65.7	65.7
CHISW025	SW-25	11/16/2023 9:04:56 AM	81.1	81.1
CHISW025	SW-25	11/17/2023 8:57:45 AM	81.9	81.9
CHISW025	SW-25	11/20/2023 8:10:28 AM	77.6	77.6
CHISW025	SW-25	11/21/2023 9:48:21 AM	78.2	78.3
CHISW025	SW-25	11/22/2023 11:23:27 AM	80.6	80.5
CHISW025	SW-25	11/27/2023 11:02:44 AM	74.6	74.6
CHISW025	SW-25	11/29/2023 10:01:25 AM	77.1	77.1
CHISW030	SW-30	11/1/2023 1:01:53 PM	77.4	77.4
CHISW030	SW-30	11/3/2023 8:48:23 AM	68.9	68.9
CHISW030	SW-30	11/8/2023 11:48:38 AM	69.5	69.5
CHISW030	SW-30	11/9/2023 9:00:08 AM	74.5	74.5
CHISW030	SW-30	11/9/2023 11:23:13 AM	77.2	77.1
CHISW030	SW-30	11/10/2023 8:21:05 AM	65.7	65.8
CHISW030	SW-30	11/13/2023 9:09:45 AM	67.1	67.1
CHISW030	SW-30	11/14/2023 9:16:45 AM	68.2	68.2
CHISW030	SW-30	11/15/2023 8:39:50 AM	66.8	66.7
CHISW030	SW-30	11/16/2023 9:37:52 AM	69.6	69.8
CHISW030	SW-30	11/17/2023 9:50:55 AM	78.4	78.3
CHISW030	SW-30	11/20/2023 8:39:18 AM	68.2	68.2
CHISW030	SW-30	11/21/2023 9:37:25 AM	71.7	71.6
CHISW030	SW-30	11/22/2023 11:12:50 AM	79.4	79.4
CHISW030	SW-30	11/27/2023 10:56:44 AM	67.8	67.7
CHISW030	SW-30	11/29/2023 10:33:26 AM	73.8	73.7
CHISW032	SW-32	11/1/2023 1:19:35 PM	79.0	79.0
CHISW032	SW-32	11/3/2023 8:56:53 AM	77.8	78.0
CHISW032	SW-32	11/8/2023 11:56:53 AM	71.9	71.9
CHISW032	SW-32	11/9/2023 11:45:19 AM	79.9	83.6
CHISW032	SW-32	11/10/2023 8:29:08 AM	61.5	61.6
CHISW032	SW-32	11/13/2023 9:13:40 AM	65.7	65.8
CHISW032	SW-32	11/14/2023 9:21:00 AM	76.0	76.1

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHISW032	SW-32	11/15/2023 8:44:28 AM	64.3	64.3
CHISW032	SW-32	11/16/2023 9:47:49 AM	66.1	66.1
CHISW032	SW-32	11/17/2023 9:54:54 AM	81.4	81.4
CHISW032	SW-32	11/20/2023 8:45:03 AM	64.9	64.9
CHISW032	SW-32	11/21/2023 9:42:03 AM	72.5	72.6
CHISW032	SW-32	11/22/2023 11:08:34 AM	79.2	79.3
CHISW032	SW-32	11/27/2023 10:49:03 AM	72.7	72.7
CHISW032	SW-32	11/29/2023 10:38:39 AM	83.2	83.3
CHISW064	SW-64	11/1/2023 1:09:07 PM	86.0	86.1
CHISW064	SW-64	11/3/2023 8:43:53 AM	66.6	66.4
CHISW064	SW-64	11/8/2023 11:44:07 AM	71.6	71.8
CHISW064	SW-64	11/9/2023 11:12:50 AM	78.6	78.6
CHISW064	SW-64	11/10/2023 8:16:54 AM	63.8	63.9
CHISW064	SW-64	11/13/2023 9:05:50 AM	66.9	67.0
CHISW064	SW-64	11/14/2023 9:13:17 AM	72.7	72.7
CHISW064	SW-64	11/15/2023 8:34:39 AM	66.4	66.3
CHISW064	SW-64	11/16/2023 9:34:40 AM	66.6	66.8
CHISW064	SW-64	11/17/2023 9:48:11 AM	81.5	81.7
CHISW064	SW-64	11/20/2023 8:36:10 AM	64.1	64.1
CHISW064	SW-64	11/21/2023 9:34:41 AM	72.6	72.7
CHISW064	SW-64	11/22/2023 11:15:22 AM	80.8	80.8
CHISW064	SW-64	11/27/2023 10:54:14 AM	68.1	68.2
CHISW064	SW-64	11/29/2023 10:29:27 AM	77.3	77.3
CHISW065	SW-65	11/14/2023 10:41:41 AM	85.0	85.0
CHISW066	SW-66	11/14/2023 3:39:55 PM	83.8	84.0
CHISW068	SW-68	11/1/2023 1:15:29 PM	77.8	77.7
CHISW068	SW-68	11/3/2023 8:53:01 AM	70.2	70.4
CHISW068	SW-68	11/8/2023 11:51:58 AM	71.7	71.7
CHISW068	SW-68	11/9/2023 11:37:59 AM	76.6	76.5
CHISW068	SW-68	11/10/2023 8:25:43 AM	71.2	71.1
CHISW068	SW-68	11/13/2023 9:17:16 AM	71.4	71.5
CHISW068	SW-68	11/14/2023 9:24:10 AM	72.2	72.1
CHISW068	SW-68	11/15/2023 8:47:47 AM	68.9	69.0
CHISW068	SW-68	11/16/2023 9:42:15 AM	71.1	71.0
CHISW068	SW-68	11/17/2023 9:52:42 AM	76.9	76.8
CHISW068	SW-68	11/20/2023 8:48:18 AM	70.3	70.3
CHISW068	SW-68	11/21/2023 9:40:05 AM	71.9	71.9
CHISW068	SW-68	11/22/2023 11:10:24 AM	75.9	75.8
CHISW068	SW-68	11/27/2023 10:51:37 AM	69.9	69.9
CHISW068	SW-68	11/29/2023 10:36:23 AM	72.4	72.4
CHISW007	SW-7	11/1/2023 12:43:45 PM	75.7	75.7
CHISW007	SW-7	11/3/2023 8:21:56 AM	69.6	69.6
CHISW007	SW-7	11/8/2023 11:36:17 AM	75.4	75.4
CHISW007	SW-7	11/10/2023 7:59:16 AM	71.4	71.4
CHISW007	SW-7	11/13/2023 8:42:45 AM	73.2	73.2

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHISW007	SW-7	11/14/2023 8:53:01 AM	73.9	73.9
CHISW007	SW-7	11/15/2023 8:15:03 AM	69.1	69.1
CHISW007	SW-7	11/16/2023 9:10:05 AM	75.2	75.3
CHISW007	SW-7	11/17/2023 9:43:38 AM	76.6	76.6
CHISW007	SW-7	11/20/2023 8:15:47 AM	72.4	72.4
CHISW007	SW-7	11/21/2023 9:53:30 AM	75.5	75.5
CHISW007	SW-7	11/22/2023 11:26:42 AM	78.4	78.4
CHISW007	SW-7	11/27/2023 11:05:51 AM	73.9	73.9
CHISW007	SW-7	11/29/2023 10:03:53 AM	75.7	75.7
CHISW070	SW-70	11/27/2023 10:33:18 AM	83.3	83.4
CHISW071	SW-71	11/14/2023 2:03:49 PM	90.1	90.1
CHISW072	SW-72	11/17/2023 9:13:22 AM	74.9	75.0
CHISW080	SW-80	11/14/2023 3:11:24 PM	88.6	88.8
CHISW009	SW-9	11/27/2023 10:37:47 AM	71.7	71.8
CHH1959S	TC-1959S	11/27/2023 10:15:39 AM	105.7	105.7
CHH1961A	TC-1961A	11/28/2023 9:44:11 AM	110.8	110.9
CHH1961C	TC-1961C	11/28/2023 11:02:04 AM	115.1	115.1
CHH1961E	TC-1961E	11/2/2023 3:25:54 PM	118.8	118.8
CHH1961W	TC-1961W	11/28/2023 10:56:15 AM	105.9	106.0
CHH2173W	TC-2173	11/2/2023 5:55:30 PM	107.1	107.2
CHTC2174	TC-2174	11/20/2023 1:42:48 PM	146.9	147.4
CHTC2174	TC-2174	11/20/2023 1:45:23 PM	147.7	147.7
CHTC2174	TC-2174	11/28/2023 8:36:54 AM	148.4	147.8
CHTC2378	TC-2378	11/1/2023 9:03:06 AM	146.2	146.3
CHTC2378	TC-2378	11/7/2023 10:44:07 AM	154.6	155.7
CHTC2378	TC-2378	11/15/2023 3:12:52 PM	159.0	159.0
CHTC2378	TC-2378	11/21/2023 4:34:06 PM	157.2	156.7
CHTC2378	TC-2378	11/29/2023 9:19:42 AM	155.9	155.9
CTC2378E	TC-2378E	11/1/2023 9:06:40 AM	141.5	141.5
CTC2378E	TC-2378E	11/7/2023 2:43:45 PM	145.2	145.6
CTC2378E	TC-2378E	11/29/23 8:19	143.7	143.7
CTC2380E	TC-2380E	11/1/23 9:25	102.2	102.2
CTC2380W	TC-2380W	11/1/23 8:57	112.1	112.4
CTC2381E	TC-2381E	11/22/23 15:10	136.2	129.9
CTC2381E	TC-2381E	11/22/23 15:11	125.9	125.2
CTC2381E	TC-2381E	11/22/23 15:14	122.8	131.8
CTC2381E	TC-2381E	11/22/23 15:15	132.7	132.7
CTC2382B	TC-2382B	11/7/23 17:08	164.3	164.3
CTC2382B	TC-2382B	11/14/23 15:04	168.1	168.1
CTC2382B	TC-2382B	11/21/23 14:34	155.4	155.4
CTC2382B	TC-2382B	11/28/23 14:44	162.5	162.6
CTC2382E	TC-2382E	11/7/23 16:34	165.1	165.1
CTC2382E	TC-2382E	11/14/23 10:23	166.3	166.3
CTC2382E	TC-2382E	11/28/23 14:30	151.3	150.9
CTC2382E	TC-2382E	11/28/23 14:34	155.5	155.5

Attachment D - Well Temperature Data
November 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CTC2385A	TC-2385A	11/27/23 9:41	112.1	112.2
CTC2385A	TC-2385A	11/27/23 9:41	112.1	112.2
CTC2385A	TC-2385A	11/30/23 11:06	131.3	124.1
CTC2385A	TC-2385A	11/30/23 11:09	122.8	122.8
CTC2385N	TC-2385N	11/30/23 13:48	107.3	107.3
CTC2385S	TC-2385S	11/27/23 11:01	100.7	100.7
CHIWVL02	VL-02	11/27/23 16:31	77.2	77.4

Attachment E

Lab Analysis and Draeger Tube Readings

Attachment E - Lab Analysis and Draeger Tube Data
November 2023

Date Sampled	Draeger Tube Readings (ppmv)	Lab Analysis (ppmv)		
	H2S	H2S	DMS	TRS
11/8/2023	45	42.6	178	286.5
11/17/2023	18	20.1	152	242.3
11/21/2023	20	25.9	167	273.8
11/29/2023	39	43.2	179	302.5

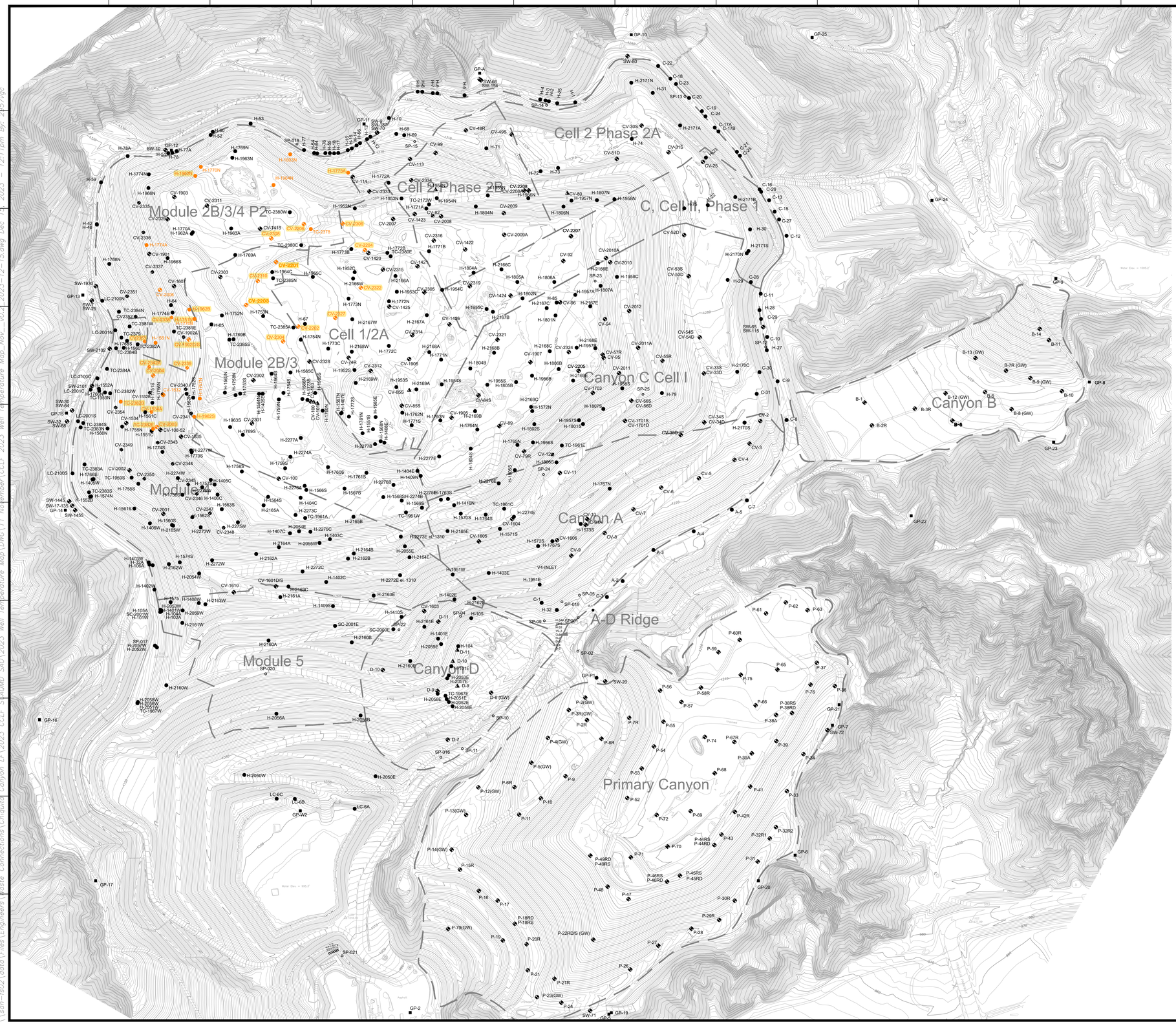
Attachment E - Lab Analysis and Draeger Tube Data
November 2023

Chiquita Canyon Landfill H_2S Draeger Tube Readings

			Tube Used		
Sample Date	**Time**	**H_2S (PPM)**	**2 to 20 ppm (6728821)**	**5 to 60 ppm (29801)**	**Technician**
11/8/23	7:55	45		x	Fabian Chavez
11/17/23	14:27	18		x	Cage Johnson
11/21/23	12:10	20		x	Cage Johnson
11/29/23	15:00	39		x	Fabian Chavez

Attachment F

Graphic Map



N

GRAPHIC SCALE

230 115 0 230 460 690

SCALE: 1"=230'

LEGEND

1150	EXISTING MAJOR 10 FT. CONTOUR
	EXISTING MINOR 2 FT. CONTOUR
	EXISTING CELL LIMITS (APPROXIMATE)
CV-69	EXISTING VERTICAL WELLS ABOVE-GRADE
C-31	EXISTING VERTICAL WELLS BELOW-GRADE
C-31	EXISTING HORIZONTAL WELLS
SP-1	EXISTING DETECTION WELLS
C-39	EXISTING REMOTE VERTICAL WELLHEAD
GP-9	EXISTING PERIMETER MIGRATION PROBE
CV-69	EXISTING VERTICAL WELLS ABOVE-GRADE-TEMPERATURE GREATER THAN 145°F
C-31	EXISTING HORIZONTAL WELLS - TEMPERATURE GREATER THAN 145°F
	EXISTING WELL WITH CARBON MONOXIDE (CO) GREATER THAN 1500 PPMV

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY TETRA TECH BAS. AERIAL PHOTOGRAPHY DATED 1/18/2023.
2. NORTH ARROW SHOWN HERE IS REFERENCE TO THE CALIFORNIA STATE PLANE ZONE V COORDINATE SYSTEM, NAD 83.
3. THE LOCATION OF ANY EXISTING GCCS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FILL OPERATIONS. ACTUAL FIELD CONDITIONS MAT VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

NO.	REVISION	DATE

SHEET TITLE: WELL TEMPERATURE MAP

PROJECT TITLE: NOVEMBER MONTHLY REPORT CHIQUITA LANDFILL CASTAIC, CALIFORNIA

CLIENT:

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX. (562) 427-0805

ACAD FILE: F:/ENGINEERS

DWN. BY: VC

CHK. BY: BH

APP. BY: -

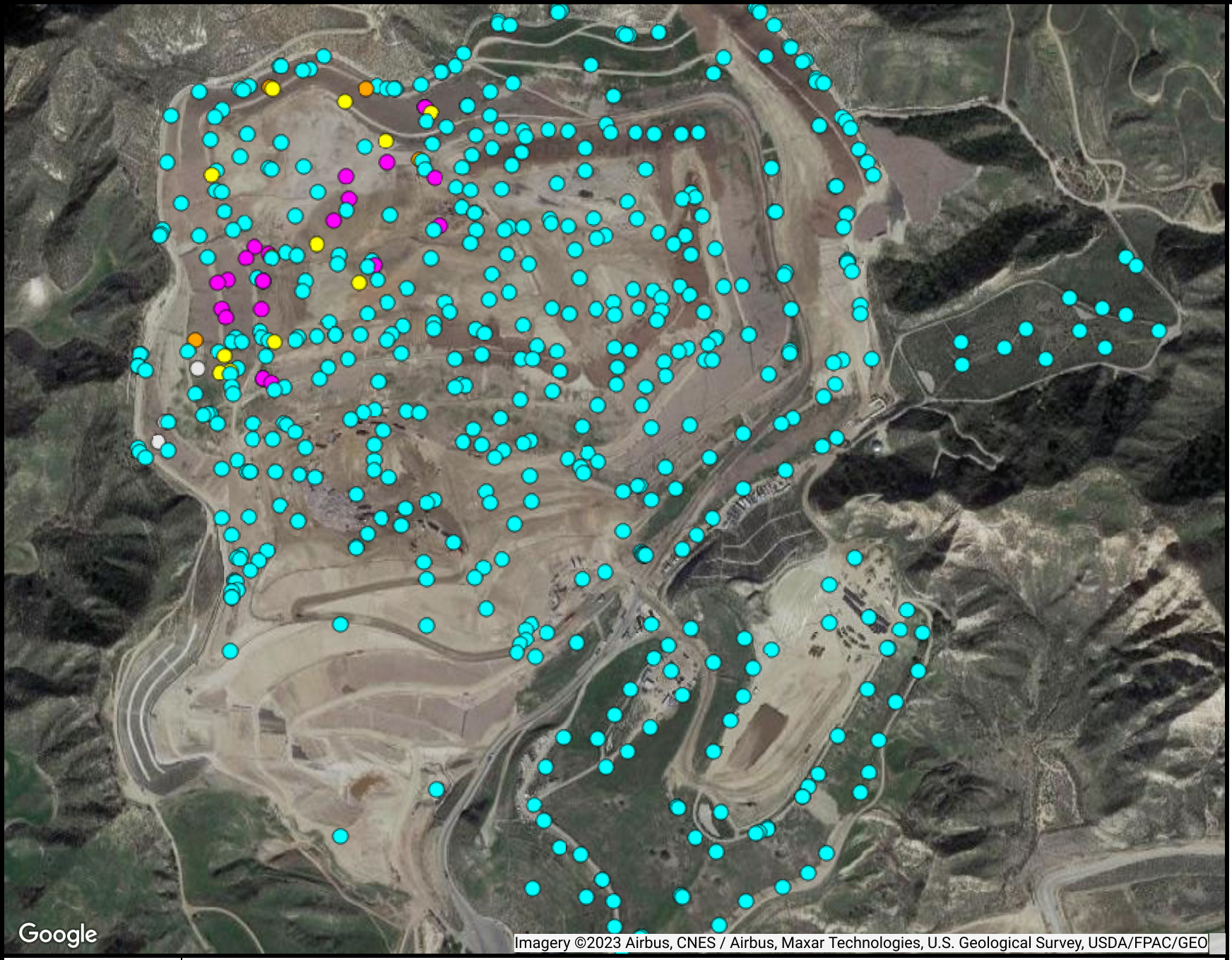
PROJ. NO. 07214017.93

DSN. BY: -

DATE: 12/15/2023

SCALE: AS SHOWN

SHEET: 1



Ranges Mapped

				# Points
>	-50	and <=	145	493
>	145	and <=	160	12
>	160	and <=	169.99	5
>	169.99	and <=	999	19
	N/A		N/A	9

Point Type Legend

well

N

SCSeTools

Chiquita Canyon Landfill

Range Map

Parameter: AdjTemp

Analysis Method: Average

Date Range: 11/01/2023 - 11/30/2023

Map generation date : 12/15/2023

Attachment G

Inspection Logs

11-1-23 CRACKS WERE TRACK WALKED



11-2-23 CRACKS WERE TRACK WALKED



11-3-23 CRACKS WERE TRACKWALKED



11-6-23 CRACKS WERE TRACK WALKED



IL-7-23 CRACKS WERE TRACK WALKED



11·8·23

CRACKS WERE TRACK WALKED



11-9-23



11-10-23

N/O CRACKS FOUND



11-13-23 CRACKS WERE TRAIL WALKED



11-14-23

CRACKS WERE TRACK WALKED



11-13-23 CRACKS WERE TRAIL WALKED



11-14-23

CRACKS WERE TRACK WALKED



11-15-23

CRACKS WERE TRACK WALKED



11-16-23 CRACKS WERE TRACK WALKED



11-17-23

CRACKS WERE TRACK WALKED



11-24-23 cracks were track walked



11-22-23 CRACKS WERE TRACK WALKED

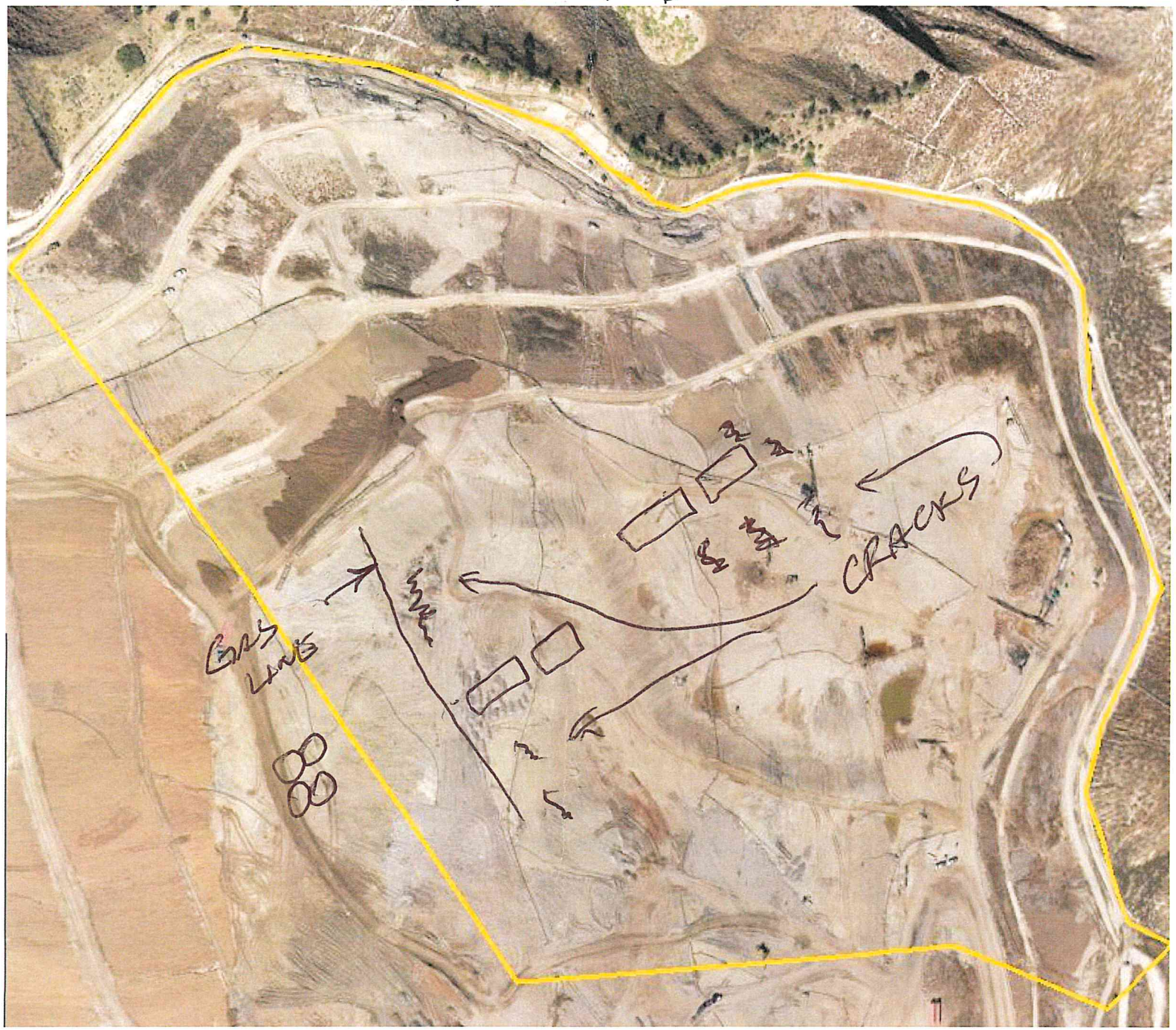


11-21-23

CRACKS WERE TRACK WALKED



11-20-23 CRACKS WERE TRACK WALKED



11-27-23 CRACKS WERE TRACK WALKED



11-28-23

CRACKS WERE TRACK WALKED



11-29-23 CRACKS WERE TRACK WALKED



cracks were

11-30-23 Track walked



January 15, 2024
File No. 01204123.25, Task 10

Baitong Chen, Air Quality Engineer, bchen@aqmd.gov
Nathaniel Dickel, Senior Air Quality Engineer, ndickel@aqmd.gov
Christina Ojeda, Air Quality Inspector, cojeda@aqmd.gov
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Subject: December 2023 Monthly Report for Stipulated Order for Abatement (Case No. 6177-4), Chiquita Canyon Landfill (Facility ID 119219), Castaic, California

To Whom It May Concern:

SCS Engineers (SCS), on behalf of Chiquita Canyon, LLC (Chiquita), hereby provides the South Coast Air Quality Management District (SCAQMD) with a monthly report per the Stipulated Order for Abatement (SOFA) (Case No. 6177-4). The SOFA was approved on September 6, 2023.

This report covers the monthly period for December 2023. Per Condition No. 8, the monthly report for December 2023 shall be due on the third Monday of January, or January 15, 2024.

BACKGROUND

Chiquita Canyon Landfill (CCL) is a landfill/solid waste disposal facility located at 29201 Henry Mayo Dr., Castaic, California, 91384 (SCAQMD Facility No. 119219). In connection with the landfill, Chiquita operates a landfill gas collection and control system.

In 2023, CCL began experiencing increased levels of total reduced sulfur and sulfur oxides, in noncompliance with its Title V permit.[1] In addition, CCL became the subject of numerous odor complaints from the public and was issued Notices of Violation by SCAQMD. The conditions at CCL indicate that the landfill is undergoing an elevated temperature landfill (ETLF) event. On September 6, 2023, a hearing was held before the SCAQMD Hearing Board to approve the SOFA which includes numerous measures to mitigate emissions resulting from the landfill's ETLF conditions. The SOFA was approved on September 6, 2023. This monthly report is following the approved conditions for the SOFA.

Condition No. 8 of the SOFA requires monthly reports to be submitted via email to Baitong Chen, Nathaniel Dickel, and Christina Ojeda of the SCAQMD, which include the following information:

A. *The landfill gas sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.*
B. *The landfill gas records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.*

[1] CCL operated under an Ex Parte Emergency Variance (approved on February 8, 2023), an Interim Variance (approved on February 15, 2023 and issued in final on March 7, 2023), and a Regular Variance (approved on May 3, 2023 and issued in final on May 16, 2023). The Regular Variance ended on September 6, 2023, the effective date of the SOFA.

C. *The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.*
D. *Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.*
E. *Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).*
F. *Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).*
G. *All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format.*
H. *A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.*
I. *All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.*
J. *Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternative sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.*
K. *A summary report on SCS's implemented improvements to the landfill gas collection system.*
L. *An inspection log for landfill cover inspections, pursuant to Condition No. 24.*
M. *Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.*
N. *Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.*
O. *Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.*

MONTHLY REPORT

Section A – LFG Sulfur Compound Measurements during Reporting Period

The LFG sulfur compounds measurements and laboratory analysis with the time and date of each measurement or sample collection, as identified in Condition No. 5.

> *Condition No. 5: Respondent shall sample, analyze, and record the landfill gas sulfur compounds combusted in each flare (as measured at sampling location FL-150 that is representative of the gas combusted in the flare under Permit G23473, A/N 491442) at least once each week using colorimetric tests for hydrogen sulfide (H2S) and at least once each week sample for analysis for total sulfur compounds as H2S using South Coast AQMD Method 307-91.*

a. Respondent shall record South Coast AQMD Method 307-91 analysis upon receipt of laboratory analysis report. Each recorded measurement or result shall be documented with the time and date when the measurement or sample collection was conducted, and initialed by the personnel that conducted the measurement or sample collection.

b. Sulfur compound readings and analysis shall be reported to South Coast AQMD pursuant to Condition No. 8.

i. Tedlar bags used for Method 307-91 sampling and analysis shall not contain droplets or debris.

ii. Colorimetric tube readings shall be conducted by taking a reading from a Tedlar bag sample using an appropriate colorimetric tube sample collection pump. All sampling shall be performed in accordance with the operational manual for the colorimetric tube sample collection pump.

iii. Colorimetric tube readings shall use colorimetric tubes of appropriate concentration range and shall be reported as follows:

1. Respondent shall first use the estimated appropriately ranged colorimetric tube.

2. If the resulting reading reaches the upper concentration of the colorimetric tube concentration range, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a larger upper concentration threshold until the result is not the upper concentration threshold of the concentration range. Report the tube concentration range and tube concentration result for each reading.

3. If the reading results in the lower concentration of the colorimetric tube concentration range or does not register a result, subsequent reading(s) shall be taken using a colorimetric tube with a concentration range that has a smaller lower concentration threshold, if available, until the colorimetric tubes available to the facility result in:

a. A reading that is within the concentration range of the tube,

b. A reading is the lower concentration of the colorimetric tube concentration range, or

c. The colorimetric tube does not register a result.

4. When the result is the lower concentration of the colorimetric tube concentration range or does not register a result, the lower concentration of the colorimetric tube concentration shall be considered the concentration result. Report the tube concentration range and tube concentration result for each reading. If a lower range colorimetric tube is not used and the tube concentration result is below the lower range of the colorimetric tube used, Respondent shall report the result as "less than" or "<" the lower range value of the tube. Notwithstanding the forgoing, Respondent shall ensure that the colorimetric tube result is below the upper range of the colorimetric tube used and shall report the precise result of all results above the lowest range of the colorimetric tube used.

The lab analyses performed, and reports received for the reporting period that are required by Condition 5(a) are presented in **Attachment A**. This report includes analytical data sampled between December 1, 2023 and December 31, 2023. Tedlar bag samples were collected and analyzed by SCAQMD Method 307.91 for hydrogen sulfide and reduced sulfur compounds. The laboratory reports were received on December 17, 19, 22 and January 2, 2024.

Weekly colorimetric tests (Draeger tube) samples required by Condition 5(b)(ii) and (iii) are identified in **Attachment E**.

A summary of the colorimetric tests and laboratory analyses for landfill gas (LFG) sulfur analyses is provided in the table below, covering the period of December 2023:

	Draeger Tube	SCAQMD Method 307.91 (Concentration in ppmv as H_2S)		
Date of Sample	H_2S (ppm)	H_2S	DMS	TRS
12/7/23	5	8.69	209	312.0
12/14/23	12	13.8	160	241.3
12/20/23	23	21.4	137	202.0
12/27/23	35	33.4	220	347.5

*Above summarized Lab analysis are included in **Attachment A** and **Attachment E**.

Section B – LFG Records and Calculations

The LFG records and calculations identified in Condition No. 7, in a Microsoft Excel spreadsheet format.

Condition No. 7: Respondent shall maintain a record of the following information, and provide such records to the South Coast AQMD pursuant to Condition No. 8:

a. The hourly and daily flow of landfill gas combusted, in standard cubic feet, in each flare (flares No. 1 & No. 2 under Permit G23473, A/N 491442; flare No. 3 under A/N 624296), the thermal oxidizer (under Envent Corporation A/N 645484), and any other equipment used to combust or control landfill gas at the facility, and the total amount of landfill gas combusted at the facility;

b. The daily flow of landfill gas not flared, in standard cubic feet, if applicable; and

c. The results of the sulfur readings, sampling, and analyses, calculated as H2S with the time and date when each measurement or sample collection was conducted.

The above-mentioned lab analyses required by Condition 7(c) are included in **Attachment A** and calculations are available in **Attachment B**.

In accordance with Condition 7(a), the flow rates for each flare as standard cubic feet per minute (scfm), scf per hour, and scf per day are provided in the calculation tables and the hourly and daily flow of LFG combusted for the Envent and Zeeco thermal oxidizers are available in **Attachment B**. The new Flare No. 3 (FL-2023) began operations on November 15, 2023, and the new Zeeco Thermal oxidizer began operations on November 3, 2023.

In accordance with Condition 7(b), the daily flow of LFG not flared is available in **Attachment B**. Ameresco applied for a variance to operate the LFG turbine plant under a variance order, and its variance was approved on February 15th. Ameresco restarted operations on February 16th, returning the LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

<u>Section C – Surface Emissions Monitoring</u>

The integrated landfill surface sample analysis and landfill surface monitoring readings identified in Conditions 9 and 10, in a Microsoft Excel spreadsheet format.

Condition No. 9: Respondent shall collect integrated landfill surface samples for analysis across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1 Attachment A 2.0. In the event Respondent is unable to sample specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the sampling of the specific area(s) or grid(s).

a. The "Reaction Area" shall be defined initially by the boundary of Cells 1/2A, 2B/3, 4, and Module 2B/3/4 P2. The boundary of the Reaction Area shall be modified to include the associated landfill surface area of the cells and modules that experience well temperatures of at least 170 degrees Fahrenheit, settlement, cracks in the landfill cover, presence and quantity of liquids, and the presence of hydrogen in the landfill gas. The DMS Committee (defined in Condition 12), shall

transmit to the South Coast AQMD [attn: Baitong Chen, bchen@aqmd.gov; Nathaniel Dickel, ndickel@aqmd.gov; Christina Ojeda, cojeda@aqmd.gov] 1) the revised map which clearly displays the proposed boundary change(s) and depicts the new Reaction Area; 2) a narrative summary explaining the rationale behind the proposed changes, including memorializing any dissenting view of any member of the DMS Committee; and 3) any supporting data relied upon in the decision to revise the Reaction Area.

b. The DMS Committee shall review applicable data and shall consider revision to the Reaction Area as frequently as appropriate but shall make a determination about whether to revise the Reaction Area map at least once per month.

Condition No. 10: Respondent shall conduct instantaneous landfill surface monitoring across the Reaction Area (as defined in Condition 9(a)) at least every two weeks as specified in Rule 1150.1, Attachment A 3.0, beginning no later than seven (7) days after the issuance of this Order. In the event Respondent is unable to monitor specific landfill surface area(s) or grid(s) due to inaccessibility or dangerous conditions for a technician, Respondent shall document the date and the conditions that do not allow the monitoring of the specific area(s) or grid(s).

- December's integrated landfill surface sampling was completed on December 12, 13, and 27, 2023, resulting in exceedances on December 12 and 27, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on December 19, 2023 and January 4, 2024, respectively, and showed compliant readings.
- November's integrated landfill surface sampling was completed on November 1, 14 and 28, 2023 resulting in exceedances on November 1, 14 and 28, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed for these exceedances on November 10, November 22, 2023, and December 7, 2023, respectively, and showed compliant readings, except for three (3) events on December 7, 2023. The second 10-day Corrective Action and follow-up monitoring was completed on December 15, 2023 and showed compliant readings for all three (3) events.
- December's instantaneous landfill surface monitoring was conducted on December 6, 18 and 19, 2023, resulting in exceedances on December 6 and 18, 2023.
    - The 10-day Corrective Action and follow-up monitoring was completed on December 15 and 28, 2023, and showed compliant readings.
    - The 1-month re-monitoring was conducted on January 5, 2024 for the exceedances on December 6, 2023, and showed compliant readings. The 1-month re-monitoring for the exceedances on December 18, 2023 will be conducted and reported in the next monthly report.

- November's instantaneous landfill surface monitoring was conducted on November 10 and 22, 2023, resulting in exceedances on November 10 and 22, 2023.

    - The 10-day Corrective Action and follow-up monitoring was completed on November 20 and 30, 2023, and showed compliant readings.

    - The 1-month re-monitoring was completed on December 7 and 19, 2023, and showed compliant readings.

The integrated landfill surface sample analysis and landfill surface monitoring readings are included in **Attachment C**.

Section D – Schedule for Replacement or Refurbishment of Granular Activated Carbon Media

Estimated schedule for any replacement or refurbishment of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249) identified in Condition No. 3.

> ***Condition No. 3: Respondent shall expedite, to the maximum extent feasible, replacement of granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249), including the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System. Respondent shall ensure adequate stock of all odor control products and supplies are maintained on site.***

The Landfill Gas Treatment System (LFGTS) currently consists of four carbon adsorber vessels. Only three of the four vessels are online during normal operations with one vessel offline awaiting servicing to replace spent media or on standby with fresh granular activated carbon media. A vessel is typically serviced every 4 to 8 weeks. Colorimetric tests are performed on the outlet of the operating vessels approximately weekly to determine if a vessel may require an adjustment to the flow or schedule service to replace the media.

H2S vessels will be changed out at a lower concentration. At the start of the reporting period (December 1, 2023), all four vessels (ST-1, ST-2, ST-3 and ST-4) were online processing the landfill gas with ST-1 only 10% open to control the rise in temperature of the outlet gas. On December 7, 2023, as vessel ST-4 was taken offline for media replacement, vessel ST-1 was brought fully online. The spent media in vessel ST-4 was removed on December 7, 2023. The manufacturer had a delay in delivering the new BG1 media so the fresh media was not installed until December 15, 2023. Beginning on December 22, 2023, vessel ST-4 was slowly brought online to control the rise in temperature of the outlet gas and the flow through vessel ST-2 was reduced. On December 28, 2023, vessel ST-2 was taken offline and the spent media removed. Fresh media was installed on December 29, 2023. The next media change out is scheduled for January 17 and 18, 2024. At the end of the reporting period (December 31, 2023), three vessels (ST-1, ST-3 and ST-4) were online processing the landfill gas.

Section E – Description of Problems or Delays

> **Description of any problems or delays, if any, encountered or projected to occur pertinent to the execution of contracts, as well as the delivery, replacement, startup, and testing of any operation necessary to replenish and/or replace spent granular activated carbon media in the Landfill Gas Treatment System (under Permit G55163, A/N 603249).**

The manufacturer of the BG1 media (Norit Americas Inc.) had a delay in delivering the BG1 granular activated carbon for the December 7 – 8, 2023 change out of vessel ST-4. The delay did not adversely affect the H2S concentration. Due to the increase in temperature of the landfill gas when exposed to fresh media, the new vessels have been slowly brought online to avoid damaging the fiber reinforced plastic (FRP) vessels.

Section F – Specifications of Equipment and Materials for Weekly Colorimetric Tests

> **Specifications of the equipment and materials used for the weekly colorimetric tests (only if there is a change from the previously provided specifications of the colorimetric instrumentation or method used).**

The weekly colorimetric tests are completed with the Draeger Accuro 64000 bellows hand pump with either Draeger hydrogen sulfide colorimetric tubes Model 6728821 (2 to 20 ppm) or Model CH29801 (5 to 60 ppm). The specifications of the equipment and materials used for the colorimetric test was included in the initial weekly variance report provided on February 13, 2023 in Case No. 6177-3, as required under the previous emergency variance. There has been no change in the specifications since the previous report submitted under the emergency variance.

Section G – Wellhead Temperature Readings

> **All wellhead temperature readings, lab analysis, and Draeger tube readings for landfill gas from the past month in a Microsoft Excel spreadsheet format**

Wellhead temperature readings for the past month are included in **Attachment D**. Lab analysis and Draeger tube readings for the past month are included in **Attachment A** and **Attachment E**, respectively.

Section H – Graphic Map

> **A graphic map showing location of each well with temperature exceedances (above 145 degrees Fahrenheit) and stratification of temperature ranges during that month, which includes a description of any remedial measures taken to address or lower gas well temperatures.**

A graphic map with the above information is included in **Attachment F**. **Attachment F** also includes a second map that highlights those wells with measured carbon monoxide concentrations above 1500 parts per million by volume (ppmv). Increased volume of gas is being extracted from elevated temperature wells located in the Reaction Area to help remove accumulated heat in the waste mass. Additionally, de-watering pumps have been installed in elevated temperature wells as needed to increase the available perforations in high heat wells to further increase gas extraction. The de-watering pumps also assist in removing heat by eliminating elevated temperature liquids from the waste.

Section I – Status of Vertical Liquid Impacted Landfill Gas Wells

All vertical liquid impacted landfill gas wells, per Condition No. 20, including a description of any remedial measures taken to address or reduce liquids in landfill gas wells.

> *Condition No. 17: Respondent shall expeditiously dewater wells being impacted by liquids, and shall take proactive measures to remove additional liquids in the Reaction Area to limit the reaction severity and spread. This shall be accomplished through the installation of dewatering sumps/pumps at 20 percent of the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area as determined by the DMS Committee within 60 days of the issuance of this Order, unless otherwise determined infeasible per Condition No. 17.a. below. Respondent shall provide updates in the monthly reports pursuant to Condition No. 8.*
>
> *a. In the event Respondent determines the installation of a dewatering sump/pump at a single landfill gas collection well to be infeasible, Respondent shall provide detailed rationale and reasoning in the monthly report submitted pursuant to Condition No. 8, and shall continue with implementation of the dewatering guidelines pursuant to Condition No. 18 to remove liquids to the maximum extent possible including to ensure installation across 20% of total landfill gas collection wells within the Reaction Area.*

Please note, SOFA Condition 8(i) references Condition No. 20, which is regarding the permit application for a new flare. Therefore, we believe this is the wrong reference and did not include it. Likely the correct reference is Condition No. 17, which requires CCL to expeditiously dewater wells being impacted by liquids. Condition No. 17 requires the DMS Committee to determine the landfill gas collection wells with the worst liquid impaction issues in the Reaction Area by November 5, 2023. The DMS Committee determination was submitted to the SCAQMD on November 2, 2023 and included in Attachment G of the November 20, 2023 monthly status update report. As of December 31st, CCL has installed pumps in 41 wells determined to have the worst liquid impaction issues exceeding the requirement met by November 2nd when 22 of 25 wells determine to have the worst liquid impaction issues in the Reaction Area (88%) had received pumps.

Section J – Status of Investigation for Alternate Sulfur Compound Treatment Systems

Updates on the investigation into the availability, viability, and utilization, including pilot testing if needed, of an alternatives sulfur compound treatment system that controls, treats, or removes dimethyl sulfide ("DMS") and other sulfur compounds, if any.

SCS investigated the availability and viability of alternative sulfur compound treatment systems that control, treat or remove dimethyl sulfide and other sulfur compounds. A preliminary list of alternative treatment systems is included below:

- Oxidation by Hypochlorite
- Oxidation by Peroxide
- Oxidation by Potassium Permanganate
- Bentonite or Zeolite Media Impregnated with Metal

- Reaction with Iron
- Reaction with Copper
- Biotreatment with Sulfur-Reducing Bacteria (SRBs)

A preliminary assessment of these treatment technologies was included in Attachment D of the February 27, 2023 status update report, submitted in compliance with the interim variance. These technologies will be further investigated, and updates will be included in subsequent reports.

In addition to the preliminary list of alternative treatment systems, SCS is investigating the use of a hydrogen re-former catalyst to convert all sulfur compounds to H_2S and oxidation by Sodium Hydroxide. A reaction with nickel alternative treatment has been investigated but is not a preferred alternative as heat is required. Bench testing of stronger oxidation scrubbing solutions is ongoing to convert DMS to Dimethylsulfoxide (DMSO).

Testing of Oxidation by Hypochlorite was completed early November 2023 using the liquid scrubbers with the temporary Envent thermal oxidizer (TOX) located in the northwest area of the site. The initial analytical results indicate that sodium hypochlorite is able to reduce DMS from the gas stream by 88%, but its capacity to oxidize is diminished quickly in less than a week. Further analysis is needed to determine the effectiveness of sodium hypochlorite.

CCL is also currently in the layout/process flow planning stage for a H_2S and DMS treatment system.

Section K – SCS's Implemented Improvements

A summary report on SCS's implemented improvements to the landfill gas collection system.

In December 2023, CCL maintained and replaced the existing 41 de-watering pumps in existing wells to more efficiently remove liquids and improve gas collection efficiency in wells impacted by liquids. An additional 13 wells were drilled and completed and connected to the Landfill gas collection system in December 2023. The new wells and wellfield were tuned and well laterals re-routed to utilize the additional vacuum provided by the second rental TOX, the Zeeco TOX, and the new flare FL-120/FL-2023, Flare 3.

Section L – Cover Inspections to the LFG Collection System

An inspection log for landfill cover inspections, pursuant to Condition No. 24.

> *Condition No. 24: Respondent shall visually inspect the landfill cover around the Reaction Area (as defined in Condition 9(a)) each operating day and shall promptly repair any cover issues identified, which may include adding and spreading soil, wetting, and retracking the damaged area. Respondent shall maintain a log demonstrating that it has addressed any damages to the landfill cover, including the date the damage was identified, the action taken to repair the damage, and the time at which the repair was completed. Results of the daily inspection and the repair log required by this condition shall be included in the monthly reports required pursuant to Condition No. 8.*

Routine cover inspections and repairs were performed and logged throughout the month of December 2023. Results of the daily inspection and the repair log are provided in the photos in Attachment G.

Chiquita has a full-time operator that is responsible for repairing covers in the Reaction Area. These photos show areas where cracks in the cover were noted on the days that they were first observed. The cracks are repaired on an immediate and ongoing basis by the operator that makes such observations by tracking over the area and adding small amounts of water when necessary.

Section M – Subsequent Additions to the LFG Collection System

Any subsequent additions to the landfill gas collection system, pursuant to Condition No. 15.

Condition No. 15: Respondent shall continue to evaluate and install, as needed, vertical dual extraction wells to collect both landfill gas and leachate. Respondent shall continue to expand the well-field as needed, and notify South Coast AQMD by October 31, 2023 of the number of wells added, attention to Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov). Any subsequent additions to the well-field shall be documented in the monthly reports pursuant to Condition 8.

In the month of December 2023, 13 new vertical LFG extraction wells were installed. The 13 new vertical wells installed in December were a part of a larger expansion of the well field, including but not limited to additional vertical LFG extraction wells, header and lateral piping and associated valves, that is being planned. Subsequent additions will be documented in these monthly reports.

Section N – Additions to the LFG Condensate or Leachate Collection System

Any subsequent additions to the landfill gas condensate or leachate collection system, such as dewatering sumps/pumps, or other dewatering work performed per the dewatering guidelines and implementation plan pursuant to Condition No. 17.

Condition No. 18: Respondent shall, in addition to the installation of dewatering sumps/pumps specified in Condition No. 17 above, within ninety (90) days of the issuance of this Order, provide proposed Reaction Area dewatering guidelines and implementation procedures for the landfill to South Coast AQMD (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov)) that include but are not limited to the following:

a. Proposed methodologies and monitoring procedures that determine the level of dewatering within the Reaction Area (as defined in Condition 9(a)) wells impacted by liquid. Methods may include the measurement of the gas flow at each landfill gas collection well impacted by liquids;

b. Use of dewatering pumps or other methods to remove liquids from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

c. An implementation plan for the use of dewatering pumps or other methods to remove liquids from the Reaction Area wells impacted by liquids. The plan shall include a list of wells in the Reaction Area and depth where liquids are expected to impact landfill gas collection efficacy or be a concern, the proposed action to remove the liquids, and the schedule for liquid removal.

The implementation plan shall also include pro-active measures, such as additional dewatering pumps, to be installed at landfill gas collection wells where liquid impaction issues have not yet occurred, but may be expected to occur.

d. Upgrades to the site leachate collection system as needed, including through the addition of increased air compressor and/or drain line infrastructure;

e. Protocols for the pumping and monitoring of dewatering pumps and other such methods to remove water from Reaction Area (as defined in Condition 9(a)) wells impacted by liquids;

f. Well field liquid sounding in the Reaction Area (as defined in Condition 9(a)), and a proposed schedule for conducting liquid sounding on a consistent basis;

g. A timeline for appropriate reporting on impacted wells;

h. The feasibility of integrity testing of all vertical gas wells in the Reaction Area (as defined in Condition 9(a)) and a timeline and protocol for addressing any wells that the integrity testing demonstrates are damaged or are exhibiting temperatures of at least 170 degrees Fahrenheit; and

i. A timeline for implementation of appropriate dewatering procedures upon discovery of wells impacted by liquids.

The proposed Reaction Area dewatering guidelines and implementation procedures shall be implemented within seven (7) days of South Coast AQMD approval.

Please note, SOFA Condition 8(n) references Condition No. 17, however, we believe the correct reference is Condition No. 18, which requires CCL to provide proposed Reaction Area dewatering guidelines and implementation procedures to SCAQMD by December 5, 2023. The dewatering guidelines were submitted to SCAQMD on December 5, 2023 and are posted on Chiquita's website.

The evaluation of vertical wells for the installation of dewatering pumps is ongoing. Prior to December 2023, there were forty-one (41) active wells with dewatering pumps. In the month of December 2023, 40 additional pumps began arriving at the site for installation in both existing wells and new LFG wells. The 41 existing pumps were maintained and replaced as needed for increased pumping efficiency, but the total number of pumps installed remained constant.

<u>Section O – Updates of the Geosynthetic Cover</u>

Updates on the procurement and installation of the geosynthetic cover, pursuant to Condition No. 25.

Condition No. 25: Respondent shall install a geosynthetic cover over western portions of Module 2B/3/4 Phase 2, Module 2B/3, and Module 4 to limit the migration of landfill gas from the site. Respondent shall submit the completed design for the cover, which will provide greater definition to the cover location, including associated landfill

> *gas extraction infrastructure to be installed underneath the cover, to the South Coast AQMD by September 12, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)). Respondent shall then obtain and install the geosynthetic cover material of at least 30 mil thickness. Respondent shall notify South Coast AQMD by October 31, 2023 (Baitong Chen, Air Quality Engineer, (bchen@aqmd.gov); Nathaniel Dickel, Senior Air Quality Engineer, (ndickel@aqmd.gov), and Christina Ojeda, Air Quality Inspector, (cojeda@aqmd.gov)) on the progress of procuring and installing the geosynthetic cover. Respondent shall include updates on the procurement and installation of the geosynthetic cover in the monthly reports pursuant to Condition 8.*

As required by Condition No. 25, Chiquita provided an initial update on the status of the procurement and installation of the geosynthetic cover to SCAQMD on October 31. This status update discusses Chiquita's progress since Chiquita's October 31 update. The timeline provided in Chiquita's October 31 update and below is Chiquita's current best estimate, which may continue to change for a variety of reasons. As with any construction project of this size, there may be unanticipated setbacks that cause delays that may cascade through the rest of the timeline. Further, Chiquita is in ongoing discussions with the Local Enforcement Agency concerning cover, which may impact this timeline.

After discussion with the Local Enforcement Agency (LEA), Chiquita has expanded the scope of the area that will be covered by the geosynthetic cover. The geosynthetic cover will now cover western sloped areas of the Reaction Area, northern sloped areas of the Reaction Area, and the top deck of the Reaction Area. Chiquita's revised scope of work, as submitted to and conditionally approved by the LEA, is attached as **Attachment H**.

West Slope Regrading: Chiquita has completed grading the toe on the west side of the Landfill to eliminate the bulge and smooth the slope. Chiquita has also cleared and graded the northern 6 acres for preparation for liner installation.

Existing Liner Repairs: Chiquita has not yet been able to begin liner repairs because Chiquita continues to dewater the west slope to address leachate seepage. Chiquita completed drilling on the west slope as of January 9 and is actively working to install pumps in all wells on the west slope to dewater the western toe enough to repair the liner. Preparing appropriate health and safety plans for the repair work is still ongoing and has taken longer than anticipated.

Existing Liner Repairs: Chiquita has not yet been able to begin liner repairs because Chiquita continues to dewater the west slope to address leachate seepage. Chiquita completed drilling on the west slope as of January 9th and is actively working to install pumps in all wells on the west slope to dewater the western toe enough to repair the liner. Preparing appropriate health and safety plans for the repair work is still ongoing and has taken longer than anticipated.

Cutoff Trench: Construction of this trench began in mid-November as Chiquita completed the west slope regrading. Chiquita will continue evaluating the plans for this trench as dewatering of the west slope continues.

Clearing and Grubbing: Clearing and grubbing of the first 6 acres of cover area has been completed. Future clearing and grubbing will continue as cover construction progresses.

Landfill Gas (LFG) Surface/Horizontal Collectors: Chiquita has been evaluating alternative options to allow for faster placement of the geosynthetic cover. Chiquita anticipates proceeding with the installation of surface collectors by the end of January in advance of the placement of the geosynthetic cover.

Bench Grading: Chiquita has begun this work in the northern-most 6 acres of the cover area.

Subgrade Prep: Chiquita has begun this work in the northern-most 6 acres of the cover area.

Geosynthetic Cover Procurement: The 30-mil geosynthetic cover material has been delivered to the site.

Geosynthetic Cover Placement: Chiquita anticipates beginning placement of the cover material after subgrade prep, bench grading, and surface collectors installation have been completed.

Bench Collector & Operations Layer: As noted in Chiquita's October 31 update, this work will begin once the geosynthetic cover material is in place.

CLOSING

If you have any questions or need any additional information, please contact Cornelius Fong of SCS Field Services at (562) 743-7895 or either of the undersigned at (800) 326-9544.

Sincerely,

James J. Kim
Senior Project Professional
SCS Engineers

Gabrielle F. Stephens
Vice President
SCS Engineers

JJK/GFS/PSS

Enclosures

cc: Cornelius Fong, SCS Engineers; Steve Cassulo, Chiquita Canyon Landfill
Enclosures

Attachment A

Lab Analyses from the Reporting Period

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277
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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	December 17, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	December 7, 2023
Date Received:	December 7, 2023
Date Analyzed:	December 7, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23413-16
Sample I.D.:	FL-100

Components	*(Concentration in ppmv)*
Hydrogen sulfide	8.69
Carbonyl sulfide	0.91
Methyl mercaptan	8.23
Ethyl mercaptan	<0.50
Dimethyl sulfide	209
Carbon disulfide	<0.50
i-Propyl mercaptan	<0.50
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	3.91
s-Butyl mercaptan	3.87
i-Butyl mercaptan	<0.50
Dimethyl disulfide	18.4
Tetrahydrothiophene	3.13
Unidentified sulfurs	37.4
	(Concentration in ppmv, as H_2S)
Total Sulfur	312.0

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: December 7, 2023
Date Received: December 7, 2023
Date Analyzed: December 7, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-100	8.45	8.92	8.69	5.4
Carbonyl sulfide	FL-100	0.89	0.93	0.91	4.4
Methyl mercaptan	FL-100	8.19	8.26	8.23	0.85
Ethyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl sulfide	FL-100	206	212	209	2.9
Carbon disulfide	FL-100	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-100	<0.50	<0.50	---	---
t-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-100	3.84	3.97	3.91	3.3
s-Butyl mercaptan	FL-100	3.84	3.90	3.87	1.6
i-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl disulfide	FL-100	18.2	18.6	18.4	2.2
Tetrahydrothiophene	FL-100	3.19	3.07	3.13	3.8
Unidentified sulfurs	FL-100	36.3	38.6	37.4	6.2

One Tedlar bag sample, laboratory number 23413-16, was analyzed for total sulfur compounds. 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 one Tedlar bag sample is 3.4%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: *(Signature)* Eric Castro	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-100	Landfill Gas	23413-16	12/7/23	11:20AM	X						Filtered
					X						

Relinquished by: *(Signature)* Eric Castro	**Date** 12/7/23	**Time** 1:20PM	**Received by: *(Signature)***	**Date** / **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received by: *(Signature)***	**Date** / **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by: *(Signature)***	**Date** 12/7/23 **Time** 1:20

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302
TEL: (818) 223-3277
FAX: (818) 223-8250

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	December 17, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	December 14, 2023
Date Received:	December 14, 2023
Date Analyzed:	December 14, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23483-8
Sample I.D.:	FL-100

Components	*(Concentration in ppmv)*
Hydrogen sulfide	13.8
Carbonyl sulfide	0.88
Methyl mercaptan	8.87
Ethyl mercaptan	<0.50
Dimethyl sulfide	160
Carbon disulfide	<0.50
i-Propyl mercaptan	0.53
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.52
s-Butyl mercaptan	2.42
i-Butyl mercaptan	<0.50
Dimethyl disulfide	11.2
Tetrahydrothiophene	1.70
Unidentified sulfurs	28.3

(Concentration in ppmv, as H_2S)

Total Sulfur	241.3

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: December 14, 2023
Date Received: December 14, 2023
Date Analyzed: December 14, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-100	13.8	13.8	13.8	0.00
Carbonyl sulfide	FL-100	0.82	0.93	0.88	13
Methyl mercaptan	FL-100	8.93	8.81	8.87	1.4
Ethyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl sulfide	FL-100	160	160	160	0.00
Carbon disulfide	FL-100	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-100	0.54	0.51	0.53	5.7
t-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-100	2.59	2.45	2.52	5.6
s-Butyl mercaptan	FL-100	2.46	2.37	2.42	3.7
i-Butyl mercaptan	FL-100	<0.50	<0.50	---	---
Dimethyl disulfide	FL-100	11.4	10.9	11.2	4.5
Tetrahydrothiophene	FL-100	1.66	1.73	1.70	4.1
Unidentified sulfurs	FL-100	27.9	28.7	28.3	2.9

One Tedlar bag sample, laboratory number 23483-8, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.0%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No.	**Field Logbook No.**
07214017.91 Task 2	
Sampler: *(Signature)* Eric Castro	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-2009	Landfill Gas	23463-6	12/14/23	10:15am	X						*FL100 on bag ID Filtered / 12ppm
					X						

Relinquished by: *(Signature)*	**Date** 12/14/23	**Time** 2:33pm	**Received by: *(Signature)***	**Date** / **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received by: *(Signature)***	**Date** / **Time**
Relinquished by: *(Signature)*	**Date**	**Time**	**Received for Laboratory by: *(Signature)***	**Date** 12/14/23 / **Time** 2:33

Company Info:	Send Report to:	Analytical Laboratory
Company: SCS Engineers	**Company:** SCS Engineers	**AtmAA Inc.**
Street Address 3900 Kilroy Airport Way Suite 100	**Street Address** 3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip: Long Beach / CA / 90806	**City/State/Zip:** Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.: 562-743-7895 /562-335-0002	**Project Manager:** Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:	**Email Address:** CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date:	December 22, 2023
Client:	SCS Engineers
Project Location:	Chiquita Canyon Landfill
Project No.:	07214017.91 Task 2
Date Sampled:	December 20, 2023
Date Received:	December 20, 2023
Date Analyzed:	December 20, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.:	23543-18
Sample I.D.:	FL-100 (2009)

Components	*(Concentration in ppmv)*
Hydrogen sulfide	21.4
Carbonyl sulfide	0.83
Methyl mercaptan	15.5
Ethyl mercaptan	<0.50
Dimethyl sulfide	137
Carbon disulfide	<0.50
i-Propyl mercaptan	0.68
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	2.25
s-Butyl mercaptan	2.09
i-Butyl mercaptan	<0.50
Dimethyl disulfide	5.80
Tetrahydrothiophene	1.09
Unidentified sulfurs	10.1
	(Concentration in ppmv, as H_2S)
Total Sulfur	202.0

Brian W. Eung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon Landfill
Date Sampled: December 20, 2023
Date Received: December 20, 2023
Date Analyzed: December 20, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-100 (2009)	21.9	20.9	21.4	4.7
Carbonyl sulfide	FL-100 (2009)	0.81	0.85	0.83	4.8
Methyl mercaptan	FL-100 (2009)	15.9	15.1	15.5	5.2
Ethyl mercaptan	FL-100 (2009)	<0.50	<0.50	---	---
Dimethyl sulfide	FL-100 (2009)	138	135	137	2.2
Carbon disulfide	FL-100 (2009)	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-100 (2009)	0.69	0.67	0.68	2.9
t-Butyl mercaptan	FL-100 (2009)	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-100 (2009)	2.29	2.21	2.25	3.6
s-Butyl mercaptan	FL-100 (2009)	2.12	2.05	2.09	3.4
i-Butyl mercaptan	FL-100 (2009)	<0.50	<0.50	---	---
Dimethyl disulfide	FL-100 (2009)	5.98	5.62	5.80	6.2
Tetrahydrothiophene	FL-100 (2009)	1.12	1.05	1.09	6.5
Unidentified sulfurs	FL-100 (2009)	10.2	10.0	10.1	2.5

One Tedlar bag sample, laboratory number 23543-18, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 4.2%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature)	**Chain of Custody Tape No.**

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	ANALYSES REQUESTED: TRS (307.91)						Special Remarks
FL-100 (2009)	Landfill Gas	23543-1A	12/20/23	9:25am	X						Filtered

	Date	Time		Date	Time
Relinquished by: (Signature)	12/20/23	11:39am	**Received by: (Signature)**		
Relinquished by: (Signature)			**Received by: (Signature)**		
Relinquished by: (Signature)			**Received for Laboratory by: (Signature)**	12/20/23	11:34

Company Info:		Send Report to:		Analytical Laboratory
Company:	SCS Engineers	**Company:**	SCS Engineers	**AtmAA Inc.**
Street Address	3900 Kilroy Airport Way Suite 100	**Street Address**	3900 Kilroy Airport Way Suite 100	**23917 Craftsman Rd.**
City/State/Zip:	Long Beach / CA / 90806	**City/State/Zip:**	Long Beach / CA / 90806	**Calabasas, CA 91302**
Telephone No.:	562-743-7895 /562-335-0002	**Project Manager:**	Cornelius Fong	**TEL: (818) 223-3277**
Fax No.:		**Email Address:**	CFong@scsengineers.com	**FAX: (818) 223-8250**

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LABORATORY ANALYSIS REPORT

Hydrogen Sulfide and Reduced Sulfur Compounds
Analysis in Tedlar Bag Sample by SCAQMD Method 307.91

Report Date: January 2, 2024
Client: SCS Engineers
Project Location: Chiquita Canyon
Project No.: 07214017.91 Task 2
Date Sampled: December 27, 2023
Date Received: December 27, 2023
Date Analyzed: December 27, 2023

ANALYSIS DESCRIPTION

Total sulfur analysis measured by gas chromatography with sulfur chemiluminescence detector (SCD), SCAQMD 307.91.

AtmAA Lab No.: 23613-17
Sample I.D.: FL-2023

Components	*(Concentration in ppmv)*
Hydrogen sulfide	33.4
Carbonyl sulfide	1.18
Methyl mercaptan	36.1
Ethyl mercaptan	<0.50
Dimethyl sulfide	220
Carbon disulfide	<0.50
i-Propyl mercaptan	1.75
t-Butyl mercaptan	<0.50
n-Propyl mercaptan	4.58
s-Butyl mercaptan	4.72
i-Butyl mercaptan	<0.50
Dimethyl disulfide	8.24
Tetrahydrothiophene	2.68
Unidentified sulfurs	26.7

(Concentration in ppmv, as H_2S)

Total Sulfur	347.5

Brian W. Fung
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Chiquita Canyon
Date Sampled: December 27, 2023
Date Received: December 27, 2023
Date Analyzed: December 27, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Hydrogen sulfide	FL-2023	32.9	33.8	33.4	2.7
Carbonyl sulfide	FL-2023	1.05	1.30	1.18	21
Methyl mercaptan	FL-2023	34.7	37.4	36.1	7.5
Ethyl mercaptan	FL-2023	<0.50	<0.50	---	---
Dimethyl sulfide	FL-2023	224	216	220	3.6
Carbon disulfide	FL-2023	<0.50	<0.50	---	---
i-Propyl mercaptan	FL-2023	1.78	1.72	1.75	3.4
t-Butyl mercaptan	FL-2023	<0.50	<0.50	---	---
n-Propyl mercaptan	FL-2023	4.26	4.90	4.58	14
s-Butyl mercaptan	FL-2023	5.01	4.42	4.72	13
i-Butyl mercaptan	FL-2023	<0.50	<0.50	---	---
Dimethyl disulfide	FL-2023	8.34	8.14	8.24	2.4
Tetrahydrothiophene	FL-2023	2.79	2.56	2.68	8.6
Unidentified sulfurs	FL-2023	26.0	27.4	26.7	5.4

One Tedlar bag sample, laboratory number 23613-17, was analyzed for total sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 10 repeat measurements from one Tedlar bag sample is 8.1%.

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LABORATORY ANALYSIS REPORT

Permanent Gases and Hydrogen Analysis in Tedlar Bag Samples

Report Date: January 2, 2024
Client: SCS Engineers
Project Name: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 2

Date Sampled: December 27, 2023
Date Received: December 27, 2023
Date Analyzed: December 27-29, 2023

ANALYSIS DESCRIPTION

Permanent gases and hydrogen were measured by thermal conductivity detection/gas chromatography (TCD/GC) ASTM D1946-90.

AtmAA Lab No.	Sample ID	Methane (%v)	Carbon Dioxide (%v)	Oxygen (%v)	Nitrogen (%v)	Hydrogen (%v)
23613-17	FL-2023	32.29	43.28	3.94	17.38	2.00

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon. The accuracy of permanent gas analysis by TCD/GC is +/- 2%. Actual analysis results are reported on a "wet" basis.

Michael S. Porter
Senior Analyst

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Name: Chiquita Canyon Landfill
Date Sampled: December 27, 2023
Date Received: December 27, 2023
Date Analyzed: December 27-29, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in %,v)			
Methane	FL-2023	32.48	32.10	32.29	1.2
Carbon dioxide	FL-2023	43.43	43.13	43.28	0.69
Oxygen	FL-2023	3.92	3.96	3.94	1.0
Nitrogen	FL-2023	17.22	17.53	17.38	1.8
Hydrogen	FL-2023	2.00	2.00	2.00	0.00

One Tedlar bag sample, laboratory number 23613-17, was analyzed for permanent gases and hydrogen. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 5 repeat measurements from 1 Tedlar bag sample is 0.93%.

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LABORATORY ANALYSIS REPORT

Carbon Monoxide Analysis in Tedlar Bag Samples

Report Date: January 2, 2024
Client: SCS Engineers
Project Name: Chiquita Canyon Landfill
Project No.: 07214017.91 Task 1

Date Sampled: December 27, 2023
Date Received: December 27, 2023
Date Analyzed: December 27, 2023

ANALYSIS DESCRIPTION

Carbon monoxide was measured by flame ionization detection/total combustion analysis (FID/TCA), EPA Method ALT-144.

AtmAA Lab No.	Sample ID	Carbon Monoxide (Conc. in ppmv)
23613-17	FL-2023	968

Michael S. Porter
Senior Analyst

QUALITY ASSURANCE SUMMARY
(Repeat Analysis)

Project Name: Chiquita Canyon Landfill
Date Sampled: December 27, 2023
Date Received: December 27, 2023
Date Analyzed: December 27, 2023

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% RPD
		(Concentration in ppmv)			
Carbon Monoxide	FL-2023	976	960	968	1.7

One Tedlar bag sample, laboratory number 23613-17, was analyzed for carbon monoxide. Agreement between repeat analyses is a measure of precision and is shown above in the column "% RPD". The average % RPD for 1 repeat measurement from 3 Tedlar bag samples is 1.7%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
SCS Engineers / Chiquita Canyon	Castaic, CA
Project No. 07214017.91 Task 2	**Field Logbook No.**
Sampler: (Signature) Cage Johnson	**Chain of Custody Tape No.**

ANALYSES REQUESTED

Sample No./ Identification	Type of Sample	AtmAA Lab Number	Sampling Date	Sampling Time	TRS (307.91)	Fixed Gases	CO	H2			Special Remarks
FL-2023	Landfill Gas	23613-17	12/27/23	08:46am	X	X	X	X			Filtered
											H2S ___35___ PPM

	Date	Time		Date	Time
Relinquished by: (Signature) Cage Johnson	12/27/23	09:00am	**Received by: (Signature)** LUIS FARFAN	12/27/23	10:00
Relinquished by: (Signature) LUIS FARFAN	12/27/23	10:47	**Received by: (Signature)**		
Relinquished by: (Signature)			**Received for Laboratory by: (Signature)**	12/27/23	10:47

Company Info:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Telephone No.: 562-743-7895 /562-335-0002
Fax No.:

Send Report to:

Company: SCS Engineers
Street Address 3900 Kilroy Airport Way Suite 100
City/State/Zip: Long Beach / CA / 90806
Project Manager: Cornelius Fong
Email Address: CFong@scsengineers.com

Analytical Laboratory

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302
TEL: (818) 223-3277
FAX: (818) 223-8250

Attachment B

Calculations

Chiquita Canyon Landfill
Total Emissions
Monthly Report Period: December 2023

	Flare No. 1 John Zink (FL-150) (FL-1995)				Flare No. 2 John Zink (Zule) (FL-100) (FL-2009)				Flare No. 3 John Zink (Zule) (FL-2023)				Envent Thermal Oxidizer (TOx)	Zeeco Thermal Oxidizer (TOx)	All Control Devices (Flare No. 1, Flare No. 2, Flare No. 3, Envent, Zeeco)			Lab Analysis Total Reduced Sulfur as H2S (ppmv)
Date	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Runtime (hr)	Flow Rate (scfm)	Flow Rate (scf/hr)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total LFG Combusted (scf)	Total Flow Rate (scfm)	Total Flow Rate (scf/hr)	
12/1/2023	0	0.00	0	0	317,800	2.12	221	13,242	6,575,158	24.00	4,566	273,965	2,158,560	2,160,000	11,211,518	7,786	467,147	--
12/2/2023	0	0.00	0	0	3,767,321	24.00	2,616	156,972	5,604,523	24.00	3,892	233,522	2,158,560	2,124,000	13,654,404	9,482	568,933	--
12/3/2023	0	0.00	0	0	3,880,947	24.00	2,695	161,706	5,624,283	24.00	3,906	234,345	2,158,560	1,625,450	13,289,240	9,229	553,718	--
12/4/2023	0	0.00	0	0	4,145,011	23.50	2,878	172,709	5,779,540	24.00	4,014	240,814	2,158,560	574,275	12,657,386	8,790	527,391	--
12/5/2023	0	0.00	0	0	4,195,688	24.00	2,914	174,820	5,728,772	24.00	3,978	238,699	2,158,560	1,876,000	13,959,020	9,694	581,626	--
12/6/2023	0	0.00	0	0	4,168,448	24.00	2,895	173,685	5,072,281	24.00	3,522	211,345	2,158,560	994,125	12,393,414	8,607	516,392	--
12/7/2023	0	0.00	0	0	4,341,309	22.43	3,015	180,888	5,122,356	24.00	3,557	213,431	2,158,560	675,000	12,297,224	8,540	512,384	312
12/8/2023	0	0.00	0	0	4,524,844	24.00	3,142	188,535	3,814,402	19.02	2,649	158,933	2,158,560	1,888,125	12,385,931	8,601	516,080	--
12/9/2023	0	0.00	0	0	4,982,930	24.00	3,460	207,622	3,678,089	19.17	2,554	153,254	2,158,560	1,872,000	12,691,579	8,814	528,816	--
12/10/2023	0	0.00	0	0	4,884,276	24.00	3,392	203,512	4,892,716	24.00	3,398	203,863	2,158,560	1,836,000	13,771,552	9,564	573,815	--
12/11/2023	0	0.00	0	0	4,625,896	24.00	3,212	192,746	4,325,375	24.00	3,004	180,224	1,741,838	1,673,750	12,366,858	8,588	515,286	--
12/12/2023	40,107	0.40	28	1,671	3,304,896	16.05	2,295	137,704	4,778,987	24.00	3,319	199,124	2,068,620	1,761,550	11,954,160	8,301	498,090	--
12/13/2023	0	0.00	0	0	4,881,121	23.88	3,390	203,380	5,027,440	24.00	3,491	209,477	1,791,645	1,489,200	13,189,406	9,159	549,559	--
12/14/2023	285,140	2.25	198	11,881	4,684,065	24.00	3,253	195,169	4,892,270	24.00	3,397	203,845	1,474,470	1,687,300	13,023,245	9,044	542,635	241
12/15/2023	0	0.00	0	0	4,444,385	24.00	3,086	185,183	4,829,523	24.00	3,354	201,230	1,599,858	1,549,050	12,422,815	8,627	517,617	--
12/16/2023	0	0.00	0	0	4,415,670	24.00	3,066	183,986	4,782,382	24.00	3,321	199,266	1,565,220	1,620,000	12,383,272	8,599	515,970	--
12/17/2023	0	0.00	0	0	1,782,726	10.82	1,238	74,280	5,458,832	24.00	3,791	227,451	1,536,735	1,584,000	10,362,293	7,196	431,762	--
12/18/2023	0	0.00	0	0	1,721,785	10.17	1,196	71,741	5,916,910	24.00	4,109	246,538	1,246,465	1,437,275	10,322,434	7,168	430,101	--
12/19/2023	0	0.00	0	0	4,207,370	24.00	2,922	175,307	5,006,012	24.00	3,476	208,584	1,671,840	1,100,400	11,985,622	8,323	499,401	--
12/20/2023	0	0.00	0	0	3,992,119	24.00	2,772	166,338	5,016,323	24.00	3,484	209,013	1,323,540	1,161,325	11,493,307	7,981	478,888	202
12/21/2023	0	0.00	0	0	3,994,170	24.00	2,774	166,424	5,035,343	24.00	3,497	209,806	1,561,545	1,088,000	11,679,057	8,110	486,627	--
12/22/2023	0	0.00	0	0	3,305,652	21.27	2,296	137,736	4,433,673	21.03	3,079	184,736	1,671,840	1,608,000	11,019,165	7,652	459,132	--
12/23/2023	0	0.00	0	0	3,857,472	23.77	2,679	160,728	4,086,969	24.00	2,838	170,290	1,494,090	2,160,000	11,598,530	8,055	483,272	--
12/24/2023	0	0.00	0	0	3,824,573	22.98	2,656	159,357	4,366,185	24.00	3,032	181,924	1,327,200	2,160,000	11,677,958	8,110	486,582	--
12/25/2023	0	0.00	0	0	3,624,912	24.00	2,517	151,038	4,324,814	24.00	3,003	180,201	1,365,120	2,160,000	11,474,846	7,969	478,119	--
12/26/2023	0	0.00	0	0	2,725,468	18.20	1,893	113,561	4,679,006	24.00	3,249	194,959	1,355,280	2,160,000	10,919,754	7,583	454,990	--
12/27/2023	0	0.00	0	0	662,209	3.95	460	27,592	5,806,108	24.00	4,032	241,921	1,364,130	2,160,000	9,992,447	6,939	416,352	348
12/28/2023	0	0.00	0	0	4,423,726	23.93	3,072	184,322	4,479,503	24.00	3,111	186,646	1,365,120	2,160,000	12,428,349	8,631	517,848	--
12/29/2023	0	0.00	0	0	3,396,182	17.52	2,358	141,508	5,147,223	24.00	3,574	214,468	1,365,120	2,160,000	12,068,524	8,381	502,855	--
12/30/2023	0	0.00	0	0	4,232,878	24.00	2,939	176,370	4,429,087	24.00	3,076	184,545	1,365,120	2,160,000	12,187,085	8,463	507,795	--
12/31/2023	0	0.00	0	0	3,711,042	24.00	2,577	154,627	4,443,803	24.00	3,086	185,158	1,365,120	2,160,000	11,679,965	8,111	486,665	--

*Flare Flow and Runtime from chart recorder data. Ameresco's variance was approved on February 15th and Ameresco began operations on February 16th.

*Date of lab data based on date sampled.

Chiquita Canyon Landfill
LFG Not Combusted
Monthly Report Period: December 2023

Date	Flare 1, 2, 3, Envent, Zeeco Total Flow Rate (scf/day)	2022 Baseline Flow Rate (scf/day)	LFG Not Combusted (scf/day)[1]	Ameresco LFG Processed (scf/day)[2]	LFG Not Combusted (scfm)
12/1/2023	11,211,518	--	--	2,944,338	--
12/2/2023	13,654,404	--	--	2,931,310	--
12/3/2023	13,289,240	--	--	2,924,583	--
12/4/2023	12,657,386	--	--	2,373,011	--
12/5/2023	13,959,020	--	--	2,206,032	--
12/6/2023	12,393,414	--	--	2,848,752	--
12/7/2023	12,297,224	--	--	2,655,377	--
12/8/2023	12,385,931	--	--	3,733,207	--
12/9/2023	12,691,579	--	--	4,574,555	--
12/10/2023	13,771,552	--	--	4,043,755	--
12/11/2023	12,366,858	--	--	5,588,488	--
12/12/2023	11,954,160	--	--	4,706,942	--
12/13/2023	13,189,406	--	--	2,715,618	--
12/14/2023	13,023,245	--	--	3,492,573	--
12/15/2023	12,422,815	--	--	4,318,515	--
12/16/2023	12,383,272	--	--	4,275,050	--
12/17/2023	10,362,293	--	--	4,388,661	--
12/18/2023	10,322,434	--	--	4,209,821	--
12/19/2023	11,985,622	--	--	4,309,999	--
12/20/2023	11,493,307	--	--	4,281,885	--
12/21/2023	11,679,057	--	--	4,298,967	--
12/22/2023	11,019,165	--	--	5,054,024	--
12/23/2023	11,598,530	--	--	5,396,007	--
12/24/2023	11,677,958	--	--	4,574,792	--
12/25/2023	11,474,846	--	--	4,913,813	--
12/26/2023	10,919,754	--	--	5,511,498	--
12/27/2023	9,992,447	--	--	5,698,106	--
12/28/2023	12,428,349	--	--	4,898,060	--
12/29/2023	12,068,524	--	--	3,575,563	--
12/30/2023	12,187,085	--	--	5,576,656	--
12/31/2023	11,679,965	--	--	5,823,284	--
Total/Average					**--**

[1]Total LFG not combusted is calculated based on the difference from total flow rate from all control devices from 2022 (baseline) and flow rate from Flare 1 and 2 during the reporting period. Ameresco applied for variance to operate the LFG turbine plant under a variance order, and their variance was approved on February 15th. Ameresco restarted operations on February 16th, returning LFG collection and control system at CCL to full capacity. Therefore, the daily flow of LFG not flared per Section B ended on February 17th, except for periods when the Ameresco Plant and/or the Flares are offline or processing less LFG for other reasons.

[2]Actual Ameresco LFG flow rate after restarting operations are greater than the unflared amount while Ameresco was off-line. Therefore, there are no unflared gas in November 2023.

*Flare Flow and Runtime from chart recorder data.

*Date of lab data based on date sampled.

2022 Baseline Flow Rate			
Devices	**Total Flow (scf)**	**Flow Rate (scf/day)**	**Flow Rate (scfm)**
Flare No. 1	1,380,940,025	3,783,397	2,627
Flare No. 2	1,386,138,034	3,797,638	2,637
LFGTE Facility	1,584,198,413	4,340,270	3,014
Total	**4,351,276,471**	**11,921,305**	**8,279**

*Flare flow from chart recorder data. LFGTE Facility flow from Ameresco.

Attachment C

Surface Emissions Monitoring

2023 Chiquita Surface Emissions Exceedance

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
Integrated (Monthly)															
1/13/23, 1/20/23, 1/21/23 (no exceedances)															
2/1/23, 2/4/23, 2/13/23, 2/21/23 (no exceedances)															
175	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	68	Moisture Condition, Soil/Dirt Compaction	3/13/2023	48	Moisture Condition, Soil/Dirt Compaction	3/24/2023	20	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	9
182	2/21/2023	80	Moisture Condition, Soil/Dirt Compaction	3/3/2023	51	Moisture Condition, Soil/Dirt Compaction	3/13/2023	52	Moisture Condition, Soil/Dirt Compaction	3/24/2023	18	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	8
200	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	72	Moisture Condition, Soil/Dirt Compaction	3/13/2023	56	Moisture Condition, Soil/Dirt Compaction	3/24/2023	22	5/8/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 5/1/2023	17
202	2/21/2023	25	Moisture Condition, Soil/Dirt Compaction	3/3/2023	45	Moisture Condition, Soil/Dirt Compaction	3/13/2023	19	NA	NA	NA				
190	3/9/2023	39	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
191	3/9/2023	29	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.63	NA	NA	NA				
192	3/9/2023	41	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
193	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	33	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.77	NA	NA	NA				
189	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	24	NA	NA	NA	NA	NA	NA				
188	3/9/2023	38	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	12.64	NA	NA	NA				
187	3/9/2023	40	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
186	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	13.91	NA	NA	NA				
182	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	39	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.7	NA	NA	NA				
183	3/9/2023	48	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	10.24	NA	NA	NA				
184	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
200	3/9/2023	45	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
181	3/9/2023	34	Moisture Condition, Soil/Dirt Compaction	3/17/2023	21	NA	NA	NA	NA	NA	NA				
180	3/9/2023	49	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
139	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	13	NA	NA	NA	NA	NA	NA				
201	3/9/2023	32	Moisture Condition, Soil/Dirt Compaction	3/17/2023	17	NA	NA	NA	NA	NA	NA				
175	3/9/2023	43	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
176	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	38	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.49	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	42	Moisture Condition, Soil/Dirt Compaction	3/27/2023	60.04	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	17
202	3/9/2023	54	Moisture Condition, Soil/Dirt Compaction	3/17/2023	36	Moisture Condition, Soil/Dirt Compaction	3/27/2023	30.99	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
174	3/9/2023	60	Moisture Condition, Soil/Dirt Compaction	3/17/2023	23	NA	NA	NA	NA	NA	NA				
173	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	28	Moisture Condition, Soil/Dirt Compaction	3/27/2023	7.75	NA	NA	NA				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	40	Moisture Condition, Soil/Dirt Compaction	3/27/2023	58.78	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	13
203	3/9/2023	52	Moisture Condition, Soil/Dirt Compaction	3/17/2023	20	NA	NA	NA	NA	NA	NA				
169	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	37	Moisture Condition, Soil/Dirt Compaction	3/27/2023	16.2	NA	NA	NA				
207	3/9/2023	46	Moisture Condition, Soil/Dirt Compaction	3/17/2023	22	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	55.11	NA	NA	NA	5/11/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	14
168	3/9/2023	51	Moisture Condition, Soil/Dirt Compaction	3/17/2023	32	Moisture Condition, Soil/Dirt Compaction	3/27/2023	8.65	NA	NA	NA				
205	3/9/2023	47	Moisture Condition, Soil/Dirt Compaction	3/17/2023	16	NA	NA	NA	NA	NA	NA				
202	3/9/2023	59	Moisture Condition, Soil/Dirt Compaction	3/17/2023	46	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
206	3/9/2023	50	Moisture Condition, Soil/Dirt Compaction	3/17/2023	18	NA	NA	NA	NA	NA	NA				
204	3/9/2023	56	Moisture Condition, Soil/Dirt Compaction	3/17/2023	26	Moisture Condition, Soil/Dirt Compaction	3/27/2023	15	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15				
204	3/27/2023	55	Moisture Condition, Soil/Dirt Compaction	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
203	3/27/2023	52	Moisture Condition, Soil/Dirt Compaction	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA				
207	3/27/2023	50	Moisture Condition, Soil/Dirt Compaction	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA				
206	3/27/2023	58	Moisture Condition, Soil/Dirt Compaction	4/4/2023	18	NA	NA	NA	NA	NA	NA				
205	3/27/2023	60	Moisture Condition, Soil/Dirt Compaction	4/4/2023	16	NA	NA	NA	NA	NA	NA				
175	3/27/2023	49	Moisture Condition, Soil/Dirt Compaction	4/4/2023	13	NA	NA	NA	NA	NA	NA				
202	3/27/2023	30	Moisture Condition, Soil/Dirt Compaction	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA				
202	4/4/2023	46	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
203	4/4/2023	25	Moisture Condition, Soil/Dirt Compaction	4/13/2023	24	NA	NA	NA	NA	NA	NA				
204	4/4/2023	26	Moisture Condition, Soil/Dirt Compaction	4/13/2023	15	NA	NA	NA	NA	NA	NA				
207	4/4/2023	28	Moisture Condition, Soil/Dirt Compaction	4/13/2023	23	NA	NA	NA	NA	NA	NA				
174	4/17/2023	40	Moisture Condition, Soil/Dirt Compaction	4/27/2023	22	NA	NA	NA	NA	NA	NA				
190	4/17/2023	26	Moisture Condition, Soil/Dirt Compaction	4/27/2023	17	NA	NA	NA	NA	NA	NA				
200	4/17/2023	25	Moisture Condition, Soil/Dirt Compaction	4/27/2023	19	NA	NA	NA	NA	NA	NA				
207	5/1/2023	54	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
210	5/1/2023	26	Moisture Condition, Soil/Dirt Compaction	5/10/2023	19	NA	NA	NA	NA	NA	NA				
202	5/1/2023	29	Moisture Condition, Soil/Dirt Compaction	5/10/2023	21	NA	NA	NA	NA	NA	NA				
208	5/1/2023	43	Moisture Condition, Soil/Dirt Compaction	5/10/2023	23	NA	NA	NA	NA	NA	NA				
201	5/17/2023	30	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
205	5/17/2023	26	Moisture Condition, Soil/Dirt Compaction	5/26/2023	19	NA	NA	NA	NA	NA	NA				
203	5/17/2023	27	Moisture Condition, Soil/Dirt Compaction	5/26/2023	21	NA	NA	NA	NA	NA	NA				
169	5/17/2023	25	Moisture Condition, Soil/Dirt Compaction	5/26/2023	18	NA	NA	NA	NA	NA	NA				
173	5/17/2023	35	Moisture Condition, Soil/Dirt Compaction	5/26/2023	23	NA	NA	NA	NA	NA	NA				
206	5/30/2023	36	Moisture Condition, Soil/Dirt Compaction	6/9/2023	19	NA	NA	NA	NA	NA	NA				
170	5/30/2023	95	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17	NA	NA	NA	NA	NA	NA				
172	5/30/2023	28	Moisture Condition, Soil/Dirt Compaction	6/9/2023	18	NA	NA	NA	NA	NA	NA				
151	5/30/2023	83	Moisture Condition, Soil/Dirt Compaction	6/9/2023	22	NA	NA	NA	NA	NA	NA				
181	5/30/2023	30	Moisture Condition, Soil/Dirt Compaction	6/9/2023	21	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
172	6/13/2023	30	Moisture Condition, Soil/Dirt Compaction	6/22/2023	19	NA	NA	NA	NA	NA	NA				
179	6/13/2023	25	Moisture Condition, Soil/Dirt Compaction	6/22/2023	10	NA	NA	NA	NA	NA	NA				
156	6/13/2023	27	Moisture Condition, Soil/Dirt Compaction	6/22/2023	21	NA	NA	NA	NA	NA	NA				
177	6/13/2023	120	Moisture Condition, Soil/Dirt Compaction	6/22/2023	23	NA	NA	NA	NA	NA	NA				
176	6/27/2023	40	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23	NA	NA	NA	NA	NA	NA				
179	6/27/2023	35	Moisture Condition, Soil/Dirt Compaction	7/7/2023	21	NA	NA	NA	NA	NA	NA				
172	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19	NA	NA	NA	NA	NA	NA				
173	6/27/2023	27	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24	NA	NA	NA	NA	NA	NA				
169	6/27/2023	25	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20	NA	NA	NA	NA	NA	NA				
179	7/10/2023	50	Moisture Condition, Soil/Dirt Compaction	7/20/2023	55	Moisture Condition, Soil/Dirt Compaction	7/28/2023	36	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	24
173	7/10/2023	35	Moisture Condition, Soil/Dirt Compaction	7/20/2023	53	Moisture Condition, Soil/Dirt Compaction	7/28/2023	29	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	23
205	7/10/2023	27	Moisture Condition, Soil/Dirt Compaction	7/20/2023	168	Moisture Condition, Soil/Dirt Compaction	7/28/2023	60	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	21
203	7/10/2023	25	Moisture Condition, Soil/Dirt Compaction	7/20/2023	152	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50	NA	NA	NA	9/11/2023	Improved system vacuum and additional cover	8/3/2023	19
174	7/24/2023	32	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
175	7/24/2023	45	Moisture Condition, Soil/Dirt Compaction	8/3/2023	18	NA	NA	NA	NA	NA	NA				
205	8/8/2023	74	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
206	8/8/2023	38	Moisture Condition, Soil/Dirt Compaction	8/17/2023	24	NA	NA	NA	NA	NA	NA				
169	8/8/2023	27	Moisture Condition, Soil/Dirt Compaction	8/17/2023	21	NA	NA	NA	NA	NA	NA				
170	8/8/2023	29	Moisture Condition, Soil/Dirt Compaction	8/17/2023	22	NA	NA	NA	NA	NA	NA				
175	8/8/2023	30	Moisture Condition, Soil/Dirt Compaction	8/17/2023	19	NA	NA	NA	NA	NA	NA				
206	8/24/2023	120	Moisture Condition, Soil/Dirt Compaction	9/1/2023	377	Moisture Condition, Soil/Dirt Compaction	9/8/2023	23	NA	NA	NA				
176	8/24/2023	76	Moisture Condition, Soil/Dirt Compaction	9/1/2023	210	Moisture Condition, Soil/Dirt Compaction	9/5/2023	13	NA	NA	NA				
175	8/24/2023	68	Moisture Condition, Soil/Dirt Compaction	9/1/2023	380	Moisture Condition, Soil/Dirt Compaction	9/5/2023	11	NA	NA	NA				
174	8/24/2023	28	Moisture Condition, Soil/Dirt Compaction	9/1/2023	406	Moisture Condition, Soil/Dirt Compaction	9/5/2023	15	NA	NA	NA				
202	8/24/2023	31	Moisture Condition, Soil/Dirt Compaction	9/1/2023	220	Moisture Condition, Soil/Dirt Compaction	9/5/2023	19	NA	NA	NA				
201	8/24/2023	48	Moisture Condition, Soil/Dirt Compaction	9/1/2023	230	Moisture Condition, Soil/Dirt Compaction	9/5/2023	18	NA	NA	NA				
181	8/24/2023	29	Moisture Condition, Soil/Dirt Compaction	9/1/2023	180	Moisture Condition, Soil/Dirt Compaction	9/5/2023	17	NA	NA	NA				
207	9/5/2023	26	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.7	NA	NA	NA	NA	NA	NA				
206	9/5/2023	31	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.9	NA	NA	NA	NA	NA	NA				
205	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	23.7	NA	NA	NA	NA	NA	NA				
169	9/5/2023	30	Moisture Condition, Soil/Dirt Compaction	9/15/2023	24.5	NA	NA	NA	NA	NA	NA				
166	9/5/2023	29	Moisture Condition, Soil/Dirt Compaction	9/15/2023	8.0	NA	NA	NA	NA	NA	NA				
154	9/5/2023	28	Moisture Condition, Soil/Dirt Compaction	9/15/2023	7.0	NA	NA	NA	NA	NA	NA				
167	9/19/2023	40	Moisture Condition, Soil/Dirt Compaction	9/29/2023	12.1	NA	NA	NA	NA	NA	NA				
202	9/19/2023	27	Moisture Condition, Soil/Dirt Compaction	9/29/2023	127.0	Moisture Condition, Soil/Dirt Compaction	10/6/2023	43.6	Moisture Condition, Soil/Dirt Compaction	10/13/2023	16	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	16
205	9/19/2023	25	Moisture Condition, Soil/Dirt Compaction	9/29/2023	63.8	Moisture Condition, Soil/Dirt Compaction	10/6/2023	26.9	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	24
204	9/19/2023	28	Moisture Condition, Soil/Dirt Compaction	9/29/2023	44.4	Moisture Condition, Soil/Dirt Compaction	10/6/2023	12.1	NA	NA	NA				
174	9/19/2023	31	Moisture Condition, Soil/Dirt Compaction	9/29/2023	32.9	Moisture Condition, Soil/Dirt Compaction	10/6/2023	29.2	Moisture Condition, Soil/Dirt Compaction	10/13/2023	12	11/20/2023	Installed new vertical wells on West Slope	10/13/2023	12
170	9/19/2023	35	Moisture Condition, Soil/Dirt Compaction	9/29/2023	25.5	Moisture Condition, Soil/Dirt Compaction	10/6/2023	19.6	NA	NA	NA				
201/79	10/3/2023	79	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.5	NA	NA	NA	NA	NA	NA				
202/60	10/3/2023	60	Moisture Condition, Soil/Dirt Compaction	10/13/2023	18.2	NA	NA	NA	NA	NA	NA				
203/37	10/3/2023	37	Moisture Condition, Soil/Dirt Compaction	10/13/2023	19.6	NA	NA	NA	NA	NA	NA				
174/35	10/3/2023	35	Moisture Condition, Soil/Dirt Compaction	10/13/2023	13.3	NA	NA	NA	NA	NA	NA				
169/36	10/3/2023	36	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.4	NA	NA	NA	NA	NA	NA				
170/27	10/3/2023	27	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.2	NA	NA	NA	NA	NA	NA				
206/25	10/3/2023	25	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23	NA	NA	NA	NA	NA	NA				
205/26	10/3/2023	26	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24	NA	NA	NA	NA	NA	NA				
158/145	10/17/2023	145	Moisture Condition, Soil/Dirt Compaction	10/17/2023	12.72	NA	NA	NA	NA	NA	NA				
152/150	10/17/2023	150	Moisture Condition, Soil/Dirt Compaction	10/17/2023	13.82	NA	NA	NA	NA	NA	NA				
206/30	10/17/2023	30	Moisture Condition, Soil/Dirt Compaction	10/17/2023	33.22	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23	NA	NA	NA				
204/29	10/17/2023	29	Moisture Condition, Soil/Dirt Compaction	10/17/2023	18.35	NA	NA	NA	NA	NA	NA				
201/27	10/17/2023	27	Moisture Condition, Soil/Dirt Compaction	10/17/2023	24.50	NA	NA	NA	NA	NA	NA				
202/25	10/17/2023	25	Moisture Condition, Soil/Dirt Compaction	10/17/2023	22.10	NA	NA	NA	NA	NA	NA				
177/151	11/1/2023	151	Moisture Condition, Soil/Dirt Compaction	11/10/2023	24.50	NA	NA	NA	NA	NA	NA				
203/179	11/1/2023	179	Moisture Condition, Soil/Dirt Compaction	11/10/2023	21.95	NA	NA	NA	NA	NA	NA				
206/31	11/1/2023	31	Moisture Condition, Soil/Dirt Compaction	11/10/2023	24.30	NA	NA	NA	NA	NA	NA				
207/28	11/1/2023	28	Moisture Condition, Soil/Dirt Compaction	11/10/2023	23.21	NA	NA	NA	NA	NA	NA				
205/40	11/1/2023	40	Moisture Condition, Soil/Dirt Compaction	11/10/2023	22.71	NA	NA	NA	NA	NA	NA				
176/63	11/14/2023	63	Track walk/compact soil	11/22/2023	24.00	NA	NA	NA	NA	NA	NA				
177/43	11/14/2023	43	Track walk/compact soil	11/22/2023	20.00	NA	NA	NA	NA	NA	NA				
202/115	11/14/2023	115	Track walk/compact soil	11/22/2023	23.00	NA	NA	NA	NA	NA	NA				
174/64	11/14/2023	64	Track walk/compact soil	11/22/2023	18.00	NA	NA	NA	NA	NA	NA				
206/35	11/14/2023	35	Track walk/compact soil	11/22/2023	21.00	NA	NA	NA	NA	NA	NA				
169/28	11/14/2023	28	Track walk/compact soil	11/22/2023	23.00	NA	NA	NA	NA	NA	NA				
170/31	11/14/2023	31	Track walk/compact soil	11/22/2023	22.00	NA	NA	NA	NA	NA	NA				
180/31	11/28/2023	31	Track walk/compact soil	12/7/2023	22.00	NA	NA	NA	NA	NA	NA				
177/56	11/28/2023	56	Track walk/compact soil	12/7/2023	34.00	Moisture Condition, Soil/Dirt Compaction	12/15/2023	24.2	NA	NA	NA				
174/25	11/28/2023	25	Track walk/compact soil	12/7/2023	21.00	NA	NA	NA	NA	NA	NA				
202/43	11/28/2023	43	Track walk/compact soil	12/7/2023	37.00	Moisture Condition, Soil/Dirt Compaction	12/15/2023	16	NA	NA	NA				
206/37	11/28/2023	37	Track walk/compact soil	12/7/2023	32.00	Moisture Condition, Soil/Dirt Compaction	12/15/2023	8.7	NA	NA	NA				
176/28	11/28/2023	28	Track walk/compact soil	12/7/2023	23.00	NA	NA	NA	NA	NA	NA				
175/90	12/12/2023	90	Track walk/compact soil	12/19/2023	22.00	NA	NA	NA	NA	NA	NA				
183/61	12/12/2023	61	Track walk/compact soil	12/19/2023	23.00	NA	NA	NA	NA	NA	NA				
173/65	12/12/2023	65	Track walk/compact soil	12/19/2023	21.00	NA	NA	NA	NA	NA	NA				
202/53	12/12/2023	53	Track walk/compact soil	12/19/2023	18.00	NA	NA	NA	NA	NA	NA				
203/59	12/12/2023	59	Track walk/compact soil	12/19/2023	20.00	NA	NA	NA	NA	NA	NA				
205/44	12/12/2023	44	Track walk/compact soil	12/19/2023	20.00	NA	NA	NA	NA	NA	NA				
180/36	12/27/2023	36	Track walk/compact soil	1/4/2024	15.00	NA	NA	NA	NA	NA	NA				
175/67	12/27/2023	67	Track walk/compact soil	1/4/2024	18.00	NA	NA	NA	NA	NA	NA				
173/34	12/27/2023	34	Track walk/compact soil	1/4/2024	12.00	NA	NA	NA	NA	NA	NA				
203/38	12/27/2023	38	Track walk/compact soil	1/4/2024	16.00	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
169/30	12/27/2023	30	Track walk/compact soil	1/4/2024	22.00	NA	NA	NA	NA	NA	NA				
Instantaneous (Monthly)															
201/Y1	1/25/2023	700	Moisture Condition, Soil/Dirt Compaction	2/2/2023	263	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	358				
205/Y21	1/25/2023	764	Moisture Condition, Soil/Dirt Compaction	2/2/2023	194	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	299				
214/Y22	1/25/2023	802	Moisture Condition, Soil/Dirt Compaction	2/2/2023	299	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	106				
214/Y23	1/25/2023	998	Moisture Condition, Soil/Dirt Compaction	2/2/2023	157	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	110				
202/Y41	1/25/2023	3,028	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	458				
202/Y42	1/25/2023	4,263	Moisture Condition, Soil/Dirt Compaction	2/2/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	406				
215/Y43	1/25/2023	6,519	Moisture Condition, Soil/Dirt Compaction	2/2/2023	483	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	398				
215/Y44	1/25/2023	963	Moisture Condition, Soil/Dirt Compaction	2/2/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	164				
203/Y61	1/25/2023	4,652	Moisture Condition, Soil/Dirt Compaction	2/2/2023	409	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	410				
203/Y62	1/25/2023	778	Moisture Condition, Soil/Dirt Compaction	2/2/2023	54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	68				
203/Y63	1/25/2023	2,465	Moisture Condition, Soil/Dirt Compaction	2/2/2023	479	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	94				
211/Y63	1/25/2023	1,237	Moisture Condition, Soil/Dirt Compaction	2/2/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	2/21/2023	123				
201/Y21	2/23/2023	2,169	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	185	Moisture Condition, Soil/Dirt Compaction	3/24/2023	121				
175/Y22	2/23/2023	964	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,000	Moisture Condition, Soil/Dirt Compaction	3/13/2023	1300	Moisture Condition, Soil/Dirt Compaction	3/24/2023	484	4/27/2023	Increased lateral and header lines to provide more vacuum to area wells including H-1768 and H-1960.	4/19/2023, 4/17/23	10
175/Y23	2/23/2023	3,654	Moisture Condition, Soil/Dirt Compaction	3/3/2023	3,500	Moisture Condition, Soil/Dirt Compaction	3/13/2023	100	Moisture Condition, Soil/Dirt Compaction	3/24/2023	100				
202/Y41	2/23/2023	36,201	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,250	Moisture Condition, Soil/Dirt Compaction	3/13/2023	638	Moisture Condition, Soil/Dirt Compaction	3/24/2023	235	4/27/2023	Installed deep trench collector TC-2382	4/5/2023, 4/17/23	8
202/Y42	2/23/2023	1,678	Moisture Condition, Soil/Dirt	3/3/2023	2,000	Moisture Condition, Soil/Dirt	3/13/2023	836	Moisture Condition,	3/24/2023	441	4/27/2023	Installed deep trench	4/5/2023, 4/17/23	8
202/Y43	2/23/2023	843	Moisture Condition, Soil/Dirt Compaction	3/3/2023	1,505	Moisture Condition, Soil/Dirt Compaction	3/13/2023	190	Moisture Condition, Soil/Dirt Compaction	3/24/2023	398				
169/Y61	2/23/2023	15,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	9,999	Moisture Condition, Soil/Dirt Compaction	3/13/2023	720	Moisture Condition, Soil/Dirt Compaction	3/24/2023	215	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	17
208/Y121	2/23/2023	1,000	Moisture Condition, Soil/Dirt Compaction	3/3/2023	685	Moisture Condition, Soil/Dirt Compaction	3/13/2023	135	Moisture Condition, Soil/Dirt Compaction	3/24/2023	380				
208/Y122	2/23/2023	1,200	Moisture Condition, Soil/Dirt Compaction	3/3/2023	950	Moisture Condition, Soil/Dirt Compaction	3/13/2023	580	Moisture Condition, Soil/Dirt Compaction	3/24/2023	291	4/27/2023	Connected horizontal collector H-2277W	3/27/2023, 4/17/23	23
207/Y1	3/31/2023	900	Moisture Condition, Soil/Dirt Compaction	4/10/2023	22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	37				
207/Y2	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	129				
202/Y3	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	98				
201/Y4	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	209				
175/Y5	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	461	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	162				
178/Y11	3/31/2023	2,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	199				
179/Y12	3/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	4/10/2023	15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	143				
175/Y13	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	425	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	398				
174/Y14	3/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	4/10/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	82				
174/Y15	3/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	4/10/2023	300	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	283				
202/Y16	3/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	373	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	112				
203/Y27	3/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	4/10/2023	218	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	316				
203/Y18	3/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	4/10/2023	68.88	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	152				
204/Y19	3/31/2023	500	Moisture Condition, Soil/Dirt Compaction	4/10/2023	27.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	30				
204/Y20	3/31/2023	520	Moisture Condition, Soil/Dirt Compaction	4/10/2023	173	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	4/24/2023	23				
H-1952C	4/6/2023	1,500	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	397	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	247				
H-1754N	4/6/2023	1,000	Increased applied vacuum with higher system vacuum. Adjusted well H-1773B. Added new soil and compacted area.	4/14/2023	419	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301				
H-1964C	4/6/2023	550	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	242	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256				
L-32	4/6/2023	1,100	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	320	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	283				
D-180	4/6/2023	4,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	272	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	194				
H-1962S	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Repaired broken well casing. Added new soil and compacted around well casing.	4/14/2023	252	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	271				
H-2116W	4/6/2023	3,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	438	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	406				
H-1773B	4/6/2023	700	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	386	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	382				
H-1965AR	4/6/2023	7,000	Reconnected H-1758S on 4/13/23 and applied vacuum. Added new soil and compacted around well casing.	4/14/2023	391	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	138				
CV-2201	4/6/2023	543	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	266	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	44				
H-1963A	4/6/2023	951	Increased applied vacuum with higher system vacuum. Adjusted well. Added new soil and compacted around well casing.	4/14/2023	342	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	203				
H-1966S	4/6/2023	10,000	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	141				
CV-2006	4/6/2023	800	Increased applied vacuum with higher system vacuum. Added new soil and compacted around well casing.	4/14/2023	348	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/5/2023	121				
189/Y61	4/26/2023	570	Moisture Condition, Soil/Dirt Compaction	5/5/2023	346	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	39				
180/Y62	4/26/2023	1,300	Moisture Condition, Soil/Dirt Compaction	5/5/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	215				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
181/Y63	4/26/2023	2,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	414	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	483				
150/Y64	4/26/2023	3,400	Moisture Condition, Soil/Dirt Compaction	5/5/2023	108	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	411				
150/Y65	4/26/2023	7,891	Moisture Condition, Soil/Dirt Compaction	5/5/2023	96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	489				
156/Y66	4/26/2023	813	Moisture Condition, Soil/Dirt Compaction	5/5/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	92				
145/Y67	4/26/2023	1,047	Moisture Condition, Soil/Dirt Compaction	5/5/2023	256	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	52				
145/Y68	4/26/2023	685	Moisture Condition, Soil/Dirt Compaction	5/5/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	23				
173/Y1	4/26/2023	1,582	Moisture Condition, Soil/Dirt Compaction	5/5/2023	284	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	291				
174/Y2	4/26/2023	9,999	Moisture Condition, Soil/Dirt Compaction	5/5/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	493				
176/Y21	4/26/2023	930	Moisture Condition, Soil/Dirt Compaction	5/5/2023	403	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	57				
176/Y22	4/26/2023	600	Moisture Condition, Soil/Dirt Compaction	5/5/2023	221	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	74				
176/Y23	4/26/2023	734	Moisture Condition, Soil/Dirt Compaction	5/5/2023	143	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	70				
176/Y24	4/26/2023	860	Moisture Condition, Soil/Dirt Compaction	5/5/2023	98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	111				
175/Y25	4/26/2023	710	Moisture Condition, Soil/Dirt Compaction	5/5/2023	105	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	134				
175/Y26	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	316	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	87				
175/Y27	4/26/2023	990	Moisture Condition, Soil/Dirt Compaction	5/5/2023	84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	106				
156/Y41	4/26/2023	1,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	76	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	88				
179/Y42	4/26/2023	900	Moisture Condition, Soil/Dirt Compaction	5/5/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	73				
184/Y43	4/26/2023	1,200	Moisture Condition, Soil/Dirt Compaction	5/5/2023	262	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	159				
184/Y44	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	136	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	132				
184/Y45	4/26/2023	1,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	156				
187/Y46	4/26/2023	2,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	288	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	406				
84/Y47	4/26/2023	3,000	Moisture Condition, Soil/Dirt Compaction	5/5/2023	412	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	371				
84/Y48	4/26/2023	2,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	394	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	353				
84/Y49	4/26/2023	3,500	Moisture Condition, Soil/Dirt Compaction	5/5/2023	473	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	5/24/2023	216				
159/Y1	5/30/2023	500	Moisture Condition, Soil/Dirt Compaction	6/9/2023	63.11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	51				
161/Y2	5/30/2023	30,000	Moisture Condition, Soil/Dirt Compaction	6/9/2023	248	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	485				
157/Y31	5/30/2023	538	Moisture Condition, Soil/Dirt Compaction	6/9/2023	17.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	173				
157/Y32	5/30/2023	576	Moisture Condition, Soil/Dirt Compaction	6/9/2023	26.04	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	165				
150/Y33	5/30/2023	655	Moisture Condition, Soil/Dirt Compaction	6/9/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	62				
145/Y34	5/30/2023	511	Moisture Condition, Soil/Dirt Compaction	6/9/2023	204	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	186				
155/Y21	5/30/2023	653	Moisture Condition, Soil/Dirt Compaction	6/9/2023	53.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	83				
90/Y22	5/30/2023	5,530	Moisture Condition, Soil/Dirt Compaction	6/9/2023	39.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	357				
159/Y11	5/30/2023	855	Moisture Condition, Soil/Dirt Compaction	6/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	323				
83/Y23	5/30/2023	821	Moisture Condition, Soil/Dirt Compaction	6/9/2023	139	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	57				
81/Y25	5/30/2023	771	Moisture Condition, Soil/Dirt Compaction	6/9/2023	369	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/22/2023	340				
170/H-1564N	6/1/2023	8,000	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	175				
170/H-1964S	6/1/2023	618	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	3.45				
170/H-1405E	6/1/2023	699	Well Adjusted. Added soil and compacted (6/8/23).	6/9/2023	14	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	376				
151/H-1773B	6/1/2023	719	Added soil and trackwalked	6/9/2023	11	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	345				
151/H-1773B	6/1/2023	4,000	Added soil and trackwalked	6/9/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	148				
151/H-1773B	6/1/2023	27,000	Added soil and trackwalked	6/9/2023	28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	205				
151/H-1773B	6/1/2023	1,255	Added soil and trackwalked	6/9/2023	19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	183				
156/TC-2380C	6/1/2023	NA	Added soil and trackwalked	6/9/2023	7.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	6/29/2023	25				
176/Y1	6/29/2023	700	Moisture Condition, Soil/Dirt Compaction	7/7/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	220				
176/Y2	6/29/2023	800	Moisture Condition, Soil/Dirt Compaction	7/7/2023	67.40	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	165				
172/Y3	6/29/2023	660	Moisture Condition, Soil/Dirt Compaction	7/7/2023	12.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	89				
187/Y46	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	59.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	26				
150/Y5	6/29/2023	525	Moisture Condition, Soil/Dirt Compaction	7/7/2023	25.83	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	152				
149/Y6	6/29/2023	1,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	262				
149/Y7	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	325				
149/Y8	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,552	Additional Soil/Dirt Compaction	7/14/2023	189	Moisture Condition, Soil/Dirt Compaction	7/28/2023	189				
53/Y9	6/29/2023	1,300	Moisture Condition, Soil/Dirt Compaction	7/7/2023	96.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	231				
81/Y10	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	1,250	Additional Soil/Dirt Compaction. Adjust Well H-2167B	7/14/2023	195	Moisture Condition, Soil/Dirt Compaction	7/28/2023	195				
172/Y11	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
157/Y12	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	20.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
152/Y13	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	7.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	56				
148/Y14	6/29/2023	1,900	Moisture Condition, Soil/Dirt Compaction	7/7/2023	223	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	15				
149/Y15	6/29/2023	500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	19.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	37				
150/Y16	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	39.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	80				
33/Y17	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	61.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
35/Y18	6/29/2023	600	Moisture Condition, Soil/Dirt Compaction	7/7/2023	48.62	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	168				
176/Y21	6/29/2023	1,200	Moisture Condition, Soil/Dirt Compaction	7/7/2023	Unable to Monitor (repair work being completed)	Additional Soil/Dirt Compaction	7/14/2023	164	Moisture Condition, Soil/Dirt Compaction	7/28/2023	164				
176/Y22	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	43.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	107				
181/Y23	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	31.95	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	66				
182/Y24	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	44.52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	43				
181/Y25	6/29/2023	3,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	51				
201/Y26	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	38.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	23				
201/Y27	6/29/2023	1,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	52.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
175/Y28	6/29/2023	2,000	Moisture Condition, Soil/Dirt Compaction	7/7/2023	93.67	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	53				
172/Y29	6/29/2023	2,500	Moisture Condition, Soil/Dirt Compaction	7/7/2023	23.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	118				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
183/Y31	6/29/2023	1,570	Moisture Condition, Soil/Dirt Compaction	7/7/2023	28.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	25				
183/Y32	6/29/2023	2,059	Moisture Condition, Soil/Dirt Compaction	7/7/2023	51.73	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	42				
183/Y33	6/29/2023	710	Moisture Condition, Soil/Dirt Compaction	7/7/2023	78.18	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	45				
180/Y34	6/29/2023	1,026	Moisture Condition, Soil/Dirt Compaction	7/7/2023	24.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	32				
180/Y35	6/29/2023	943	Moisture Condition, Soil/Dirt Compaction	7/7/2023	27.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	64				
175/Y36	6/29/2023	1,284	Moisture Condition, Soil/Dirt Compaction	7/7/2023	85.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	109				
174/Y37	6/29/2023	3,012	Moisture Condition, Soil/Dirt Compaction	7/7/2023	95.78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	84				
174/Y38	6/29/2023	4,604	Moisture Condition, Soil/Dirt Compaction	7/7/2023	237	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	7/28/2023	50				
90/Y39	6/29/2023	1,148	Moisture Condition, Soil/Dirt Compaction	7/7/2023	3,961	Additional Soil/Dirt Compaction	7/14/2023	147	Moisture Condition, Soil/Dirt Compaction	7/28/2023	147				
150/Y11	7/31/2023	800	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
150/Y12	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	142	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
149/Y13	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	58				
81/Y14	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	306	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
81/Y15	7/31/2023	9,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	211	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	60				
59/Y16	7/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	146	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
32/Y17	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	289	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
32/Y18	7/31/2023	500	Moisture Condition, Soil/Dirt Compaction	8/9/2023	301	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	15				
53/Y31	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	410	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	19				
81/Y32	7/31/2023	900	Moisture Condition, Soil/Dirt Compaction	8/9/2023	341	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	38				
53/Y33	7/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	58	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
81/Y34	7/31/2023	1,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	79	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	9				
59/Y35	7/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	8/9/2023	201	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	7				
32/Y36	7/31/2023	550	Moisture Condition, Soil/Dirt Compaction	8/9/2023	236	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	31				
152/Y21	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	294	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	29				
152/Y22	7/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	8/9/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	111				
149/Y23	7/31/2023	2,100	Moisture Condition, Soil/Dirt Compaction	8/9/2023	214	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	50				
149/Y24	7/31/2023	600	Moisture Condition, Soil/Dirt Compaction	8/9/2023	310	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	24				
149/Y25	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	137	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	8				
83/Y26	7/31/2023	3,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	219	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	123				
169/Y1	7/31/2023	2,021	Moisture Condition, Soil/Dirt Compaction	8/9/2023	240	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	73				
170/Y2	7/31/2023	506	Moisture Condition, Soil/Dirt Compaction	8/9/2023	91	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	33				
170/Y3	7/31/2023	526	Moisture Condition, Soil/Dirt Compaction	8/9/2023	99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
170/Y3	7/31/2023	622	Moisture Condition, Soil/Dirt Compaction	8/9/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	16				
166/Y4	7/31/2023	543	Moisture Condition, Soil/Dirt Compaction	8/9/2023	78	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	22				
166/Y5	7/31/2023	528	Moisture Condition, Soil/Dirt Compaction	8/9/2023	81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	52				
166/Y6	7/31/2023	508	Moisture Condition, Soil/Dirt Compaction	8/9/2023	29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	36				
166/Y7	7/31/2023	9,003	Moisture Condition, Soil/Dirt Compaction	8/9/2023	434	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	12				
159/Y9	7/31/2023	5,000	Moisture Condition, Soil/Dirt Compaction	8/9/2023	276	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	11				
154/Y10	7/31/2023	9,453	Moisture Condition, Soil/Dirt Compaction	8/9/2023	304	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	27				
153/Y41	7/31/2023	1,353	Moisture Condition, Soil/Dirt Compaction	8/9/2023	125	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	8/29/2023	103				
150/Y1	8/31/2023	560	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	3.5				
150/Y2	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	21.5				
177/Y3	8/31/2023	700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	147	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	17.5				
176/Y44	8/31/2023	525	Moisture Condition, Soil/Dirt Compaction	9/8/2023	52	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	70.3				
189/Y5	8/31/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/8/2023	166	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	85.2				
205/Y6	8/31/2023	780	Moisture Condition, Soil/Dirt Compaction	9/8/2023	210	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	34.5				
205/Y7	8/31/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	466	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	27.1				
206/Y11	8/31/2023	600	Moisture Condition, Soil/Dirt Compaction	9/8/2023	429	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	89.7				
206/Y12	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	160	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	107.0				
82/Y21	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	241	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	244.0				
81/Y22	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	408	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	361.0				
149/Y23	8/31/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/8/2023	282	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	372.0				
149/Y24	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	102	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	157.0				
149/Y25	8/31/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	447	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	237.0				
154/Y26	8/31/2023	5,500	Moisture Condition, Soil/Dirt Compaction	9/8/2023	498	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	51.3				
155/Y27	8/31/2023	900	Moisture Condition, Soil/Dirt Compaction	9/8/2023	209	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	71.5				
154/Y28	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	375.0				
154/Y29	8/31/2023	6,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	491	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	118.0				
159/Y30	8/31/2023	4,000	Moisture Condition, Soil/Dirt Compaction	9/8/2023	387	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	220.0				
83/Y31	8/31/2023	845	Moisture Condition, Soil/Dirt Compaction	9/8/2023	488	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	435.0				
84/Y32	8/31/2023	960	Moisture Condition, Soil/Dirt Compaction	9/8/2023	20	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	353.0				
90/Y33	8/31/2023	2,280	Moisture Condition, Soil/Dirt Compaction	9/8/2023	420	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
90/Y34	8/31/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/8/2023	497	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	168.0				
161/Y35	8/31/2023	945	Moisture Condition, Soil/Dirt Compaction	9/8/2023	250	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	111.0				
161/Y36	8/31/2023	860	Moisture Condition, Soil/Dirt Compaction	9/8/2023	377	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	95.7				
163/Y37	8/31/2023	2,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	411	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	13.8				
166/Y38	8/31/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	6.4				
166/Y39	8/31/2023	8,700	Moisture Condition, Soil/Dirt Compaction	9/8/2023	437	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	4.3				
166/Y40	8/31/2023	5,800	Moisture Condition, Soil/Dirt Compaction	9/8/2023	489	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	9/25/2023	246.0				
201/Y81	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	103.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	259.0				
202/Y82	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	16.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	102.0				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
201/Y83	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	29.13	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	58.0				
205/Y84	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	50.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,134.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24.2				
206/Y85	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	38.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	473.0				
173/Y61	9/13/2023	1,700	Moisture Condition, Soil/Dirt Compaction	9/22/2023	23.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	388.0				
170/Y62	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	45.0				
158/Y63	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	5.19	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	131.0				
149/Y64	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	58.60	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	483.0				
149/Y65	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	234.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	270.0				
149/Y66	9/13/2023	1,600	Moisture Condition, Soil/Dirt Compaction	9/22/2023	109.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	248.0				
156/Y41	9/13/2023	720	Moisture Condition, Soil/Dirt Compaction	9/22/2023	15.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	94.0				
172/Y42	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,397.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21.1				
175/Y43	9/13/2023	510	Moisture Condition, Soil/Dirt Compaction	9/22/2023	335.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	69.0				
175/Y44	9/13/2023	628	Moisture Condition, Soil/Dirt Compaction	9/22/2023	53.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	80.0				
181/Y45	9/13/2023	520	Moisture Condition, Soil/Dirt Compaction	9/22/2023	75.43	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	126.0				
181/Y46	9/13/2023	640	Moisture Condition, Soil/Dirt Compaction	9/22/2023	151.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	138.0				
181/Y47	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	255.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	413.0				
181/Y48	9/13/2023	1,300	Moisture Condition, Soil/Dirt Compaction	9/22/2023	33.41	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	353.0				
176/Y49	9/13/2023	1,400	Moisture Condition, Soil/Dirt Compaction	9/22/2023	51.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	273.0				
176/Y50	9/13/2023	635	Moisture Condition, Soil/Dirt Compaction	9/22/2023	101.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	89.0				
178/Y51	9/13/2023	1,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	217.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	73.0				
184/Y21	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	275.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	728.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.89	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23.2				
150/Y22	9/13/2023	1,500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	21.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	78.0				
150/Y23	9/13/2023	2,100	Moisture Condition, Soil/Dirt Compaction	9/22/2023	35.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	51.0				
145/Y24	9/13/2023	1,800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	4.17	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	194.0				
77/Y25	9/13/2023	900	Moisture Condition, Soil/Dirt Compaction	9/22/2023	18.03	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	206.0				
78/Y26	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	144.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	1,053.0				
			Moisture Condition, Soil/Dirt Compaction	10/20/2023	20.99	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18.8				
78/Y27	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	73.63	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	431.0				
146/Y28	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	19.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	455.0				
191/Y1	9/13/2023	1,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	31.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	239.0				
191/Y2	9/13/2023	1,200	Moisture Condition, Soil/Dirt Compaction	9/22/2023	125.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	171.0				
192/Y3	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	243.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	38.0				
193/Y4	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	267.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	83.0				
193/Y5	9/13/2023	800	Moisture Condition, Soil/Dirt Compaction	9/22/2023	147.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	176.0				
187/Y6	9/13/2023	2,000	Moisture Condition, Soil/Dirt Compaction	9/22/2023	246.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	208.0				
153/Y67	9/13/2023	500	Moisture Condition, Soil/Dirt Compaction	9/22/2023	154.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/11/2023	156.0				
191/Y81	9/27/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	572.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.91	Moisture Condition, Soil/Dirt Compaction	10/19/2023	58				
189/Y82	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	96.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	31				
189/Y83	9/27/2023	2,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	844.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	22.5	Moisture Condition, Soil/Dirt Compaction	10/19/2023	392				
181/Y84	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	50.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	106				
201/Y85	9/27/2023	1,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	239.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	254				
201/Y86	9/27/2023	800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	74.16	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	93				
203/Y87	9/27/2023	1,132	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.12	Moisture Condition, Soil/Dirt Compaction	10/19/2023	78				
205/Y88	9/27/2023	8,900	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,322.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.75	Moisture Condition, Soil/Dirt Compaction	10/19/2023	487				
206/Y89	9/27/2023	1,730	Moisture Condition, Soil/Dirt Compaction	10/6/2023	2,159.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.52	Moisture Condition, Soil/Dirt Compaction	10/19/2023	69				
185/Y61	9/27/2023	835	Moisture Condition, Soil/Dirt Compaction	10/6/2023	126.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	122				
177/Y62	9/27/2023	521	Moisture Condition, Soil/Dirt Compaction	10/6/2023	67.31	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	100				
177/Y63	9/27/2023	615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	104.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	216				
171/Y64	9/27/2023	815	Moisture Condition, Soil/Dirt Compaction	10/6/2023	256.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	43				
182/Y11	9/27/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,631.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.86	Moisture Condition, Soil/Dirt Compaction	10/19/2023	324				
203/Y12	9/27/2023	2,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,249.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	14.75	Moisture Condition, Soil/Dirt Compaction	10/19/2023	307				
159/Y01	9/27/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/6/2023	98.50	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	271				
154/Y02	9/27/2023	1,128	Moisture Condition, Soil/Dirt Compaction	10/6/2023	75.06	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	51				
152/Y03	9/27/2023	5,599	Moisture Condition, Soil/Dirt Compaction	10/6/2023	283.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	492				
152/Y04	9/27/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/6/2023	20.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	63				
170/Y41	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	966.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.42	Moisture Condition, Soil/Dirt Compaction	10/19/2023	21				
176/Y42	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	714.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	15.98	Moisture Condition, Soil/Dirt Compaction	10/19/2023	233				
183/Y43	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,008.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	18.18	Moisture Condition, Soil/Dirt Compaction	10/19/2023	163				
183/Y44	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	847.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.32	Moisture Condition, Soil/Dirt Compaction	10/19/2023	111				
173/Y45	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	680.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.5	Moisture Condition, Soil/Dirt Compaction	10/19/2023	72				
168/Y46	9/27/2023	500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,352.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	21.45	Moisture Condition, Soil/Dirt Compaction	10/19/2023	79				
166/Y71	9/27/2023	1,953	Moisture Condition, Soil/Dirt Compaction	10/6/2023	382.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	224				
165/Y72	9/27/2023	2,615	Moisture Condition, Soil/Dirt Compaction	10/6/2023	460.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	281				
154/Y73	9/27/2023	1,205	Moisture Condition, Soil/Dirt Compaction	10/6/2023	324.00	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	10/19/2023	132				
149/Y74	9/27/2023	8,500	Moisture Condition, Soil/Dirt Compaction	10/6/2023	1,100.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	24.31	Moisture Condition, Soil/Dirt Compaction	10/19/2023	478				
149/Y75	9/27/2023	7,800	Moisture Condition, Soil/Dirt Compaction	10/6/2023	759.00	Moisture Condition, Soil/Dirt Compaction	10/13/2023	23.54	Moisture Condition, Soil/Dirt Compaction	10/19/2023	456				
184/Y1	10/11/2023	600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	14.96	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
184/Y2	10/11/2023	725	Moisture Condition, Soil/Dirt Compaction	10/20/2023	55.26	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
183/Y3	10/11/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	50.35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
183/Y4	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21				
183/Y5	10/11/2023	1,250	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
187/Y6	10/11/2023	650	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
187/Y7	10/11/2023	715	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	15				
156/Y51	10/11/2023	5,600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	134	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
152/Y52	10/11/2023	9,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	220	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
146/Y53	10/11/2023	4,800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	95.4	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
147/Y54	10/11/2023	5,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	75.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	20				
152/Y55	10/11/2023	5,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
157/Y56	10/11/2023	4,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
202/Y31	10/11/2023	1,300	Moisture Condition, Soil/Dirt Compaction	10/20/2023	32.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
202/Y32	10/11/2023	1,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	163	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	16				
202/Y33	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
203/Y34	10/11/2023	1,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
181/Y11	10/11/2023	600	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.45	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	12				
201/Y12	10/11/2023	2,000	Moisture Condition, Soil/Dirt Compaction	10/20/2023	32.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
179/Y13	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	109	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
77/Y14	10/11/2023	800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	10				
201/Y21	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	45.64	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
101/Y22	10/11/2023	1,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	65.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
172/Y23	10/11/2023	1,500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	23				
172/Y24	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	34.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
173/Y25	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
175/Y26	10/11/2023	900	Moisture Condition, Soil/Dirt Compaction	10/20/2023	22.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
175/Y27	10/11/2023	2,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	101	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	15				
175/Y28	10/11/2023	500	Moisture Condition, Soil/Dirt Compaction	10/20/2023	17.55	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	17				
204/Y61	10/11/2023	2,800	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.8	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	19				
208/Y62	10/11/2023	3,840	Moisture Condition, Soil/Dirt Compaction	10/20/2023	21.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	13				
208/Y63	10/11/2023	3,200	Moisture Condition, Soil/Dirt Compaction	10/20/2023	19.53	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	16				
165/Y64	10/11/2023	5,100	Moisture Condition, Soil/Dirt Compaction	10/20/2023	24.84	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	13				
163/Y65	10/11/2023	4,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	132	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	18				
165/Y66	10/11/2023	2,700	Moisture Condition, Soil/Dirt Compaction	10/20/2023	23.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	21				
165/Y67	10/11/2023	1,650	Moisture Condition, Soil/Dirt Compaction	10/20/2023	19.54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/9/2023	24				
149/Y61	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.31	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	125				
149/Y62	10/25/2023	1,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	22.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	43				
149/Y63	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	17.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	61				
180/Y11	10/25/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	20				
180/Y12	10/25/2023	700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	24.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	20				
180/Y13	10/25/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	18.65	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	125				
181/Y14	10/25/2023	700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.55	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	41				
179/Y15	10/25/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	30				
150/Y16	10/25/2023	650	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.33	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	23				
165/Y51	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	15				
160/Y52	10/25/2023	800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	34				
90/Y53	10/25/2023	8,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.57	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	72				
155/Y54	10/25/2023	6,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	43				
174/Y31	10/25/2023	2,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.05	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	120				
174/Y32	10/25/2023	1,800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	36.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	85				
202/Y33	10/25/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/3/2023	41.81	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	21				
205/Y41	10/25/2023	600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	37.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	165				
205/Y42	10/25/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	33.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	325				
192/Y1	10/25/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	21.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	45				
192/Y2	10/25/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	18.59	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	18				
192/Y3	10/25/2023	800	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.28	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	26				
192/Y4	10/25/2023	1,600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	15.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	17				
191/Y5	10/25/2023	2,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	23.22	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	38				
189/Y6	10/25/2023	1,700	Moisture Condition, Soil/Dirt Compaction	11/3/2023	17.85	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	26				
189/Y7	10/25/2023	1,400	Moisture Condition, Soil/Dirt Compaction	11/3/2023	22.98	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	41				
187/Y8	10/25/2023	1,600	Moisture Condition, Soil/Dirt Compaction	11/3/2023	19.54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	20				
184/Y9	10/25/2023	2,500	Moisture Condition, Soil/Dirt Compaction	11/3/2023	20.12	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	15				
184/Y10	10/25/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/3/2023	33.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	11/21/2023	34				
176/CV2303	11/8/2023	672	Increased applied vacuum to well CV-2303. Added and compacted soil around casing.	11/17/2023	180	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	34				
177/H1964C	11/8/2023	1,216	Increased applied vacuum to well H-1964C. Added and compacted soil around casing.	11/17/2023	342	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	206				
174/CV2339	11/8/2023	1,900	Verified maximum vacuum applied and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	156	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	319				
202/CV1532A	11/8/2023	945	Verified maximum vacuum applied and adjusted adjacent wells. Remonitored 11/17/23 with higher vacuum applied. Added and compacted soil around casing.	11/17/2023	2000	Verified maximum vacuum applied and adjusted adjacent wells. Installed well bore seal, added and compacted soil around casing.	11/28/2023	36	Moisture Condition, Soil/Dirt Compaction	12/7/2023	102				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
169/CV1532	11/8/2023	800	Increased applied vacuum to well CV-1532. Added and compacted soil around casing.	11/17/2023	83	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	44				
203/CV1534A	11/8/2023	1,385	Verified maximum vacuum applied and adjusted adjacent wells. Remonitored 11/15/23 with higher vacuum applied. Added and compacted soil around casing.	11/17/2023	800	Verified maximum vacuum applied and adjusted adjacent wells. Installed well bore seal, added and compacted soil around casing.	11/28/2023	7	Moisture Condition, Soil/Dirt Compaction	12/7/2023	170				
203/CV1534	11/8/2023	985	Adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	100	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	149				
202/CV2354	11/8/2023	1,136	Verified applied vacuum and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	40	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	66				
202/Surface	11/8/2023	1,000	Scrim cover over area. Unable to safely access for follow-up monitoring.	12/7/2023	84.13	N/A	N/A	NA	Moisture Condition, Soil/Dirt Compaction	1/12/2024	42				
175/CV2353	11/8/2023	1,200	Verified maximum vacuum applied and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	3700	Verified maximum vacuum applied and adjusted adjacent wells. Installed well bore seal, added and compacted soil around casing.	11/28/2023	22.3	Moisture Condition, Soil/Dirt Compaction	12/7/2023	64				
174/CV2342A	11/8/2023	669	Verified maximum vacuum applied and adjusted adjacent wells. Added and compacted soil around casing.	11/17/2023	470	N/A	N/A	N/A	Moisture Condition, Soil/Dirt Compaction	12/7/2023	22				
83/Y161	11/10/2023	1,900	Moisture Condition, Soil/Dirt Compaction	11/20/2023	34.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	350				
83/Y162	11/10/2023	3,100	Moisture Condition, Soil/Dirt Compaction	11/20/2023	47.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	175				
83/Y163	11/10/2023	21,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	64.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	401				
88/Y164	11/10/2023	9,999	Moisture Condition, Soil/Dirt Compaction	11/20/2023	71.15	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	455				
89/Y165	11/10/2023	2,300	Moisture Condition, Soil/Dirt Compaction	11/20/2023	52.51	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	421				
96/Y166	11/10/2023	700	Moisture Condition, Soil/Dirt Compaction	11/20/2023	27.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	126				
193/Y167	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	81.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	223				
192/Y168	11/10/2023	800	Moisture Condition, Soil/Dirt Compaction	11/20/2023	91.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	158				
192/Y169	11/10/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/20/2023	71.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	474				
165/Y103	11/10/2023	547	Moisture Condition, Soil/Dirt Compaction	11/20/2023	81.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	110				
78/Y1	11/10/2023	13,692	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.61	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	461				
77/Y25	11/10/2023	7,331	Moisture Condition, Soil/Dirt Compaction	11/20/2023	51.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	455				
150/Y33	11/10/2023	4,091	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.37	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	319				
187/Y4	11/10/2023	5,230	Moisture Condition, Soil/Dirt Compaction	11/20/2023	77.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	326				
187/Y5	11/10/2023	28,624	Moisture Condition, Soil/Dirt Compaction	11/20/2023	35.47	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	419				
184/Y6	11/10/2023	669	Moisture Condition, Soil/Dirt Compaction	11/20/2023	7.32	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	325				
179/Y7	11/10/2023	765	Moisture Condition, Soil/Dirt Compaction	11/20/2023	5.24	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	198				
179/Y8	11/10/2023	8,563	Moisture Condition, Soil/Dirt Compaction	11/20/2023	21.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	226				
180/Y9	11/10/2023	515	Moisture Condition, Soil/Dirt Compaction	11/20/2023	37.48	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	117				
180/Y10	11/10/2023	6,892	Moisture Condition, Soil/Dirt Compaction	11/20/2023	15.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	482				
183/Y11	11/10/2023	2,324	Moisture Condition, Soil/Dirt Compaction	11/20/2023	13.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	342				
189/Y12	11/10/2023	3,642	Moisture Condition, Soil/Dirt Compaction	11/20/2023	68.72	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	232				
189/Y13	11/10/2023	3,105	Moisture Condition, Soil/Dirt Compaction	11/20/2023	17.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	471				
146/Y41	11/10/2023	680	Moisture Condition, Soil/Dirt Compaction	11/20/2023	51.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	123				
147/Y42	11/10/2023	530	Moisture Condition, Soil/Dirt Compaction	11/20/2023	43.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	99				
147/Y43	11/10/2023	692	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	43				
151/Y44	11/10/2023	702	Moisture Condition, Soil/Dirt Compaction	11/20/2023	25.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	36				
156/Y45	11/10/2023	1,292	Moisture Condition, Soil/Dirt Compaction	11/20/2023	50.25	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	204				
176/Y46	11/10/2023	19,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	75.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	462				
173/Y47	11/10/2023	4,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.29	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	458				
175/Y48	11/10/2023	6,780	Moisture Condition, Soil/Dirt Compaction	11/20/2023	17.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	396				
201/Y49	11/10/2023	1,250	Moisture Condition, Soil/Dirt Compaction	11/20/2023	16.02	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	401				
148/Y81	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.21	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	248				
149/Y82	11/10/2023	500	Moisture Condition, Soil/Dirt Compaction	11/20/2023	30.27	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	70				
149/Y83	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	40.38	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	101				
154/Y84	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	53.35	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	24				
154/Y85	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	121	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	13				
153/Y86	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	91.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	137				
158/Y87	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	50.39	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	464				
159/Y88	11/10/2023	2,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	18.61	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	429				
166/Y89	11/10/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/20/2023	30.75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	14				
170/Y90	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	19.71	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	256				
168/Y91	11/10/2023	8,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	39.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	180				
169/Y92	11/10/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	13.42	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	317				
203/Y93	11/10/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/20/2023	196	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	461				
204/Y94	11/10/2023	1,500	Moisture Condition, Soil/Dirt Compaction	11/20/2023	15.23	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/7/2023	494				
90/B102	11/10/2023	208	Moisture Condition, Soil/Dirt Compaction	11/20/2023	33.1	NA	NA	NA	NA	NA	NA				
146/B41	11/10/2023	390	Moisture Condition, Soil/Dirt Compaction	11/20/2023	15.21	NA	NA	NA	NA	NA	NA				
176/B42	11/10/2023	330	Moisture Condition, Soil/Dirt Compaction	11/20/2023	75.1	NA	NA	NA	NA	NA	NA				
152/B42	11/10/2023	289	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.2	NA	NA	NA	NA	NA	NA				
151/B43	11/10/2023	218	Moisture Condition, Soil/Dirt Compaction	11/20/2023	33.15	NA	NA	NA	NA	NA	NA				
151/B44	11/10/2023	320	Moisture Condition, Soil/Dirt Compaction	11/20/2023	27.33	NA	NA	NA	NA	NA	NA				
151/B45	11/10/2023	289	Moisture Condition, Soil/Dirt Compaction	11/20/2023	13.5	NA	NA	NA	NA	NA	NA				
156/B46	11/10/2023	210	Moisture Condition, Soil/Dirt Compaction	11/20/2023	50.71	NA	NA	NA	NA	NA	NA				
157/B47	11/10/2023	347	Moisture Condition, Soil/Dirt Compaction	11/20/2023	22.21	NA	NA	NA	NA	NA	NA				
172/B48	11/10/2023	218	Moisture Condition, Soil/Dirt Compaction	11/20/2023	30.35	NA	NA	NA	NA	NA	NA				

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
172/B49	11/10/2023	230	Moisture Condition, Soil/Dirt Compaction	11/20/2023	19.33	NA	NA	NA	NA	NA	NA				
177/B50	11/10/2023	290	Moisture Condition, Soil/Dirt Compaction	11/20/2023	41.42	NA	NA	NA	NA	NA	NA				
176/B51	11/10/2023	279	Moisture Condition, Soil/Dirt Compaction	11/20/2023	25.31	NA	NA	NA	NA	NA	NA				
179/B52	11/10/2023	230	Moisture Condition, Soil/Dirt Compaction	11/20/2023	17.27	NA	NA	NA	NA	NA	NA				
183/Y1	11/22/2023	800	Moisture Condition, Soil/Dirt Compaction	11/30/2023	200	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	146				
183/Y2	11/22/2023	600	Moisture Condition, Soil/Dirt Compaction	11/30/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	218				
180/Y3	11/22/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/30/2023	270	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	56				
175/Y51	11/22/2023	659	Moisture Condition, Soil/Dirt Compaction	11/30/2023	126	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	138				
174/Y52	11/22/2023	859	Moisture Condition, Soil/Dirt Compaction	11/30/2023	97	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	123				
169/Y53	11/22/2023	1,229	Moisture Condition, Soil/Dirt Compaction	11/30/2023	203	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	214				
176/Y54	11/22/2023	620	Moisture Condition, Soil/Dirt Compaction	11/30/2023	107	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	196				
173/Y55	11/22/2023	995	Moisture Condition, Soil/Dirt Compaction	11/30/2023	75	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	84				
207/Y41	11/22/2023	1,200	Moisture Condition, Soil/Dirt Compaction	11/30/2023	190	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	99				
207/Y42	11/22/2023	1,000	Moisture Condition, Soil/Dirt Compaction	11/30/2023	54	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	102				
204/Y43	11/22/2023	3,000	Moisture Condition, Soil/Dirt Compaction	11/30/2023	250	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	284				
187/Y11	11/22/2023	2,700	Moisture Condition, Soil/Dirt Compaction	11/30/2023	470	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	348				
187/Y12	11/22/2023	2,300	Moisture Condition, Soil/Dirt Compaction	11/30/2023	421	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	264				
184/Y13	11/22/2023	900	Moisture Condition, Soil/Dirt Compaction	11/30/2023	140	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	361				
179/Y14	11/22/2023	4,600	Moisture Condition, Soil/Dirt Compaction	11/30/2023	380	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	12/19/2023	251				
178/Y41	12/6/2023	10,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	402	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	45				
157/Y42	12/6/2023	3,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	463	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	129				
207/Y1	12/6/2023	1,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	31.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	59				
203/Y2	12/6/2023	1,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	415	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	87				
183/Y21	12/6/2023	1,331	Moisture Condition, Soil/Dirt Compaction	12/15/2023	488	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	387				
182/Y11	12/6/2023	3,888	Moisture Condition, Soil/Dirt Compaction	12/15/2023	23.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	302				
181/Y12	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	29.6	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	24				
181/Y13	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	15.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	78				
181/Y14	12/6/2023	556	Moisture Condition, Soil/Dirt Compaction	12/15/2023	40.8	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	111				
175/Y15	12/6/2023	1,221	Moisture Condition, Soil/Dirt Compaction	12/15/2023	42.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	193				
175/Y16	12/6/2023	900	Moisture Condition, Soil/Dirt Compaction	12/15/2023	328	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	102				
174/Y17	12/6/2023	1,421	Moisture Condition, Soil/Dirt Compaction	12/15/2023	331	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	80				
168/Y18	12/6/2023	1,921	Moisture Condition, Soil/Dirt Compaction	12/15/2023	270	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	97				
169/Y19	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	71.3	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	151				
169/Y20	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	48.4	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	166				
183/Y71	12/6/2023	8,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	20.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	439				
183/Y72	12/6/2023	7,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	19.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	481				
180/Y73	12/6/2023	800	Moisture Condition, Soil/Dirt Compaction	12/15/2023	37.8	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	73				
180/Y74	12/6/2023	6,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	10.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	299				
180/Y75	12/6/2023	3,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	340	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	304				
176/Y76	12/6/2023	2,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	268	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	56				
176/Y77	12/6/2023	8,000	Moisture Condition, Soil/Dirt Compaction	12/15/2023	322	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	449				
176/Y78	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	300	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	36				
168/Y79	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	10.7	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	71				
166/Y31	12/6/2023	650	Moisture Condition, Soil/Dirt Compaction	12/15/2023	194	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	40				
172/Y32	12/6/2023	575	Moisture Condition, Soil/Dirt Compaction	12/15/2023	110	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	54				
184/Y33	12/6/2023	590	Moisture Condition, Soil/Dirt Compaction	12/15/2023	10.4	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	119				
187/Y34	12/6/2023	900	Moisture Condition, Soil/Dirt Compaction	12/15/2023	10.9	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	123				
177/Y35	12/6/2023	500	Moisture Condition, Soil/Dirt Compaction	12/15/2023	19.9	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	84				
210/Y52	12/6/2023	890	Moisture Condition, Soil/Dirt Compaction	12/15/2023	40.1	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	61				
211/Y53	12/6/2023	641	Moisture Condition, Soil/Dirt Compaction	12/15/2023	4.5	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	152				
208/Y54	12/6/2023	518	Moisture Condition, Soil/Dirt Compaction	12/15/2023	57.2	NA	NA	NA	Moisture Condition, Soil/Dirt Compaction	1/5/2024	100				
165/Y21	12/18/2023	3,500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	425	NA	NA	NA							
169/Y22	12/18/2023	800	Moisture Condition, Soil/Dirt Compaction	12/28/2023	170	NA	NA	NA							
173/Y23	12/18/2023	6,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	350	NA	NA	NA							
176/Y24	12/18/2023	2,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	198	NA	NA	NA							
204/Y1	12/18/2023	1,200	Moisture Condition, Soil/Dirt Compaction	12/28/2023	85	NA	NA	NA							
204/Y2	12/18/2023	1,500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	110	NA	NA	NA							
207/Y3	12/18/2023	2,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	275	NA	NA	NA							
206/Y4	12/18/2023	3,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	140	NA	NA	NA							
183/Y31	12/18/2023	1,500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	121	NA	NA	NA							
180/Y32	12/18/2023	500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	60	NA	NA	NA							
180/Y33	12/18/2023	2,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	98	NA	NA	NA							
183/Y34	12/18/2023	3,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	205	NA	NA	NA							
183/Y35	12/18/2023	1,200	Moisture Condition, Soil/Dirt Compaction	12/28/2023	371	NA	NA	NA							
176/Y36	12/18/2023	1,300	Moisture Condition, Soil/Dirt Compaction	12/28/2023	466	NA	NA	NA							
176/Y37	12/18/2023	2,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	250	NA	NA	NA							
186/Y51	12/18/2023	500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	50	NA	NA	NA							
156/Y52	12/18/2023	500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	75	NA	NA	NA							
178/Y53	12/18/2023	1,323	Moisture Condition, Soil/Dirt Compaction	12/28/2023	328	NA	NA	NA							
156/Y54	12/18/2023	8,622	Moisture Condition, Soil/Dirt Compaction	12/28/2023	410	NA	NA	NA							
156/Y55	12/18/2023	500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	65	NA	NA	NA							

Grid	Initial Date	Initial Exceedance >500, 200-499, >25 (PPM)	10-Day Corrective Action	First Remonitoring Date (10-days)	PPM	2nd 10-Day Corrective Action	Second Remonitoring Date (10-days)	PPM	Monthly Corrective Action	Monthly Remonitoring Date	PPM	45-Day Corrective Action Deadline	45-Day Corrective Action	45-Day Corrective Action Date/Remonitoring Date	PPM
158/Y56	12/18/2023	852	Moisture Condition, Soil/Dirt Compaction	12/28/2023	128	NA	NA	NA							
157/Y57	12/18/2023	500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	72	NA	NA	NA							
158/Y58	12/18/2023	2,966	Moisture Condition, Soil/Dirt Compaction	12/28/2023	226	NA	NA	NA							
159/Y59	12/18/2023	500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	89	NA	NA	NA							
184/Y41	12/18/2023	7,500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	382	NA	NA	NA							
187/Y42	12/18/2023	10,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	417	NA	NA	NA							
179/Y43	12/18/2023	950	Moisture Condition, Soil/Dirt Compaction	12/28/2023	200	NA	NA	NA							
177/Y44	12/18/2023	2,500	Moisture Condition, Soil/Dirt Compaction	12/28/2023	387	NA	NA	NA							
172/Y45	12/18/2023	5,600	Moisture Condition, Soil/Dirt Compaction	12/28/2023	379	NA	NA	NA							
171/Y46	12/18/2023	20,000	Moisture Condition, Soil/Dirt Compaction	12/28/2023	418	NA	NA	NA							
202/Y11	12/18/2023	707	Moisture Condition, Soil/Dirt Compaction	12/28/2023	165	NA	NA	NA							
203/Y12	12/18/2023	537	Moisture Condition, Soil/Dirt Compaction	12/28/2023	130	NA	NA	NA							
204/Y13	12/18/2023	677	Moisture Condition, Soil/Dirt Compaction	12/28/2023	95	NA	NA	NA							

Attachment D

Wellhead Temperature Data

Attachment D - Well Temperature Data
December 2023

Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWA001	A-01	12/13/23 10:59	83.1	83.1
CHIWA002	A-02	12/13/23 11:03	89.1	89.1
CHIWA003	A-03	12/13/23 11:09	84.4	84.5
CHIWA004	A-04	12/13/23 11:12	91.5	91.5
CHIWA005	A-05	12/31/23 9:07	79.4	79.4
CHIWB001	B-01	12/15/23 9:38	71.1	71.1
CHIWB02R	B-02R	12/15/23 9:17	71.1	71.2
CHIWB03R	B-03R	12/15/23 9:21	71.2	71.3
CHIWB005	B-05	12/15/23 7:42	82.0	82.1
CHIWB006	B-06	12/15/23 7:50	64.3	64.4
CHIWB07R	B-07R	12/15/23 8:42	67.0	67.0
CHIWB008	B-08	12/31/23 9:16	81.2	81.3
CHIWB009	B-09	12/15/23 8:36	85.7	85.7
CHIWB010	B-10	12/15/23 8:27	66.2	66.2
CHIWB011	B-11	12/15/23 8:16	86.0	86.0
CHIWB012	B-12	12/15/23 9:29	87.2	87.2
CHIWB013	B-13	12/15/23 8:52	70.2	70.2
CHIWB014	B-14	12/15/23 8:09	65.9	66.0
CHIWC001	C-01	12/31/23 8:54	46.6	46.6
CHIWC003	C-03	12/31/23 9:48	58.0	57.9
CHIWC007	C-07	12/31/23 9:35	46.2	46.2
CHIWC008	C-08	12/13/23 10:34	86.9	87.1
CHIWC010	C-10	12/31/23 10:58	61.3	61.3
CHIWC011	C-11	12/31/23 10:39	91.8	91.9
CHIWC012	C-12	12/12/23 10:17	88.1	87.9
CHIWC013	C-13	12/12/23 10:41	64.9	64.7
CHIWC013	C-13	12/12/23 10:43	63.9	64.1
CHIWC015	C-15	12/12/23 10:32	98.7	98.9
CHIWC016	C-16	12/12/23 8:15	90.2	90.3
CHIWC17A	C-17A	12/12/23 11:22	92.6	93.0
CHIWC17A	C-17A	12/12/23 11:24	96.9	97.1
CHIWC17B	C-17B	12/12/23 11:26	108.9	108.9
CHIWC018	C-18	12/12/23 11:52	93.7	93.9
CHIWC019	C-19	12/12/23 11:40	99.0	99.0
CHIWC020	C-20	12/12/23 11:44	87.2	87.7
CHIWC023	C-23	12/12/23 11:07	81.2	81.1
CHIWC023	C-23	12/12/23 11:09	80.4	80.4
CHIWC024	C-24	12/12/23 11:36	105.5	105.5
CHIWC025	C-25	12/12/23 11:01	120.2	120.3
CHIWC026	C-26	12/12/23 10:49	93.5	93.6
CHIWC026	C-26	12/12/23 10:50	94.9	95.0
CHIWC027	C-27	12/12/23 10:25	117.7	117.7
CHIWC028	C-28	12/31/23 11:11	104.8	104.9
CHIWC029	C-29	12/31/23 10:54	116.4	116.4
CHIWC030	C-30	12/31/23 11:04	63.8	61.5

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWCV02	CV-02	12/13/23 10:27	111.4	111.4
CHIWCV03	CV-03	12/13/23 10:21	118.8	118.9
CHIWCV04	CV-04	12/13/23 10:16	107.4	108.0
CHIWCV05	CV-05	12/13/23 10:10	104.5	104.7
CHIWCV06	CV-06	12/13/23 9:31	68.2	68.3
CHIWCV07	CV-07	12/13/23 9:38	69.0	68.9
CHIWCV07	CV-07	12/13/23 9:40	68.8	68.8
CHIWCV08	CV-08	12/13/23 9:49	118.5	121.0
CHIWCV09	CV-09	12/13/23 10:01	122.4	122.4
CHWCV100	CV-100	12/5/23 16:36	110.9	110.9
CHWCV103	CV-103	12/5/23 11:46	104.2	104.3
CV108-52	CV-108-52	12/14/23 8:51	123.8	124.4
CHIWCV11	CV-11	12/8/23 16:14	67.9	67.8
CHWCV113	CV-113	12/12/23 16:09	127.4	127.4
CHWCV114	CV-114	12/7/23 10:19	125.1	125.3
CHWCV114	CV-114	12/14/23 9:21	125.9	125.9
CHCV1420	CV-1420	12/5/23 14:04	129.9	129.8
CHCV1421	CV-1421	12/5/23 13:25	106.4	106.3
CHCV1422	CV-1422	12/28/23 16:01	84.5	83.9
CHCV1423	CV-1423	12/7/23 9:21	127.6	127.6
CHCV1424	CV-1424	12/4/23 14:25	111.9	111.6
CHCV1425	CV-1425	12/5/23 14:30	85.6	85.7
CHCV1426	CV-1426	12/5/23 14:56	101.4	101.6
CHCV1532	CV-1532	12/13/23 16:22	138.2	138.1
CHCV1532	CV-1532	12/13/23 16:24	137.9	138.0
CCV1532A	CV-1532A	12/5/23 11:45	148.7	148.5
CCV1532A	CV-1532A	12/12/23 16:30	165.7	165.9
CCV1532A	CV-1532A	12/18/23 15:16	166.0	165.1
CCV1532A	CV-1532A	12/27/23 11:19	66.4	65.7
CCV1534A	CV-1534A	12/5/23 11:29	191.8	191.8
CCV1534A	CV-1534A	12/12/23 16:19	183.4	183.4
CCV1534A	CV-1534A	12/18/23 14:48	191.0	191.3
CCV1534A	CV-1534A	12/27/23 11:03	191.0	191.0
CHCV1535	CV-1535	12/13/23 16:39	128.1	128.2
CCV1601D	CV-1601D	12/8/23 11:03	83.1	83.3
CCV1601S	CV-1601S	12/8/23 11:06	102.2	102.3
CHCV1603	CV-1603	12/8/23 17:04	109.9	110.1
CHCV1604	CV-1604	12/8/23 8:32	121.5	121.7
CHCV1605	CV-1605	12/8/23 8:57	67.1	67.2
CHCV1605	CV-1605	12/8/23 9:00	67.9	67.9
CHCV1606	CV-1606	12/8/23 16:34	88.4	88.4
CHCV1607	CV-1607	12/14/23 10:11	121.5	121.5
CCV1701D	CV-1701D	12/7/23 16:24	76.4	76.3
CCV1701S	CV-1701S	12/7/23 16:15	141.0	141.2
CCV1701S	CV-1701S	12/7/23 16:18	141.6	140.3

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV1703	CV-1703	12/7/23 16:39	108.8	109.3
CHCV1901	CV-1901	12/14/23 10:23	116.4	116.3
CCV1902A	CV-1902A	12/31/23 8:07	157.2	158.3
CCV1902A	CV-1902A	12/31/23 8:09	156.9	157.2
CCV1902D	CV-1902D	12/5/23 10:20	165.2	165.2
CCV1902D	CV-1902D	12/12/23 14:27	169.3	169.1
CCV1902D	CV-1902D	12/18/23 11:37	161.6	161.6
CCV1902D	CV-1902D	12/26/23 14:37	79.6	90.1
CCV1902S	CV-1902S	12/5/23 10:23	177.1	177.1
CCV1902S	CV-1902S	12/15/23 16:49	160.4	161.0
CCV1902S	CV-1902S	12/15/23 16:52	165.1	165.2
CCV1902S	CV-1902S	12/18/23 11:43	173.0	173.0
CCV1902S	CV-1902S	12/26/23 14:43	180.7	180.7
CHCV1903	CV-1903	12/11/23 15:57	114.3	114.3
CHCV1905	CV-1905	12/5/23 10:09	102.8	102.9
CHCV1906	CV-1906	12/5/23 15:51	76.3	76.2
CHCV1907	CV-1907	12/5/23 9:01	94.6	95.3
CHCV2001	CV-2001	12/31/23 8:34	48.7	48.8
CHCV2002	CV-2002	12/29/23 15:01	126.7	126.7
CHCV2003	CV-2003	12/5/23 11:09	166.2	166.0
CHCV2003	CV-2003	12/12/23 15:52	175.3	175.3
CHCV2003	CV-2003	12/14/23 15:08	174.2	174.2
CHCV2003	CV-2003	12/14/23 15:12	174.2	174.0
CHCV2003	CV-2003	12/18/23 14:28	172.8	172.6
CHCV2003	CV-2003	12/26/23 16:25	135.7	135.5
CHCV2003	CV-2003	12/26/23 16:28	134.5	134.5
CHCV2004	CV-2004	12/13/23 9:03	176.7	176.9
CHCV2004	CV-2004	12/18/23 15:24	189.5	189.8
CHCV2004	CV-2004	12/27/23 11:35	189.8	189.8
CHCV2006	CV-2006	12/5/23 9:33	149.5	149.5
CHCV2006	CV-2006	12/12/23 12:43	149.6	149.6
CHCV2006	CV-2006	12/18/23 10:30	148.7	148.9
CHCV2006	CV-2006	12/26/23 10:33	154.7	154.7
CHCV2007	CV-2007	12/7/23 9:27	126.8	126.8
CHCV2008	CV-2008	12/28/23 12:37	120.8	119.7
CHCV2009	CV-2009	12/28/23 12:50	123.2	123.1
CCV2009A	CV-2009A	12/28/23 12:13	126.8	126.6
CHCV2010	CV-2010	12/6/23 16:50	110.6	116.3
CHCV2010	CV-2010	12/6/23 16:53	111.3	113.8
CHCV2010	CV-2010	12/7/23 15:06	121.2	120.0
CCV2010A	CV-2010A	12/6/23 16:40	128.6	128.6
CHCV2011	CV-2011	12/7/23 11:52	120.4	120.4
CCV2011A	CV-2011A	12/7/23 15:34	140.5	140.5
CCV2011A	CV-2011A	12/7/23 15:36	140.2	140.4
CHCV2012	CV-2012	12/19/23 10:49	132.9	129.1

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2012	CV-2012	12/19/23 10:51	129.1	129.0
CHCV2012	CV-2012	12/19/23 10:56	128.5	133.2
CHCV2012	CV-2012	12/19/23 10:59	133.1	133.2
CHCV2012	CV-2012	12/19/23 11:09	134.2	134.2
CHCV2201	CV-2201	12/8/23 8:32	197.8	197.5
CHCV2201	CV-2201	12/13/23 14:08	191.8	191.8
CHCV2201	CV-2201	12/27/23 15:52	192.5	192.5
CHCV2202	CV-2202	12/7/23 10:11	191.0	191.0
CHCV2202	CV-2202	12/13/23 14:54	188.3	188.3
CHCV2202	CV-2202	12/19/23 9:50	189.3	189.3
CHCV2202	CV-2202	12/27/23 13:09	190.5	190.5
CHCV2203	CV-2203	12/8/23 9:00	160.1	160.0
CHCV2203	CV-2203	12/15/23 16:39	160.5	160.5
CHCV2203	CV-2203	12/27/23 16:21	161.9	161.7
CHCV2204	CV-2204	12/6/23 10:21	183.0	183.0
CHCV2204	CV-2204	12/13/23 11:00	182.3	182.3
CHCV2204	CV-2204	12/19/23 9:50	186.3	186.3
CHCV2204	CV-2204	12/27/23 14:40	186.7	186.7
CHCV2205	CV-2205	12/5/23 9:13	119.3	119.3
CHCV2206	CV-2206	12/6/23 11:03	187.0	187.0
CHCV2206	CV-2206	12/13/23 11:32	183.4	183.4
CHCV2206	CV-2206	12/19/23 10:30	188.1	188.1
CHCV2206	CV-2206	12/27/23 15:15	192.3	192.3
CHCV2207	CV-2207	12/28/23 16:20	119.9	119.8
CCV2208A	CV-2208A	12/28/23 11:40	133.4	133.6
CCV2208A	CV-2208A	12/28/23 11:45	134.0	133.9
CHCV2301	CV-2301	12/14/23 10:46	131.1	131.3
CHCV2301	CV-2301	12/14/23 10:53	131.3	131.3
CHCV2301	CV-2301	12/19/23 15:44	133.4	130.7
CHCV2301	CV-2301	12/19/23 15:49	128.3	128.4
CHCV2302	CV-2302	12/14/23 11:03	114.2	115.1
CHCV2303	CV-2303	12/14/23 11:21	126.1	126.3
CHCV2304	CV-2304	12/7/23 10:29	156.2	156.1
CHCV2304	CV-2304	12/13/23 14:40	155.0	155.1
CHCV2304	CV-2304	12/19/23 9:33	159.1	159.4
CHCV2304	CV-2304	12/27/23 12:54	161.7	161.6
CHCV2305	CV-2305	12/5/23 14:43	130.4	130.5
CHCV2306	CV-2306	12/6/23 10:41	165.4	165.4
CHCV2306	CV-2306	12/15/23 16:25	169.3	169.1
CHCV2306	CV-2306	12/19/23 10:07	175.5	175.5
CHCV2306	CV-2306	12/27/23 14:54	187.0	187.0
CHCV2308	CV-2308	12/6/23 11:27	162.9	163.2
CHCV2308	CV-2308	12/8/23 8:21	159.2	159.2
CHCV2308	CV-2308	12/13/23 15:42	158.8	159.0
CHCV2308	CV-2308	12/19/23 10:46	169.8	169.8

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2308	CV-2308	12/19/23 10:46	169.8	169.8
CHCV2308	CV-2308	12/27/23 15:34	168.3	168.6
CHCV2310	CV-2310	12/8/23 8:46	173.6	173.6
CHCV2310	CV-2310	12/13/23 16:04	187.7	187.7
CHCV2310	CV-2310	12/28/23 10:31	190.0	190.0
CHCV2311	CV-2311	12/14/23 11:39	120.7	120.7
CHCV2312	CV-2312	12/5/23 16:01	138.7	137.1
CHCV2312	CV-2312	12/5/23 16:06	137.1	137.5
CHCV2314	CV-2314	12/5/23 15:35	136.1	136.1
CHCV2314	CV-2314	12/5/23 15:38	135.7	135.7
CHCV2314	CV-2314	12/19/23 15:07	127.3	137.2
CHCV2314	CV-2314	12/19/23 15:13	137.3	137.3
CHCV2315	CV-2315	12/5/23 13:42	124.7	124.7
CHCV2316	CV-2316	12/6/23 16:34	135.9	136.0
CHCV2316	CV-2316	12/6/23 16:38	136.0	136.0
CHCV2316	CV-2316	12/19/23 14:43	137.0	139.8
CHCV2316	CV-2316	12/19/23 14:47	141.5	141.5
CHCV2319	CV-2319	12/5/23 8:01	130.4	130.4
CHCV2321	CV-2321	12/5/23 15:15	118.5	118.4
CHCV2322	CV-2322	12/6/23 14:20	177.1	177.1
CHCV2322	CV-2322	12/13/23 15:22	174.8	174.6
CHCV2322	CV-2322	12/19/23 9:03	177.3	177.1
CHCV2322	CV-2322	12/27/23 16:38	178.8	178.8
CHCV2324	CV-2324	12/31/23 10:28	115.3	115.3
CHCV2326	CV-2326	12/4/23 16:11	75.0	75.0
CHCV2327	CV-2327	12/7/23 9:35	149.2	149.1
CHCV2327	CV-2327	12/13/23 15:07	148.4	148.5
CHCV2327	CV-2327	12/19/23 9:14	149.0	149.0
CHCV2327	CV-2327	12/27/23 16:24	148.4	148.4
CHCV2328	CV-2328	12/29/23 16:42	116.2	116.2
CHCV2333	CV-2333	12/28/23 16:41	128.9	128.7
CHCV2334	CV-2334	12/7/23 9:51	132.2	132.7
CHCV2334	CV-2334	12/7/23 9:53	132.7	132.7
CHCV2335	CV-2335	12/31/23 7:53	87.7	87.5
CHCV2336	CV-2336	12/31/23 7:57	112.1	112.1
CHCV2337	CV-2337	12/14/23 14:12	132.3	132.4
CHCV2337	CV-2337	12/14/23 14:16	133.6	133.7
CHCV2337	CV-2337	12/18/23 10:22	133.2	133.1
CHCV2337	CV-2337	12/18/23 10:25	133.1	133.1
CHCV2338	CV-2338	12/4/23 15:46	176.9	177.3
CHCV2338	CV-2338	12/4/23 15:49	179.6	179.6
CHCV2338	CV-2338	12/4/23 15:52	180.2	180.4
CHCV2338	CV-2338	12/4/23 15:54	180.4	180.4
CHCV2338	CV-2338	12/5/23 9:48	183.4	183.4
CHCV2338	CV-2338	12/12/23 11:54	180.4	180.4

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHCV2338	CV-2338	12/18/23 10:53	187.4	187.4
CHCV2338	CV-2338	12/26/23 11:00	178.0	178.0
CHCV2339	CV-2339	12/5/23 10:38	194.1	194.1
CHCV2339	CV-2339	12/13/23 10:25	190.5	190.8
CHCV2339	CV-2339	12/18/23 13:50	193.8	193.5
CHCV2339	CV-2339	12/26/23 15:36	194.1	194.6
CHCV2340	CV-2340	12/29/23 14:40	82.1	81.1
CHCV2340	CV-2340	12/29/23 14:42	81.4	81.4
CHCV2341	CV-2341	12/29/23 14:49	142.0	141.6
CHCV2341	CV-2341	12/29/23 14:52	141.8	141.0
CCV2342A	CV-2342A	12/13/23 9:33	187.4	187.2
CCV2342A	CV-2342A	12/18/23 15:33	194.8	194.8
CCV2342A	CV-2342A	12/27/23 11:57	194.1	194.3
CHCV2343	CV-2343	12/14/23 14:46	106.9	106.7
CHCV2344	CV-2344	12/14/23 14:29	121.4	121.5
CHCV2345	CV-2345	12/31/23 15:10	115.9	115.9
CHCV2346	CV-2346	12/14/23 15:26	126.8	127.1
CHCV2347	CV-2347	12/14/23 15:35	101.7	101.7
CHCV2348	CV-2348	12/31/23 8:23	98.4	98.8
CHCV2349	CV-2349	12/29/23 14:58	121.4	121.3
CHCV2350	CV-2350	12/29/23 15:13	85.1	102.1
CHCV2350	CV-2350	12/29/23 15:22	111.1	104.6
CHCV2351	CV-2351	12/14/23 9:32	120.4	120.4
CHCV2352	CV-2352	12/4/23 15:37	85.3	85.4
CHCV2352	CV-2352	12/4/23 15:40	86.1	86.1
CHCV2352	CV-2352	12/14/23 9:38	134.0	134.1
CHCV2352	CV-2352	12/14/23 9:40	134.4	134.1
CHCV2353	CV-2353	12/6/23 9:23	194.6	194.3
CHCV2353	CV-2353	12/13/23 9:49	193.3	193.3
CHCV2353	CV-2353	12/14/23 9:45	195.1	194.8
CHCV2353	CV-2353	12/14/23 9:53	195.1	195.1
CHCV2353	CV-2353	12/18/23 15:46	195.4	195.4
CHCV2353	CV-2353	12/27/23 12:18	195.1	195.4
CHCV2354	CV-2354	12/4/23 15:37	78.3	78.4
CCV24001	CV-24001	12/31/23 13:11	77.9	77.5
CCV24096	CV-24096	12/31/23 8:48	48.4	48.5
CCV24096	CV-24096	12/31/23 8:59	48.9	48.9
CCV24097	CV-24097	12/8/23 17:54	62.4	62.3
CCV24097	CV-24097	12/11/23 12:49	86.8	85.9
CCV24097	CV-24097	12/31/23 8:52	46.3	46.5
CCV24097	CV-24097	12/31/23 8:55	46.5	46.5
CCV24098	CV-24098	12/8/23 14:58	92.9	93.0
CCV24098	CV-24098	12/11/23 12:54	101.9	105.0
CCV24098	CV-24098	12/31/23 8:40	65.7	65.7
CCV24099	CV-24099	12/8/23 15:04	122.1	120.7

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CCV24099	CV-24099	12/11/23 12:57	127.0	127.0
CCV24100	CV-24100	12/8/23 15:10	110.7	110.3
CCV24100	CV-24100	12/11/23 13:05	141.9	142.7
CCV24101	CV-24101	12/8/23 15:17	95.4	95.0
CCV24101	CV-24101	12/11/23 13:07	110.9	110.9
CCV24138	CV-24138	12/31/23 14:27	60.9	60.6
CCV24138	CV-24138	12/31/23 14:28	59.7	59.7
CCV24139	CV-24139	12/31/23 9:26	71.8	69.9
CCV24139	CV-24139	12/31/23 9:28	69.1	69.1
CCV24140	CV-24140	12/31/23 9:33	81.2	86.8
CCV24141	CV-24141	12/31/23 14:18	57.4	57.8
CCV24141	CV-24141	12/31/23 14:19	57.9	57.9
CCV24142	CV-24142	12/31/23 9:19	112.3	112.3
CCV24143	CV-24143	12/31/23 9:39	49.5	49.5
CCV24143	CV-24143	12/31/23 9:40	49.5	49.5
CHIWCV25	CV-25	12/12/23 17:02	61.1	61.4
CHICV33S	CV-33S	12/8/23 14:31	116.1	116.3
CHICV34D	CV-34D	12/8/23 15:40	70.2	70.2
CHICV34D	CV-34D	12/8/23 15:44	70.0	70.0
CHICV34S	CV-34S	12/8/23 15:51	66.9	67.0
CHICV34S	CV-34S	12/8/23 15:53	66.7	66.7
CHICV34S	CV-34S	12/19/23 17:33	59.6	59.6
CHICV35D	CV-35D	12/8/23 16:03	67.5	67.5
CHICV35D	CV-35D	12/8/23 16:05	67.7	67.7
CHICV35D	CV-35D	12/19/23 17:45	57.6	57.5
CHWCV48R	CV-48R	12/12/23 16:23	124.9	124.9
CHWCV49S	CV-49S	12/12/23 16:29	65.0	64.9
CHWCV52D	CV-52D	12/8/23 15:05	136.1	133.9
CHWCV52D	CV-52D	12/8/23 15:07	133.3	133.1
CHWCV53D	CV-53D	12/8/23 14:53	111.7	112.4
CHWCV53S	CV-53S	12/28/23 11:20	133.2	130.7
CHWCV53S	CV-53S	12/28/23 11:24	130.5	130.5
CHWCV54D	CV-54D	12/8/23 14:38	76.1	79.6
CHWCV54S	CV-54S	12/8/23 14:42	138.8	138.8
CHWCV54S	CV-54S	12/8/23 14:46	138.5	138.5
CHWCV55R	CV-55R	12/13/23 8:13	144.3	142.8
CHWCV55R	CV-55R	12/13/23 8:18	139.6	139.7
CHWCV56D	CV-56D	12/7/23 16:04	123.8	124.8
CHWCV56S	CV-56S	12/7/23 16:07	122.2	122.4
CHWCV57R	CV-57R	12/7/23 11:48	101.2	101.3
CHWCV74R	CV-74R	12/5/23 16:23	111.1	111.2
CHWCV79R	CV-79R	12/7/23 14:08	127.2	126.8
CHWCV84S	CV-84S	12/5/23 9:49	98.2	98.0
CHWCV85S	CV-85S	12/5/23 10:17	103.1	103.1
CHIWCV94	CV-94	12/7/23 11:36	92.5	92.7

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWCV95	CV-95	12/7/23 11:45	110.4	110.5
CHIWCV99	CV-99	12/12/23 16:17	110.3	111.9
CHIWD001	D-01	12/13/23 9:10	67.5	67.5
CHIWD001	D-01	12/13/23 9:12	65.7	65.7
CHIWD002	D-02	12/13/23 9:06	82.0	82.4
CHIWD003	D-03	12/13/23 9:02	92.4	92.4
CHIWD004	D-04	12/13/23 8:49	97.2	97.6
CHIWD005	D-05	12/13/23 8:44	68.8	71.0
CHIWD006	D-06	12/31/23 11:21	100.4	100.4
CHIWD009	D-09	12/8/23 13:55	109.7	109.8
CHIWD010	D-10	12/8/23 13:48	81.7	81.6
CHIWD010	D-10	12/8/23 13:50	80.1	80.1
CHIWD010	D-10	12/19/23 18:04	61.8	65.2
CHIWH001	H-01 (EXP-01)	12/12/23 13:49	75.9	75.7
CHIWH002	H-02 (EXP-02)	12/12/23 13:54	102.0	102.2
CHIWH003	H-03 (EXP-03)	12/12/23 13:56	117.4	117.4
CHIWH004	H-04 (EXP-04)	12/12/23 14:00	129.1	129.1
CHIWH006	H-06 (EXP-06)	12/12/23 14:24	81.9	81.7
CHIWH008	H-08 (EXP-08)	12/12/23 14:29	82.5	83.0
CHIWH009	H-09 (EXP-09)	12/12/23 14:32	117.0	117.0
CHIWH010	H-10 (EXP-10)	12/12/23 14:41	118.8	118.8
CHIH101W	H-101W	12/13/23 14:36	80.6	80.5
CHIH101W	H-101W	12/13/23 14:38	83.0	83.3
CHWH102A	H-102A	12/13/23 14:57	86.2	86.2
CHIWH104	H-104	12/13/23 14:54	84.4	84.4
CHWH104A	H-104A	12/31/23 11:42	75.6	75.0
CHIWH012	H-12 (EXP-12)	12/12/23 15:01	107.5	107.5
CHIWH013	H-13 (EXP-13)	12/12/23 14:58	79.9	79.8
CHIWH014	H-14 (EXP-14)	12/12/23 15:17	74.5	74.5
CHH1401W	H-1401W	12/13/23 15:01	96.2	96.2
CHH1402C	H-1402C	12/8/23 11:22	119.7	119.7
CHH1403W	H-1403W	12/13/23 15:29	92.8	93.0
CHH1404C	H-1404C	12/14/23 16:13	113.2	113.3
CHH1405C	H-1405C	12/13/23 16:58	108.2	108.2
CHH1405E	H-1405E	12/5/23 12:07	112.1	112.1
CHH1405W	H-1405W	12/29/23 15:32	84.2	84.2
CHH1406W	H-1406W	12/13/23 15:37	76.8	77.0
CH1408CR	H-1408CR	12/8/23 9:34	104.5	104.5
CHH1408E	H-1408E	12/31/23 8:52	106.2	106.3
CHH1408E	H-1408E	12/31/23 10:25	105.5	105.5
CHH1408W	H-1408W	12/13/23 13:37	109.7	110.2
CHH1409N	H-1409N	12/5/23 11:07	83.8	83.8
CHH1410S	H-1410S	12/8/23 11:44	95.1	86.7
CHH1551C	H-1551C	12/14/23 14:53	118.6	118.8
CHH1560N	H-1560N	12/13/23 15:59	75.1	75.2

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1560S	H-1560S	12/13/23 15:42	77.5	77.5
CHH1561C	H-1561C	12/6/23 9:46	137.9	137.8
CHH1561C	H-1561C	12/6/23 9:48	137.2	137.4
CHH1561C	H-1561C	12/13/23 16:16	127.8	129.2
CHH1561C	H-1561C	12/18/23 14:55	117.5	117.7
CHH1561N	H-1561N	12/13/23 9:54	190.5	190.5
CHH1561N	H-1561N	12/18/23 15:59	193.3	193.3
CHH1561N	H-1561N	12/28/23 10:45	190.0	190.0
CHH1562N	H-1562N	12/13/23 16:34	119.4	119.4
CHH1563N	H-1563N	12/5/23 16:47	109.4	109.5
CHH1563S	H-1563S	12/13/23 17:00	115.4	115.5
CHH1564N	H-1564N	12/5/23 12:10	97.0	97.1
CHH1565C	H-1565C	12/5/23 11:52	112.5	112.4
CHH1568S	H-1568S	12/31/23 8:37	87.6	87.5
CHH1569S	H-1569S	12/8/23 10:21	68.4	68.8
CHH1571S	H-1571S	12/8/23 8:38	116.3	116.1
CHH1572N	H-1572N	12/7/23 13:43	123.6	123.6
CHH1572S	H-1572S	12/7/23 17:07	111.1	112.5
CHH1573S	H-1573S	12/8/23 16:41	98.6	99.9
CHH1574N	H-1574N	12/29/23 15:35	117.1	117.7
CHIH1575	H-1575	12/13/23 15:13	79.7	79.9
CHH1751N	H-1751N	12/5/23 10:01	174.4	174.4
CHH1751N	H-1751N	12/12/23 12:18	171.4	171.4
CHH1751N	H-1751N	12/18/23 11:21	174.2	174.2
CHH1751N	H-1751N	12/26/23 11:44	150.5	150.5
CHH1751N	H-1751N	12/29/23 14:50	83.1	83.1
CHH1751S	H-1751S	12/31/23 9:10	98.0	98.4
CHH1752N	H-1752N	12/5/23 17:02	102.5	102.6
CHH1752S	H-1752S	12/12/23 15:19	94.5	94.5
CHH1753N	H-1753N	12/5/23 17:08	138.4	139.4
CHH1753N	H-1753N	12/8/23 8:12	117.4	118.7
CHH1753S	H-1753S	12/5/23 16:39	109.3	109.4
CHH1754N	H-1754N	12/11/23 14:41	117.9	118.0
CHH1754S	H-1754S	12/5/23 11:58	82.3	82.3
CHH1755S	H-1755S	12/13/23 15:47	87.8	88.6
CHH1756N	H-1756N	12/13/23 16:29	86.0	87.1
CHH1756S	H-1756S	12/14/23 14:13	117.4	117.4
CHH1757N	H-1757N	12/12/23 15:06	146.3	146.4
CHH1757N	H-1757N	12/18/23 14:08	147.3	147.4
CHH1757N	H-1757N	12/26/23 14:53	149.5	149.6
CHH1757S	H-1757S	12/13/23 16:54	113.5	113.8
CH1758NR	H-1758NR	12/5/23 16:43	117.4	117.4
CH1758NR	H-1758NR	12/5/23 16:43	117.4	117.4
CHH1759S	H-1759S	12/14/23 15:50	109.2	109.2
CHH1760N	H-1760N	12/5/23 11:34	84.7	84.3

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1762N	H-1762N	12/5/23 10:45	80.8	80.9
CHH1763N	H-1763N	12/8/23 10:33	124.8	124.8
CHH1763S	H-1763S	12/31/23 11:55	127.3	127.8
CHH1764N	H-1764N	12/5/23 9:56	101.3	101.3
CHH1764S	H-1764S	12/8/23 8:46	75.5	76.9
CHH1766S	H-1766S	12/29/23 15:36	79.5	79.5
CHH1767N	H-1767N	12/8/23 16:26	116.4	116.4
CHH1767S	H-1767S	12/8/23 16:37	60.7	60.7
CHH1768N	H-1768N	12/31/23 9:05	73.1	73.1
CHH1769A	H-1769A	12/29/23 14:12	145.5	145.5
CHH1769A	H-1769A	12/29/23 14:16	145.6	145.7
CHH1769B	H-1769B	12/5/23 16:52	104.1	104.2
CHH1769N	H-1769N	12/11/23 16:47	111.3	111.3
CHH1769S	H-1769S	12/14/23 15:57	101.3	101.3
CHH1770A	H-1770A	12/11/23 15:39	131.3	130.6
CHH1770A	H-1770A	12/11/23 15:41	130.6	130.6
CHH1770B	H-1770B	12/5/23 10:07	170.3	170.7
CHH1770B	H-1770B	12/12/23 12:13	168.0	168.0
CHH1770B	H-1770B	12/18/23 11:13	169.6	169.6
CHH1770B	H-1770B	12/26/23 11:31	176.1	176.1
CHH1770N	H-1770N	12/5/23 9:10	135.3	135.3
CHH1770N	H-1770N	12/5/23 9:12	135.2	135.2
CHH1770N	H-1770N	12/11/23 16:24	137.0	136.8
CHH1770N	H-1770N	12/11/23 16:26	137.0	137.0
CHH1770N	H-1770N	12/18/23 9:53	134.3	134.2
CHH1770N	H-1770N	12/18/23 9:55	134.2	134.3
CHH1770N	H-1770N	12/26/23 9:33	129.8	129.8
CHH1770S	H-1770S	12/13/23 16:47	105.3	105.4
CHH1771A	H-1771A	12/7/23 9:14	65.3	65.3
CHH1771B	H-1771B	12/5/23 13:31	101.4	101.2
CHH1771B	H-1771B	12/11/23 12:01	100.9	100.8
CHH1771N	H-1771N	12/5/23 15:21	97.6	98.1
CHH1771S	H-1771S	12/5/23 10:53	99.5	99.5
CHH1772A	H-1772A	12/12/23 15:59	91.8	92.5
CHH1772A	H-1772A	12/12/23 16:01	94.5	94.5
CHH1772B	H-1772B	12/5/23 13:49	114.4	114.3
CHH1772C	H-1772C	12/5/23 15:48	77.9	78.2
CHH1772N	H-1772N	12/5/23 14:26	78.8	78.8
CHH1772S	H-1772S	12/14/23 16:03	110.9	110.9
CHH1773A	H-1773A	12/5/23 8:40	178.2	178.2
CHH1773A	H-1773A	12/12/23 11:33	173.5	173.7
CHH1773A	H-1773A	12/18/23 9:20	176.1	176.1
CHH1773A	H-1773A	12/26/23 9:05	169.5	169.6
CHH1773B	H-1773B	12/31/23 7:27	45.9	43.4
CHH1773B	H-1773B	12/31/23 7:29	47.7	47.7

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1773C	H-1773C	12/5/23 16:29	113.5	113.5
CHH1773N	H-1773N	12/31/23 7:40	125.3	106.9
CHH1773N	H-1773N	12/31/23 10:10	162.8	163.7
CHH1773N	H-1773N	12/31/23 10:11	165.2	165.2
CHH1774A	H-1774A	12/5/23 9:26	153.4	153.4
CHH1774A	H-1774A	12/12/23 12:32	151.3	151.3
CHH1774A	H-1774A	12/18/23 10:10	148.4	148.5
CHH1774A	H-1774A	12/26/23 10:27	153.7	153.8
CHH1774N	H-1774N	12/11/23 16:08	111.7	111.7
CHH1774S	H-1774S	12/14/23 14:37	100.8	100.8
CHH1801S	H-1801S	12/31/23 10:41	132.9	132.9
CHH1801S	H-1801S	12/31/23 10:43	132.9	132.8
CHH1802N	H-1802N	12/4/23 14:31	107.8	107.8
CHH1802S	H-1802S	12/7/23 13:53	127.0	126.9
CHH1803N	H-1803N	12/5/23 9:00	173.7	173.7
CHH1803N	H-1803N	12/12/23 11:57	170.3	170.3
CHH1803N	H-1803N	12/18/23 9:36	172.6	172.6
CHH1803N	H-1803N	12/26/23 9:18	171.5	171.5
CHH1804A	H-1804A	12/5/23 8:07	113.2	113.3
CHH1804B	H-1804B	12/5/23 15:07	98.3	99.1
CHH1804N	H-1804N	12/7/23 10:11	117.3	117.4
CHH1804S	H-1804S	12/5/23 10:01	106.5	106.4
CHH1805A	H-1805A	12/4/23 14:18	122.8	122.8
CHH1805B	H-1805B	12/5/23 9:36	107.5	107.4
CHH1805S	H-1805S	12/7/23 14:22	125.7	127.8
CHH1806A	H-1806A	12/28/23 16:10	115.8	115.8
CHH1806B	H-1806B	12/7/23 13:36	110.6	110.6
CHH1806N	H-1806N	12/7/23 10:43	122.0	122.0
CHH1806S	H-1806S	12/7/23 16:48	111.7	111.7
CHH1807A	H-1807A	12/6/23 17:04	105.4	105.4
CHH1807N	H-1807N	12/7/23 10:53	113.9	113.8
CHH1807S	H-1807S	12/7/23 15:48	75.2	77.2
CHH1951W	H-1951W	12/8/23 9:13	74.4	72.4
CHH1952C	H-1952C	12/5/23 11:22	112.1	116.1
CHH1952N	H-1952N	12/11/23 17:02	132.3	132.3
CHH1952N	H-1952N	12/11/23 17:04	132.1	132.1
CHH1952S	H-1952S	12/31/23 10:26	113.7	113.7
CHH1953C	H-1953C	12/5/23 14:17	88.5	88.6
CHH1953N	H-1953N	12/7/23 9:43	115.6	115.6
CHH1953S	H-1953S	12/5/23 10:37	95.1	95.3
CHH1954C	H-1954C	12/5/23 13:20	112.6	112.7
CHH1954N	H-1954N	12/7/23 9:58	92.9	93.0
CHH1954S	H-1954S	12/5/23 10:24	75.2	75.3
CHH1955C	H-1955C	12/5/23 8:14	105.9	106.0
CHH1955N	H-1955N	12/7/23 10:28	71.8	71.8

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH1955S	H-1955S	12/5/23 9:43	105.4	105.4
CHH1956B	H-1956B	12/5/23 8:53	87.7	88.0
CHH1956N	H-1956N	12/7/23 10:33	106.7	106.8
CHH1956S	H-1956S	12/7/23 14:14	104.5	104.5
CHH1957A	H-1957A	12/7/23 14:51	72.4	72.4
CHH1957B	H-1957B	12/5/23 9:19	106.0	105.7
CHH1957N	H-1957N	12/7/23 10:39	115.3	115.3
CHH1957S	H-1957S	12/7/23 13:28	94.4	94.6
CHH1958C	H-1958C	12/7/23 14:59	119.6	119.7
CHH1958N	H-1958N	12/7/23 10:59	108.2	108.0
CHH1958S	H-1958S	12/7/23 15:55	117.9	117.9
CHH1962A	H-1962A	12/11/23 15:48	79.1	79.1
CHH1962A	H-1962A	12/11/23 15:50	78.9	78.8
CHH1962B	H-1962B	12/5/23 9:57	171.0	171.0
CHH1962B	H-1962B	12/12/23 12:07	155.4	155.4
CHH1962B	H-1962B	12/18/23 11:06	163.7	163.7
CHH1962B	H-1962B	12/26/23 11:16	150.8	150.8
CHH1962N	H-1962N	12/5/23 9:16	177.6	177.6
CHH1962N	H-1962N	12/11/23 16:33	172.8	172.8
CHH1962N	H-1962N	12/11/23 16:37	172.8	172.8
CHH1962N	H-1962N	12/12/23 12:15	170.5	170.5
CHH1962N	H-1962N	12/18/23 9:59	175.7	175.7
CHH1962N	H-1962N	12/26/23 9:42	180.7	180.7
CHH1962S	H-1962S	12/5/23 10:51	179.4	179.4
CHH1962S	H-1962S	12/12/23 15:39	170.5	170.5
CHH1962S	H-1962S	12/18/23 14:13	181.1	181.1
CHH1962S	H-1962S	12/26/23 15:41	178.4	178.4
CHH1963A	H-1963A	12/29/23 14:20	123.7	123.8
CHH1963N	H-1963N	12/11/23 16:42	121.0	121.0
CHH1964C	H-1964C	12/11/23 14:34	85.9	85.9
CHH1964N	H-1964N	12/8/23 9:34	150.4	150.4
CHH1964N	H-1964N	12/11/23 16:54	146.5	146.5
CHH1964N	H-1964N	12/11/23 16:55	146.5	146.5
CHH1964N	H-1964N	12/13/23 10:48	144.8	144.8
CHH1964S	H-1964S	12/5/23 12:02	103.6	103.6
CHH1965C	H-1965C	12/11/23 15:04	123.8	124.0
CHH1965S	H-1965S	12/5/23 11:29	81.4	82.8
CHH1966N	H-1966N	12/11/23 16:03	109.3	109.4
CHH1966S	H-1966S	12/31/23 8:01	106.8	106.5
CHH1967E	H-1967E	12/8/23 13:26	77.8	78.9
CHH1967W	H-1967W	12/13/23 14:21	97.5	97.5
CHH2051W	H-2051W	12/13/23 14:16	101.6	101.6
CHH2052W	H-2052W	12/13/23 14:41	100.1	100.3
CHH2053E	H-2053E	12/8/23 13:19	118.5	118.6
CHH2053W	H-2053W	12/13/23 14:42	104.5	104.5

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2055E	H-2055E	12/8/23 9:21	106.6	106.9
CHH2056E	H-2056E	12/31/23 11:36	89.9	89.7
CHH2056W	H-2056W	12/13/23 14:11	108.1	108.0
CHH2057E	H-2057E	12/8/23 13:34	121.0	121.7
CHH2057E	H-2057E	12/8/23 13:36	122.1	122.0
CHH2057W	H-2057W	12/13/23 13:59	119.9	119.7
CHH2058A	H-2058A	12/8/23 14:09	111.0	111.0
CHH2058A	H-2058A	12/13/23 14:27	114.0	113.9
CHH2058B	H-2058B	12/8/23 12:03	95.3	95.3
CHH2058E	H-2058E	12/8/23 13:59	109.3	109.4
CHH2058W	H-2058W	12/13/23 14:06	106.0	106.1
CHH2059W	H-2059W	12/13/23 13:43	115.2	115.3
CHH2160B	H-2160B	12/8/23 12:09	120.1	120.1
CHH2160E	H-2160E	12/8/23 11:55	115.6	115.6
CHH2161W	H-2161W	12/13/23 13:49	116.5	116.6
CHH2162B	H-2162B	12/8/23 9:41	106.3	106.6
CHH2162W	H-2162W	12/13/23 15:22	116.8	116.8
CHH2163C	H-2163C	12/8/23 11:12	107.4	107.4
CHH2163E	H-2163E	12/8/23 11:37	107.8	107.6
CHH2163W	H-2163W	12/13/23 13:31	110.7	110.7
CHH2164A	H-2164A	12/8/23 10:06	112.1	112.0
CHH2164B	H-2164B	12/8/23 9:45	111.0	111.0
CHH2164E	H-2164E	12/8/23 9:06	124.0	123.9
CHH2165E	H-2165E	12/8/23 16:52	110.0	110.2
CHH2165W	H-2165W	12/13/23 17:11	118.8	119.0
CHH2166A	H-2166A	12/5/23 13:36	84.4	84.5
CHH2166C	H-2166C	12/4/23 14:11	111.5	111.5
CHH2166E	H-2166E	12/6/23 16:33	117.8	117.8
CHH2166W	H-2166W	12/5/23 17:13	99.2	99.4
CHH2167A	H-2167A	12/5/23 14:50	102.0	102.1
CHH2167B	H-2167B	12/5/23 8:21	72.6	72.5
CHH2167B	H-2167B	12/5/23 8:23	71.3	71.3
CHH2167E	H-2167E	12/7/23 11:29	77.0	76.8
CHH2167W	H-2167W	12/28/23 15:41	74.2	76.4
CHH2167W	H-2167W	12/28/23 15:44	76.7	76.8
CHH2168A	H-2168A	12/5/23 15:26	78.0	78.3
CHH2168C	H-2168C	12/5/23 8:48	75.7	74.0
CHH2168E	H-2168E	12/5/23 9:24	107.1	107.1
CHH2169B	H-2169B	12/5/23 10:30	107.6	107.6
CHH2169C	H-2169C	12/5/23 9:30	91.8	91.8
CHH2169E	H-2169E	12/5/23 9:08	115.0	115.0
CHH2169W	H-2169W	12/5/23 16:15	77.0	77.1
CHH2169W	H-2169W	12/5/23 16:17	77.0	77.0
CHH2169W	H-2169W	12/19/23 11:22	61.9	63.6
CHH2169W	H-2169W	12/19/23 11:25	63.9	64.0

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHH2169W	H-2169W	12/19/23 11:27	64.3	64.3
CHH2170N	H-2170N	12/8/23 15:18	115.4	115.5
CHH2170S	H-2170S	12/13/23 10:41	88.3	88.3
CHH2171A	H-2171A	12/31/23 11:50	108.2	108.3
CHH2171B	H-2171B	12/13/23 16:41	112.6	112.6
CHH2171S	H-2171S	12/8/23 15:22	116.8	116.9
CHH2272C	H-2272C	12/8/23 9:54	119.9	119.8
CHH2272W	H-2272W	12/14/23 16:38	66.3	66.3
CHH2273C	H-2273C	12/14/23 16:21	111.7	111.8
CHH2273W	H-2273W	12/13/23 17:07	123.4	123.4
CHH2274B	H-2274B	12/14/23 15:43	111.8	111.9
CHH2274E	H-2274E	12/7/23 17:02	62.8	61.5
CHH2274W	H-2274W	12/14/23 14:18	122.4	122.4
CHH2275C	H-2275C	12/14/23 16:30	95.9	95.9
CHH2275E	H-2275E	12/8/23 10:29	108.4	108.7
CHH2275W	H-2275W	12/13/23 17:04	108.0	108.0
CHH2276A	H-2276A	12/14/23 16:08	115.1	115.1
CHH2276B	H-2276B	12/5/23 11:01	96.2	96.4
CHH2276E	H-2276E	12/31/23 10:08	111.1	110.8
CHH2276E	H-2276E	12/31/23 10:10	111.0	111.0
CHH2276W	H-2276W	12/13/23 16:51	110.5	110.5
CHH2277A	H-2277A	12/5/23 11:39	80.3	80.3
CHH2277B	H-2277B	12/5/23 11:13	110.5	110.4
CHH2277E	H-2277E	12/31/23 9:36	111.5	111.7
CHH2277W	H-2277W	12/13/23 16:44	122.5	122.5
CHIWH023	H-23 (EXP-23)	12/4/23 17:02	74.0	74.0
CHIWH023	H-23 (EXP-23)	12/4/23 17:03	74.0	74.0
CHIWH023	H-23 (EXP-23)	12/12/23 17:08	59.0	59.0
CHIWH023	H-23 (EXP-23)	12/12/23 17:10	58.1	58.1
CHH2302E	H-2302E	12/28/23 15:08	91.1	103.7
CHH2302E	H-2302E	12/28/23 15:10	104.2	104.2
CHH2303E	H-2303E	12/31/23 11:41	91.5	91.4
CHH2304S	H-2304S	12/28/23 14:44	111.7	111.7
CHH2305S	H-2305S	12/28/23 14:31	105.5	107.7
CHH2305S	H-2305S	12/28/23 14:36	108.4	108.5
CHH2309S	H-2309S	12/26/23 14:45	87.1	87.6
CHH2309S	H-2309S	12/26/23 14:48	87.7	87.6
CHIWH029	H-29	12/8/23 15:29	130.7	130.8
CHIWH030	H-30	12/12/23 16:51	63.2	63.2
CHIWH031	H-31	12/31/23 10:28	102.0	102.0
CHIWH048	H-48	12/14/23 10:02	78.4	78.5
CHIWH051	H-51	12/14/23 10:36	77.0	77.0
CHIWH052	H-52	12/14/23 11:19	82.9	83.2
CHIWH053	H-53	12/14/23 11:35	105.2	105.2
CHIWH054	H-54	12/31/23 9:58	116.3	116.9

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWH059	H-59	12/14/23 10:16	95.7	95.7
CHIWH060	H-60	12/11/23 12:35	87.3	87.2
CHIWH060	H-60	12/14/23 11:26	86.5	86.5
CHIWH065	H-65	12/5/23 16:59	103.3	103.3
CHIWH067	H-67	12/11/23 14:54	93.6	94.0
CHIWH072	H-72	12/28/23 12:21	109.2	109.3
CHIWH077	H-77	12/31/23 9:35	104.2	104.2
CHIWH77A	H-77A	12/14/23 11:04	70.3	70.3
CHIWH77A	H-77A	12/14/23 11:07	70.4	70.4
CHIWH078	H-78	12/14/23 10:44	92.3	92.3
CHIWH78A	H-78A	12/14/23 10:24	90.5	90.5
CHIWH079	H-79	12/13/23 8:25	134.9	135.0
CHIWH079	H-79	12/13/23 8:27	136.2	135.9
CHIWP002	P-02	12/13/23 11:33	81.4	81.8
CHIWP02R	P-02R	12/28/23 12:07	82.5	82.4
CHIWP03R	P-03R	12/15/23 10:21	83.9	83.9
CHIWP004	P-04	12/15/23 10:16	78.3	78.5
CHIWP005	P-05	12/15/23 10:10	105.1	105.2
CHIWP06R	P-06R	12/15/23 10:05	110.7	110.7
CHIWP07R	P-07R	12/13/23 11:48	86.8	86.0
CHIWP08R	P-08R	12/13/23 11:57	98.2	98.2
CHIWP009	P-09	12/13/23 12:00	94.3	94.8
CHIWP010	P-10	12/13/23 12:07	93.9	93.9
CHIWP011	P-11	12/15/23 9:59	91.6	91.8
CHIWP012	P-12	12/28/23 12:20	73.0	74.1
CHIWP013	P-13	12/28/23 12:13	78.0	78.0
CHIWP014	P-14	12/15/23 10:43	77.6	77.6
CHIWP15R	P-15R	12/15/23 10:38	79.7	79.8
CHIWP016	P-16	12/15/23 10:50	92.9	93.0
CHIWP017	P-17	12/15/23 10:56	101.5	101.6
CHIP18RD	P-18RD	12/15/23 11:07	86.8	86.9
CHIP18RS	P-18RS	12/15/23 11:18	87.0	87.0
CHIWP019	P-19	12/28/23 12:29	83.4	83.4
CHIWP20R	P-20R	12/15/23 11:21	95.0	95.0
CHIWP021	P-21	12/15/23 11:26	86.4	86.8
CHIP21RD	P-21RD	12/28/23 13:18	92.4	92.6
CHIP21RS	P-21RS	12/28/23 13:01	105.8	106.4
CHIP22RD	P-22RD	12/28/23 14:22	115.7	116.4
CHIP22RS	P-22RS	12/28/23 14:20	109.5	113.5
CHIWP023	P-23	12/15/23 11:38	79.9	79.8
CHIWP024	P-24	12/15/23 11:45	82.1	85.3
CHIWP026	P-26	12/15/23 12:16	81.9	82.1
CHIWP027	P-27	12/5/23 14:37	85.5	85.4
CHIWP027	P-27	12/15/23 12:21	81.7	81.8
CHIWP028	P-28	12/15/23 12:27	95.5	95.5

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP29R	P-29R	12/6/23 16:06	89.7	95.9
CHIWP30R	P-30R	12/5/23 14:50	88.7	88.2
CHIWP30R	P-30R	12/6/23 15:55	89.3	89.1
CHIP32R1	P-32R1	12/5/23 16:13	90.3	90.5
CHIP32R1	P-32R1	12/8/23 11:54	98.4	100.3
CHIP32R1	P-32R1	12/8/23 11:56	103.2	103.7
CHIP32R2	P-32R2	12/5/23 16:24	117.7	124.5
CHIP32R2	P-32R2	12/8/23 12:08	122.7	124.4
CHIWP033	P-33	12/6/23 16:18	76.8	81.8
CHIWP034	P-34	12/15/23 12:36	77.8	79.7
CHIWP036	P-36	12/5/23 14:54	91.1	103.7
CHIWP036	P-36	12/6/23 15:22	98.6	110.4
CHIWP037	P-37	12/5/23 15:08	85.7	95.0
CHIWP037	P-37	12/6/23 14:57	103.8	107.6
CHIP38RD	P-38RD	12/15/23 12:46	102.4	103.6
CHIP38RS	P-38RS	12/15/23 12:49	70.7	72.2
CHIWP039	P-39	12/31/23 8:32	45.6	46.0
CHIWP39A	P-39A	12/15/23 12:57	76.7	75.6
CHIWP041	P-41	12/15/23 13:04	99.8	101.3
CHIWP42R	P-42R	12/15/23 13:10	114.9	115.3
CHIWP043	P-43	12/6/23 16:02	115.6	116.6
CHIP44RD	P-44RD	12/5/23 15:42	99.4	99.4
CHIP44RD	P-44RD	12/6/23 15:56	97.3	98.3
CHIP44RS	P-44RS	12/5/23 15:39	119.3	119.9
CHIP44RS	P-44RS	12/6/23 15:51	119.5	120.4
CHIP45RD	P-45RD	12/28/23 13:52	108.3	111.3
CHIP45RS	P-45RS	12/28/23 13:59	109.3	109.3
CHIP46RD	P-46RD	12/28/23 14:04	103.6	104.2
CHIP46RS	P-46RS	12/28/23 14:02	114.6	114.6
CHIWP047	P-47	12/28/23 14:15	116.2	117.5
CHIWP048	P-48	12/11/23 16:45	117.8	117.9
CHIP49RD	P-49RD	12/31/23 8:42	113.5	113.9
CHIP49RS	P-49RS	12/31/23 8:44	112.8	112.8
CHIWP052	P-52	12/28/23 14:27	114.5	114.5
CHIWP053	P-53	12/28/23 14:33	106.3	106.5
CHIWP054	P-54	12/28/23 14:40	100.0	100.0
CHIWP055	P-55	12/28/23 14:49	100.5	100.4
CHIWP056	P-56	12/28/23 14:59	100.6	100.3
CHIWP057	P-57	12/28/23 15:06	77.9	77.9
CHIWP60R	P-60R	12/28/23 13:31	83.5	85.5
CHIWP061	P-61	12/28/23 13:25	82.1	82.1
CHIWP065	P-65	12/28/23 13:36	87.4	87.4
CHIWP071	P-71	12/28/23 14:21	115.1	115.1
CHIWP075	P-75	12/28/23 13:41	94.0	94.0
CHIWP076	P-76	12/5/23 15:49	102.0	102.0

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHIWP076	P-76	12/6/23 15:08	115.9	120.0
CHIWP079	P-79	12/28/23 12:36	89.1	89.1
CSC2000E	SC-2000E	12/8/23 11:49	110.6	111.0
CSC2001E	SC-2001E	12/8/23 11:29	91.8	92.7
CSC2001W	SC-2001W	12/13/23 14:47	94.5	94.6
CHISW010	SW-10	12/14/23 10:51	80.5	80.5
CHISW115	SW-115	12/31/23 10:46	76.2	76.3
CHSW1445	SW-1445	12/29/23 15:45	67.5	67.4
CHSW1455	SW-1455	12/13/23 14:57	84.5	84.5
CHISW154	SW-154	12/12/23 14:10	78.5	78.1
CSW17135	SW-17-135	12/29/23 15:47	65.4	65.3
CHISW187	SW-187	12/12/23 14:46	76.8	76.9
CHSW1930	SW-1930	12/4/23 11:12	79.6	79.7
CHSW1930	SW-1930	12/7/23 10:57	75.6	75.8
CHSW1930	SW-1930	12/8/23 8:20	52.8	52.8
CHSW1930	SW-1930	12/11/23 9:35	67.5	67.4
CHSW1930	SW-1930	12/12/23 9:51	70.7	70.8
CHSW1930	SW-1930	12/13/23 14:21	83.4	83.7
CHSW1930	SW-1930	12/14/23 10:36	78.2	78.4
CHSW1930	SW-1930	12/15/23 9:42	64.4	64.4
CHSW1930	SW-1930	12/19/23 8:40	58.9	58.8
CHSW1930	SW-1930	12/19/23 10:43	66.8	66.7
CHSW1930	SW-1930	12/20/23 9:12	59.5	59.5
CHSW1930	SW-1930	12/22/23 9:02	58.5	58.5
CHSW1930	SW-1930	12/26/23 8:40	51.5	51.5
CHSW1930	SW-1930	12/27/23 7:46	47.0	46.9
CHSW1930	SW-1930	12/28/23 8:03	43.5	43.4
CHSW1930	SW-1930	12/29/23 10:50	72.8	72.8
CHISW020	SW-20	12/13/23 11:40	74.2	76.4
CHISW020	SW-20	12/13/23 11:41	76.9	77.3
CHISW025	SW-25	12/4/23 11:19	81.6	81.6
CHISW025	SW-25	12/7/23 11:08	80.0	80.0
CHISW025	SW-25	12/8/23 8:28	75.2	75.2
CHISW025	SW-25	12/11/23 9:39	75.2	75.2
CHISW025	SW-25	12/12/23 9:59	76.9	77.0
CHISW025	SW-25	12/13/23 14:30	81.4	81.4
CHISW025	SW-25	12/14/23 10:43	77.6	77.6
CHISW025	SW-25	12/15/23 9:47	77.1	77.1
CHISW025	SW-25	12/19/23 8:46	79.1	79.1
CHISW025	SW-25	12/20/23 9:16	79.8	79.9
CHISW025	SW-25	12/22/23 9:08	77.7	77.7
CHISW025	SW-25	12/26/23 8:31	76.3	76.4
CHISW025	SW-25	12/27/23 7:51	74.1	73.9
CHISW025	SW-25	12/29/23 10:59	78.1	78.1
CHISW030	SW-30	12/4/23 11:52	79.3	79.4

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHISW030	SW-30	12/7/23 12:34	76.2	76.1
CHISW030	SW-30	12/8/23 8:53	61.9	62.0
CHISW030	SW-30	12/11/23 10:15	69.6	69.5
CHISW030	SW-30	12/12/23 10:52	77.3	77.3
CHISW030	SW-30	12/14/23 11:19	75.5	75.5
CHISW030	SW-30	12/15/23 10:26	73.4	73.4
CHISW030	SW-30	12/19/23 9:46	67.0	67.1
CHISW030	SW-30	12/20/23 10:09	66.3	66.2
CHISW030	SW-30	12/26/23 9:00	66.9	67.0
CHISW030	SW-30	12/27/23 8:24	67.0	67.0
CHISW030	SW-30	12/29/23 11:35	76.8	76.6
CHISW032	SW-32	12/4/23 11:57	76.6	76.4
CHISW032	SW-32	12/7/23 12:40	66.7	66.4
CHISW032	SW-32	12/8/23 8:57	63.8	64.1
CHISW032	SW-32	12/11/23 10:20	74.1	74.0
CHISW032	SW-32	12/12/23 10:56	85.2	85.2
CHISW032	SW-32	12/14/23 11:23	78.7	78.9
CHISW032	SW-32	12/15/23 10:29	78.1	78.2
CHISW032	SW-32	12/19/23 9:50	69.3	69.4
CHISW032	SW-32	12/20/23 10:02	59.4	59.4
CHISW032	SW-32	12/22/23 10:07	73.5	73.7
CHISW032	SW-32	12/26/23 9:14	56.7	56.3
CHISW032	SW-32	12/27/23 8:29	59.4	59.4
CHISW032	SW-32	12/27/23 8:33	72.2	72.5
CHISW032	SW-32	12/27/23 13:04	79.5	79.5
CHISW032	SW-32	12/29/23 11:38	73.0	72.7
CHISW064	SW-64	12/4/23 11:48	81.8	82.0
CHISW064	SW-64	12/7/23 12:29	78.6	78.5
CHISW064	SW-64	12/8/23 8:47	62.7	62.8
CHISW064	SW-64	12/11/23 10:11	70.6	70.3
CHISW064	SW-64	12/12/23 10:45	79.8	79.7
CHISW064	SW-64	12/14/23 11:15	75.8	75.8
CHISW064	SW-64	12/15/23 10:22	72.4	72.4
CHISW064	SW-64	12/19/23 9:42	63.8	63.7
CHISW064	SW-64	12/20/23 10:06	61.5	60.8
CHISW064	SW-64	12/22/23 9:57	72.5	72.6
CHISW064	SW-64	12/22/23 10:03	72.2	72.2
CHISW064	SW-64	12/26/23 8:56	58.3	58.3
CHISW064	SW-64	12/27/23 8:20	58.0	58.0
CHISW064	SW-64	12/29/23 11:31	76.2	76.2
CHISW065	SW-65	12/31/23 10:49	73.8	73.8
CHISW066	SW-66	12/12/23 14:14	88.7	88.7
CHISW068	SW-68	12/4/23 12:01	76.1	76.0
CHISW068	SW-68	12/7/23 12:14	72.8	72.9
CHISW068	SW-68	12/8/23 9:01	68.1	68.0

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHISW068	SW-68	12/11/23 10:26	70.1	70.4
CHISW068	SW-68	12/12/23 10:59	75.8	75.8
CHISW068	SW-68	12/14/23 11:26	72.3	72.2
CHISW068	SW-68	12/15/23 10:33	70.6	70.5
CHISW068	SW-68	12/19/23 9:53	66.6	66.4
CHISW068	SW-68	12/20/23 10:00	65.9	65.8
CHISW068	SW-68	12/22/23 10:10	70.9	70.8
CHISW068	SW-68	12/26/23 9:10	62.6	62.6
CHISW068	SW-68	12/27/23 8:37	61.9	61.7
CHISW068	SW-68	12/27/23 8:40	61.2	61.1
CHISW068	SW-68	12/27/23 13:11	70.1	70.0
CHISW068	SW-68	12/29/23 11:42	71.3	71.2
CHISW007	SW-7	12/4/23 11:24	77.4	77.4
CHISW007	SW-7	12/7/23 11:14	76.2	76.2
CHISW007	SW-7	12/8/23 8:35	71.9	72.0
CHISW007	SW-7	12/11/23 9:46	72.5	72.5
CHISW007	SW-7	12/12/23 10:03	74.4	74.5
CHISW007	SW-7	12/13/23 14:34	76.4	76.4
CHISW007	SW-7	12/14/23 10:47	74.7	74.7
CHISW007	SW-7	12/15/23 9:52	74.3	74.3
CHISW007	SW-7	12/19/23 8:50	73.7	73.7
CHISW007	SW-7	12/20/23 9:23	74.6	74.7
CHISW007	SW-7	12/22/23 9:12	71.6	71.7
CHISW007	SW-7	12/26/23 8:35	67.3	67.3
CHISW007	SW-7	12/27/23 7:56	66.2	66.2
CHISW007	SW-7	12/29/23 11:03	71.2	71.2
CHISW070	SW-70	12/12/23 14:49	85.5	85.7
CHISW071	SW-71	12/15/23 12:00	75.4	75.3
CHISW072	SW-72	12/5/23 14:48	85.4	85.4
CHISW072	SW-72	12/6/23 15:35	82.4	83.0
CHISW080	SW-80	12/12/23 12:06	85.5	85.7
CHISW009	SW-9	12/12/23 14:51	78.0	78.0
CHH1959S	TC-1959S	12/13/23 15:52	101.9	102.0
CHH1961A	TC-1961A	12/14/23 16:26	111.0	110.7
CHH1961C	TC-1961C	12/8/23 8:51	112.2	113.0
CHH1961E	TC-1961E	12/7/23 16:53	115.5	116.1
CHH1961W	TC-1961W	12/8/23 10:17	106.0	106.1
CHH2173W	TC-2173	12/7/23 9:07	108.4	108.4
CHTC2174	TC-2174	12/5/23 8:32	146.1	146.2
CHTC2174	TC-2174	12/12/23 11:43	145.5	145.5
CHTC2174	TC-2174	12/12/23 15:48	145.9	146.1
CHTC2174	TC-2174	12/12/23 15:49	146.5	146.5
CHTC2174	TC-2174	12/18/23 9:13	146.6	146.6
CHTC2174	TC-2174	12/26/23 8:48	147.3	147.4
CHTC2378	TC-2378	12/8/23 9:31	149.1	149.1

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Point ID	Point Name	Record Date	Init Temp [°F]	Adj Temp [°F]
CHTC2378	TC-2378	12/11/23 15:16	149.8	149.8
CHTC2378	TC-2378	12/11/23 15:19	149.8	149.8
CHTC2378	TC-2378	12/13/23 11:45	147.8	147.8
CHTC2378	TC-2378	12/19/23 10:15	149.9	149.9
CHTC2378	TC-2378	12/27/23 15:19	150.9	150.9
CTC2378E	TC-2378E	12/7/23 9:35	143.0	143.0
CTC2378E	TC-2378E	12/7/23 9:37	143.1	143.2
CTC2378E	TC-2378E	12/8/23 9:15	141.7	141.7
CTC2380E	TC-2380E	12/5/23 13:54	101.0	101.0
CTC2380W	TC-2380W	12/11/23 15:26	114.1	114.1
CTC2381E	TC-2381E	12/11/23 11:38	123.6	123.6
CTC2381E	TC-2381E	12/11/23 11:51	129.4	129.3
CTC2382B	TC-2382B	12/6/23 9:55	166.0	166.0
CTC2382B	TC-2382B	12/13/23 8:46	152.3	152.3
CTC2382B	TC-2382B	12/13/23 16:07	145.9	146.2
CTC2382B	TC-2382B	12/13/23 16:09	146.4	146.2
CTC2382B	TC-2382B	12/18/23 15:00	126.6	126.4
CTC2382B	TC-2382B	12/27/23 12:36	113.0	112.8
CTC2382E	TC-2382E	12/5/23 11:16	160.1	166.0
CTC2382E	TC-2382E	12/12/23 16:00	166.8	166.8
CTC2382E	TC-2382E	12/18/23 14:41	165.5	165.5
CTC2382E	TC-2382E	12/27/23 10:46	162.8	162.8
CTC2383S	TC-2383S	12/31/23 12:54	60.0	60.2
CTC2383S	TC-2383S	12/31/23 12:55	60.1	60.1
CTC2385A	TC-2385A	12/7/23 10:03	129.3	129.3
CTC2385A	TC-2385A	12/11/23 14:46	115.2	115.3
CTC2385N	TC-2385N	12/11/23 14:31	113.9	114.1
CTC2385S	TC-2385S	12/5/23 16:55	103.6	103.6
CHIWVL02	VL-02	12/13/23 9:16	79.1	79.2

Attachment E

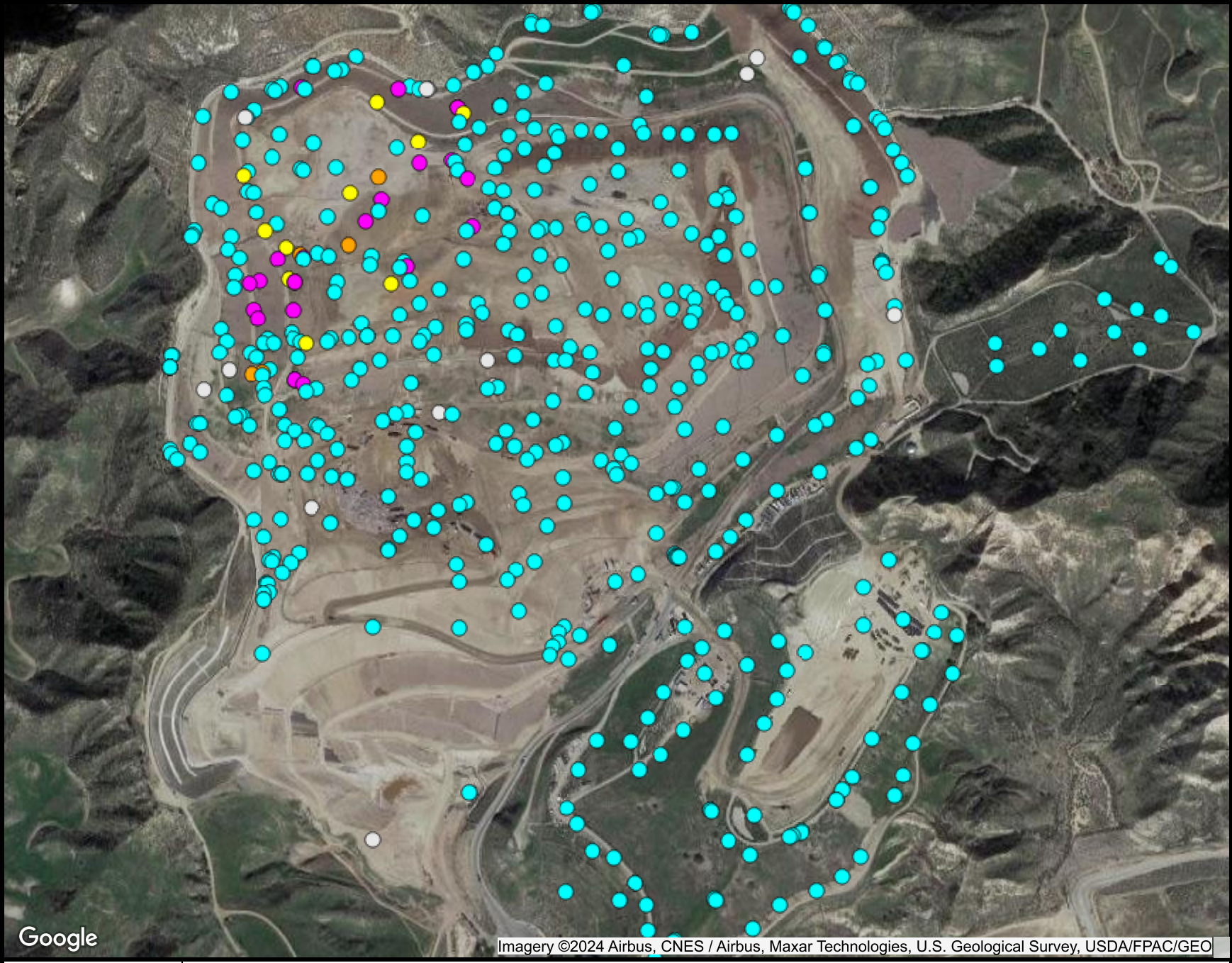
Lab Analysis and Draeger Tube Readings

Attachment E - Lab Analysis and Draeger Tube Data
December 2023

Date Sampled	Draeger Tube Readings (ppmv)	Lab Analysis (ppmv)		
	H2S	H2S	DMS	TRS
12/7/2023	5	8.69	209	312.0
12/14/2023	12	13.8	160	241.3
12/20/2023	23	21.4	137	202.0
12/27/2023	35	33.4	220	347.5

Attachment F

Graphic Map



Ranges Mapped

				# Points
>	-50	and <=	145	494
>	145	and <=	160	13
>	160	and <=	169.99	5
>	169.99	and <=	999	20
	N/A		N/A	16

Point Type Legend

well

N

SCSeTools

Chiquita Canyon Landfill

Range Map

Parameter: AdjTemp

Analysis Method: Average

Date Range: 12/01/2023 - 12/31/2023

Map generation date : 01/12/2024



GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY TETRA TECH BAS. AERIAL PHOTOGRAPHY DATED 1/18/2023.
2. NORTH ARROW SHOWN HERE IS REFERENCE TO THE CALIFORNIA STATE PLANE ZONE V COORDINATE SYSTEM, NAD 83.
3. THE LOCATION OF ANY EXISTING GCCS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FILL OPERATIONS. ACTUAL FIELD CONDITIONS MAT VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

NO. | REVISION | DATE

SHEET TITLE: WELL TEMPERATURE MAP

PROJECT TITLE: DECEMBER 2023 MONTHLY REPORT CHIQUITA LANDFILL CASTAIC, CALIFORNIA

CLIENT:

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX. (562) 427-0805

ACAD FILE: ENGINEERS
APP. BY: -
DWN. BY: VC
CHK. BY: BH
PROJ. NO: 07214017.93
DSN. BY: -

DATE: 01/12/2024

SCALE: AS SHOWN

SHEET: 1

\\san-fs02\Data Files\Engineers\Waste Connections\Chiquita Canyon LF\2023 CCLF SWMP SAO\2023 Well Temperature Map\DWG\2023\12 December\CCLF 2023 Well Temperature Map_Dec 2023_v0.1_2024-01-12.dwg Jan 12, 2024 - 2:00pm By: 2957vgc

Attachment G

Inspection Logs

12-1-23

CRACKS WERE TRACK WALKED



12-4-23

CRACKS WERE TRACK WALKED

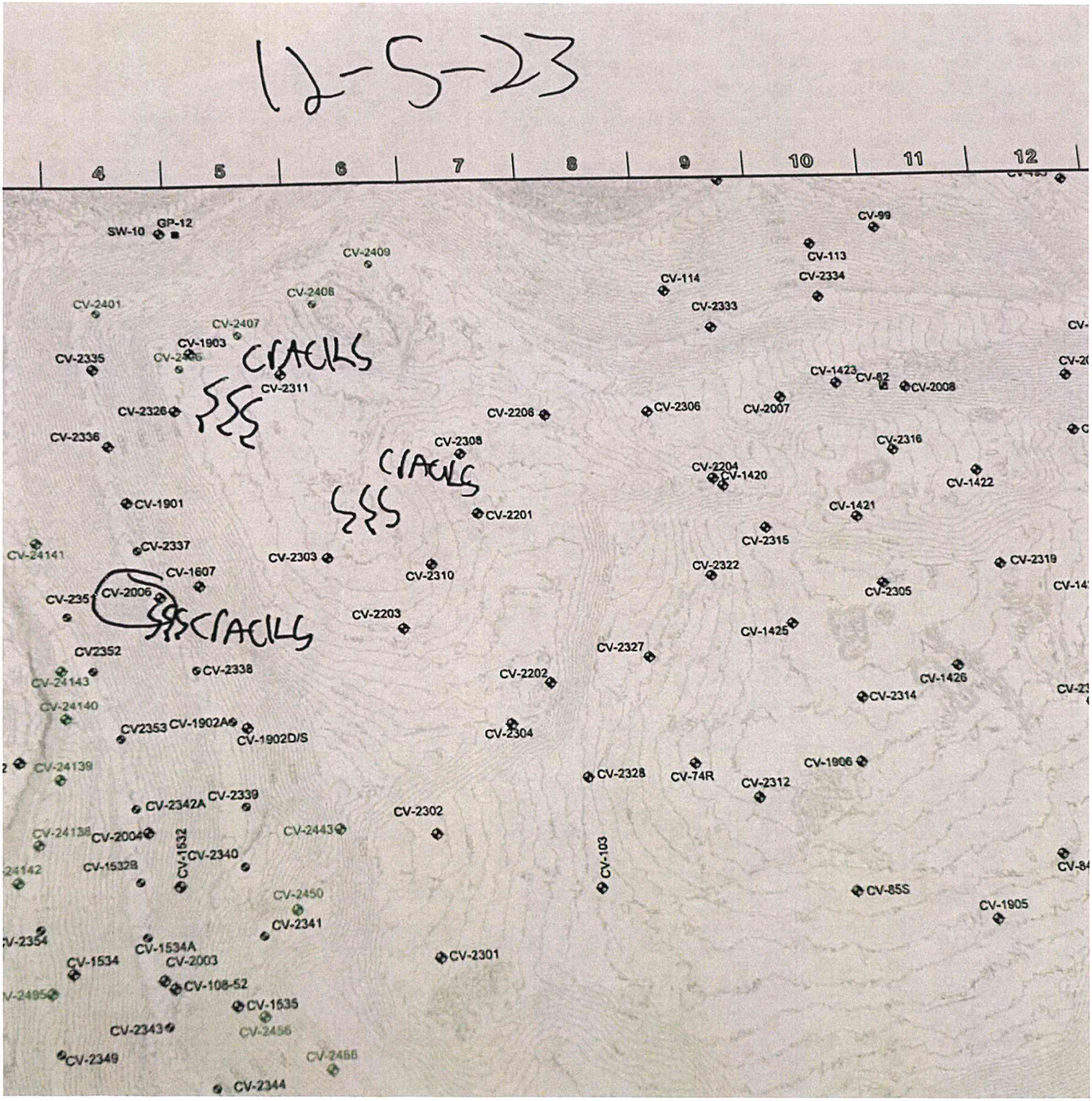


12-05-23

CRACKS WERE TRACK WALKED



12-6-23
CRACKS WERE
TRACK WALKED



12-07-23

CRACKS WERE TRACK WALKED



12-8-23 cracks were trace walked



12-11-23
cracks were
track walked



12-12-23

CRACKS WERE TRACK WALKED



12-13-23 CRACKS WERE TRACK WALKED



12-14-23 CRACKS WERE TRACK WALKED



12-15-23 CRACKS WERE TRACK WALKED



12-18-23 CRACKS WERE TRACK WALKED



12-19-23

CRACKS WERE TRACK WALKED



12/20/23

Cracks were Track Walked

N



W

E

S

12/21/23 Cracks were Track walked

N

W



E

S

12/22/23 cracks were track walked

N



W

E

S

12-23-23 cracks were track walked

N



W

E

S

12-26-23 CRACKS WERE TRACK WALKED



12-27-23

CRACKS ARE BEING TRACK WALKED



12-28-23

CRACKS WERE TRACK WALKED



11-29-23 CRACKS WERE TRACK WALKED



12-30-23

cracks were track walked

N



W

E

S

Attachment H

Geosynthetic Cover Memorandum

TETRA TECH

MEMORANDUM

To:	Steve Cassulo
From:	Julie Hauenstein P.E. – Tetra Tech
Date:	December 19, 2023
Subject:	Re: Chiquita Canyon Landfill – Mitigation Measure #2A

1.0 INTRODUCTION

This memorandum summarizes the plan to address Mitigation Measure #2A as required by the Los Angeles County Local Enforcement Agency (the LEA) compliance letter, dated December 14, 2023. As noted in Chiquita Canyon, LLC's (Chiquita) December 15, 2023 response to the LEA's December 14 letter, Chiquita will install a 30 mil HDPE geomembrane cover over the reaction settlement area. Attachment 1 to this memorandum shows the approximate area of the Chiquita Canyon Landfill (Landfill) that must be covered to address Mitigation Measure #2A, an area of approximately 23.9 acres. The 23.9-acre area also includes additional area to accommodate necessary drainage improvements.

2.0 GEOMEMBRANE COVER

2.1 INSTALLATION WORK PLAN

An exposed geosynthetic cover comprised of 30 mil HDPE geomembrane will be installed as noted in Chiquita's December 15 response to the LEA. Attachment 2 to this memorandum provides the technical data sheet for this geomembrane cover material. This product has a nominal thickness of 30 mils, is textured on both sides, and is white on one side and black on the other. The geomembrane will be installed with the white side up to reduce thermal expansion and contraction.

As a first step in the installation process, Chiquita will remove the green waste and vegetation that is growing on the area that will be covered and prepare the subgrade for geomembrane installation. Surface landfill gas collectors will then be installed in the area to prevent landfill gas from building up pressure under the geomembrane once it is installed. Pressure relief valves will be installed in the geomembrane to vent the geomembrane in the event that the landfill gas collection and control system (GCCS) goes off-line. Portions of the existing GCCS will be taken off-line and the laterals, headers and vacuum lines will be disconnected and temporarily relocated, the geomembrane will then be installed and the laterals, headers and vacuum pipes will be replaced above the geomembrane then reconnected and brought back on-line. The GCCS laterals, headers and vacuum pipes will be installed over the geomembrane so that adjustments can be made to maintain positive drainage within the pipe network.

Geomembrane pipe boots will be installed around vertical landfill gas wells to provide a continuous seal.

A sandbag ballast system will also be placed on top of the geomembrane to prevent uplift.

The installation of the geomembrane cover will be phased by area of the Landfill. Chiquita plans to install the geomembrane over the following portions of the Landfill in the following order: (1) northerly portion of the west slope of the reaction area; (2) top deck of the reaction area; (3) central portion of the west slope of the reaction area; and (4) north slope of the reaction area. Phases are necessary because of various preparatory tasks, including clearing the area, ensuring proper grading to promote drainage, temporary relocation of portions of the existing GCCS and installing

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Tel 909.860.7777 tetratech.com

necessary landfill gas collector systems. Chiquita intends to sequence the work so that the preparatory tasks are completed ahead of the liner crew and that liner installation is continuous.

2.2 MAINTENANCE

Any significant depressions in the landfill surface under the geomembrane will be repaired by cutting back the geomembrane, filling in the depression with clean soil, and then placing a patch of geomembrane material over the hole that extends beyond the cut location. A channel and/or pump capable of draining the lowest point of the depression will be constructed or installed if ponding is anticipated for a prolonged period or a change to surface drainage is required. The site engineer will be responsible for directing fill placement in the depression to facilitate drainage. Records of the depths and limits of fill placement will be maintained.

Elective penetration of the geomembrane cover system associated with installation or maintenance of GCCS components will be initiated in coordination with, and with the approval of, the site engineer. All earthwork and geosynthetic repairs will be completed in accordance with the procedures contained in the specifications and construction quality assurance (CQA) plan that will be prepared for the project. For well boring excavations, the annular space between the well casing and the boring wall will be backfilled with bentonite from a depth of approximately 5-feet below grade to 3-feet below grade, to achieve an adequate seal around the pipe. A geomembrane pipe boot will then be installed around the completed well and welded to the surrounding geomembrane. Note also that placing a geomembrane cover over an area of the Landfill with rapid settlement could result in delays in adjustments/expansion of the GCCS and repair of low spots due to restrictions in access, the need to mobilize a liner crew to make repairs, and an inability to work in wet conditions.

2.3 ANTICIPATED INSTALLATION SCHEDULE

This section provides the anticipated schedule for the installation of this geosynthetic cover. This timeline is subject to change based on weather, material availability, site conditions, and other unanticipated events. The size of the cover area may also be subject to change based on further monitoring of existing or proposed gas extraction wells. The construction schedule discussed below is based on working six days a week, 10-hours a day.

Weeks 1-2 – Mobilization, clearing, grubbing, and drainage improvements.

Week 2 – Installation of surface landfill gas collectors.

Weeks 3-10 – Geomembrane cover placement (assumes approximately 23.9 acres of placement at an installation rate of approximately 0.35 acres per day, based on a typical base liner installation rate of 1 acre per day and reduced to 0.35 to account for working around/under existing landfill gas system improvements).

Week 11 – Construction Quality Assurance Report Submittal to LEA.

Note that current weather conditions will not allow for construction to start this week. However, Chiquita will be meeting with contractors this week to discuss staging and sequencing, and anticipates starting mobilization/clearing and grubbing on Tuesday, December 26, 2023, weather permitting.

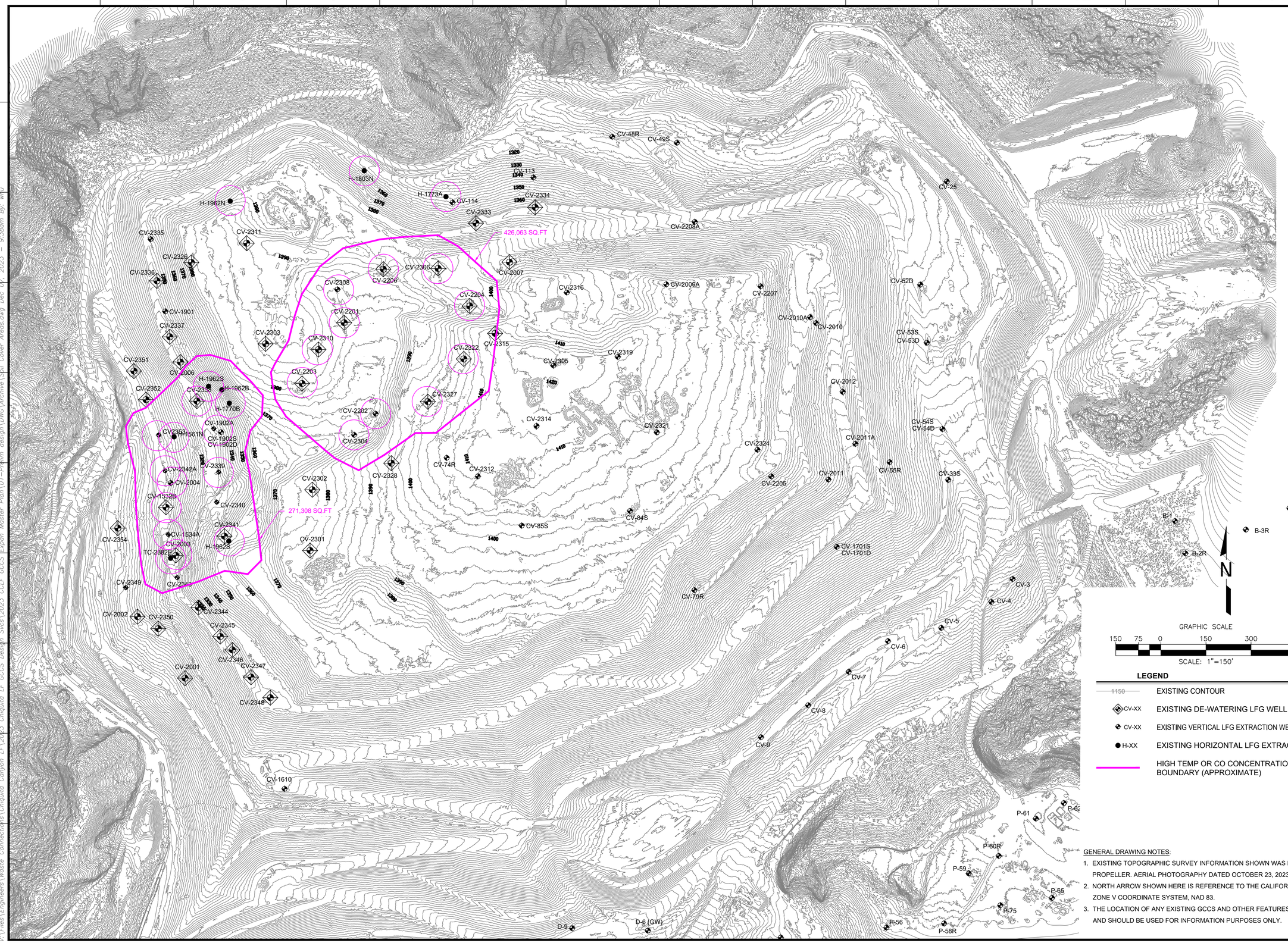
2.4 MATERIAL AVAILABILITY

Currently, Chiquita has 1,307,250 square feet (30 acres) of the 30 mil HDPE geomembrane cover material onsite and will be purchasing more to ensure there is enough material to expand the cover as needed.

Attachments:

1. Approximate Cover Area
2. 30 mil HDPE Geomembrane Technical Data Sheet

Attachment 1
Approximate Cover Area



LEGEND

1150	EXISTING CONTOUR
CV-XX	EXISTING DE-WATERING LFG WELL WITH PUMP
CV-XX	EXISTING VERTICAL LFG EXTRACTION WELL
H-XX	EXISTING HORIZONTAL LFG EXTRACTION WELL
	HIGH TEMP OR CO CONCENTRATIONS AREA BOUNDARY (APPROXIMATE)

GENERAL DRAWING NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION SHOWN WAS PROVIDED BY PROPELLER. AERIAL PHOTOGRAPHY DATED OCTOBER 23, 2023.
2. NORTH ARROW SHOWN HERE IS REFERENCE TO THE CALIFORNIA STATE PLANE ZONE V COORDINATE SYSTEM, NAD 83.
3. THE LOCATION OF ANY EXISTING GCCS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.

NO.	REVISION	DATE

SHEET TITLE: HIGH TEMP AND CO AREAS

PROJECT TITLE: CHIQUITA LANDFILL CASTAIC, CALIFORNIA

CLIENT: CHIQUITA CANYON LANDFILL CASTAIC, CALIFORNIA

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX: (562) 427-0805

PROJ. NO. 07214017.93 | DSN. BY: JH | DWN. BY: SRM/JH | CHK. BY: WCH | ACAD. PE: - | APP. BY: -

DATE: 12/6/2023

SCALE: AS SHOWN

SHEET: 1

V:\Files\Engineers\Waste Connections\Chiquita Canyon LF\2023 Chiquita LF GCCS Design Svcs\2023 CCLF GCCS Expan Master Plan\01-Prelim design\DWG\Archive\Spir Cover Areas.dwg Dec 07, 2023 - 9:38am By: wlu

Attachment 2
30 mil HDPE Geomembrane Technical Data Sheet

SOLMAX

TECHNICAL DATA SHEET

HDPE 7000 30 mil White Reflective Textured

PROPERTY(1)	TEST METHOD	FREQUENCY	UNIT Imperial	1084228
SPECIFICATIONS				
Thickness (Nominal ±10%) (11)	ASTM D5994	Every roll	mils	30
Asperity Height (min. avg.)	ASTM D7466	Every roll	mils	16
Resin Density	ASTM D1505	Certified	g/cc	> 0.932
Melt Index - 190°C/2.16 kg (max.)	ASTM D1238	Certified	g/10 min	1.0
Density	ASTM D792	One per batch	g/cm^3	≥ 0.940
Carbon Black Content	ASTM D4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D5596	Every 10 rolls	Category	Cat. 1 & Cat. 2
OIT - Standard (min. avg.)	ASTM D8117	Per formulation	min	100
Tensile Properties (min. avg) (2)	ASTM D6693	Every 5 rolls		
Strength at Yield			lbs/in	63
Elongation at Yield			%	12
Strength at Break			ppi	45
Elongation at Break			%	100
Tear Resistance (min. avg.)	ASTM D1004	Every 10 rolls	lbf	21
Puncture Resistance (min. avg.)	ASTM D4833	Every 10 rolls	lbf	45
Dimensional Stability	ASTM D1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D5397	One per batch	hr	500
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation (5)		
HP-OIT (min. avg.)	ASTM D5885		%	80
UV Resistance - % retained after 1,600 hr	ASTM D7238	Per formulation (5)		
HP-OIT (min. avg.)	ASTM D5885		%	50
SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		ft	22.5
Roll Dimension - Length	-		ft	830
Area (Surface/Roll)	-		ft^2	18675
Color (one side) (4)	-			White

NOTES

1. Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
4. Black or grey spots may be visible on the textured surface. Smooth edge may not have the same consistent shade of color as the membrane itself. The colored layer may cause the carbon black content results to be higher than 3%.
5. Certified by core (black) formulation on geomembrane roll or molded plaque.
11. The minimum average thickness is ±10% of the nominal value.

* All values are nominal test results, except when specified as minimum or maximum.
* The information contained herein is provided for reference purposes only and is not intended as a warranty or guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. SOLMAX assumes no liability in connection with the use of this information.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

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Revision date 10-Sep-2020

Appendix F
Compliance Status Summary Tables

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
1	This grant authorizes the continued operation and maintenance of a solid waste disposal facility at the Chiquita Canyon Landfill ("CCL"). In particular, this grant will: A. Increase the permitted disposal area within CCL laterally by 149 acres to a total area of 400 acres to accommodate new waste and may have a maximum permitted elevation of 1,430 feet. B. Upon the Effective Date, as defined in this grant, through December 31, 2024, allow an annual limit of intake of combined solid waste and beneficial use materials not to exceed 2,800,000 tons per year ("tpy"). C. Effective January 1, 2025 through 2047, allow an annual limit of intake of combined solid waste and beneficial use materials not to exceed 1,800,000 tpy. D. Relocate the site entrance from State Highway 126, the portion known as Henry Mayo Drive, to Wolcott Way. E. Provide for the development and operation of an on-site household hazardous facility and a closed, mixed organics composting operation (anaerobic digestion).	Noted. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
2	Unless otherwise apparent from the context, the term "permittee" shall include the permittee, and any other person, corporation, or entity making use of this grant.	Noted.
3	Unless otherwise apparent from the context, the following definitions shall apply to these Conditions of Approval ("Conditions"), and to the attached Implementation and Monitoring Program ("IMP"), adopted concurrently with this grant: Definitions “A” through “EEEE”	Noted. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
4	Unless otherwise expressly provided in this grant, applicable federal, State, or local definitions shall apply to the terms used in this grant. Also, whenever a definition or other provision of this grant refers to a particular statute, code, regulation, ordinance, or other regulatory enactment, that definition or other provision shall include, for the life of this grant, any amendments made to the pertinent statute, code, regulation, ordinance, or other regulatory enactment.	Noted.
5	This grant shall not be effective for any purpose until the permittee, and the owner of the subject property (if other than the permittee), have filed at the office of the Department of Regional Planning their affidavit stating that they are aware of and agree to accept all of the conditions of this grant, and that the conditions of this grant have been recorded, as required by Condition No. 10, and until all required monies have been paid, pursuant to Condition Nos. 13, 19, 20, and 125. Notwithstanding the foregoing, this Condition No. 5 and Condition Nos. 6, 7, 8, 9, and 13 shall be effective immediately upon the Approval Date of this grant by the County. The filing of the affidavit required by Condition No. 18 constitutes a waiver of the permittee's right to challenge any provision of this grant.	On July 28, 2017, CCL recorded the County’s affidavit of acceptance with inserted text expressly reserving its rights to challenge the conditions in the CUP and filed the recorded affidavit with the Los Angeles County Department of Regional Planning (LADRP) on August 1, 2017. On August 1, 2017, LADRP stated in an email that the language added to the affidavit purportedly invalidated it. LADRP stated that the affidavit “will need to be re-recorded with the affidavit form that we sent you, without the alterations.” County staff subsequently directed CCL to record the affidavit without alterations and to set forth its reservation of rights in a separate letter. On August 3, 2017, CCL recorded an amended affidavit as directed by LADRP. On August 4, 2017, CCL filed the amended affidavit to LADRP, noting that the amended affidavit was recorded as directed by LADRP and that CCL would document its continued protest and reservations in a separate letter. On August 23, 2017, CCL provided a written confirmation of its reservation of rights to LADRP. On August 24, 2017, CCL sent a letter to LADRP confirming the effective date of July 28, 2017, after the County had determined that this should be used as the effective date of the permit.
6	The permittee shall defend, indemnify, and hold harmless the County, its agents, officers, and employees from any claim, action, or proceeding against the County or its agents, officers, or employees brought by any third party to attack, set aside, void, or annul this permit approval, or any related discretionary approval, whether legislative or quasi-judicial, which action is brought within the applicable time period of California Government Code section 65009, or other applicable limitations period. The County shall promptly notify the permittee of any claim, action, or proceeding, and the County shall fully cooperate in the defense. If the County fails to promptly notify the permittee of any claim, action, or proceeding, or if the County fails to cooperate fully in the defense, the permittee shall not thereafter be responsible to defend, indemnify, or hold harmless the County.	A petition for writ of mandate was filed on August 24, 2017, in the Superior Court of California, County of Los Angeles, against the County of Los Angeles by three petitioner organizations. CCL made the initial deposit required by Condition No. 8 on September 18, 2017. At the request of LADRP, CCL made an additional supplemental deposit into the fund on March 6, 2018.
7	The permittee shall defend, indemnify, and hold harmless the County, its agents, officers, and employees from any claim, action, or proceeding against the County for damages resulting from water, air, or soil contamination, health impacts, or loss of property value during the operation, or Closure or Post-Closure Maintenance of the Facility.	Noted. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
8	In the event that any claim, action, or proceeding, as described above, is filed against the County, the permittee shall within ten days of the filing make an initial deposit with the Department of Regional Planning of $10,000 from which actual costs and expenses shall be billed and deducted for the purpose of defraying the costs or expenses involved in the County's cooperation in the defense, including but not limited to, depositions, testimony, and other assistance provided to the permittee or the permittee's counsel. If during the litigation process, actual costs or expenses incurred reach 80 percent of the amount on deposit, the permittee shall deposit additional funds sufficient to bring the balance up to the amount of $10,000. There is no limit to the number of supplemental deposits that may be required prior to completion of the litigation.	A petition for writ of mandate was filed on August 24, 2017, in the Superior Court of California, County of Los Angeles, against the County of Los Angeles by three petitioner organizations. CCL made the initial deposit required by Condition No. 8 on September 18, 2017. At the request of LADRP, CCL made an additional supplemental deposit into the fund on March 7, 2018. CCL paid supplemental deposits to LADRP on April 15, 2019, and June 11, 2019, as requested by LADRP. In addition, CCL paid supplemental deposits of $74,686.86 on April 18, 2020, $24,193.52 on October 8, 2020, and $19,031 on March 22, 2021. No additional deposits were requested by LADRP during the 2022 or 2023 Reporting Periods.

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
	At the sole discretion of the permittee, the amount of an initial or any supplemental deposit may exceed the minimum amounts defined herein. Additionally, the cost for collection and duplication of records and other related documents shall be paid by the permittee, according to County Code Section 2.170.010.	During the 2023 Reporting Period, CCL made additional payments to LADRP of $25,952.13 on March 14, 2023, and $6,547.41 on May 31, 2023.
9	If any material provision of this grant is held or declared to be invalid by a court of competent jurisdiction, the permit shall be void, and the privileges granted hereunder shall lapse.	Noted. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement resolves the challenge to this condition.
10	Prior to the Effective Date of this grant, the permittee, or the owner of the subject property if other than the permittee, shall record the terms and conditions of this grant in the office of the County Registrar-Recorder/County Clerk ("Recorder"). In addition, upon any transfer or lease of the subject property during the term of this grant, the permittee or the owner of the subject property, if other than the permittee, shall promptly provide a copy of the grant and its terms and conditions to the transferee or lessee of the subject property. Upon recordation, the permittee shall provide an official copy of the recorded conditions to the Director of Regional Planning.	On July 28, 2017, CCL recorded the conditions of approval for the CUP, along with the affidavit of acceptance required by Condition No. 5. The conditions of approval were subsequently re-recorded on August 3, 2017, along with the amended affidavit discussed for Condition No. 5.
11	This grant shall expire, unless it is used within one year from the Approval Date of the grant. A single one-year time extension may be requested in writing and with the payment of the applicable fee prior to such expiration date. This grant shall be considered used upon the receipt of Solid Waste at the Facility and disposal activities any day after Approval Date, and when permittee has completed the requirements of Condition No. 5.	Noted.
12	The subject property shall be developed, maintained, and operated in full compliance with the conditions of this grant, and any law, statute, ordinance, or other regulation applicable to any development or activity on the subject property. Failure of the permittee to cease any development or activity not in full compliance shall be a violation of this grant. Inspections shall be made to ensure compliance with the conditions of this grant, as well as to ensure that any development undertaken on the subject property is in accordance with the approved site plan on file. The permittee shall also comply with the conditions and requirements of all permits or approvals issued by other government agencies or departments, including, but not limited to, the permits or approvals issued by: A. Cal Recycle; B. DPH, including the DPH letter dated February 23, 2017, and all other DPH requirements; C. The Department of Public Works; D. The Los Angeles County Solid Waste Management Committee/Integrated Waste Management Task Force; E. CARB; F. The California Regional Water Quality Control Board ("CRWQCB"); G. SCAQMD; H. The California Department of Fish and Wildlife; I. The United States Army Corps of Engineers; J. The California Department of Health Services; K. The Los Angeles County Fire Department, including the requirements in the Fire Department letter dated February 24, 2017; applicant must receive Fire Department clearance of gated entrance design off Wolcott Way and Fuel Modification Plan prior to Effective Date, and comply with all other Fire Department requirements; and L. The Department of Regional Planning. The permittee shall not engage in activities which may impede the abilities of these agencies and other consultants hired by the County to conduct inspections of the site, whether announced or unscheduled.	Noted. Compliance with the conditions included in the DPH letter dated February 23, 2017, and the Los Angeles County Fire Department letter dated February 24, 2017, is outlined in Section 14 of this 2023 Annual Compliance Report, and detailed in Table F3, Additional Conditions of Approval Compliance Status Summary Table. CCL received a Notice of Violation (NOV) from the LADRP on August 18, 2023, related to Condition 12 and Condition 63. This NOV and corrective actions are described in Section 7 of this 2023 Annual Compliance Report.
13	Within five working days of the Approval Date of this grant, the permittee shall remit processing fees payable to the County in connection with the filing and posting of a Notice of Determination ("NOD") for this project and its entitlements, in compliance with section 21152 of the California Public Resources Code. Unless a Certificate of Exemption is issued by the California Department of Fish and Wildlife, pursuant to section 711.4 of the California Fish and Game Code, the permittee shall pay the fees in effect at the time of the filing of the NOD, as provided for in section 711.4 of the Fish and Game Code, currently $3,153.25 ($3,078.25 for an Environmental Impact Report plus $75 processing fee). No land use project subject to this requirement is final, vested, or operative until the fee is paid.	The NOD was filed with the Los Angeles County Clerk on July 25, 2017. At that time, fees in the amount of $3,153.25 were paid as provided for in section 711.4 of the California Fish and Game Code.
14	Upon the Effective Date, the permittee shall cease all development and other activities that are not in full compliance with Condition No. 12, and the failure to do so shall be a violation of this grant. The permittee shall keep all required permits in full force and effect, and shall fully comply with all requirements thereof. Failure of the permittee to provide any information requested by County staff regarding any such required permit shall constitute a violation of this grant and shall be subject to any and all penalties described in Condition No. 20.	Noted.

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
	It is hereby declared to be the intent of this grant that if any provision of this grant is held or declared to be invalid by a court of competent jurisdiction, the permit shall be void, and the privileges granted hereunder shall lapse.	
15	To the extent permitted by law, the Department of Regional Planning or DPH shall have the authority to order the immediate cessation of Landfill operations or other activities at the Facility if the Board, Department of Regional Planning, or DPH determines that such cessation is necessary for the health, safety, and/or welfare of the County's residents or the environment. Such cessation shall continue until such time as the Department of Regional Planning or DPH determines that the conditions leading to the cessation have been eliminated or reduced to such a level that there no longer exists an unacceptable threat to the health, safety, and/or welfare of the County's residents or the environment.	Noted.
16	The permittee shall comply with all mitigation measures identified in the Mitigation Monitoring and Reporting Program ("MMRP"), which are incorporated by this reference, as if set forth fully herein.	Table F4, MMRP Compliance Status Summary Table, details compliance with the MMRP.
17	The permittee shall comply with the Implementation and Monitoring Program ("IMP"), which is attached hereto and incorporated by this reference, as if set forth fully herein.	Table F2, IMP Compliance Status Summary Table, details compliance with the IMP.
18	Within 30 days of the Approval Date, the permittee shall record a covenant and agreement, which attaches the MMRP and the IMP, and agrees to comply with the mitigation measures imposed by the Environmental Impact Report for this project and the provisions of the IMP, in the office of the County Registrar-Recorder/Clerk ("Recorder''). Prior to recordation, the permittee shall submit a draft copy of the covenant and agreement to the Department of Regional Planning for review and approval. As a means of ensuring the effectiveness of the mitigation measures and IMP measures, the permittee shall submit annual mitigation monitoring reports to the Department of Regional Planning for approval, or as required, with a copy of such reports to the Department of Public Works, the CAC and the TAC. The report shall describe the status of the permittee's compliance with the required measures. The report shall be due for submittal on July 1 of each year, and shall be submitted for review and approval no later than March 30, annually.	On August 23, 2017, CCL submitted a draft copy of the covenant and agreement to LADRP for review and approval. LADRP approved the draft covenant on August 23, 2017. The covenant was recorded, and a copy of the recorded document was filed with the Department of Regional Planning on August 24, 2017.
19	Within 30 days of the Approval Date of this grant, the permittee shall deposit an initial sum of $10,000 with the Department of Regional Planning to defray the cost of reviewing and verifying the information contained in the reports required by the MMRP, and inspecting the premises to ensure compliance with the MMRP, and to undertake any other activity of the Department of Regional Planning to ensure that the mitigation measures are satisfied, including, but not limited to, carrying out the following activities: enforcement, permitting, inspections, providing administrative support in the oversight and enforcement of mitigation measures, performing technical studies, and retaining the services of an independent consultant for any of the aforementioned purposes, or for routine monitoring of any and/or all of the mitigation measures. If the actual costs incurred pursuant to this Condition No. 19 have reached 80 percent of the amount of the initial deposit ($10,000), and the permittee has been so notified, the permittee shall deposit supplemental funds to bring the balance up to the amount of the initial deposit ($10,000) within ten business days of such notification. There is no limit to the number of supplemental deposits that may be required during the life of this grant. The permittee shall replenish the mitigation monitoring account, if necessary, until all mitigation measures have been implemented and completed. Any balance remaining in the mitigation monitoring account upon completion of all measures and completion of the need for further monitoring or review by the Department of Regional Planning shall be returned to the permittee.	The initial sum of $10,000 required by this Condition No. 19 was deposited with LADRP on August 10, 2017. CCL was requested to provide additional funds in 2019 and deposited an additional $9,324.42 on April 15, 2019, and $5,326.95 on November 7, 2019. CCL was also requested to provide additional funds in 2020, and deposited an additional $23,458.36 on April 10, 2020, and $33,583.18 on December 31, 2020. Additionally, the remaining balance of $3,268.52 from the EIR account (200400039) was transferred into this account on March 4, 2020. In 2021, CCL made two payments to LADWP totaling $27,260. During the 2022 Reporting Period, CCL made payments to LADRP of $13,724 on February 19, 2022, $9,029.13 on May 26, 2022, and $12,532.40 on July 15, 2022. During the 2023 Reporting Period, CCL made additional payments to LADRP of $25, 952.13 on March 14, 2023, and $6,547.41 on ~~March 2~~May 31, 2023. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
20	Notice is hereby given that any person violating a provision of this grant is guilty of a misdemeanor, pursuant to Section 22.60.340 of the County Code. Notice is further given that the Regional Planning Commission ("Commission") or a Hearing Officer may, after conducting a public hearing in accordance with Section 22.56.1780, et seq. of the County Code, revoke or modify this grant, if the Commission or Hearing Officer finds that these conditions have been violated, or that this grant has been exercised so as to be detrimental to the public's health or safety, or so as to be a nuisance, or as otherwise authorized pursuant to Chapter 22.56, Part 13, of the County Code. In addition to, or in lieu of, the provisions just described, the permittee shall be subject to a penalty for violating any provision of this grant in an amount determined by the Director of Regional Planning, not to exceed $1,000 per day per violation. For this purpose, the permittee shall deposit the sum of $30,000 in an interest-bearing trust fund with the Department of Regional Planning, within 30 days after the Effective Date, to establish a draw-down account. The permittee shall be sent a written notice for any such violation with the associated penalty, and if the noticed violation has not been remedied within 30 days from the date of the notice, to the satisfaction of the Director of Regional Planning, the stated penalty, in the written notice shall be deducted from the draw-down account. If the stated violation is corrected within 30 days from the date of the notice, no amount shall be deducted from the draw-down account. Notwithstanding the previous sentence, if the stated violation is corrected within 30 days from the date of the notice, but said violation recurs any time within a six-month period, the stated penalty will be automatically deducted from the draw-down account upon such recurrence, and the permittee will be notified of such deduction. If the deposit is ever depleted by 50 percent of the initial deposit amount ($15,000), the permittee shall deposit additional funds sufficient to bring the balance up to the amount of the initial deposit ($30,000) within ten business days of notification of the depletion. There shall be no limit to the number of supplemental deposits that may be required during the life of this grant. The balance remaining in the draw-down account, including interest, shall be returned to the permittee, upon the Director of Public Works' determination that the Landfill is no longer a threat to public health, safety, and the environment.	The sum of $30,000 required by this Condition No. 20 was deposited with LADRP on August 10, 2017. CCL was not requested to provide additional funds in 2019, 2020, 2021, 2022, or 2023.

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	If the permittee is dissatisfied with any notice of violation, as described in the preceding paragraph, the permittee may appeal the notice of violation to the Hearing Officer, pursuant to Section 22.60.390(C)(1) of the County Code, within 15 days of receipt by the permittee of the notice of violation. The Hearing Officer shall consider such appeal and shall take one of the following actions regarding the appeal: A. Affirm the notice of violation; B. Rescind the notice of violation; or C. Modify the notice of violation. The decision of the Hearing Officer is final and shall not be subject to further administrative appeal.	
21	All requirements of Title 22 of the County Code and of the specific zoning of the subject property must be complied with, unless otherwise modified as set forth in these conditions, or as shown on the approved Site Plan or Exhibit "A", or on a revised Exhibit "A" approved by the Director of Regional Planning.	Noted.
22	All structures, walls, and fences open to public view shall remain free of graffiti or other extraneous markings, drawings, or signage that was not approved by the Department of Regional Planning. These shall include any of the above that do not directly relate to the business being operated at the Facility, or that do not provide pertinent information about the Facility. The only exceptions shall be seasonal decorations or signage provided under the auspices of a civic or non-profit organization. In the event of graffiti or other extraneous markings occurring, the permittee shall remove or cover said markings, drawings, or signage within 24 hours of notification of such occurrence, weather permitting. Paint utilized in covering such markings shall be of a color that matches, as closely as possible, the color of the adjacent surfaces. The permittee shall also establish and maintain a graffiti deterrent program for approval by the Department of Public Works. An approved copy shall be provided to the Graffiti Abatement Section of the Department of Public Works.	CCL submitted a draft Graffiti Deterrent Program to the Department of Public Works (LACPW) on May 29, 2019, and again on June 21, 2019, and July 9, 2019. The Graffiti Deterrent Program was approved by LACPW on July 24, 2019.
23	Upon the Effective Date, this grant shall supersede Conditional Use Permit ("CUP") 89-081 (5) and shall authorize the continued operation of a Class III (non-hazardous) Solid Waste Landfill on the subject property. The maximum tonnage capacity to be received at the Facility shall be as follows: A. Average Daily Tonnage Capacity 1. Upon Effective Date through December 31, 2024, the amount of Solid Waste that may be disposed of in the Landfill shall average 6,616 tons per day, Monday to Saturday. The amount of all incoming materials that may be received for processing disposal and beneficial use at the Facility shall average 8,974 tons per day. 2. Effective January 1, 2025 through 2047, the amount of Solid Waste that may be disposed of in the Landfill shall average 3,411 tons per day, Monday to Saturday. The amount of all incoming materials that may be received for processing disposal and beneficial use at the Facility shall average 5,769 tons per day. B. Facility Daily Maximum Capacity The maximum tonnage of any combination of Solid Waste and other materials received by the Facility for processing, Beneficial Use Materials (including Composting) and disposal shall not exceed 12,000 tons on any given day, provided the Monthly Tonnage Capacity shall not be exceeded. C. Monthly Tonnage Capacity 1. Upon Effective Date through December 31, 2024, the total quantity of all materials received for processing, disposal, and Beneficial Use Materials at the Facility shall not exceed 233,333 tons in any given month. The amount of Beneficial Use Materials processed as Beneficial Use in any given month shall not exceed 61,308 tons. 2. Effective January 1, 2025 through 2047, the total quantity of all materials received for processing, disposal, and Beneficial Use Materials at the Facility shall not exceed 150,000 tons in any given month. The amount of Beneficial Use Materials processed as Beneficial Use in any given month shall not exceed 61,308 tons. D. Composting Facility Capacity – The amount of incoming materials for processing at the Organic Waste Composting Facility shall not exceed 560 tons per day. This amount shall also be included in the amount of Beneficial Use Materials allowed. E. Facility Annual Maximum Capacity 1. Upon Effective Date through December 2024, the maximum annual tonnage capacity of all materials received by the Facility for processing shall not exceed 2,800,000 tons in any calendar year. Of this overall tonnage, Solid Waste disposed may not exceed 2,064,300 tons and Beneficial Use Materials (including Compost) processed as Beneficial Use may not exceed 735,700 tons in any calendar year.	Noted. During the 2023 Reporting Period, for part (E)(1), while CCL did not exceed the maximum annual tonnage capacity of all materials received by the facility for processing, CCL did exceed the Facility Annual Maximum Capacity for solid waste (excluding beneficial use material) by approximately 123,968 tons. The County alleges, as a result, CCL also exceeded the daily average set forth in part (A)(1). ~~During the 2023 Reporting Period, CCL was in compliance with the remainder of this Condition No. 23~~. CCL is preparing a mitigation plan ~~for~~ the remainder of 2024 to reduce the daily tonnage of solid waste disposed so that the total quantity of solid waste received for disposal for the combined years of 2023 and 2024 does not exceed the annual maximum capacity of solid waste allowed for disposal by Condition 23 for 2023 and 2024 (4,128,600 tons). This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.

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	2. Effective January 2025 through 2047, the maximum annual tonnage capacity of all materials received by the Facility for processing shall not exceed 1,800,000 tons in any calendar year. Of this overall tonnage, Solid Waste disposed may not exceed 1,064,300 tons and Beneficial Use Materials (including Compost) processed as Beneficial Use may not exceed 735,700 tons in any calendar year.	
24	The Board may increase maximum daily, monthly, or annual amounts of Solid Waste allowed by Condition No. 23 if, upon the joint recommendation of the DPH and the Department of Public Works, the Board determines that an increase is necessary to appropriately manage the overall County waste stream for the protection of public health and safety, including at the time of a declared local, regional, State, or national disaster or emergency.	Noted.
25	The County reserves the right to exercise its police power to protect the public health, safety, and general welfare of County residents by managing the Countywide waste stream, including preventing predatory pricing. The permittee shall not adopt waste disposal practices/policies at the Facility which discriminate against self-haulers, waste haulers, and other solid waste enterprises delivering waste originating in the unincorporated areas of Los Angeles County.	Noted.
26	This grant shall also authorize the following Ancillary Facilities and activities at the Facility, as shown on the approved Exhibit "A," subject to the conditions of this grant: A. Office and employee facilities directly related to the Landfill, including offices or other facilities related to any other enterprise operated by the permittee or other person or entity employed by the permittee or acting on its behalf; B. Operations related to the placement and disposal of Solid Waste; C. Paint booth for equipment and containers; D. Leachate collection and management facilities; E. Facilities necessary for the collection, utilization, and distribution of Landfill gases, as required and/or approved by the Department of Public Works, the DPH, or the SCAQMD; F. Facilities necessary for the maintenance of machinery and equipment used at the Landfill, excluding Solid Waste collection equipment and vehicles, and equipment or machinery used by the permittee in other enterprises; G. On-site waste diversion and recycling activities consistent in scale and purpose with the agreement entered into pursuant to Condition No. 45 of this grant; H. Facilities necessary for Environmental Protection and Control Systems, including flare stations, storage tanks, sedimentation basins, and drainage devices; I. Storage and repair of bins utilized for Landfill activities; J. Household hazardous waste consolidation area; K. Household Hazardous Waste Facility; L. Organics Waste Composting Facility; and M. Landfill Gas-to-Energy Plant. In the event that revisions to the approved Site Plan, including the approved Exhibit "A," consistent with the intent of this grant and the scope of the supporting environmental documentation are proposed, such revised Site Plan shall be submitted to the Department of Public Works for review and pre-approval, and to the Director of Regional Planning for final approval, with copies filed with the Department of Public Works and the DPH. For the life of this grant, there shall be no revisions to the approved Exhibit "A" that change the Limits of Fill, and no Site Plan shall be approved that will change the Limits of Fill.	Noted.
27	Household Hazardous Waste Facility and its operations shall be subject to the following use restrictions and pursuant to Condition No. 124 of this grant: A. Household Hazardous Waste Facility may be used by the general public to drop off household hazardous wastes, including, but not limited to, used motor oil, used latex paints, used anti-freeze, and used batteries; and other wastes as may be defined in the Operating Agreement. The Household Hazardous Waste Facility is not to be used for general use by commercial or industrial entities, except for Conditionally Exempt Small Quantity Generators, which shall mean a generator that generates no more than 100 kilograms of hazardous waste in any calendar month. B. The Household Hazardous Waste Facility shall be no smaller than 2,500 square feet in size, exclusive of ingress and egress. C. Recyclable materials shall not be collected in quantities or stored for periods which would cause the need for a hazardous waste facilities permit, unless such permit has been obtained. D. Operating hours shall be as defined in the Operating Agreement, but in no event shall those hours exceed 6:00 a.m. to 9:00 p.m., seven days per week.	Noted. As detailed in the compliance status for Condition No. 124, on November 30, 2018, CCL sent a letter to LACPW, stating their intent to develop a Household Hazardous Waste Facility (HHWF) at CCL. LACPW approved CCL's proposal to develop a HHWF at the facility on January 15, 2019. CCL did not develop an HHWF during the 2023 Reporting Period.

Condition Number	Condition	Compliance Status
	E. The Household Hazardous Waste Facility shall be staffed continuously during operating hours by a person(s) trained in hazardous material handling and management. F. Household Hazardous Waste Facility development shall substantially conform to Exhibit "A." any requirements of this grant, and the mitigations listed in the visual impact section of the mitigation monitoring summary referenced in the MMRP.	
28	Permittee may construct and operate an Organic Waste Composting Facility, together with certain ancillary and related activities as enumerated herein, subject to the following restrictions as to use: A. The facility may be used to receive process and compost green waste, food waste, and other organics waste materials and to store and distribute mulch, biomass fuel, and compost. B. The facility location shall be designated on the Site Plan Exhibit "A" or an approved Revised Exhibit "A" prior to beginning operations. The location shall be approved by the Director of Public Works and shall be far away from residential and business areas. The facility shall be enclosed. C. The Organic Waste Composting Facility operation shall receive no more than 560 tons per day of green waste, food waste, and other organics waste materials. No wastewater biosolids (e.g., sludge or sludge components) shall be allowed. D. Operating hours shall be within the hours of 5:00 a.m. to 6:00 p.m., Monday to Saturday. E. Access by customers for purposes of removing the solid products and by-products, including finished mulch and compost, shall not occur outside hours of 5:00 a.m. to 5:00 p.m., Monday to Saturday. F. Permittee shall comply with all rules for odor abatement and prevention of the SCAQMD and the DPH. The permittee shall not allow odors to become a nuisance in adjacent residential and business areas. In the event odors become a nuisance in adjacent residential and business areas, permittee shall take all necessary steps to abate that nuisance. If the permittee, despite the application of the best available technology and methodology, cannot abate the nuisance odors resulting from Organic Waste Composting Facility operations, the permittee shall terminate such operations. G. Upon commencement date of the Organic Waste Composting Facility, the permittee shall submit to the Department of Public Works, DPH-SWMP, and SCAQMD an Odor Control and Mitigation Plan for operation of the facility.	Noted. CCL did not develop an Organic Waste Composting Facility during the 2023 Reporting Period. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
29	The Final Cover of the Landfill shall not exceed the permitted elevation of 1,430 feet above mean sea level, and the Footprint shall not exceed the total permitted disposal area of 400 acres. No portion of the Landfill shall extend beyond the Limits of Fill, as shown on the approved Exhibit "A." The existing Landfill consists of the following, as shown on the approved Exhibit "A": existing Primary Canyon (55 acres, currently completely filled); existing Canyon B (14 acres, currently completely filled); existing Main Canyon (188 acres, currently 182 acres have been filled); and new fill areas (143 acres currently unfilled), together with certain ancillary and related activities, as enumerated herein, subject to the restrictions contained in this grant.	Noted. This condition was challenged in a lawsuit filed by CCL on October 20, 2017 in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
30	The permittee shall not sever, sell, or convey any portion, or the entirety of property for which this CUP is granted, without first notifying the Department of Regional Planning, with a copy to the Department of Public Works, at least 90 days in advance. Any future receiver of the subject property shall be required to acknowledge and accept all conditions of this grant prior to finalization of any conveyance.	Noted.
31	The permittee shall keep all required permits in full force and effect, and shall fully comply with all requirements thereof. Failure of the permittee to provide any information requested by County staff regarding any such required permit shall constitute a violation of this grant, and shall be subject to any and all penalties described in Condition No. 20.	Noted.
32	Nothing in these conditions shall be construed to require the permittee to engage in any act that is in violation of any State or federal statute or regulation.	Noted.
33	The permittee shall reimburse DPH for personnel, transportation, equipment, and facility costs incurred in carrying out inspection duties, as set forth in the SWMP, including maintaining at least one full-time inspector at the Facility at least once a week, when waste is received and processed to the extent that these costs are not covered by the fees already paid for administration of the SWFP for the Landfill.	Noted.
34	Prior to the Effective Date, and thereafter on an annual basis, the permittee shall provide evidence of insurance coverage to the Department of Public Works in the amount of at least $40 million that meets County requirements and that satisfies all the requirements set forth in this Condition No. 34. Such coverage shall be maintained throughout the term of this grant and until such time as all Post-Closure Maintenance requirements are met by the permittee and certified by the appropriate local, State, and federal agencies. Such insurance coverage shall include, but shall not be limited to, the following: general liability, automobile liability and pollution liability, and clean-up cost insurance coverage with, an endorsement for "Sudden and Accidental" contamination or pollution. Such coverage shall be in an amount sufficient to meet all applicable State, federal, and local requirements, with no special limitations. Upon certification of coverage, and annually thereafter, a copy of such certification shall be provided to the Department of Public Works.	Evidence of insurance coverage in the amount of at least $40 million for the 2023 Reporting Period was provided to LACPW on March 29, 2024. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.

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35	To ensure that the permittee has sufficient funds at Closure to provide for the continued payment of insurance premiums for the period described in Condition No. 34 of this grant, the permittee shall, within 60 months prior to the anticipated Closure Date, and annually thereafter, provide financial assurance satisfactory to the Department of Public Works that meets County requirements, as approved by the CEO, showing its ability to maintain all insurance coverage and indemnification requirements of Condition Nos. 34 and 36 of this grant. Such financial assurance shall be in the form of a trust fund or other financial instrument acceptable to the County. The Department of Public Works shall administer the trust fund, and all interest earned or accrued by the fund shall remain in the fund to keep pace with the cost of inflation.	Noted. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
36	To ensure that the permittee has sufficient funds for the Landfill's Closure and/or the Post-Closure Maintenance and maintenance of the Environmental Protection and Control System, the permittee shall, within 60 months of the anticipated Closure Date, and annually thereafter, provide financial assurance satisfactory to the Department of Public Works that meets County requirements, as approved by the CEO, that it is financially able to carry out these functions in perpetuity, or until the Landfill no longer is a threat to public health and safety, as determined by the Department of Public Works. The Department of Public Works' determination shall be based on an engineering study prepared by an independent consultant selected by the Department of Public Works. The permittee shall pay all costs associated with the independent consultant and the study within 30 days of receiving the invoice for the consultant's services. Such financial assurance shall be in the form of a trust fund or other financial instrument acceptable to the Department of Public Works. Permittee shall pay into the fund annually and the Department of Public Works shall administer the fund, and all interest earned or accrued by the fund shall remain in the fund to keep pace with the cost of inflation. The Department of Public Works may consider, at its sole discretion, the financial assurance mechanism required under State law and regulation in meeting the intent of this Condition No. 36.	Noted. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
37	Not less than one year before the 5th anniversary of the Effective Date of this grant, the permittee shall initiate a Periodic Review with the Department of Regional Planning. Additional Periodic Reviews shall be initiated by the permittee not less than one year before the 10th, 15th, 20th, and 25th anniversaries of the effective date of this grant. Additional Periodic Reviews may also be required at the discretion of the Director of Regional Planning. The purpose of the Periodic Reviews is to consider new or changed circumstances, such as physical development near the Project Site, improved technological innovations in environmental protection and control systems, and other best management practices that might significantly improve the operations of the Facility, and to determine if any changes to the facility operations and IMP are warranted based on the changed circumstances. To initiate the Periodic Review, the permittee shall submit for review a permit requirement compliance study which details the status of the permittee's compliance with the conditions of approval of this grant. Additionally, an updated Closure Plan and Post-Closure Maintenance Plan shall be submitted to the Department of Regional Planning and the TAC for review at this time, as well as the comprehensive waste disposal study referred to in Condition No. 106, and any other information that is deemed necessary by the Department of Regional Planning to ensure that the Landfill operations are operating as efficiently and effectively as possible, and that any potential adverse impacts are minimized, and that the Facility is not causing adverse impacts or nuisance in the surrounding communities. The cost of the Periodic Reviews shall be borne by the permittee and is to be paid through the draw-down account referred to in Condition No. 125. For each Periodic Review, a report based on the latest information shall be made to the Hearing Officer by Department of Regional Planning staff at a public hearing pursuant to Part 4 of Chapter 22.60 of the County Code. Each report shall include a review of the performance of the Landfill and recommendations for any actions to be taken if found necessary. Such actions may include changes or modifications to the IMP, including any measures necessary to ensure that the Landfill will continue to operate in a safe and effective manner, and the Landfill closure will be accomplished timely and effectively. The decision of the Hearing Officer on the Periodic Review may be appealed to the Regional Planning Commission. The decision of the Regional Planning Commission shall be final.	Initiation of the first required Periodic Review occurred in 3rd Quarter, 2021, and Periodic Review Compliance Study No. 1 for CUP Condition No. 37 was provided to LACDRP on July 28, 2021. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
38	The maximum life of this grant shall be 30 years, effective from the Approval Date. The Termination Date shall be either date that: (1) the Landfill reaches its Limits of Fill as depicted on Exhibit "A" (Elevation 1,430 feet Alternative); or (2) 60 million tons; or (3) 30 years after the Approval Date of this grant, whichever occurs first. At least 12 months prior to the 20th anniversary of the Approval Date, if the permittee has not exhausted the available Landfill capacity within the Limits of Fill depicted on Exhibit "A," the permittee shall conduct a study to determine the remaining capacity of the Landfill and identify all activities and schedules required for the Closure and Post-Closure maintenance of the Facility. The study shall be submitted to the TAC and CAC for their independent review. Upon their review, the TAC and CAC shall report to the Director of Regional Planning their findings regarding the remaining capacity of the Landfill and the Termination Date. Upon consideration of their findings, the Director of Regional Planning shall establish a certain Termination Date for the Landfill, but in no event shall the Termination Date be a date that is later than 30 years after the Approval Date.	Noted. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
39	Upon the Termination Date, the Facility shall no longer receive Solid Waste and/or Beneficial Use Materials for disposal or processing; however, the permittee shall be authorized to continue operation of any and all facilities of the Landfill as are necessary to complete: (1) the mitigation measures required by this grant; (2) the Closure and Post-Closure Maintenance required by federal, State, and local agencies; and (3) all monitoring and maintenance of the Environmental Protection and Control Systems required by Condition No. 88. No later than six months after the Termination Date, all Landfill facilities not required for the above-mentioned functions shall be removed from the subject property, unless they are allowed as a matter of right by the zoning regulations then in effect.	Noted. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.

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Condition Number	Condition	Compliance Status
40	The Facility shall be subject to the following operating hours: A. Upon Effective Date through December 31, 2024, the Facility may receive Solid Waste and Beneficial Use Materials only between the hours of 4:00 a.m. to 5:00 p.m., Monday through Saturday. At any given time, no offsite queuing shall be allowed. B. Effective January 2025 through 2047, the Facility may receive Solid Waste and Beneficial Use Materials only between the hours of 5:00 a.m. to 5:00 p.m., Monday through Saturday. At any given time, no offsite queuing shall be allowed. C. The Facility and all of its operations shall be closed on Sundays. D. Upon Effective Date through December 2024, the Facility operations, such as site preparation and maintenance activities, waste processing, and the application of cover, shall be conducted only between the hours of 3:00 a.m. and 7:00 p.m., Monday through Saturday. This operating restriction shall not apply to Facility activities that require continuous operation, such as gas control. E. Effective January 2025 through 2047, the Facility operations, such as site preparation and maintenance activities, waste processing, and the application of cover, shall be conducted only between the hours of 4:00 a.m. and 7:00 p.m., Monday through Saturday. This operating restriction shall not apply to Facility activities that require continuous operation, such as gas control. F. These hours of operations in subsections A. and B., above, may be extended to receive Inert Debris at the site to accommodate special projects that generate construction debris at night time, only with an Operational Assessment Plan, approved by the Department of Public Works. G. Upon the Effective Date through December 2024, equipment maintenance activities at the Facility may be conducted only between the hours of 3:00 a.m. and 7:00 p.m., Monday through Saturday. H. Effective January 2025 through 2047, equipment maintenance activities at the Facility may be conducted only between the hours of 4:00 a.m. and 7:00 p.m., Monday through Saturday. I. Upon the Effective Date through December 2024, no diesel vehicle shall be started at the Facility between the hours of 7:00 p.m. and 3:00 a.m. J. Effective January 2025 through 2047, no diesel vehicle shall be started at the Facility between the hours of 7:00 p.m. and 4:00 a.m. K. Notwithstanding anything to the contrary in this Condition No. 40, emergency operations, mitigation measures necessary to avoid adverse environmental impacts, and equipment repairs, which cannot be accomplished within the hours set forth in this Condition No. 40, may occur at any time, if approved via written electronic authorization by the DPH. A copy of this authorization shall be provided to the Director of Regional Planning. L. Notwithstanding the forgoing, Solid Waste and Beneficial Use Materials may be received at other times than those just described, except on Sundays, if the DPH determines that extended hours are necessary for the preservation of public health and safety.	Noted. Landfill operating hours are posted on CCL's website: www.chiquitacanyon.com. As shown, the site's current operating hours are 4:00 a.m. to 5:00 p.m. Monday through Friday and 4:00 a.m. to 2:00 p.m. on Saturday. CCL is closed on Sunday. On November 1, 2023, the LEA authorized CCL to operate outside of the 3:00 a.m. to 7:00 p.m. hours for the control and collection of leachates. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
41	The permittee shall prepare fill sequencing plans for Landfill operations to maximize Landfill capacity, and such plans must be technically, environmentally, and economically feasible. The permittee shall submit fill sequencing plans to the Department of Public Works for review and approval within 90 days after the Effective Date, so that the Department of Public Works can verify that the plans have been properly prepared and adequately reflect the amount of material that will be placed in the Landfill. Any subsequent changes to the approved sequencing plans must be approved by the Department of Public Works prior to implementation. The plans approved by the Department of Public Works shall not be in conflict with those contained in the latest State-approved Joint Technical Document for the Facility.	CCL was granted a 60-day extension of the deadline to submit fill sequencing plans to the Department of Public Works, to December 28, 2017. On December 26, 2017, LACPW received fill sequencing plans for Landfill operations as required by Condition No. 41. On January 29, 2020, CCL received comments from LACPW on the fill sequencing plans. CCL resubmitted fill sequencing plans on June 29, 2020. LACPW reviewed and provided comments to CCL on the resubmittal on July 16, 2020. On June 17, 2021, CCL provided a Fill Sequencing Plan submitted LADRP. LACPW provided comments on the Fill Sequencing Plan submittals. On January 12, 2022, CCL provided a response letter with a revised Fill Sequencing Plan. The Fill Sequence Plan is provided in Appendix A of this 2023 Annual Compliance Report.
42	Within 180 days after the Effective Date, or a longer period if approved by the Department of Public Works, the permittee shall adopt and implement appropriate measures to ensure that the method to determine that the waste origin and the amount of Solid Waste received, processed and/or disposed at the facility is accurate. The permittee shall comply with this condition and Part IV of the IMP. The waste origin and reporting program shall be developed by the permittee for review and approval by the Department of Public Works. The permittee shall submit the data from this program on a monthly basis to the Department of Public Works for review, or at other frequency, as determined by the Director of the Department of Public Works. Based on the initial results from this program, the Department of Public Works may require the permittee to modify the program or to develop or implement additional monitoring or enforcement programs to ensure that the intent of this Condition No. 42 is satisfied. The Waste origin and reporting program shall include all incoming solid waste, beneficial use materials, composting materials, clean soil used for daily and intermediate cover, and any other material coming to the Facility.	CCL submitted a Waste Origin Reporting and Verification Program to LACPW for review and approval on January 24, 2018. LACPW approved the Waste Origin Reporting and Verification Program on April 21, 2021. CCL compiles the required data from this program monthly and reports it quarterly via Los Angeles County's Solid Waste Information Management System (SWIMS) portal. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
43	The permittee shall operate the Facility in a manner that maximizes the amount of Solid Waste that can be disposed of in the Landfill, by, at a minimum:	Part A: As shown in Section 3 of this 2023 Annual Compliance Report, compaction rates at CCL (Table 3, Ratio of Weight to Volume for Material Placed Within the Waste Footprint) exceed the compaction rates of comparable landfills in Los Angeles County (Table 4, Landfill Density Comparison).

Table F1. CUP Compliance Status Summary Table

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Condition Number	Condition	Compliance Status
	A. Implementing waste compaction methods to equal or exceed the compaction rates of comparable privately-operated Landfills in Los Angeles County; B. Investigating and implementing methods to divert or reduce intake of high volume, low-density materials that are incapable of being readily compacted; C. Investigating and implementing methods to reduce the volume of daily cover required at the Landfill, as allowed by the appropriate regulatory agencies; D. Utilizing waste materials received and processed at the Facility as an alternative to daily intermediate, and Final Cover, to the extent such usage is deemed technically feasible and proper by the appropriate regulatory agencies. Notwithstanding the preceding sentence, green waste, automobile shredder waste, cement kiln dust, dredge spoils, foundry sands, processed exploration waste from oil wells and contaminated sites, production waste, shredded tires, and foam shall not be used as daily, intermediate, or Final Cover at the Landfill; E. To the extent economically and practically feasible, Construction and Demolition Debris shall not be disposed, but rather shall be separated, and recycled and/or made available for reuse, consistent with the goals of the California Integrated Waste Management Act of 1989; F. Investigating and implementing methods to recycle manure; and G. All Solid Waste accepted at the Facility that originates from outside the Santa Clarita Valley, including the metropolitan area of Los Angeles County, must be pre-processed or undergo front-end recovery methods to remove all Beneficial Use Materials and Construction and Demolition Debris from the waste stream prior to transport to the Facility to the maximum extent practicable, as determined by the Department of Public Works. As part of its annual report to the TAC and CAC required by the IMP, the permittee shall submit documentation detailing the results of this requirement. The report must, at a minimum, include the types, quantity, and amount of all Beneficial Use Materials and Construction and Demolition Debris recovered from the waste stream. Notwithstanding the foregoing, Solid Waste originating from residential areas with a three-bin curbside collection system is exempt from this requirement.	Part B: CCL does not accept high volume, low-density materials for disposal. Parts C, D, and E: CCL submitted a Program to Assist the County's Diversion Efforts to LACPW for review and approval on January 24, 2018. LACPW approved the Program on February 22, 2018, and the Program is currently being implemented by CCL. Part F: When CCL receives manure as a waste material, it is as part of a mixed load for disposal. CCL does not accept manure as a stand-alone waste material that can be separated and recycled and does not, therefore, have a plan to investigate and implement methods to recycle manure. Part G: Information related to Part G of CUP Condition No. 43 is included in this 2023 Annual Compliance Report, under Section 1 in Table 1, Summary of Material Received During the 2023 Reporting Period, and under Section 4 in Table 5, Beneficial Use Materials Received at CCL During the Reporting Period. CCL has previously documented the recycling programs of haulers before waste is received at CCL. Condition No. 43, Parts D and G were challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
44	To the extent feasible, the permittee shall minimize the disposal of Solid Waste into the Landfill that is required to be diverted or recycled under the County's Source Reduction and Recycling Element of the Countywide Integrated Waste Management Plan, adopted pursuant to Division 30 of the California Public Resources Code, and/or the Waste Plan Conformance Agreement, approved by the Board on November 21, 2000, as these documents and agreements may be amended.	CCL continues to provide quarterly reports to LACPW pursuant to the Waste Plan Conformance Agreement, approved by the Board on November 21, 2000.
45	Within 180 days after the Effective Date, and thereafter as is necessary, the Waste Plan Conformance Agreement referred to in Condition No. 44 shall be amended and approved to be consistent with applicable County waste management plans. The Director of Public Works shall be authorized to execute all amendments to the Waste Plan Conformance Agreement on behalf of the County. This Agreement shall continue to provide for: (1) the control of and accounting for all the Solid Waste, and Beneficial Use Material and Composting Materials entering into, and for recycled or diverted material leaving, the Facility; (2) the implementation and enforcement of programs intended to maximize the utilization of available fill capacity, as set forth in Condition No. 43; and (3) the implementation of waste diversion and recycling programs in accordance with applicable County waste management plans.	CCL submitted a Draft Waste Plan Conformance Agreement (WPCA) to LACPW on March 5, 2020. LACPW provided comments to the WPCA to CCL on June 23, 2021.
46	Within 180 days after the Effective Date, or a longer period if approved by the Department of Public Works, the permittee shall adopt a program to assist the County in its diversion efforts, including: A. Utilizing alternative daily cover at the Landfill, to the extent permitted by the appropriate regulatory agencies; B. Using a portion of the Facility to transfer loads of commingled recyclables to sorting facilities; C. To the extent feasible, recovering scrap metal and other materials from loads of waste received at the Facility; D. To the extent feasible, recovering and recycling Construction and Demolition Debris received at the Facility to be placed into the economic mainstream and/or reusing it at the Facility, to the extent that it is appropriate for the specific use and in accordance with engineering, industry guidelines, or other standard practices, in accordance with Title 14 California Code of Regulations section 20686; E. Composting shredded wood waste and organics at the Landfill, including but not limited to Anaerobic Digestion Composting, provided such composting project is approved by the Department of Public Works and is consistent with the intent of this permit; F. Stockpiling and grinding of wood/green material for use as mulch, boiler fuel, or feedstock for an alternative energy project, provided such energy project is approved by the Department of Public Works and is consistent with the intent of this permit; G. Stockpiling and grinding of concrete/asphalt material for use as base, road material, and/or decking material; H. Development of Conversion Technologies to divert waste from disposal, provided such Conversion Technology project is approved by the Department of Public Works and is consistent with the intent of this permit; I. Consolidation of electronic waste such as computers, televisions, video cassette recorders, stereos, copiers, and fax machines; J. Consolidation of white goods such as refrigerators, stoves, ovens, and other white-coated major appliances; and	CCL submitted a Program to Assist the County's Diversion Efforts that addresses Condition No. 46 Parts A through J to LACPW for review and approval on January 24, 2018. LACPW approved the Program on February 22, 2018, and the Program is currently being implemented by CCL. Pursuant to Condition No. 46 Part K, CCL submitted a Recycling Public Awareness and Education Program to LACPW for review and comment on October 23, 2017. The Program was approved by LACPW on January 4, 2018, and the Program is currently being implemented by CCL.

Table F1. CUP Compliance Status Summary Table

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Condition Number	Condition	Compliance Status
	K. Implementing a comprehensive public awareness and education program informing Santa Clarita Valley residents of the Facility's recycling activities/programs. The program must be submitted to the Department of Public Works for review and approval within 90 days after the Effective Date.	
47	The permittee shall discourage haulers from delivering partial truck loads to the Facility, and from delivering trucks to the Facility during peak commuting hours; higher tipping fees for such behavior is recommended. Notwithstanding the preceding sentence, in lieu of charging higher tipping fees, the permittee may implement some other program, as approved by the Department of Public Works, to discourage this type of activity by its customers.	This condition is addressed in this 2023 Annual Compliance Report, Section 11, Summary of Measures to Minimize Truck Traffic.
48	The following types of waste shall constitute prohibited waste and shall not be received, processed nor disposed of at the Facility: Automobile Shredder Waste; Biosolid; Sludge, or Sewage Sludge; incinerator ash; radioactive material; hazardous waste, as defined in Title 22, section 66261.3 of the California Code of Regulations; medical waste, as defined in section 117690 of the California Health and Safety Code; liquid waste; waste that contains soluble pollutants in concentrations that exceed applicable water quality objectives; and waste that can cause degradation of waters in the State, as determined by the RWQCB. The permittee shall implement a comprehensive Waste Load Checking Program, approved by the DPH, to preclude disposal of prohibited waste at the Landfill. The program shall comply with this Condition No. 48, Part IV of the IMP, and any other requirements of the DPH, the State Department of Health Services, the State Department of Toxic Substances Control, and the RWQCB.	CCL did not accept any prohibited waste during the 2023 Reporting Period. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition. CCL has a comprehensive Waste Load Checking Program, approved by the Department of Public Health (DPH), to preclude disposal of prohibited waste at the landfill. The Waste Load Checking Program includes a Waste Screening and Acceptance Program, which is designed to prevent prohibited wastes from being disposed at CCL. CCL conducts at least 6 manual inspections of randomly selected incoming loads each operating day, for a minimum of 36 inspections per week, plus one intensive, unannounced manual inspection of loads per month.
49	Notices regarding the disposal restrictions of prohibited waste at the Facility and the procedures for dealing with prohibited waste shall be provided to waste haulers and private users on a routine basis. These notices shall be printed in English and Spanish and shall be posted at prominent locations at the Facility, indicating that anyone intentionally or negligently bringing prohibited waste to the Facility may be prosecuted to the fullest extent allowed by law.	Notices regarding prohibited waste have been posted in English and Spanish at the facility entrance and have been provided to waste haulers and private users.
50	In the event that material suspected or known to be prohibited waste is discovered at the Facility, the permittee shall: A. Obtain driver's name, company name, address, and any other information as appropriate, and vehicle license number; B. Immediately notify all appropriate State and County agencies, as required by federal, State, and local law and regulations; C. If permittee discovers that such prohibited material has been accepted at the Facility, and after further review it is determined that it cannot immediately be removed by a licensed hauler, permittee shall store the material at an appropriate site approved by the DPH and the RWQCB until it is disposed of in accordance with applicable State and local regulations; and D. Maintain a record of the prohibited waste to be part of the permittee's annual report required under the IMP, and to include, at a minimum, the following information: 1. A description, nature, and quantity of the prohibited waste; 2. The name and address of the source of the prohibited waste, if known; 3. The quantity of total prohibited waste involved; 4. The specific handling procedures used; and 5. A certification of the authenticity of the information provided. Nothing in this Condition No. 50 shall be construed to permit the permittee to operate the Facility in any way so as to constitute a Hazardous Waste Disposal Facility, as defined under State law.	No material suspected or known to be prohibited waste was delivered to the Facility during the 2023 Reporting Period. CCL has a comprehensive Waste Load Checking Program, approved by the DPH, to preclude disposal of prohibited waste at the landfill. The Waste Load Checking Program includes a Waste Screening and Acceptance Program, which is designed to prevent prohibited wastes from being disposed at CCL. CCL conducts at least 6 manual inspections of randomly selected incoming loads each operating day, for a minimum of 36 inspections per week, plus 1 intensive, unannounced manual inspection of loads per month. Appendix G, Load Inspection Summary Report, contains a summary of load inspection reports for the 2023 Reporting Period.
51	Except as otherwise provided in this Condition No. 51, areas outside of the Limits of Fill shall not be graded or similarly disturbed to create additional Landfill area, except that additional grading may be approved by the Department of Public Works, if the Department of Public Works determines, based on engineering studies provided by the permittee and independently evaluated by the Department of Public Works, that such additional grading or disturbance is necessary for slope stability or drainage purposes. Such a determination by the Department of Public Works shall be documented in accordance with Part I of the IMP, and the permittee shall submit a revised Site Plan for review and approval by the Department of Public Works to show the additional grading and/or disturbance. A copy of the approved revised Site Plan shall be filed with the Director of Regional Planning, the Department of Public Works, and DPH. For the life of this grant, there shall be no revisions to the approved Exhibit "A," that will change the Limits of Fill, and no Site Plan shall be approved that will change the Limits of Fill.	During the 2023 Reporting Period, CCL coordinated with LACPW regarding grading plans associated with Cell 8B construction. The grading plans address site stability outside of the waste footprint and are consistent with the approved Exhibit A for the project. Cell 8B design does not change the Limits of Fill shown in the approved Exhibit A.
52	The permittee shall conduct surface water monitoring at the Facility in accordance with appropriate federal, State, and County regulations, including the National Pollutant Discharge Elimination System (NPDES), the Los Angeles County Low Impact Development Ordinance, and County Code Title 27	Surface water quality monitoring reports are posted on CCL's website.

Table F1. CUP Compliance Status Summary Table

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Condition Number	Condition	Compliance Status
	requirements. Permittee shall publish the results of surface monitoring on the Facility's website, and shall provide such result to the TAC and to the CAC within seven business days of providing the results to the RWQCB. Nothing in this grant shall be construed as prohibiting the installation of water tanks, access roads, flares, or other similar facilities at the Facility, or implementing any mitigation program, that is required by this grant or by any other permit issued by a public agency in connection with the Landfill.	
53	Notwithstanding anything to the contrary in this grant, no approval shall be granted to the permittee that will modify the authorized Limits of Fill or that will lower or significantly modify any of the ridgelines surrounding the Landfill.	Noted.
54	The permittee shall comply with all grading requirements of the Department of Public Works and the County Code, including the September 1, 2022 CCL Soil Stockpiling Protocol and any subsequent written amendments thereto agreed to by the County and permittee. In addition to any other requirements that may apply, the permittee shall obtain prior approval from the Department of Public Works for all grading that is outside the Landfill footprint and all grading within the Landfill footprint that could impact off-site property, as determined by the Department of Public Works, including, but not limited to, grading in connection with cell development, stockpiling, or excavation for borrow and cover materials.	During the 2023 Reporting Period, CCL coordinated with LACPW regarding grading plans associated with Cell 8B construction. The grading plans address site stability outside of the waste footprint and are consistent with the approved Exhibit A for the project. The second Cell 8B grading package was submitted for review on December 30, 2022, comments from LACPW were received on March 14, 2023, and a third revised package was resubmitted on March 26, 2023. LACPW approved Cell 8B on May 1, 2023. A majority of Cell 8B was constructed in 2023; portions that were not completed included perimeter drainage improvements and paving. On August 12, 2019, CCL submitted grading plans to LACPW associated with development of the new site entrance at Wolcott Way and State Route 126 (SR-126). Throughout 2020, 2021, 2022, and 2023, CCL coordinated with LACPW staff for review of the grading plans. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
55	The permittee shall install and/or maintain appropriate drainage structures at the Facility to comply with all drainage requirements of the Department of Public Works, the RWQCB, and any other appropriate regulatory agency. Except as otherwise specifically provided by the Department of Public Works, all drainage structures, including sedimentation basins, shall be designed and constructed to meet all applicable drainage and grading requirements of the Department of Public Works, and all design and construction plans for these structures must have prior approval from the Department of Public Works. Notwithstanding the foregoing, at the discretion of the Department of Public Works, the permittee may be permitted to install temporary drainage structures designed for day-to-day Facility operations without prior approval from the Department of Public Works. In all cases, the Landfill and its drainage structures shall be designed so as to cause surface water to be diverted away from disposal areas. All design modifications shall have the prior approval from the Department of Public Works.	Noted.
56	All development structures and activities pursuant to this grant shall conform to the requirements of the Department of Public Works.	Noted.
57	The permittee shall install and maintain containment (liner) systems and leachate collection and removal systems as required by the RWQCB. The design of Landfill liners shall be as approved by the RWQCB.	Noted.
58	The permittee shall conduct water quality monitoring at the Facility for the protection of groundwater, as required by both State and federal regulations and under the regulatory authority of RWQCB, as contained in Title 23, Chapter 15, Article 5, of the California Code of Regulations. The permittee shall publish the results of groundwater monitoring on the Facility's website, and shall provide such reports to the TAC and to the CAC within seven business days of providing the results to the RWQCB. The permittee shall install and test any and all groundwater monitoring wells that are required by the RWQCB, and shall promptly undertake any action directed by the RWQCB to prevent or correct potential or actual contamination that may affect groundwater quality, or water conveyance, or water storage facilities. All testing and remedial actions required by the RWQCB to detect, prevent, and/or correct groundwater contamination shall be completed, or guaranteed to be completed, to the satisfaction of the RWQCB with notice to the Department of Public Works.	Water quality monitoring was conducted at CCL during the 2023 Reporting Period as required. The following groundwater monitoring reports for 2023 are posted on CCL's website: • CCL Semi-Annual Groundwater Monitoring Report Q1 and Q2 2023 – 1 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q1 and Q2 2023 – 2 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q1 and Q2 2023 – 3 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q1 and Q2 2023 – 4 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q1 and Q2 2023 – 5 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q3 and Q4 2023 – 1 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q3 and Q4 2023 – 2 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q3 and Q4 2023 – 3 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q3 and Q4 – 4 of 5 • CCL Semi-Annual Groundwater Monitoring Report Q3 and Q4 – 5 of 5

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Condition Number	Condition	Compliance Status
59	During the duration of this grant, the project shall use recycled water once a recycled water pipeline is extended to the Newhall Ranch residential development. The permittee shall obtain the necessary permits to connect to such a recycled water pipeline, construct any necessary access, and connect to the piped recycled water.	During the 2023 Reporting Period, no recycled water pipeline was extended to the vicinity of the Facility.
60	In the event groundwater use is restricted in the future pursuant to court order or judgment, the permittee shall purchase water from County-authorized water purveyors, including County-authorized recycled water purveyors for non-potable uses, or authorized State Water Project contractors, and shall otherwise conform to the rules, regulations, and restrictions set forth in any applicable court order or judgment, including those rules, regulations, and restrictions that would require the permittee to pay assessments, if any.	Noted.
61	The permittee shall comply with the following landscaping, cover and re-vegetation requirements at the Landfill: A. Three copies of a landscape plan shall be submitted to and approved by the Director of Regional Planning within 180 days after the Effective Date. The landscape plan shall show size, type, and location of all plants, trees, and watering facilities required as a condition of this grant. All landscaping shall be maintained in a neat, clean, and healthful condition in accordance with the approved landscape plan, including proper pruning, weeding, removal of litter, fertilizing, and replacement of plants and trees when necessary, but not to exceed quarterly (three months-period). B. An annual monitoring report shall be prepared by an independent, qualified biologist and submitted to the Director of Regional Planning providing status and progress of the provisions in this Condition No. 61. The monitoring report shall be submitted as part of the annual report required pursuant to Part VIII of the IMP. C. The permittee shall employ an expert or experts, including an independent, qualified biologist, to satisfy this Condition No. 61. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above-referenced testing procedures and results. To the extent possible, as determined by the Director of Regional Planning, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of successful growth. D. The permittee shall apply a temporary vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall identify such slope or areas in the annual monitoring report described in subsection B., above, and include an interim reclamation and re-vegetation plan, as well as the timing of the proposed work for review and approval by the Director of Regional Planning. E. Except as otherwise provided in this Condition No. 61, all final fill slopes shall be reclaimed and re-vegetated in lifts substantially in conformance with MMRP. F. Notwithstanding the foregoing provisions of this Condition No. 61, permittee shall comply with a different re-vegetation design or plan that the Department of Regional Planning, in consultation with the TAC, CAC, and the Department of Public Works, determines would: 1. Better protect public health and safety; 2. Enable re-vegetation of the final slopes at least as well as described in subsection E., above; and/or 3. Be required because the minimum standards adopted by the CalRecycle have been amended. G. Requirements imposed by the Department of Regional Planning, pursuant to this Condition No. 61, must be consistent with State regulations and may not cause the activities at the Landfill to exceed the Limits of Fill. H. The permittee shall provide and maintain a landscape strip that is a minimum of ten feet wide along the frontage of the ancillary facilities area on Wolcott Way and along State Route 26 Highway ("SR-126"). I. No portion of the expanded Landfill may extend above the plane or outside of the surface area of the fill design, as shown on the approved site plan, attached as Exhibit "A." The existing viewshed from Chiquito Canyon Road shall be protected for the life of the project. The dip in the natural ridgeline along the western boundary shall be maintained or enhanced. Any structure placed on the Landfill site, including, but not limited to, temporary storage areas, any materials recovery facility, composting facility, or any other ancillary facilities that may be visible from Chiquito Canyon Road, shall be designed to be harmonious with the natural topography and viewshed and shall be reviewed by the CAC. J. The Landfill operator and the CAC shall work together to prepare a tree planting and maintenance plan for the entire western boundary of the site. The objectives of the plan are to screen Landfill operations, enhance the viewshed, and establish the minimum number and type of trees to do this, and to provide adequate access to monitoring wells. Trees may be planted on slopes on either side of the ridgeline, provided the above objectives are met and such planting is practical.	Appendix H, Condition No. 61 Annual Monitoring Report, provides an overview of compliance with Condition No. 61.
62	The permittee shall operate the Facility so as to conserve water by, at a minimum, adopting the following measures:	Part A: During the 2023 Reporting Period, water for routine landfill operation, including dust control and irrigation, was supplied from an offsite irrigation well south of the landfill on Newhall Ranch.

Table F1. CUP Compliance Status Summary Table

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Condition Number	Condition	Compliance Status
	A. Ensuring that all water wells used for the Facility draw from the local watershed, if such usage is approved by the appropriate agencies; B. Investigating the feasibility of treating collected leachate on-site for reuse in the Landfill and, if feasible and the appropriate agencies approve, implementing a program to use such water; C. Using soil sealant, pavement, and/or other control measures for dust control wherever feasible, instead of water; and D. Using drought-tolerant plants to re-vegetate the Landfill slopes and other disturbed areas to the extent feasible, as determined by the Director of Regional Planning. Plant types shall blend with species indigenous to the area and shall be capable of rapid growth.	Part B: CCL submitted a draft Joint Technical Document (JTD) to the Local Enforcement Agency (LEA) in December 2017. The draft JTD requested use of leachate collected onsite for dust control within the lined portions of the landfill. CCL's new Waste Discharge Requirements (WDR) Oder No. R4-2018-0172 provides constituent and concentration limits for leachate intended to be used for dust control. If collected leachate meets the reuse limits of the WDRs, it may be used for dust control at the landfill or returned to a lined module equipped with an LCRS. Based on the new WDRs, CCL continually evaluates the feasibility of onsite leachate treatment systems. Part C: CCL uses shredded green material on landfill slopes and other areas of the landfill to reduce the need for water for dust control. CCL also constructs all weather roads between paved roads and the working face to reduce dust and the need for water to control dust. Part D: CCL will utilize drought-tolerant plants in the Closure Revegetation Plan and other landscaped areas onsite, to the extent feasible.
63	As required by the SCAQMD, the permittee shall adopt and implement operational practices to mitigate air quality impacts including, but not limited to, odor, dust, and vehicular air quality impacts at the Facility. The Facility shall be operated so as not to create a nuisance in the surrounding communities.	Mitigation measures and best management practices to limit odor, dust, and vehicular air quality impacts are included in the following Plans or Programs: • CCL Vehicle Tarping, Litter Control, and Litter Recovery Program, submitted August 24, 2017, and approved by LACPW • CCL Track-Out Prevention and Minimization Plan, submitted October 12, 2017, and approved by LACPW • CCL Odor Impact Minimization Plan, submitted October 25, 2017, and February 1, 2019, and approved by LACPW • CCL Fugitive Dust Control Program, submitted January 24, 2018 and August 15, 2019 and approved by LACPW on April 14, 2021 CCL received an NOV from the LADRP on August 18, 2023 related to Condition 12 and Condition 63. This NOV and corrective actions are described in Section 7 of this 2023 Annual Compliance Report.
64	The permittee shall use Landfill gas for energy generation at the Facility or other beneficial uses, rather than flaring to the extent feasible, and shall obtain all applicable local, State, and/or federal approvals for any such use.	CCL has an existing 9.2-megawatt Landfill Gas to Energy Plant operated by Ameresco Chiquita Energy LLC (Ameresco) and permitted by Los Angeles County. The Landfill Gas to Energy Plant uses landfill gas (LFG) extracted from the landfill's existing LFG collection system and converts it into energy using LFG-fueled gas turbines. During the 2023 reporting period, there were periods of time when the Landfill Gas to Energy Plant was nonoperational or operated at reduced capacity for reasons including maintenance, utility outages, and poor gas quality. During the 2023 Reporting Period, Ameresco Renewable Hydrogen, LLC submitted an application to LADRP for construction and operation of an LFG to Renewable Hydrogen facility at CCL.
65	The permittee shall conduct air and Landfill gas monitoring consistent with applicable regulatory requirements. Monitoring shall consist of: A. Monthly instantaneous Landfill surface monitoring to evaluate potential emissions on the Landfill surfaces; B. Quarterly integrated Landfill surface monitoring to evaluate potential emissions on the landfill surfaces; C. Ambient air sampling at the Landfill site boundaries to evaluate the potential off-site migration of Landfill emissions; and D. Quarterly and annual reporting to present the results of the preceding activities to the SCAQMD for review. The permittee shall comply with the Title V operating permit issued by SCAQMD for the Landfill (Facility ID 119219), which limits emissions from the existing flares. The permit requires annual source testing in accordance with SCAQMD protocols, including prior notification to SCAQMD so that the testing may be observed by SCAQMD personnel. As part of this source testing, emissions are monitored for methane, total non-methane organic compounds, carcinogenic and toxic air contaminants, NOx, SOx, CO, PM10, oxygen, moisture content, temperature, and flowrate. Once per year, the permittee shall obtain fleet records from haulers who transport material to the site, to document that haulers meet current CARB standards for diesel emissions. In the event one or more haulers cannot provide documentation of compliance with CARB requirements, the permittee shall take steps to assist the hauler with obtaining compliance or shall exclude haulers who cannot provide proof of compliance. The permittee shall publish the results of air and Landfill gas monitoring on the Facility's website, and shall provide such information to the TAC and CAC, within seven business days of providing the results to the SCAQMD. The permittee shall also publish documentation of hauler compliance with CARB emission standards on the Facility's website and shall provide such information to the TAC and to the CAC on an annual basis. The permittee shall also install and maintain a Landfill gas collection and management system that complies with SCAQMD requirements and uses best available control technology to prevent: (1) the lateral migration of gases to off-site properties; and (2) odor generation that causes impact to surrounding communities, to the satisfaction of the Department of Public Works, the DPH, and SCAQMD.	CCL received a revised Title V Facility Permit from the South Coast Air Quality Management District (SCAQMD) on September 28, 2023. The Permit to Construct/Operate a landfill gas collection system is incorporated into the current Title V Permit. All landfill areas are monitored regularly to detect onsite LFG surface emissions or subsurface migration of LFG. The Chiquita Canyon Landfill Rule 1150.1 Quarterly Monitoring Reports for all 4 quarters of 2023 are posted on CCL's website. CCL received an NOV from the SCAQMD on April 6, 2023, related to Rule 1150.1; this NOV and correction actions are described in Section 7 of this 2023 Annual Compliance Report. Condition No. 65 Part D requires CCL to obtain fleet records from haulers who transport material to the site, to document that haulers meet current CARB standards for diesel emissions. CCL confirmed that haulers were compliant with current CARB standards for diesel emissions for the 2023 Reporting Period and documentation is on file at CCL. Air and landfill gas monitoring reports are posted on CCL's website.
66	Landfill gas flares shall be installed in a manner that does not result in any significant adverse aesthetic impacts, and the flames shall be totally contained within the stacks. Flame arrestors shall be provided to the satisfaction of the County Fire Department.	CCL received a revised Title V Facility Permit from the SCAQMD on September 28, 2023, that includes a permit to construct and temporary permit to operate Flare No. 3 at CCL. The Permit to Construct/Operate a landfill gas flare is incorporated into the Title V Permit.

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		Best management practice for landfills is use of an enclosed flare, which is used by CCL. Flare No. 3 was constructed and began operation at the Facility during the 2023 Reporting Period.
67	The permittee shall provide access to a back-up generator for emergency use within 48 hours in case of a prolonged power outage at the Facility to prevent the migration/emission of Landfill gas, unless such a use is otherwise prohibited by SCAQMD due to air quality concerns.	CCL has an arrangement with Caterpillar to provide a back-up generator for emergency use within 48 hours.
68	The permittee shall conduct air quality monitoring at areas surrounding the facility. The permittee shall be required to identify and hire an independent consultant, subject to the Department of Public Works' approval, to work with SCAQMD, and a committee of the CAC and the TAC. The consultant shall identify locations surrounding the Landfill in the Community of Val Verde, nearby centers of employment and schools within a five-mile radius of the Landfill to install air monitoring stations. The consultant hired must have the ability to read the monitoring results and have the results analyzed by a qualified lab. Air monitoring shall be continuous. In addition, a minimum of 12 random tests shall be conducted at sites recommended by the consultant, each year for the life of this permit. The consultant reports shall be provided to the Department of Regional Planning, Department of Public Works, the TAC, the CAC and the permittee within 15 calendar days after completion of the tests. Evaluation of air quality monitoring results shall include recommendations by the DPH regarding health and safety impacts on nearby residents, schools and centers of employment. All costs for this testing shall be paid by the permittee. Quarterly and annual reporting is required to present the results of the preceding activities to the SCAQMD and the DPH for review.	Condition No. 68 requires CCL to identify and hire an independent consultant, who will work with the SCAQMD and a committee of the TAC and CAC. CCL has a contract in place for an independent consultant to conduct air quality monitoring at locations surrounding the landfill. During the 2019 Reporting Period, CCL worked with the selected consultant, LADRP, LACPW, and the CAC to prepare a Community Air Monitoring Program (CAMP), as well as purchase 13 air monitoring stations. As of the end of 2019, the initial 6 stations surrounding CCL were located onsite, collecting data, and awaiting building permits for solar power installation and final deployment. During the 2020 Reporting Period, the selected consultant worked with the LACPW to obtain building permits for solar power installation for onsite installation and purchased additional air monitoring equipment. On June 11, 2020, LACPW issued a Notice of Violation to CCL for not conducting air quality monitoring as required by Condition No. 68, nor making significant progress toward complying with the condition. This NOV was administratively appealed, but the appeal has been stayed. During the 2021 Reporting Period, the selected consultant permitted, installed, and had online air monitoring stations in five locations at the perimeter of the landfill as well as at two off-site locations. The selected consultant provided regular updates regarding permitting and installation of the air monitoring equipment to the Community Advisory Committee during the 2021 Reporting Period. The selected consultant continued to work with the LACPW to obtain the requisite permits and approvals to install the remaining off-site monitoring stations. During the 2022 Reporting Period, the CAMP was fully implemented, consisting of a network of twelve air monitoring stations, with seven stations located throughout the community surrounding CCL and five stations located onsite around the site perimeter. The air monitoring stations continuously monitor particulate matter with an aerodynamic diameter of 10 micrometers or less (PM_{10}), particulate matter with an aerodynamic diameter of 2.5 micrometers or less ($PM_{2.5}$), and hydrogen sulfide (H_2S); as well as wind direction and wind speed. In addition, the consultant performed discrete sampling at the monitoring station locations for a variety of constituents outlined in the CAMP. The Third Quarter 2023 Community Air Monitoring Report was published in November 2023 and posted on the LADRP and CCL websites. During the 2023 Reporting Period, the CAMP was expanded to include methane (CH_4) as one of the monitoring parameters, based on discussions between CCL and the public.
	Additionally, within one year of the Effective Date, the permittee shall hire an independent consultant, subject to the DPH's approval, to conduct a Community Health Assessment Study. The permittee shall fund the expenditure of the consultant and Study, in an amount not to exceed $150,000. The Community Health Assessment Study will analyze the communities surrounding the Landfill, including schools. As part of the assessment, existing data from other agencies regarding air quality, water quality, demographic data, and socio-economic factors should all be analyzed when considering pertinent health indicators. This assessment will be done in conjunction with the CAC.	During the 2018 Reporting Period, CCL submitted a statement of qualifications from three independent consultants to prepare the Community Health Assessment Study to LADRP for review. On January 29, 2019, LADRP informed CCL of the consultant selected to conduct the study. CCL contracted for an independent consultant to conduct the Community Health Assessment Study (HAS). During the 2020 Reporting Period, the selected consultant prepared a Draft HAS, and CCL provided comments on the Draft HAS in November 2020. During the 2021 Reporting Period, CCL, LADRP, LA County Department of Public Health, and the selected consultant coordinated on the Draft HAS; the selected consultant completed the HAS and presented the results of the HAS to the Technical Advisory Committee on September 22.

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69	Upon receipt of a total of four Notices of Violation related to air quality issued by any combination of SCAQMD, DPH, the Department of Public Works, or the Department of Regional Planning in any given calendar year, the permittee shall submit a response to the Department of Public Works within 30 calendar days of the fourth such Notice of Violation, providing an explanation of each Notice of Violation and steps taken to address it, and shall provide this information within 30 calendar days of each additional Notice of Violation within the same year. The Department of Public Works shall evaluate the response and may require the permittee to thereafter increase the air quality monitoring that it conducts at the Facility and its surrounding areas. In addition, the TAC may select an independent air quality consultant to evaluate and conduct testing of: (1) Landfill gas and trash odor generated due to working face operations; (2) landfill gas collection and management system; and (3) dust and diesel particulates surrounding the perimeter of the Facility, at a frequency to be determined by the Department of Public Works in consultation with the air quality consultant. The cost of the consultant and the tests shall be borne entirely by the permittee. The consultant report shall be provided to the Department of Public Works, the TAC, the CAC, and the permittee within 15 calendar days after completion of the tests. The Department of Public Works, with the advice of the TAC and CAC, may reduce the frequency of the consultant testing, if the Department of Public Works finds that the frequency of testing is not necessary, or may discontinue it altogether if it finds that the tests are not beneficial. Notwithstanding the preceding sentence, the Director of Regional Planning, with the advice of the TAC and CAC, may increase the frequency of the consultant testing, if the Director of Regional Planning finds the frequency insufficient, and may request an evaluation report and recommendations. Upon direction from the Department of Public Works, the permittee shall implement the recommendations of the independent consultant.	During the 2023 reporting period, CCL received Notice of Violations (NOVs) from the SCAQMD, LEA, RWQCB, and Department of Toxic Substances Control related to air quality. Details of the NOVs and corrective actions are provided in Sections 7 and 13 of this 2023 Annual Compliance Report. Since July 27, 2023, CCL has been submitting reports to the agencies required by Condition 69 of the CUP.
70	If any of the test results of Condition No. 68 and/or 69 exceed the maximum emission levels established by the EIR and/or the SCAQMD, if the Landfill is operated in a manner which, in the determination of DPH, creates an odor nuisance to the surrounding communities, or if the Department of Public Works, in consultation with the TAC and CAC, determines that additional corrective measures are necessary to address air quality impacts to the residents of the surrounding community, the permittee shall submit a corrective action plan to the TAC and CAC within 15 days after receipt of the report. Such corrective action plan shall describe the excessive emission levels, or the determination by DPH or the Department of Public Works, and set forth a schedule for remedial action. The TAC shall consider the corrective action plan within 30 calendar days of its receipt, and provide notice to the permittee if such plan has been approved. If the TAC does not approve the corrective action plan, the Director of Regional Planning may impose additional or different measures to reduce air quality impacts at the Facility. These additional measures may include, but not be limited to, requirements that the permittee: (1) pave additional unpaved roads at the Facility; (2) water and apply soil sealant to additional Working Face areas; (3) relocate Working Face areas to designated locations during windy conditions; (4) monitor sensitive sites throughout the community; (5) close the Facility during extreme wind conditions; and (6) employ the services of an independent consultant to evaluate the air quality impacts and/or odor nuisance, and make recommendations to mitigate the impacts and/or abate the odor nuisance. The cost of the consultant and the tests shall be borne entirely by the permittee. The consultant report shall be provided to the Department of Regional Planning, the Department of Public Works, the TAC, the CAC and the permittee within 15 calendar days after completion of the tests. The Director of Public Works, with the advice of the TAC and CAC, may reduce the frequency of the consultant testing, or discontinue it altogether, if the Director of Public Works finds that the test results are invalid or lack beneficial value. Notwithstanding the preceding sentence, the Director of Regional Planning, with the advice of the TAC and CAC, may increase the frequency of the consultant testing if the Director of Regional Planning finds the frequency insufficient. The permittee may appeal the Director of Regional Planning's decision in accordance with the appeal provisions in Condition No. 20 for an appeal of a notice of violation.	During the 2023 Reporting Period, Condition No. 70 was not triggered.
71	Within 180 days after the Effective Date, all equipment, diesel fleet vehicles, and transfer trucks that are owned or operated by the permittee, its subsidiaries, or affiliated enterprises, and that utilize the Facility, shall be compliant with CARB regulations. As part of its annual report to the TAC and CAC required by the IMP, the permittee shall submit documentation of its compliance with this Condition No. 71, including, but not limited to, Title 13, California Code of Regulations, section 2020, et seq., regarding Diesel Particulate Matter Control Measures.	Proof of equipment compliance with CARB regulations during the 2023 Reporting Period is provided in Appendix I, Documentation of CARB Compliance.
72	The permittee shall be subject to the following requirements regarding alternative fuel vehicles and equipment: A. For the purpose of complying with this Condition No. 72, alternative fuel vehicles shall utilize alternative fuels that are consistent with recommendations or regulations of CARB and SCAQMD, which may include, but are not limited to electricity, natural gas (liquefied natural gas or compressed natural gas), biogas, biodiesel, synthetic diesel, or renewable diesel; B. Within the first year after the Effective Date, the permittee shall submit an alternative fuel vehicle implementation plan to the TAC and CAC for review and approval by the TAC. The plan shall contain information on available and proposed alternative fuel technologies, a comparison of their air emissions reduction levels at the Facility, including greenhouse gas emissions, a timeline demonstrating the permittee's best-faith efforts to comply with this Condition No. 72, as well as any other information deemed necessary by the TAC to approve the plan; C. The permittee shall convert into alternative fuel vehicles all light-duty vehicles operating at the Facility, solid waste collection trucks, and transfer trucks that utilize the Facility and are owned by, operated by, or under contract with the permittee, its subsidiaries, or affiliated enterprises, according to the following phase-in schedule: 1. Within four years after the Effective Date, at least 50 percent of all aforementioned vehicles shall be alternative fuel vehicles. 2. Within seven years after the Effective Date, at least 75 percent of all aforementioned vehicles shall be alternative fuel vehicles.	Appendix J provides a Condition No. 72 Compliance Evaluation, including status and progress of the various parts of Condition No. 72.

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	3. Within ten years after the Effective Date, 100 percent of all aforementioned vehicles shall be alternative fuel vehicles. D. Within the first year after the Effective Date, unless a later date is approved by the TAC, the permittee shall consult with the SCAQMD and design and implement at least one heavy-duty, alternative fuel off-road equipment pilot program, to the extent deemed technically and economically feasible by the TAC. The pilot program shall be certified by a major original equipment manufacturer such as, but not limited to, Caterpillar, John Deere, or Volvo. E. As part of its annual report to the TAC and CAC required by the IMP, the permittee shall submit an on-going evaluation of its compliance with each component of this Condition No. 72.	
73	Within 180 days of the effective date, the permittee shall adopt and implement a fugitive dust program that uses the most effective available methods and technology to avert fugitive dust emissions. The fugitive dust program shall be submitted to the Department of Public Works for review and approval. In addition to the re-vegetation measures in Condition No. 61, the program shall include, at a minimum, a requirement that: A. The permittee shall not engage in any excavation, grading, or other Landfill activity during high wind conditions, or when high wind conditions are reasonably expected to occur, as determined by the DPH, where such excavation or operation will result in significant emissions of fugitive dust affecting areas not under the permittee's control; B. The Working Face areas of the Landfill shall be limited to small contained areas of approximately one acre or less. During periods of the year when high wind conditions may be expected, the Working Face areas shall each be located in an area of minimal wind exposure, or be closed, if closure is deemed necessary by the DPH; C. Except when there is sufficient rain or moisture to prevent dust, daily cover, haul roads, and grading locations shall be watered as required by State Minimum Standards or more frequently, when conditions dictate for dust control. Soil sealant may be required in addition to water; D. Except when there is sufficient rain or moisture to prevent dust, all active Working Face and soil Stockpile Areas shall be watered daily, unless wind conditions dictate otherwise; E. If determined necessary by the DPH, the permittee shall, on any day preceding a day when the Facility is closed to Solid Waste receipt, apply soil sealant to any previously active Working Face, haul roads, or soil Stockpile Area that has not already been sealed or re-vegetated; F. Inactive areas of exposed dirt that have been sealed shall be regularly monitored to determine the need for additional sealing and to prevent unauthorized access that might disturb the sealant. If additional sealing treatment is required, the permittee shall promptly apply such treatment to assure full control of the soil particles; G. All primary access roads to any permanent facility in the Landfill shall be paved; H. To minimize the length of dirt roads, paved access roads to fill areas shall be extended as new fill areas are opened. Winter deck access roads shall be paved or surfaced with recycled asphalt, aggregate materials, or soil stabilization products to minimize the quantity of untreated dirt; I. All paved roads in regular use shall be regularly cleaned to remove dirt left by trucks or other vehicles; J. Except when there is sufficient rain or moisture to prevent dust, all dirt roads in regular use shall be watered at least once daily on operating days and more often if required by the DPH or the Department of Public Works, or otherwise treated to control dust emissions; K. Loads of Solid Waste capable of producing significant dust shall be watered during the Landfill process. If such practice is deemed unacceptable to the RWQCB, the permittee shall develop alternative methods to minimize dust generation during the Landfill process and obtain approval of the method from the Department of Public Works within 90 days of the RWQCB's determination; L. In addition to any fire flow requirements of the County Fire Department, the permittee shall maintain a supply of water for dust control in the active Working Face areas to ensure compliance with State Minimum Standards; and M. The permittee shall install and maintain devices on-site, as approved by the SCAQMD, to monitor wind speed and direction, and shall retain qualified personnel who can read and interpret data from these devices, can obtain and use information on predicted wind conditions, and can assist in the Facility's operations related to this information.	A Fugitive Dust Control Program containing the specified elements of Condition No. 73 was submitted to the Department of Public Works for review and approval on January 24, 2018 and again on August 15, 2019. The Fugitive Dust Control Program was approved by LACPW on April 14, 2021 and CCL implemented the Program throughout 2023.
74	The permittee shall prepare an Odor Impact Minimization Plan (OIMP) for Facility operation consistent with the Landfill Operation Odor Reduction Measure included in the MMRP, as well as an OIMP for compost facility operation consistent with Mitigation Measure AQ-4 included in the MMRP. In addition to the requirements specified in the California Code of Regulations, Title 14, Division 7, Chapter 3.1, Article 3, and section 17863.4, the permittee shall ensure that the OIMP includes clear and enforceable measures to control odor emissions from extending beyond the site property boundary. The permittee shall maintain a log demonstrating compliance with the OIMP and documenting the effectiveness of measures taken to mitigate odor generated from incoming waste hauling trucks/customers, Working Face areas, Landfill gas, and compost operation, and will provide the log annually to the TAC and CAC. The permittee shall submit a quarterly report to the Department of Public Works identifying: (1) all fugitive dust and odor complaints from local residents that the permittee has received for that quarter regarding the Facility; (2) all notices of violation issued by the SCAQMD or the DPH; and	An OIMP was submitted on October 25, 2017, to LACPW and LADRP per Odor Reduction Measure 1, included in the MMRP. The OIMP was submitted on November 21, 2017, to the LEA and SCAQMD and again to the SCAQMD on November 28, 2017. Comments on the OIMP were received from LADRP on October 26, 2017, and from LACPW on October 3, 2018. A revised OIMP was submitted to LADRP and LACPW on February 1, 2019 and approved on March 6, 2019. CCL implemented the OIMP throughout 2023. CCL's quarterly reports to LACPW include a report on fugitive dust and odor complaints required by this Condition No. 74.

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	(3) all measures undertaken by the permittee to address these complaints and/or correct the violations. The Department of Public Works and the DPH shall each have the authority to require the permittee to implement additional corrective measures for complaints of this nature, when such measures are deemed necessary to protect public health and safety.	
75	Within 90 days after the Effective Date, the permittee shall submit for review and approval by the Department of Public Works a plan that establishes a program to reduce unnecessary truck trips and queuing of trucks at the Facility and shall implement the approved plan. The program shall include, but not be limited to, the following elements: A. A plan to schedule regular Facility users, such as commercial and municipal haulers, to avoid having these users arrive at the Facility and queue on public streets right-of-ways or be diverted to other Landfills; B. A plan to reserve Landfill capacity until 2:00 p.m., Monday through Friday, during normal operating conditions, for small commercial and private users; and C. A plan to discourage Landfill customers from delivering loads of less than one ton to the Facility.	CCL submitted an Unnecessary Truck Trip and Queuing Minimization Plan to the LACPW for review and approval on October 12, 2017, and again on December 14, 2017, and September 17, 2019, in response to County comments. CCL implemented the Unnecessary Truck Trip and Queuing Minimization Plan throughout 2021. It was approved by LACPW on April 14, 2021. The Plan was prepared consistent with CUP Condition Nos. 47 and 75-81 and addresses CCL's queuing minimization approach at both the current and future landfill entrance. The Plan also addresses additional strategies for minimizing truck trips, including scheduling regular facility users, reserving landfill capacity for small users, and discouraging customers from delivering loads of less than one ton.
76	Within 90 days after the Effective Date, the permittee shall implement a program to include, at a minimum, measures to minimize or avoid the queuing of trucks at the Facility entrance, or on SR-126 Highway and any other adjacent streets due to waste delivery or landfilling activities at all times. At any given time, no off-site queuing shall be allowed. The program shall be reviewed and approved by the Department of Public Works. A report on the effectiveness of the program shall be submitted as part of the annual report required pursuant to Part XII of the IMP.	CCL submitted an Unnecessary Truck Trip and Queuing Minimization Plan to the Department of Public Works for review and approval on October 12, 2017, and again on December 14, 2017, and September 17, 2019, in response to County comments. The Unnecessary Truck Trip and Queuing Minimization Plan was implemented by CCL throughout 2021. It was approved by LACPW on April 14, 2021. See Section 11 of the 2023 Annual Compliance Report, for a discussion on the effectiveness of the Plan.
77	Within one year from the Effective Date, the permittee shall close the existing site entrance on Henry Mayo Drive (SR-126) and relocate the site entrance, along with all its auxiliary facilities to a new site entrance located on Wolcott Drive as shown in Exhibit "A." In the event that the permittee is unable to relocate the site entrance within a year, the permittee may request a one-time extension from the Department of Public Works. The extension may be granted at the sole discretion of the Department of Public Works, if the permittee demonstrates, to the satisfaction of the Department of Public Works that the extension is needed, due to activities beyond the permittee's control, and permittee is making good faith efforts to relocate the Site entrance. Notwithstanding the previous sentence, the total duration of the time extension shall not exceed 180 days.	The schedule for relocating the site entrance is dependent on the schedule for off-site traffic improvements required in Condition No. 79. The current schedule for offsite traffic improvements shows that the offsite improvements will be complete by December 2026, pending all permits, at which time the relocated entrance could be open for use. On June 10, 2020, CCL provided to LADRP correspondence documenting efforts made to comply with Condition No. 77. As part of these efforts, CCL has submitted applications for various permits and is waiting on approval of these permits, including from LA County, in order to proceed. On June 11, 2020, LADRP issued a Notice of Violation to CCL for not relocating the new site entrance by April 30, 2020. This NOV was administratively appealed, but the appeal has been stayed. During the 2023 Reporting Period, CCL coordinated with LACPW regarding the grading permits required to construct the relocated entrance. Required prerequisite clearances and/or approvals regarding the resubmittal of the Grading Plan have been met and the Grading Plan and Low Impact Development and Hydraulics Reports have been approved. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
78	The designated haul route shall be as follows: Truck traffic to the Facility from the Interstate 5 ("1-5 Freeway") shall be restricted to the following route: (a) SR-126; and (b) Wolcott Way to travel to the Facility Driveway. Unless necessitated by road closure or other detour plan implemented by the local jurisdictions, at no time shall any truck movement under the permittee's control to the Facility from 1-5 Freeway take place on any other route. Truck traffic to 1-5 Freeway from the Facility shall be restricted to the following route: (a) Wolcott Way and (b) SR-126 and enter 1-5 Freeway at the SR-126 on-ramp. Unless necessitated by road closure or other detour plan implemented by the local jurisdictions, at no time shall any truck movement under the permittee's control to 1-5 Freeway from the Landfill take place on any other route.	Noted.
79	Within 90 days after the Effective Date, the permittee shall provide to the Department of Public Works for review and approval a set of schedules for commencement of the "Chiquita Canyon Landfill Street Improvement Project." The street improvements identified in the "Chiquita Canyon Landfill Street Improvement Project" shall be in accordance with the following: A. The permittee shall be responsible for the following Right-of-Way and Street Improvement Requirements. B. Construct full street improvements on Wolcott Way and Franklin Parkway within the project frontage, compatible with the ultimate improvements per Tentative Tract Map No. 53108, to the satisfaction of the Department of Public Works. 1. The design and construction on Wolcott Way should be compatible with vertical approaches to the future grade separations at the SR-126, to the satisfaction of the Department of Public Works and Caltrans. 2. Dedicate right-of-way at a minimum of 70 feet from the latest approved centerline on SR-126, to the satisfaction of the Department of Public Works and Caltrans. The typical section and the ultimate right-of-way are contingent upon the traffic study demonstrating that the project volumes do not exceed the road capacity. In the event the project volumes exceed the road capacity, provide additional	On October 26, 2017, CCL submitted a set of schedules for the "Chiquita Canyon Landfill Street Improvement Project" to LACPW. CCL has made changes to the schedule based on feedback from LACPW and made subsequent informal deliverables of updated schedules. On June 10, 2020, CCL provided to LADRP correspondence that documents efforts made to comply with Condition No. 79. As part of these efforts, CCL coordinated extensively with LACPW, as well as with Caltrans, as required by Condition No. 79. On June 11, 2020, LACPW issued a Notice of Violation to CCL for not completing offsite street improvements by April 30, 2020. Measures taken by CCL during the 2023 Reporting Period to develop street improvements surrounding the Facility are described in Section 10(b) of this 2023 Compliance Monitoring Report. During the 2023 Reporting Period, CCL coordinated with LACPW regarding the grading permits required to construct the relocated entrance.

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	right-of-way for additional lanes, exclusive right turn lanes, and transition improvements, to the satisfaction of the Department of Public Works and Caltrans. 3. Provide slope easements at the future SR-126/Wolcott Way interchange, to the satisfaction of the Department of Public Works and Caltrans. 4. Comply with mitigation measures, including offsite improvements identified in the approved Traffic Study Analysis, to the satisfaction of the Department of Public Works and Caltrans. 5. Provide signing and striping plans for Wolcott Way, Franklin Parkway, and any other offsite roadway, based on the mitigations contained in the approved Traffic Study.	CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
	6. Remit fees in accordance with the formulas, procedures and requirements set forth in the February 2011 Report for the Westside Bridge and Major Thoroughfare Construction Fee District, to defray the costs of road improvements identified in the Report, which are necessitated to accommodate the expansion of the Landfill. The fee amount is due and payable prior to the Effective Date and is based upon the fee rate in effect at the time of the Project's Effective Date. The current fee rate is $23,780 per Factored Development Unit (FDU) and is subject to change. Per the current Westside Bridge and Major Thoroughfare Construction Fee District Report, each gross acre of an industrial site is assessed at three times the applicable FDU rate.	CCL paid fees associated with the Westside Bridge and Major Thoroughfare Construction Fee District on August 13, 2018. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
	7. The permittee shall install drainage structures and comply with all other drainage requirements of the Department of Public Works and any additional requirements of the RWQCB, as well as any other regulatory agency with appropriate jurisdiction. Except as specifically otherwise approved by the Department of Public Works, all drainage structures, including sedimentation basins, shall be designed and constructed so as to accommodate run-off from a capital storm. 8. The Landfill and drainage structures shall in all cases be designed so as to cause surface water to be diverted away from the disposal areas. 9. The permittee shall further comply with all grading requirements of the Department of Public Works and the County Code.	Noted.
	10. The permittee shall comply with the following requirements of Street Lighting Section of the Traffic and Lighting Division of the Department of Public Works, where the installations of streetlights are required. Prior to approval of any street improvement plan, the permittee shall submit a street lighting plan to the satisfaction of the Department of Public Works. Any proposed streetlights that are not within the existing lighting maintenance district will need to be annexed to the district before street lighting plans can be approved. (1) Within one year from the Effective Date, the permittee shall provide streetlights on concrete poles with underground wiring on all streets around the project boundaries to the satisfaction of the Department of Public Works. The permittee shall also contact Caltrans for street lighting requirements on Henry Mayo Drive (SR-126). (2) Within 30 days of the Effective Date, the permittee shall contact the Department of Public Works, Street Lighting Section, to commence and complete the Lighting District Annexation process for the operation and maintenance of the streetlights around the project boundary.	A street lighting plan and installation of streetlights are included in the set of schedules prepared for the "Chiquita Canyon Landfill Street Improvements Project". LACPW, Street Lighting Section, was contacted within 30 days of the effective Date to commence the Lighting District Annexation process. LACPW's Street Lighting Section has advised CCL of necessary requirements that need to be submitted to start the Lighting District Annexation process. LACPW reiterated this requirement on April 25, 2018. Information regarding the process has been included in the set of schedules prepared for the "Chiquita Canyon Landfill Street Improvements Project." During the 2023 Reporting Period, CCL continued work on design plans for the relocated entrance necessary for the annexation process. Design plans are either approved or pending. In some cases, plan approval previously received has expired. The Street Light Plan approval has expired. A new separation criterion by LACPW requires a complete redesign of the street light system and acceptance of SCE to maintain this system. The Street Improvement Plan approval has expired, and the plan has been refiled. The Signing and Striping Plan and the Traffic Signal Modification Plan remain to be signed by LACPW. An Encroachment Permit was obtained from Caltrans for the Traffic Signal Modification Plan, but this encroachment permit has since expired. A new encroachment permit will be filed in 2026.
	11. The permittee shall pay all applicable review fees for review of all plans and engineering reports. 12. The permittee shall acquire street plan approval from the Department of Public Works, or direct check status before obtaining grading permit. 13. Within 90 days or as otherwise determined by the Department of Public Works, after the approval of the "Chiquita Canyon Landfill Street Improvement Project," execute an Improvement Agreement for the street improvements identified in this Condition No. 79, Subsection B.	Noted.
	14. Within 360 days after the Effective Date of this grant, the permittee shall pay its fair share to fully improve the pavement and thickening of the base/sub-base to sustain the entire truck traffic loading of the project operation and any increase in project operation on the following streets, or as required to the satisfaction of the Department of Public Works, Wolcott Way between Franklin Parkway and SR-126. The Director of the Department of Public Works, at his/her sole discretion, may grant an extension of time not to exceed an additional 360 days, if the permittee demonstrates good faith effort toward construction and completion of this Condition No. 79, subsection B. 14.	At a meeting on January 30, 2018, between CCL and LACPW, LACPW indicated that 100-percent of the cost to fully improve the pavement and thickening of the base/sub-base of Wolcott Way between Franklin Parkway and SR-126 is the responsibility of CCL. This activity is part of the "Chiquita Canyon Landfill Street Improvement Project" described elsewhere in this Condition No. 79. This activity is included in the set of schedules submitted to LACPW for the "Chiquita Canyon Landfill Street Improvement Project".
b.	Once every five years beginning on the Effective Date of this grant and continuing for the duration of this grant, the permittee shall conduct a Roadway Section Analysis to include a pavement section evaluation of the designated haul route (Wolcott Way and SR-126 to the Facility	At a meeting on January 30, 2018, between CCL and LACPW, it was agreed that CCL would conduct machine-generated truck counts at the existing site entrance (truck counts at the relocated entrance would not be useful) to be used for preparing

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	entrance), as well as all truck counts and traffic index calculation sheets. The findings of the revised Roadway Section Analysis shall be provided to the Department of Public Works and the City of Santa Clarita for review and approval. The permittee shall be responsible for the pro-rata costs of improving the pavement structure of the roadway segments along the designated haul route, per the recommendations in the revised Roadway Section Analysis. Upon construction of any necessary improvements to the pavement structure, the permittee shall conduct baseline deflection testing, in accordance with California Test Method 356, and submit the results to the Department of Public Works for review and approval.	traffic index (TI) calculations sheets. CCL subsequently submitted Traffic Index Calculations for CCL's designated haul route (Wolcott Way between SR-126 and the new facility entrance) to LACPW for review and approval. After discussions with LACPW staff, the Traffic Index Calculations were revised and resubmitted to LACPW on December 3, 2018. The TI calculations will be used to design the pavement structure of the roadway segments (Wolcott Way and a portion of Franklin Parkway).
	c. Once every five years beginning on the Effective Date of this grant and continuing for the duration of this grant, the permittee shall conduct machine-generated truck counts at the project site entrance on three consecutive days (Tuesday through Thursday) during weeks void of national holidays. The truck counts shall be conducted by an independent count company in accordance with generally accepted traffic counting procedures. The permittee shall also calculate the 10-year Design Traffic Indices along the designated haul route Wolcott Way and SR-126 to the Facility entrance), based on the truck counts and submit them to the Department of Public Works for review and approval. Lastly, the permittee shall perform deflection tests along the designated haul route in accordance with California Test method 356 and submit the results to the Department of Public Works for review and approval. If the retested 80 percentile deflection exceeds 32 percent of the tolerable deflection, the permittee shall pay its fair share to fully remediate the pavement structure. The permittee shall submit to the Department of Public Works the proposed method of remediation and schedule for commencement of the improvement for review and approval.	At a meeting on January 30, 2018, between CCL and LACPW, it was agreed that CCL would conduct machine-generated truck counts at the existing site entrance (truck counts at the relocated entrance would not be useful) to be used for preparing traffic index (TI) calculations sheets. CCL subsequently submitted Traffic Index Calculations for CCL's designated haul route (Wolcott Way between SR-126 and the new facility entrance) to LACPW for review and approval. After discussions with LACPW staff, the Traffic Index Calculations were revised and resubmitted to LACPW on December 3, 2018. The TI calculations will be used to design the pavement structure of the roadway segments (Wolcott Way and a portion of Franklin Parkway). Every 5 years thereafter, CCL will perform deflection tests along Wolcott Way and submit the results to LACPW. If needed, CCL will pay its fair share to remediate the pavement structure.
	In no event shall the "Chiquita Canyon Landfill Street Improvement Project" be more than 24 months from the Effective Date, unless otherwise extended by the Department of Public Works.	Noted. CCL has a pending application to modify this condition to implement a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
80	In the event the permittee elects to construct and operate a commercial-scale Conversion Technology facility at the Facility or other location in the Unincorporated County areas of the Santa Clarita Valley as approved by the Department of Public Works, the permittee is required to prepare and submit a traffic impact study to the Department of Public Works for review and approval. If the traffic impact study identifies traffic impacts, the permittee will be required to fund and/or build adequate traffic improvements, to the satisfaction of the Department of Public Works.	CCL did not elect to construct or operate a commercial-scale Conversion Technology facility at the Facility or other location during the 2023 Reporting Period.
81	The Department of Public Works, the LEA, and the CAC may monitor the performance of the conditions of this grant designed to minimize truck traffic impact. In the event such measures are found to be inadequate, such entity or entities shall notify the Director of Regional Planning and describe the inadequacy of the conditions.	Noted.
82	The permittee shall adopt a program that uses the most effective methods and technology to prevent waste that has entered an area under the permittee's control from escaping the area in the form of litter. Notwithstanding any other provision of this grant, the permittee shall cease accepting incoming waste during high wind conditions if, despite the methods and technology used for controlling litter, waste cannot be confined to areas under the permittee's control.	On August 24, 2017, CCL submitted a Vehicle Tarping, Litter Control, and Litter Recovery Program to LACPW for review and approval. The Program was approved by LACPW on January 29, 2018 and is currently being implemented by CCL.
83	Within 30 days after the Effective Date, the permittee shall submit a litter control program to the DPH and the Department of Public Works for review and approval that uses the most effective methods and technology to prevent waste that has entered an area under the permittee's control from escaping the area in the form of litter. Permittee shall implement the program, as approved, and submit any revisions to the Department of Public Works for approval. The program shall include the following requirements, unless DPH requires otherwise, or the Department of Public Works approves alternative measures after determining that they are at least as effective in controlling litter: A. Facility personnel shall continuously patrol the access road to the Facility scales during the Facility's hours of operation and remove any litter found during the patrol; B. Loads of Solid Waste that are improperly covered or contained and that may create significant litter shall be immediately detained, and if practicable, properly covered or contained prior to proceeding to the Working Face. If such a remedial measure cannot be taken, the load shall proceed to the Working Face under escort; C. All debris found on or along the entrance to the Facility and/or Working Face access roads shall be immediately removed; D. Operating areas shall be located in wind shielded portions of the Landfill during windy periods; E. The Landfill operator shall install speed bumps on Landfill property in paved areas along the route of trucks leaving the Landfill. The purpose of the speed bumps is to knock out dirt and debris accumulated in wheel wells before trucks leave the facility; and F. The permittee shall require open-bed trucks exiting the landfill either to be swept clean of loose debris or to be covered so as-to minimize the possibility of litter escaping onto SR-126.	On August 24, 2017, CCL submitted a Vehicle Tarping, Litter Control, and Litter Recovery Program to LACPW for review and approval. The Program was approved by LACPW on January 29, 2018 and is currently being implemented by CCL.
84	Within 90 days after the Effective Date, the permittee shall develop methods and/or procedures to prevent or minimize vehicles from carrying dirt and/or debris that may be dislodged onto local streets and highways and submit the methods and/or procedures for approval, and implement the approved measures to the satisfaction of the Department of Public Works.	On October 12, 2017, CCL submitted a Track-out Prevention and Minimization Plan to LACPW for review and approval. The Plan was approved by LACPW on January 10, 2018 and is currently being implemented by CCL.

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85	In addition to the requirements described in Condition Nos. 82 and 83, the permittee shall develop and maintain a litter recovery program, to the satisfaction of the Department of Public Works and the DPH, designed to recover off-site litter from uncovered or improperly covered or contained loads traveling to the Facility or otherwise emanating from the Facility, including conducting weekly inspections of the surrounding neighborhoods within a one-mile radius of the property boundary of the combined facility. Based upon the inspection, the permittee shall collect and remove all wind-blown Trash or litter encountered in the specified area. The permittee shall maintain a log of the inspections, provide the log upon request to the DPH and the Department of Public Works, and include a copy of the log in the annual report required pursuant to Part XII of the IMP. The Department of Public Works, at its sole discretion, may increase the frequency of the litter pickup and recovery, or adjust the boundary of the specified area to improve the effectiveness of the litter recovery program.	On August 24, 2017, CCL submitted a Vehicle Tarping, Litter Control, and Litter Recovery Program to LACPW for review and approval. The Program was approved by the Department of Public Works on January 29, 2018, and is currently being implemented by CCL. See Appendix K for a log of litter inspections for the 2023 Reporting Period.
86	The permittee shall monitor Chiquito Canyon Road, SR-126, Wolcott Way, Franklin Parkway, and other feeder roads to the entrance to Val Verde at Rancho Aviles, and the surrounding area within 100 feet of the centerline of the road (except along SR-126, where collection would start at the shoulder for safety reasons), or to any existing fence on private property for the purpose of locating and cleaning up litter in this area. Litter pickup shall be a minimum of one time per week and may be increased, upon agreement between the Landfill operator and the CAC, to maintain a litter-free environment.	This requirement is included in the Vehicle Tarping, Litter Control, and Litter Recovery Program, which was approved by LACPW on January 29, 2018, and is currently being implemented by CCL.
87	The permittee shall develop and implement a vehicle tarping program at the Facility that effectively discourages uncovered vehicles from using the Facility. Within 30 days after the Effective Date, the permittee shall submit such vehicle tarping program for approval by the Department of Public Works. Such program shall provide that all vehicles loaded with Solid Waste, or any other material that creates the potential for litter, shall be fully tarped or otherwise contained when entering and leaving the Facility, and that no such vehicle shall be allowed to enter the Facility until the driver has been informed of the tarping requirements and has been asked to have his/her load covered. The program shall impose penalties on repeat violators, up to and including, being permanently prohibited from using the Facility.	On August 24, 2017, CCL submitted a Vehicle Tarping, Litter Control, and Litter Recovery Program to the Department of Public Works for review and approval. The Program was approved by LACPW on January 29, 2018, and is currently being implemented by CCL.
88	The permittee shall monitor and maintain the Facility's Environmental Protection and Control Systems in perpetuity, or until such time as the Department of Public Works, based on generally accepted engineering practice, determines that the routine maintenance and foreseeable corrective action that may be necessary during and after the Post-Closure Maintenance Period has been fully satisfied, and the Solid Waste disposed of in the Landfill no longer constitutes a threat to public health and safety, or to the environment.	Noted. CCL is in compliance with this Condition No. 88.
89	The permittee shall take all necessary measures to ensure that noise emissions from the Facility at all residential receptors are within the acceptable limits of the Los Angeles County Noise Ordinance, as contained in Chapter 12.08 of the County Code.	Noted. CCL is in compliance with this Condition No. 89. No noise complaints were received during the 2023 Reporting Period.
90	The permittee shall implement effective vector control measures at the Facility pursuant to State standards, as directed by the DPH.	Noted. CCL is in compliance with this Condition No. 90.
91	Any future traffic circulation scenario outside the current haul routes shall avoid areas of high biological diversity. Prior to utilization of a new haul route, the permittee shall submit the proposed haul route with all supporting information/report/survey of biological resources in the vicinity of the proposed haul route to the Department of Regional Planning for review and approval. The Department of Regional Planning shall consult with the Department of Public Works regarding any changes to the current haul route.	There were no changes to the haul route during the 2023 Reporting Period.
92	For fire protection purposes, the permittee shall maintain on-site fire response capabilities, construct access roads, and provide water tanks, water mains, fire hydrants, and fire flows, to the satisfaction of the County Fire Department, including, but not limited to the following: A. A Class II Standpipe System shall be provided and located within 200 feet of the Landfill footprint and shall have sufficient 1 1/2-inch hose with a variable-fog nozzle to reach all portions of such operations. The use of water tender trucks may be permitted in lieu of a Class II Standpipe System, provided each is equipped with 2 1/2-inch outlets for County Fire Department's use. B. Approved access roads no less than 20 feet in width clear to the sky shall be provided and maintained at all times around the landfilling areas to provide access for firefighting equipment. Weeds, grass, and combustible vegetation shall be removed for a distance of 10 feet on both sides of all access roads used by solid waste trucks or the public. All access within the Landfill site shall be in accordance and compliance with the County Fire Code and standards.	CCL maintains onsite fire response capabilities to the satisfaction of the County Fire Department. As the site is developed and the new entrance designed, CCL will ensure that all aspects of the site meet the requirements of the County Fire Department, including requirements of Condition No. 92 and those included in the Los Angeles County Fire Department letter dated February 24, 2017 (Table F3, Additional Conditions of Approval Compliance Status Summary Table).
93	All development pursuant to this grant must be kept in full compliance with County Fire Department Regulation 10. Construction plans for access roads shall be submitted to the County Fire Department for review and approval.	Site development will be in compliance with County Fire Department Regulation 10, and construction plans for new access roads will be submitted to the County Fire Department for review and approval.
94	All on-site fuel storage tanks shall be installed and necessary containment and air quality controls for the tanks provided, in accordance with the requirements of the County Fire Department, the Department of Public Works, the RWQCB, and the SCAQMD.	No onsite fuel storage tanks were installed during the 2023 Reporting Period.
95	The permittee shall develop and implement a program to identify and conserve all significant archaeological and paleontological materials found at the Facility, pursuant to Part IX of the IMP. If the permittee finds any evidence of aboriginal habitation or fossils during earthmoving activities, Landfill operations shall immediately cease in that immediate area, and the evidence and area shall be preserved until a qualified archaeologist or paleontologist, as appropriate, makes a determination as to the significance of the evidence. The Department of Regional Planning will review and	A draft Cultural Resources Monitoring Plan (CRMP) was submitted to LADRP for review and approval on April 24, 2018. The CRMP was approved by LADRP on May 29, 2018. No construction at CCL occurred during 2020 that required monitoring pursuant to the CRMP. A draft Paleontological Resources Mitigation Plan (PRMP) was submitted to LADRP for approval on April 24, 2018. The PRMP was approved by LADRP on May 29, 2018.

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	approve this program, if the determination indicates that the archaeological or paleontological resources are significant, the resources shall be recovered to the extent practicable, prior to resuming Landfill operations in that immediate area of the Landfill.	During the 2023 Reporting Period, archaeological and paleontological monitoring was conducted for two construction projects at CCL (Cell 8 and Cell 7) in accordance with the CRMP and the PRMP. Monitoring reports for the 2023 Reporting Period are provided in Appendix D.
96	The permittee shall develop and obtain approval from the Department of Public Works for a Standard Urban Storm Water Mitigation Plan for the Facility's activities, unless the Department of Public Works determines that such plan is unnecessary.	In a letter dated April 17, 2018, LACPW confirmed that the intent of Condition No. 96 is met by the surface water monitoring and reports required in Condition No. 52.
97	The permittee is prohibited from initiating any activity for which an Industrial Waste Disposal Permit and/or Underground Storage Tanks Permit is required at the Facility without the required permit from the Department of Public Works, and the permittee shall conduct such activities in compliance with all applicable regulations and permits. The activities covered by this Condition No. 97 include, but are not limited to, the installation, modification, or removal of any underground storage tank and/or industrial waste control facility. For purposes of this Condition No. 97, an industrial waste control facility includes its permanent structures for treating post-development storm water runoff.	During the 2023 Reporting Period, CCL did not initiate any activity for which an Industrial Waste Disposal Permit and/or Underground Storage Tanks Permit would be required. CCL has an existing Industrial Waste Disposal Permit, No. 000366573, issued by LACPW, which addresses both Leachate and Condensate and Wash Pad Water. CCL reports on compliance with this permit to LACPW quarterly.
98	The permittee shall at all operating times, Monday through Saturday, maintain adequate on-site staff, with appropriate training and experience for the operation of the Facility. At least one on-site senior level member shall be familiar with or have access to an electronic or hard copy of this grant and possess a SWANA Manager of Landfill Operation (MOLO) certification.	Noted. CCL is in compliance with this Condition No. 98.
99	The permittee shall at all times, 24 hours a day, seven days a week, make available at least one emergency contact person, with sufficient expertise to assess the need for remedial action regarding operation-related accidents, and with the requisite authority and means to assemble the necessary resources to take such remedial action. The individual must be able to be reached on a continuous basis through the telephone number or e-mail address posted at the Facility entry gate.	CCL has available at least one qualified emergency contact person who can be contacted through the CCL hotline (telephone number posted at the Facility entrance gate).
100	Within 90 days after the Effective Date, the permittee shall submit a completed application to the Task Force for a "Finding of Conformance" that the proposed project and its expansions are consistent with the Los Angeles County Countywide Siting Element. The application must comply with all of the submittal requirements set forth in Table 10-1 thereof. The permittee shall also promptly comply with any requests from the Task Force for additional information needed in connection with the application, and shall comply with all conditions of such Finding of Conformance.	CCL submitted a completed application to the Task Force for a Finding of Conformance with the Los Angeles County Countywide Siting Element on October 26, 2017. Based on comments provided by the Task Force on December 6, 2017, CCL submitted a revised application to the Task Force on January 31, 2018. After reviewing the submitted materials, Task Force's staff notified CCL of additional information requested regarding the application for a Finding of Conformance. Between February and July 2018, CCL provided additional information to Task Force staff. On July 19, 2018, the Task Force voted to grant a Finding of Conformance for the project.
101	Upon the Effective Date, the membership of the Alternative Technology Advisory Subcommittee of the Task Force shall be increased to include a representative of the permittee and an environmental representative designated by the Fifth Supervisorial District to represent the Santa Clarita Valley. Notwithstanding the preceding sentence, the membership of the Alternative Technology Advisory Subcommittee may be adjusted, at the sole discretion of the Department of Public Works, acting as the Chair of the Task Force, as necessary upon the recommendation of the Task Force.	Noted.
102	All employee, guest, and truck parking shall be developed and maintained as set forth in Part 11, Chapter 22.52, of the County Code.	Employee, guest, and truck parking for the relocated site entrance will be developed and maintained as set forth in Part 11, Chapter 22.52, of the County Code.
103	All salvage material stored at the Facility (except materials which are to be used for Landfill operations), dumpsters, containers, construction materials, and disabled trucks and equipment shall be consolidated into one or more areas that are screened by fences or other means from public streets and adjacent private lands not owned by the permittee, in accordance with the provisions of Part 7, Chapter 22.52 of the County Code.	Noted. CCL is in compliance with this Condition No. 103.
104	The perimeter of the Landfill shall be designed to discourage unauthorized access by persons and vehicles by using a perimeter barrier (such as fencing) or topographic constraints enclosed by fencing to inhibit unauthorized entry. Except as otherwise required by the DPH, fencing shall conform to the detail shown on the approved Exhibit "A".	During the 2023 Reporting Period, there were no changes to the perimeter of the Landfill, which is currently designed to discourage unauthorized access by persons and vehicles.
105	Business signs shall be as permitted by Part 10, Chapter 22.52, of the County Code for Zone C-1, except that no portion of any such sign may extend more than 15 feet above the ground, and the total sign area shall be based upon a street or building frontage of 100 feet.	During the 2023 Reporting Period, no business signs were installed by CCL.
106	Within 10 years after the Effective Date, and every 10 years thereafter, the Department of Public Works, in consultation with the Department of Regional Planning and the permittee, shall select an independent consultant(s) with expertise in engineering and planning, to conduct a comprehensive study analyzing various alternatives to serve the long-term Solid Waste Disposal needs of the Santa Clarita Valley. The purpose of the study is to ensure uninterrupted solid waste disposal services to the residents and businesses in the Santa Clarita Valley, keeping disposal fees low and stable, making existing facilities as efficient as possible, and ensuring that facilities keep pace with population growth and changing technologies in the solid waste industry. The study should include comprehensive analyses (including a sensitivity and cost-to-benefit analysis) of all aspects of this endeavor, including but not limited to, the economic, environmental, and technical feasibility of the following alternatives/issues:	Noted.

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	A. Evaluating rail and truck transport options for solid waste export out of the Santa Clarita Valley, including the necessary infrastructure (in and out of the Santa Clarita Valley) to realize these options; B. Demonstrating how any proposed waste-by-rail option would tie into the existing or future County waste-by-rail system; C. Developing Conversion Technology facilities in the Santa Clarita Valley; D. Planning a future transfer station system in the Santa Clarita Valley; E. Reviewing public/private ownership options; F. Analyzing financing, staffing, and rate impacts; G. Defining and establishing the facility siting processes; H. Establishing a process for involving interested parties in the planning process; and I. Any other alternatives and issues deemed appropriate by the Department of Public Works and/or the Department of Regional Planning. The costs of the study shall be equally shared by the permittee and the Department of Public Works, Environmental Programs Division, but in no event shall the cost to the permittee exceed $50,000 per study. The permittee shall make the payment within 30 days of receiving the invoice for the consultant's services. The study shall be completed within 18 months of the selection of the independent engineering/planning consultant(s). The study's findings and recommendations shall be submitted to the TAC and CAC for review and comment. Upon addressing all the TAC's comments and CAC's comments to the satisfaction of the TAC, the independent engineering/planning consultant(s) shall submit the study to the Commission, the Department of Regional Planning, the Department of Public Works, the permittee, and all other interested parties. The permittee shall submit a detailed response to the study's findings and recommendations, including which recommendations it plans to pursue. The permittee shall make a good-faith effort to implement all recommendations to carry out the purpose of this Condition No. 106 to the satisfaction of the Department of Public Works.	
107	The permittee shall implement and comply with the following seismic monitoring requirements: A. Complete installation of an on-site accelerometer system to measure earthquake/seismic ground motions within 180 days after the Effective Date. The system design, including but not limited to, locations of sensors, shall be reviewed and approved by the Department of Public Works. A set of as-built plans signed and sealed by a California Registered Civil Engineer, or other registered professional approved by the Department of Public Works, shall be provided to DPH and the Department of Public Works; and B. Following a major earthquake/seismic ground motion of magnitude 5.0 or greater, as recorded by the closest ground-motion monitoring device as maintained by the California Division of Mines and Geology, thoroughly survey the Facility for primary and secondary surface expressions of seismic activity (such as surface ruptures, landslides, change in spring flows, liquefaction, etc.). Submit a damage assessment report on the results of the survey to the Department of Public Works and the DPH for review. The assessment report shall describe and discuss all features, including damage to the site and infrastructure caused by the earthquake and measures that will be taken to mitigate the impact to the satisfaction of the Department of Public Works.	Part A: On December 22, 2017, CCL submitted a Work Plan for Earthquake and Seismic Ground Motion Monitoring for Chiquita Canyon Landfill (Work Plan) to LACPW for review and approval. LACPW approved the Work Plan on February 22, 2018, and the onsite accelerometer system was installed and operational by March 21, 2018. CCL provided the as-built plan for the accelerometer system to LACPW on April 11, 2018. Part B: A seismic event near Ojai, CA occurred on August 20, 2023, that triggered the need for a damage assessment report. A Post Seismic Event Facility Survey for the Chiquita Canyon Landfill was provided to LA County on September 12, 2023.
108	The permittee shall accept all Solid Waste and Beneficial Use Materials generated and delivered to the Facility by all waste haulers and customers operating in the Unincorporated County Areas of Santa Clarita Valley. The permittee shall submit to the Department of Public Works an annual report on the origin of Solid Waste and Beneficial Use Materials accepted at the Facility by jurisdiction of origin. The annual report shall also contain information on all waste haulers (including those owned or operated by the permittee, its subsidiaries, or affiliated enterprises) and self-haul customers utilizing the Facility, whether (and why) any waste haulers and self-haul customers were turned away from the Facility, and the tipping fee charged for all waste haulers and self-haul customers. The permittee shall not engage in predatory pricing that may discourage any private waste haulers and self-haul customers from utilizing the Facility.	See Attachment L, Condition No. 108 Annual Waste Origin Report, for an Annual Waste Origin Report prepared according to the requirements of Condition No. 108.
109	Within 90 days after the Effective Date, the permittee shall install video monitoring equipment at the Facility to record and monitor Landfill operations at each Working Face area, between the period of 5:00 a.m. to 10:00 p.m. to ensure compliance with the conditions of this grant. Copies of the video recordings shall be provided to the Department of Public Works, DPH, the TAC and CAC upon request, and shall be kept and maintained at the Facility for one year after recording, unless the DPH determines, at its sole discretion, that the video recordings should be kept for a longer period to protect public health, safety, or the environment.	Video monitoring equipment has been installed and operational at CCL since October 2017. During the 2023 Reporting Period, no video recordings were requested. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
110	The permittee shall provide four free quarterly clean-up days to residents of the communities of Val Verde and Castaic, showing proper identification and proof of residence at the Landfill entrance. These days may be Saturday or Sundays, subject to the approval of the Department of Public Works. The permittee shall accept all Solid Waste delivered to the site with proof of residency during the event free of charge, up to one ton per residence, and promote the program in a newspaper of general circulation. The operator shall further reimburse the CAC for the cost of providing two roll-off bins in Val Verde and Castaic on each clean-up day with the locations determined by the CAC. The operator and CAC may jointly change this program if they mutually determine alternatives to the above can further assist the community.	Continuing a requirement from CCL's prior CUP, CCL holds free quarterly clean-up days in March, June, September, and December. These clean-up days are held on the first Saturday of the month, except for September, which is held on the second Saturday. CCL accepts solid waste delivered to the site with proof of residency during the event and provides a roll-off bin in Val Verde and Castaic on each clean-up day.

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2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
111	The permittee shall implement the following: A. The permittee shall designate the site as a passive park, open space or other type of publicly accessible recreational use in accordance with the covenants, conditions and restrictions on the Landfill, as indicated in the EIR at section 2.3.2.4. If requested by the County or other applicable governmental agency, the operator will offer to dedicate such area upon completion to an appropriate entity. B. Notwithstanding this Condition No. 111, the permittee shall maintain responsibility for the Facility including, but not limited to, all Closure and Post-Closure Maintenance requirements as stated in Condition Nos. 35 and 36. C. Within 180 days of the Effective Date, permittee shall prepare and submit to the Department of Regional Planning a Primary Canyon Park Implementation Plan, which shall establish protocols and processes to study, design, construct, operate, and fund a public access area on the closed portion of the Landfill (Primary Canyon). The Implementation Plan shall include criteria and standards for the Primary Canyon Park/Open Space and procedures for establishment of a Primary Canyon Recreation Community Working Group, which shall include representatives from the Landfill, the Department of Regional Planning, the Fifth Supervisorial District, the Department of Public Works, the LEA. the CAC, and the Castaic Town Council. 1. Permittee shall prepare a Primary Canyon Park/Open Space Master Plan in consultation with the Primary Canyon Recreation Community Working Group. The Master Plan shall balance the needs of the public for access against the following considerations: (1) Compliance with the regulatory requirements and the final closure plan; (2) Safety of the public with respect to ongoing Landfill operations; (3) Safety of the public with respect to the property surrounding the public access area; and (4) Biological mitigation measures required by the Final EIR. The Master Plan may provide for educational signage or kiosks regarding the Landfill, the Landfill gas-to-energy plant, native and rare plants and other wildlife resources, such as, for example, public education information on the western spadefoot toad and its habitat. The Master Plan shall be submitted to the Department of Regional Planning for review and approval within one year of the approval of the Primary Canyon Park/Open Space Implementation Plan. 2. Within one year of the approval of the Master Plan, permittee shall submit to the LEA a partial closure plan/post-closure plan for Primary Canyon that incorporates the approved Primary Canyon Park/Open Space Master Plan. 3. Permittee shall pay for construction of the approved Primary Canyon Park/Open Space and begin construction within 90 days of final approval of the Closure Plan by CalRecycle. 4. Permittee shall fund the costs to prepare the Primary Canyon Park/Open Space Implementation and Primary Canyon Park/Open Space Master Plans and the costs to design, permit and construct Primary Canyon Park/Open Space, at an amount not to exceed $2,000,000. Permittee shall operate Primary Canyon Park/Open Space at its own expense.	On January 24, 2018, CCL submitted a Primary Canyon Park/Open Space Implementation Plan to LADRP. Approval of the Implementation Plan by LADRP will initiate establishment of a Primary Canyon Recreation Community Working Group and development of a Primary Canyon Park/Open Space Master Plan. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
112	The requirement that the permittee pay the fees set forth in Condition Nos. 114 through 125, inclusive, shall not begin until the Effective Date. Prior to that date, any and all fees required by CUP 89-081-(5) shall remain in full force and effect. The following fees are cumulative and are in addition to any other fee or payment required by this grant.	Noted.
113	All financial records shall be preserved for a period of three years and shall be available for inspection by the DPH, the Department of Public Works, the Department of Regional Planning, and the Treasurer and Tax Collector during normal business hours, and shall be forwarded to such agencies upon request.	Noted. CCL is preserving its financial records in compliance with this Condition No. 113. On June 11, 2020, LACPW issued a Notice of Violation to CCL for failing to provide financial statements related to the Ameresco LFGTE Plant or agreements between Chiquita Canyon LLC and Ameresco Chiquita Energy LLC. This NOV was administratively appealed, but the appeal has been stayed.
114	The permittee shall pay to the office of the Los Angeles County Treasurer and Tax Collector a quarterly fee equal to 10 percent of the sum of the following, pursuant to Section 4.63, et seq., of the County Code: A. The net tipping fees collected at the Facility as described below in this Condition No. 114. For purposes of this Condition No. 114, "net tipping fee" shall mean the total fees collected, less any taxes or regulatory fees imposed by a federal, state, or local agency that is included in the fee charged by the permittee at the Facility entrance. "Total fees collected" shall be calculated as the total gross receipts collected by the permittee. The net tipping fees collected at the Landfill shall exclude any tipping fees received for waste processed at the material recovery, household hazardous waste and composting facilities referenced in Condition No. 27; B. The revenue generated from the sale of Landfill gas at the Facility, less any federal, state, or local fees or taxes applicable to such revenue; and C. The revenue generated by any other disposal-related activity or enterprise at the Facility, less any federal, State, or local fees or taxes applicable to such revenue.	During the 2023 Reporting Period, CCL made payments to LACPW according to the terms of Condition No. 114.

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

<table>
<tr><th>Condition Number</th><th>Condition</th><th>Compliance Status</th></tr>
<tr><td>115</td><td>The permittee shall pay on a monthly basis to the Department of Public Works a fee of 25 cents per ton of all Solid Waste disposed or received at the Landfill. The fee shall be adjusted annually in accordance with the CPI. This fee shall be used for the implementation and enhancement of waste reduction and diversion programs, including, but not limited to, conducting document/paper shredding and waste tire collection events in unincorporated County areas.</td><td>During the 2023 Reporting Period, LACPW suspended collection of this fee.

This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled Chiquita Canyon, LLC v. County of Los Angeles, et al., Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.</td></tr>
<tr><td>116</td><td>The permittee shall pay on a monthly basis to the Department of Public Works a fee of eight cents per ton of all Solid Waste disposed at the Landfill. The fee shall be adjusted annually in accordance with the CPI. This fee shall be used at the sole discretion of the Director of the Department of Public Works for administration, implementation, and enhancement of disaster debris removal activities in Val Verde, Castaic, and other unincorporated areas of the County surrounding the Landfill, including providing waste disposal and collection service vouchers to assist residents in clean-up activities.</td><td>During the 2023 Reporting Period, LACPW suspended collection of this fee.

This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled Chiquita Canyon, LLC v. County of Los Angeles, et al., Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.</td></tr>
<tr><td>117</td><td>For the life of this grant, except as provided in Condition No. 118 of this grant, the permittee shall pay on a monthly basis to the Department of Public Works a fee for every ton of Solid Waste originating within Los Angeles County but outside the Santa Clarita Valley Area that is processed for beneficial use, composting and/or disposed of at the Facility during the preceding month, according to the following rates:

<table><tr><th>Incoming Tonnage (Tons/Day)</th><th>Fee</th></tr><tr><td>0 - 1,999</td><td>$1.32 per ton</td></tr><tr><td>2,000 - 3,999</td><td>$2.64 per ton</td></tr><tr><td>4,000 - 5,999</td><td>$3.96 per ton</td></tr><tr><td>6,000 and over</td><td>$5.28 per ton</td></tr></table>
For the life of this grant, except as provided in Condition No. 118, the permittee shall pay on a monthly basis to the Department of Public Works a fee of $6.67 per ton for all Solid Waste and Beneficial Use Materials originating outside of Los Angeles County and within California that is processed for beneficial use, composting and/or disposed of at the Facility during the preceding month.

The fee shall be used to fund programs and activities that: (1) enhance Countywide disposal capacity, mitigate Landfill impacts in the unincorporated County areas; and (2) promote development of Conversion Technology facilities that benefit the County.

The fee applicable for every ton of material originating outside the Santa Clarita Valley Area but within Los Angeles County shall be determined using the above tiered-structured table and by dividing the total incoming waste from outside the Santa Clarita Valley by the number of delivery days. For example, if the monthly total is 50,000 tons and the number of delivery days is 20, then the average quantity is 2,500 TPD, and the fee is the sum of ($1.32 x 1,999) + ($2.64 x 501) = $3,961.32 x number of delivery days. The fee shall be adjusted annually in accordance with the CPI.

One-half (50 percent) of each monthly payment shall be deposited by the Department of Public Works into an interest-bearing deferred Landfill Mitigation Program Account, created and maintained by the Department of Public Works to fund programs and activities that enhance Countywide disposal capacity and mitigate Landfill gas impacts in the unincorporated County areas.

The remaining one-half (50 percent) of the monthly payment shall be deposited into an interest-bearing deferred Alternative-to-Landfilling Technology Account, created and maintained by the Department of Public Works to fund research and activities that promote the development of Conversion Technology facilities that benefit the County.

In the event the Department of Public Works, in consultation with the Director of Regional Planning, determines that the permittee has constructed and commenced operation of a Conversion Technology facility in full satisfaction of the requirements of Condition No. 118 of this grant, the fee requirement of this Condition No. 117 shall thereafter be reduced by one-half (50 percent). The new rate shall be as follows, but only so long as the Conversion Technology facility is operating:

Disposal Quantity
<table><tr><th>Incoming Tonnage (Tons/Day)</th><th>Fee</th></tr><tr><td>0 - 1,999</td><td>$0.66 per ton</td></tr><tr><td>2,000 - 3,999</td><td>$1.32 per ton</td></tr></table></td><td>During the 2023 Reporting Period, LACPW suspended collection of this fee.

This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled Chiquita Canyon, LLC v. County of Los Angeles, et al., Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.</td></tr>
</table>

Condition Number	Condition	Compliance Status
	4,000 - 5,999 | $1.98 per ton 6,000 and 7,000 | $2.64 per ton The fee applicable to all Solid Waste and Beneficial Use Material originating outside of Los Angeles County shall remain unchanged. Upon the effective date of the new rate, the funds generated from this fee shall be deposited into the Landfill Mitigation Program Account.	
118	In the event the permittee elects to construct and operate a commercial-scale Conversion Technology facility (excluding composting facilities) at the Facility or other location in the County as approved by the Director of Public Works, the permittee may seek to provide such facility in lieu of paying one-half (50 percent) of the fee required by Condition No. 117 of this grant. "Construct and operate" shall mean fully funding and successfully completing the siting, design, permitting, and construction of an operating facility for the conversion of a minimum of 500 tons per day of Solid Waste into useful products, fuels, and/or energy through no-combustion thermal, chemical, or biological processes (excluding composting facilities). The permittee shall be responsible for obtaining all necessary permits and approvals required to construct and operate the facility. The facility must be fully permitted, operational, and processing at least 50 percent of the daily tonnage permitted for such facility on the fifth anniversary of the Effective Date and fully operational by the sixth anniversary of the Effective Date. After the Director of Public Works has verified the Conversion Technology facility (excluding composting facilities) has commenced operation and is in full satisfaction of the requirements of Condition No. 118 of this grant, the permittee may request reimbursement from the Alternative-to-Landfilling Technology Account, created and maintained by the Department of Public Works. Eligible expenditures for reimbursement include design, permitting, environmental document preparation, construction, and inspection that are verified by the Department of Public Works as necessary and directly related to the development of a Conversion Technology Facility (excluding composting facilities) that meets the requirements of Condition No. 118 of this grant. The permittee must provide access to the Department of Public Works and its independent consultant(s) to all areas of the facility during all phases of the development and must respond to information requests, including operating and performance data, from the Department of Public Works in a timely manner. The permittee shall provide tours of the facility to the public at the request of the Department of Public Works. Upon the Effective Date of this grant, the permittee shall submit to the Department of Public Works for review and comment quarterly reports, providing detailed status of the selection of the type of Conversion Technology and progress of the development. Within one year after the Effective Date, the permittee must submit a proposal for the type, location, and preliminary design of the Conversion Technology facility for review and approval by the Department of Public Works in consultation with the Director of Regional Planning. As part of the proposal, the permittee shall submit a detailed project milestone schedule, including at a minimum, a scheduled completion date for permit approvals, financing, 30 percent, 60 percent, and 90 percent design levels, construction completion, start-up, acceptance testing, and beginning of commercial operations. Within six months of receipt of the proposal, the Department of Public Works shall notify the permittee of the findings of its review and determination as to whether a Conversion Technology Facility is or is not anticipated to be successfully developed in accordance with the requirement of this Condition No. 118. When the Conversion Technology Facility is permitted, developed and in operation, the permittee shall submit to the Department of Public Works quarterly informational reports including quantities of feedstock, output materials, output gas, energy, and/or fuel as well as an annual report for review and comment providing detailed status of the operation, permits, and regulatory compliance of the Conversion Technology facility, including quantities and origins of feedstock, quantities of output, design life, and performance efficiency. In the event that a Conversion Technology facility is not anticipated to be successfully developed by the fifth anniversary of the Effective Date, the permittee may submit a request for a one-year time extension to the Department of Public Works, no later than three months prior to the fifth anniversary of the Effective Date. The extension may be granted at the sole discretion of the Department of Public Works, if the permittee demonstrates, to the satisfaction of the Department of Public Works, that it has made good faith efforts towards developing the facility, and shows that circumstances related to the facility's permitting process and other events outside of the permittee's control prevented the facility from being fully permitted and operational. Similarly, a one-year time extension may also be granted up to two additional times, at the request of the permittee. Such additional requests shall each be received no later than three months prior to the anniversary of the Effective Date after the sixth and seventh years. The total duration of the time extension(s) shall not exceed three years.	During the 2023 Reporting Period, CCL did not construct or operate a commercial-scale Conversion Technology facility at the Facility or other location in the County. On July 27, 2018, CCL submitted a Proposal for a Conversion Technology Facility at Chiquita Canyon Landfill to LACPW. On February 8, 2019, CCL submitted a revised Proposal for a Conversion Technology Facility at Chiquita Canyon Landfill to LACPW. On November 7, 2019, LACPW responded to CCL's February 2019 Proposal for a Conversion Technology Facility at Chiquita Canyon Landfill. In this response, LACPW stated their position that while anaerobic digestion (the proposed technology in CCL's proposal) is a type of conversion technology, CCL's CUP "excludes anaerobic digestion from the types of conversion technology that would qualify for the fee reduction described in Condition 118." This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
119	Pursuant to Goal 2.4.2 of the Los Angeles County Countywide Siting Element adopted by the Board in 1997, and the Board's policy adopted on July 27, 1999, to promote the development of alternatives to Landfill and incineration processes, the permittee shall contribute $200,000 annually, not to exceed $3,000,000 for the life of this grant, to an alternative technology development fund, which fund shall be an interest bearing account established and maintained by the Department of Public Works. This fund shall be used to research, promote, and develop the alternative technologies that are most appropriate for Southern California from an environmental and economic perspective. The determination of appropriate alternative technologies as well as the use of the fund shall be made by the Department of Public Works. Within six months after the Effective Date, the permittee shall deposit its first $200,000 payment required by this Condition No. 119, and thereafter annually by March 31.	For the 2023 Reporting Period, LACPW suspended collection of this fee. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
120	By March 31 of each year, the permittee shall pay to the Department of Public Works an annual fee of 50 cents per ton of all Solid Waste disposed at the Landfill during the preceding calendar year. The fee shall be adjusted annually in accordance with the CPI. This annual payment shall be deposited	For the 2023 Reporting Period, LACPW suspended collection of this fee.

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
	into an interest bearing trust fund established to acquire and/or develop natural habitat and parkland in Val Verde, Castaic, and other unincorporated areas of the County surrounding the Landfill. No monies from this trust fund shall be used for projects or programs that benefit areas outside the communities surrounding the Landfill. The Director of Public Works shall administer the trust fund in consultation with the Director of Parks and Recreation, and all monies in the trust fund, including accrued interest, shall be spent for park and recreational purposes.	This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
121	By March 31 of each year, the permittee shall pay to the Department of Public Works an annual fee of 50 cents per ton of all Solid Waste disposed at the Landfill during the preceding calendar year. The fee shall be adjusted annually in accordance with the CPI. This annual payment shall be deposited by the Department of Public Works into an interest bearing trust fund established to provide funding for road improvements in the Val Verde, Castaic, and other unincorporated areas of the County surrounding the Landfill. The Department of Public Works shall administer this trust fund, and all monies in the trust fund, including accrued interest, shall be disbursed by the Department of Public Works.	For the 2023 Reporting Period, LACPW suspended collection of this fee. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.This settlement agreement, once fully implemented, resolves the challenge to this condition.
122	By January 10 of every other year, the permittee shall pay to the Department of Regional Planning a sum of $50,000 for the purpose of financing planning studies, including, but not limited to neighborhood planning studies for Val Verde, Castaic, and the unincorporated Santa Clarita Valley, as determined by the Director of Regional Planning. The fee shall be adjusted annually in accordance with the CPI. The payments shall be held in an interest-bearing account. Payment for the first year is due within 90 days after the Effective Date. Should there be monies remaining in the account, not spent on planning studies or committed to use on such studies within the identified area, such fees will be returned to the permittee at the termination of the permit.	During the 2023 Reporting Period, LACDRP suspended collection of this fee. This condition was challenged in a lawsuit filed by CCL on October 20, 2017 in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
123	By March 31 of each year, the permittee shall pay to the Department of Regional Planning a fee of $1.00 per ton of all Solid Waste disposed at the Landfill during the preceding calendar year. The payment shall be adjusted annually in accordance with the CPI. The payments shall be deposited by the Director of Regional Planning into an interest-bearing community benefit and environmental education trust fund, created and maintained by the Director of Regional Planning. This fund shall be used to fund environmental, educational, and quality of life programs in the Val Verde, Castaic, and other unincorporated areas of the County surrounding the Landfill, and to fund regional public facilities that serve this area. All disbursement of the monies in the fund shall be determined by the Director of Regional Planning.	During the 2023 Reporting Period, LACDRP suspended collection of this fee. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
124	The permittee shall fund 10 collection events per year to be held by the Department of Public Works for the collection of Household Hazardous Waste and Electronic Waste, including discarded computers. The cost of each event shall be $100,000, adjusted annually in accordance with the CPI. The permittee shall make annual payments for these events. The first payment is due within 90 days after the Effective Date, and the subsequent payments are due by March 31 of each year. In lieu of paying for five of the ten collection events per year, the permittee may instead elect the following option: The permittee will fully fund the siting, development, operation, and staffing of a new permanent Santa Clarity Valley Environmental Collection Center at the Facility or other location in the unincorporated areas of the Santa Clarita Valley (substantially similar in design to the Antelope Valley Environmental Collection Center) for the collection of household hazardous/electronic waste. The permittee shall be responsible for building, constructing, and obtaining all necessary permits and approvals required to operate the center. The center, whose design and location must be approved by the Department of Public Works, must be open at least twice a month to all County residents. The operating hours shall be similar to that of the Antelope Valley Environmental Collection Center or as determined by the Department of Public Works. Upon the center's opening, the permittee shall implement an on-going comprehensive promotional campaign to reach all Santa Clarita Valley residents. The campaign must be reviewed and approved by Public Works in consultation with other interested entities. In the event the permittee elects the above option, the permittee shall notify the Department of Public Works of its decision within 90 days of the Effective Date, along with a detailed project timeline (including, but not limited to, estimated project costs, etc.) for review and approval. The Department of Public Works reserves the right to determine whether the permittee has satisfied the requirements for payment deduction and when the deduction will commence, and if necessary, prorate the payments to meet the intent of this Condition No. 124.	On October 26, 2017, CCL requested and was granted an extension of the requirement that CCL notify LACPW regarding its decision to construct and operate a hazardous household waste facility within 90 days of the Effective Date. On January 24, 2018, CCL submitted a letter to LACPW requesting a deferral regarding the decision to construct and operate a hazardous household waste for one year. During the one-year deferral period, CCL would make payments for the collection of Household Hazardous Waste and Electronic Waste to LACPW according to the terms of Condition No. 124. On February 8, 2018, LACPW provided a letter to CCL which allows CCL to defer the decision to construct and operate a new Santa Clarita Valley Environmental Collection Center until December 31, 2018. On November 30, 2018, CCL sent a letter to LACPW, stating their intent to develop a HHWF at CCL. LACPW approved CCL's proposal to develop a HHWF at the facility on January 15, 2019. For the 2020 Reporting Period, CCL made a payment of $1,000,000 to LACPW for collection of Household Hazardous Waste and Electronic Waste. Payment was made under protest in accordance with the requirements of the Mitigation Fee Act. For the 2021 Reporting Period, CCL made a payment of $1,082,403.20 to LACPW for collection of Household Hazardous Waste and Electronic Waste. Payment was received on March 31, 2022 and was made under protest in accordance with the requirements of the Mitigation Fee Act. For the 2022 Reporting Period, CCL made a payment of $1,104,080.80 to LACPW for collection of Household Hazardous Waste and Electronic Waste. Payment was received on March 6, 2023. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. This settlement agreement, once fully implemented, resolves the challenge to this condition.
125	Prior to the Effective Date, the permittee shall: A. Deposit the sum of $20,000 with the Department of Regional Planning. The deposit shall be placed in a performance fund draw-down account, which shall be used exclusively to compensate the Department of Regional Planning for all expenses incurred while inspecting the premises to determine the permittee's compliance with the conditions of this grant, to review and verify any and all information contained in the required reports of this grant, and to undertake any other activity of the Department of Regional Planning to ensure that the conditions of this grant are satisfied, including, but not limited to, carrying out the following activities: enforcement, permitting, inspections (amount charged per each inspection shall be $200, or the current recovery cost, whichever is greater), providing administrative support in the oversight and enforcement of these conditions, performing technical studies, and retaining the services of an independent consultant for any of the aforementioned purposes, or for routine monitoring of any and/or all of the conditions of this grant for a minimum of five years.	On August 9, 2017, CCL made a payment of $20,000 to LADRP according to Condition No. 125 Part A. On August 10, 2017, CCL made a payment of $50,000 to LACPW according to Condition No. 125 Part B. On July 8, 2019, CCL deposited an additional $12,819.66 for Condition No. 125 Part A. On June 25, 2020, CCL deposited an additional $19,108.08 for Condition No. 125 Part A. On February 13, 2021, CCL deposited an additional $28,237 for Condition No. 125 Part A. On November 18, 2021, CCL deposited an additional $18.868 for Condition No. 125 Part A. On March 14, 2023, CCL deposited an additional $21,539.55 for Condition No. 125 Part A.

Table F1. CUP Compliance Status Summary Table
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Condition Number	Condition	Compliance Status
	Inspections shall be conducted biennially (once every other year) to ensure that any development undertaken on the subject property is in accordance with the approved Exhibit "A" on file. If the actual costs incurred pursuant to this Condition No. 125.A have reached 80 percent of the amount of the initial deposit ($16,000), and the permittee has been so notified, the permittee shall deposit supplemental funds to bring the balance up to the amount of the initial deposit ($20,000) within ten business days of such notification. There is no limit to the number of supplemental deposits that may be required during the life of this grant. At the sole discretion of the permittee, the permittee may deposit an initial or supplemental amount that exceeds the minimum amounts required by this Condition No. 125. B. Deposit the sum of $50,000 in an interest-bearing trust fund with the Department of Public Works from which actual costs billed and not honored by the permittee will be deducted for the purpose of defraying the expenses involved in the Department of Public Works' review and verification of any and all information contained in the required reports of this grant and the MMRP, and any other activity of the Department of Public Works to ensure that the conditions of this grant are satisfied, including, but not limited to, carrying out the following activities: enforcement, permitting, inspections, coordination of mitigation monitoring, providing administrative support in the oversight and enforcement of these conditions, performing technical studies, and retaining the services of an independent consultant for any of the aforementioned purposes or for routine monitoring of any and/or all of the conditions of this grant for a minimum of five years. If the costs incurred pursuant to this Condition No. 125.B have reached 80 percent of the amount of the initial deposit ($40,000), and the permittee has been so notified, the permittee shall deposit supplemental funds to bring the balance up to the amount of the initial deposit ($50,000) within ten business days of such notification. There is no limit to the number of supplemental deposits that may be required during the life of this grant. At the sole discretion of the permittee, the permittee may deposit an initial or supplemental amount that exceeds the minimum amounts required by this Condition No. 125. C. The balance remaining, including interest in the draw-down account as described in subsection A above and trust fund as described in subsection B, above, shall be returned to the permittee upon the Director of Public Works' determination that the Landfill is no longer a threat to public health, safety, and the environment.	CCL has a pending application to modify this condition to implement the settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
126	The permittee shall continue working with the waste industry, in concert with cities, the County, and other stakeholders in the industry, to seek amendment of existing laws and regulations to require that compliance with the State's waste reduction mandates be measured by diversion program implementation as opposed to disposal quantity measurement, and to further require the state-mandated Disposal Reporting System to be used solely to identify waste generation and disposal trends, to the extent that this would further the objective of the Project as stated in the EIR of continuing to provide Landfill waste diversion programs that are relied upon by many local cities and communities in achieving State mandates for waste diversion.	During the 2023 Reporting Period, CCL did not pursue amendments to existing laws and regulations regarding the State's waste reduction mandates. This condition was challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022. CCL has a pending application to modify this condition to implement the settlement agreement.
127	The permittee shall post a sign at the entrance gate to the Facility providing the following information: A. The telephone number of the hotline to contact the permittee on a 24-hour basis to register complaints regarding the Facility's operations. All complaints received shall be reported to the Director of Regional Planning, and other agencies, as appropriate, on the same day, but no later than 10:00 a.m. of the following business day. Said telephone number shall be published in the local telephone directory, permittee's website, and local library; B. The telephone number of the DPH and the hours that the DPH office is staffed; and C. The telephone number of SCAQMD's enforcement offices and the hours that the SCAQMD offices are staffed.	The information specified in Condition No. 127 is posted at the entrance gate to the Facility. Complaints received by CCL are reported to the Director of Regional Planning as specified in Condition No. 127.
128	The permittee shall maintain a hotline/emergency log at the Facility which shall record all complaints received regarding Landfill operations. The record of complaints shall include the date and time, nature of complaints, and actions taken to identify and resolve the complaint. The permittee shall at all times, 24 hours a day, seven days a week, provide at least one emergency contact person, with sufficient expertise to assess the need for remedial action to promptly respond to complaints from the surrounding neighborhood regarding dust, litter, odor, air quality, or other operational issues. The permittee shall resolve all complaints to the satisfaction of the Director of Regional Planning. Permittee shall maintain records of this hotline for three years, made available upon request, and submitted as part of the annual report required pursuant to Part XII of the IMP. The records shall include information of all complaints received regarding the Landfill operations, the permittee's follow-up action to the complaints, and their final resolution. Additionally, the permittee shall designate one or more employees to act as an Ombudsman to be available to respond to complaints. The Ombudsman shall respond to complaints received on the hotline required by this Condition No. 128 within three business hours. Permittee shall publish on the Facility website and provide to the CAC and to the TAC on a quarterly basis a written log of all calls to the hotline, including the time of the call, the nature of the complaint, the name and approximate location of complainant, and the resolution of the complaint (including timeframe for same).	CCL maintains a hotline and complaint log at the Facility that records all complaints received. The complaint log for the 2023 Reporting Period is provided in Appendix C and is posted on the CCL website. CCL maintains at least one emergency contact person who is available 24 hours per day, 7 days per week, to address operational issues. CCL also maintains a list of employees to act as an Ombudsman, who are available to respond to complaints. As shown in the complaint log, CCL staff respond to complaints received within three business hours.
129	The permittee shall prepare and distribute to all interested persons and parties, as shown on the interested parties list used by the Department of Regional Planning for this matter, and to any other person requesting to be added to the list, a quarterly newsletter, or electronic/social media, providing the Facility's website and its 24-hour hotline/emergency telephone numbers, and also providing the following information for the quarter: (1) "What is New" at the Facility; (2) the regulatory and permitting activities at the Facility; (3) the hotline/emergency log for the period; and (4) a	During the 2023 Reporting Period, quarterly newsletters were posted on CCL's website and were submitted to the Castaic Library and Stevenson Ranch Library. No significant operational changes occurred at the Facility.

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
	summary of any and all progress reports and/or annual reports required by this grant. The newsletter shall be posted on the Facility's website and distributed to the Castaic Library and other local libraries. In addition, the permittee shall notify the Community Advisory Committee, as described in Part XI of the IMP, the Val Verde Community Advisory Committee, the Castaic Area Town Council Association, and any other interested community groups in the immediate vicinity of the Facility, of any significant operational change at the Facility.	
130	Within 180 days after the Effective Date, the permittee shall update its website to provide general information to the community regarding the Facility's recycling activities/programs, environmental mitigation measures, frequently asked questions, a description of the Facility's operation, which may include video, a complaint resolution mechanism, recent Notices of Violation and how they were resolved, and any other pertinent information requested by the Department of Public Works for the life of this grant.	CCL updates its website regularly, as information required in Condition No. 130 is available.
131	This grant, OTP 2015-00007-(5) shall authorize the removal of four trees (Nos. 1, 2, 3, and 89) of the oak genus (*Quercus agrifolia*) as shown on the site plan (OTP 2015-00007-(5) Exhibit "A").	Noted.
132	This OTP shall not be effective until a site plan (CUP 2004-00042 Exhibit "A") is approved for the construction of the proposed Landfill facilities and associated grading, demonstrating the need to remove the said trees.	CUP 2004-00042 Exhibit A was approved on or before August 21, 2017.
133	The permittee shall provide mitigation trees of the Oak genus at a rate of two-to-one (2:1) for each tree removed for a total of eight mitigation trees.	The MMRP included with CUP 2004-00042 and OTP 2015-00007 includes Mitigation Measure (MM) BR-15, for unavoidable impacts to qualifying oak trees. MM BR-15 requires preparation of an Oak Tree and Woodland Mitigation Plan, to be submitted to LADRP for review and approval prior to any oak removal activities. The requirement of Condition No. 133 is included in the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018, and approved by LADRP on February 7, 2019. CCL removed one oak covered under OTP 2015-00007 in 2019. CCL planted mitigation oak trees in December 2019 according to the approved Oak Tree and Woodland Mitigation Plan. In 2020, CCL removed the three remaining oaks covered under OTP 2015-00007 and monitored planted mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan.
134	The permittee shall plant one healthy acorn of the same species of oak (*Quercus sp*.) as the tree removed for each mitigation tree planted. The acorns shall be planted at the same time as and within the watering zone of each mitigation tree.	The requirement of Condition No. 134 is included in the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018 and approved by LADRP on February 7, 2019. CCL planted mitigation oak trees in December 2019 according to the approved Oak Tree and Woodland Mitigation Plan. In 2020, CCL removed the three remaining oaks covered under OTP 2015-00007 and monitored planted mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan.
135	All replacement trees shall be planted on native undisturbed soil, to the extent feasible, and shall be the same species of oak (*Quercus sp.*) as the removed tree. The location of the replacement tree shall be in the vicinity of other oak trees of the same species. A layer of humus and litter from beneath the canopy of the removed tree shall also be applied to the area beneath the canopies of the replacement trees to further promote the establishment of mycorrhizae within their rooting zones.	The requirement of Condition No. 135 is included in the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018 and approved by LADRP on February 7, 2019. CCL planted mitigation oak trees in December 2019 according to the approved Oak Tree and Woodland Mitigation Plan. In 2020, CCL removed the three remaining oaks covered under OTP 2015-00007 and monitored planted mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan.
136	When replacement trees are planted on disturbed soil or are not in the vicinity of the same species of oak (*Quercus sp.*) as the removed tree, planting shall incorporate a mycorrhizal product, either as amendment or in the first two irrigations or watering of planted trees (i.e., "mycorrhizaROOTS" or similar product) in accordance with the label's directions. A layer of humus and litter from beneath the canopy of the removed tree shall also be applied to the area beneath the canopies of the replacement trees to further promote the establishment of mycorrhizae within their rooting zones.	The requirement of Condition No. 136 is included in the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018 and approved by LADRP on February 7, 2019. CCL planted mitigation oak trees in December 2019 according to the approved Oak Tree and Woodland Mitigation Plan. In 2020, CCL removed the three remaining oaks covered under OTP 2015-00007 and monitored planted mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan.
137	If any oak tree grows into ordinance size during the duration of this permit, removals, encroachments, or any additional impacts shall be inclusive within this permit to ensure proper mitigation. In addition to the work expressly allowed by this permit, remedial pruning intended to ensure the continued health of a protected oak tree or to improve its appearance or structure may be performed. Such pruning shall include the removal of deadwood and stubs and medium pruning of	The requirements of Condition No. 137 are included in the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018, and approved by LADRP on February 7, 2019.

Table F1. CUP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
	branches to two inches in diameter or less in accordance with the guidelines published by the National Arborist Association. Copies of these guidelines are available from the Forestry Division of the County Fire Department. In no case shall more than 20 percent of the tree canopy of any one tree be removed.	
138	Except as otherwise expressly authorized by this grant, any remaining oak trees shall be maintained in accordance with the principles set forth in the publication, "Oak Trees: Care and Maintenance", prepared by the Forestry Division of the County Fire Department. A copy of the publication is enclosed with these conditions.	The publication "Oak Trees: Care and Maintenance" is included as part of the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018 and approved by LADRP on February 7, 2019.
139	The permittee shall comply with all conditions and requirements contained in the County Forester and Fire Warden, Forestry Division, letter dated January 24, 2017 (attached hereto), to the satisfaction of said Division, except as otherwise required by said Division.	The compliance status of conditions and requirements contained in the County Forester and Fire Warden, Forestry Division, letter dated January 24, 2017, is provided in Table F3, Additional Conditions of Approval Compliance Status Summary Table. These conditions and requirements are included as part of the Oak Tree and Woodland Mitigation Plan that was first submitted to LADRP on May 2, 2018 and approved by LADRP on February 7, 2019.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
I	LANDFILL ELEVATIONS. The following measures shall be carried out to monitor compliance with Condition Nos. 12, 26, 29, 38, 51, 53, 54, 55, 56, and 61 of this Grant, which establish the Limits of Fill. A. Before commencing expansion of the Landfill beyond the limits established by Conditional Use Permit No. 89-081, the Permittee shall install survey monuments around the perimeter of the Landfill, as depicted on Exhibit "A" and as established by the limits of Condition No. 29. The specific spacing, location, and characteristics of the survey monuments shall be as specified by the Director of Public Works and shall be at points where they will not be subject to disturbance of Landfill development. The survey monuments shall be inspected and approved by the Director of Public Works after installation, and the "as installed" plan shall be provided to the Director of Public Works. Not less than 60 or more than 90 days before the deadline for the annual monitoring report required by Part XII of this IMP, the Permittee shall cause a licensed surveyor or registered civil engineer to conduct a survey of the Landfill's elevations and submit the results to the Director of Public Works for approval. Additional elevation surveys shall also be conducted by either of these professionals under the following circumstances: 1) in the event of an earthquake of magnitude (Richter) 5.0 or greater in the vicinity of the Facility; 2) as directed by the Director of Public Works as he or she deems necessary to monitor compliance with the conditions of approval of the Grant; or 3) upon completion of the Landfill's final fill design. The Director of Public Works may also conduct or order on-site surveys as he or she deems necessary and shall promptly report any apparent violation revealed by the survey to the Director of the Department of Regional Planning and the DPH. B. If the Director of Public Works approves grading or other disturbance in areas outside the Limits of Fill shown on Exhibit "A" pursuant to Condition No. 51 of the Grant, the Department of Public Works shall provide a copy of such approval to the Director of the Department of Regional Planning.	Part A: Implementation and Monitoring Program (IMP) Part I requires Chiquita Canyon Landfill (CCL) to conduct a survey of the landfill's elevations not less than 60 or more than 90 days before the deadline for the annual monitoring report. With a July 1 deadline, this survey would be required to occur between approximately April 1 and May 1. However, to accommodate a request by the Los Angeles County Department of Public Works (LACPW) that the information resulting from the aerial survey be available for the draft version of the Annual Compliance Report, CCL conducted the aerial survey on January 17, 2024. The 2023 Waste Disposal Plan is provided in Section 2 of this 2023 Annual Compliance Report for Chiquita Canyon Landfill and uses the limits of fill, current elevations, and the height and extent of current fill from the aerial survey conducted January 17, 2024. Part B: Noted. This part and others in this IMP were challenged in a lawsuit filed by CCL on October 20, 2017, in the California Superior Court, Los Angeles County, styled *Chiquita Canyon, LLC v. County of Los Angeles, et al.*, Case No. BS171262. The parties to this lawsuit have reached a settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022.
II	WASTE PLAN CONFORMANCE. The provisions of this Part II are intended to ensure compliance with the provisions of Condition Nos. 23-28, 42-45 of the Grant, and to conform Landfill operations with the Los Angeles County Countywide Integrated Waste Management Plan adopted pursuant to Division 30 of the Public Resources Code. A. The Permittee shall ensure the proper installation and maintenance of scales to verify the weight of Solid Waste received, disposed of, used for Beneficial Use Materials at the Facility, and/or otherwise diverted and sent off-site for further handling and/or processing. The Permittee shall maintain records necessary to document the following: (1) the aforementioned weights and their origin; (2) compliance with waste restrictions imposed pursuant to the conditions of the Grant; and (3) the fees charged for disposal at the Facility. B. All records shall be available for inspection by DPH, the Department of Public Works, the Department of Regional Planning, and the Treasurer and Tax Collector during normal business hours, and shall be forwarded to such agencies upon request.	Part A: CCL has an existing Weights and Measures Device Registration Certificate, which was in effect throughout the 2023 Reporting Period. This certificate is renewed annually. On a quarterly basis, CCL has an independent consultant confirm the accuracy of the scales and make any repairs as necessary. A Los Angeles County weight and measures inspector visits the site annually to verify accuracy. Part B: Noted.
III	DATA COLLECTION AND REPORTING. The provisions of this Part Ill are intended to enhance the continuing oversight of Landfill operations by reporting to the County all materials received, disposed, and beneficially used at the facility per the following. A. **Monthly.** Within 30 days after the end of each calendar month, Permittee shall submit the Monthly Report for that calendar month to the Department of Public Works in a form and manner determined by the Director of Public Works, including the following information: a. The total number of commercial premises, multifamily premises, and residential premises, respectively, at which Permittee provided for regularly scheduled of Household Hazardous Waste collection or other measurement requested by County concerning these items; b. The respective total quantities of: i. Solid waste (in tons), Recyclables (in tons), and any green waste and other compostable organic materials (in tons or, if not weighed at the Solid Waste Facility where it is delivered, in tons); and Beneficial Use material (in tons or measure approved by the Director of the Department of Public Works) received by Permittee; ii. Materials recovered from those Recyclables, abandoned waste (such as Certified Electronic Device (CED) or E-waste) and residual Solid Waste remaining after processing of Recyclables; c. The final destination of that residual Solid Waste; d. Where Permittee delivered those Recyclables; and e. Materials processed at the composting facility.	During the 2023 Reporting Period, monthly reports were submitted to LACPW according to the requirements of IMP Part III.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
	f. The estimated number of holiday trees, and biomass received by Permittee and their final destination; g. Using reasonable business efforts, the estimated number and tons of bulky items, E-waste, and CEDs collected by Permittee (such as major appliances/white goods and metallic discards, used tires and other Solid Waste recovered by Permittee during any annual cleanup campaigns), and final destination thereof; h. The collection route maps and schedule for the entire service area, if any map or schedule has changed during the prior month; i. Any other information compiled from records or formatting of that information requested by the Director of Public Works; j. Number of vehicle loads of all vehicles coming to the facility; and k. Records of material received and processed at the composting facility.	
IV	WASTE ORIGIN DATA ACCURACY. The provisions of this Part IV are intended to ensure compliance with the provisions of Condition No. 23 of the Grant. The Permittee shall adopt measures at the Facility to ensure the accuracy of the Solid Waste quantity allocated to County unincorporated areas and each of the cities from which waste is received. These measures shall also ensure the accuracy of determining the waste attributable to the Santa Clarita Valley Area, each city within Los Angeles County, and sources outside Los Angeles County; for purposes of complying with Condition No. 117 of the Grant. These measures shall become effective upon the Effective Date. Under these measures: A. The Permittee shall require written and verifiable documentation on source jurisdiction(s) and site address(es) where the Solid Waste is generated for loads from waste hauling industry customers ("Direct Haul Loads"), and written and verifiable documentation on source jurisdiction(s) for loads from transfer/processing facilities ("Transfer/Processing Loads"), the documentation of which shall be in a form developed by the Department of Public Works and distributed by the Permittee to its customers; B. The Permittee shall exempt from such documentation all customers tendering a minimum load, defined as a load having a net weight of less than one ton. However, such customers shall be required to verbally state the source of their loads; and the Permittee shall record this information for its records and include in its reports; C. The Permittee shall investigate and verify the accuracy of all documentation provided for Direct Haul Loads; D. The Permittee shall forward all documentation for Transfer/Processing Loads to the Department of Public Works for review and verification; E. The Permittee shall forward all source of origin documentation for Direct Haul Loads from Solid Waste enterprises/waste haulers owned and operated by the Permittee or its subsidiaries to the Department of Public Works for review and verification; F. The Permittee shall impose a fee in an amount to be determined by the Permittee in consultation with the Department of Public Works on Direct Haul Loads and self-haul loads that are tendered at the Facility without the required written documentation. The fee shall be non- refundable and shall offset the Permittee's cost to track non-complying loads and to follow-up with the customers involved; G. If the Director of Public Works determines that a Solid Waste enterprise, waste hauler, and/or Transfer/Processing operator has failed to substantiate the origin of the Solid Waste, the Department of Public Works shall notify and direct the Permittee to impose a non-refundable penalty of $5.00 per ton of waste whose origin the solid waste enterprise, waste hauler, or Transfer/Processing operator has failed to substantiate for that reporting period, which reporting period shall not exceed one month. The Permittee shall be responsible for collecting the fine and submitting it to the Department of Public Works within 60 days following such notification. The fines received by the Department of Public Works shall offset the cost of administering the waste origin verification program and of implementing other programs to mitigate any costs or penalties the County incur under the California Integrated Waste Management Act of 1989, as amended, from such misallocation; H. Unless otherwise approved by the Director of Public Works, the Permittee shall suspend the disposal privileges of customers who fail to provide the written documentation required by this Part IV within 14 calendar days following the tendering of an applicable load at the Facility, or of those customers who provide false, misleading, or inaccurate written documentation. Each suspension shall last up to 60 days; I. The Permittee shall extend the suspension period set forth above and in appropriate circumstances terminate the customer's disposal privileges for Transfer/Processing operators or waste haulers that repeatedly fail to substantiate the origin of their waste loads as required in this Part IV, or who fail to pay the required penalties;	CCL prepared a Waste Origin Reporting and Verification Program, which was submitted to LACPW for review and approval on January 24, 2018. See Appendix L for an Annual Waste Origin Report prepared according to the requirements of Condition No. 108 and IMP Part IV.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
	J. The Permittee shall provide a procedure for its customers to appeal the suspension to the Permittee, the Director of Public Works, or their designees, pursuant to this Part IV and for immediate reinstatement of such privileges if the appeal is successful; and K. If the Permittee or the Director of Public Works determines that the origin of a waste load has been incorrectly reported, the Permittee shall correct the data submitted to the disposal reporting system to ensure its accuracy. Prior to the implementation of the above measures, the Permittee shall, subject to the approval of the Director of Public Works, develop a waste origin verification and reporting program to include, but not be limited to, an outreach program to educate all customers of the Facility regarding the need to provide waste origin information, the requirements of the measures adopted pursuant to this Part IV, and an explanation of the consequences for failure to comply with the measures. After the effective date of the adopted measures, the Permittee shall provide a 90-day grace period to its customers prior to taking any enforcement action to provide time for customer education on these measures. Based on the initial results obtained from the verification and reporting program, these measures may be amended or modified by the Director of Public Works. The Director of Public Works shall have the discretion to terminate the verification and reporting program at any time. Twice monthly, the Permittee shall submit the results of the verification and reporting program to the Director of Public Works, along with any other written documentation on the waste load transactions at the Facility.	
V	HAZARDOUS WASTE EXCLUSION. This Part V ensures compliance with Condition No. 48 of the Grant regarding the exclusion of liquid, radioactive and hazardous waste from the Facility. The Permittee shall maintain a comprehensive waste load checking program which shall require that: A. All waste hauling vehicles shall be screened at the scales with a radiation detector device, acceptable to DPH, for the presence of radioactive materials; B. Sensors capable of detecting volatile organic compounds acceptable to DPH shall be available at the Facility and used as directed by DPH; C. The scale operator shall question all drivers of suspect loads as to the source and nature of the loads, and shall inspect for contamination all large loads of earth brought into the Facility from areas not known to be free of contamination; The Landfill's Working Face areas shall be continuously inspected for hazardous and liquid waste, medical waste, and radioactive waste/materials. This inspection shall be accomplished by equipment operators and spotters who have been trained through an inspection program approved by DPH; D. Unless otherwise specified by DPH or the Department of Public Works, the Permittee shall conduct at least six manual inspections of randomly selected incoming loads each operating day, for a minimum of 36 inspections per week. In addition, the Permittee shall conduct a series of twelve, intensive unannounced manual inspections of loads over a twelve- month period during the life of the Grant; and E. If on the basis of above-described inspections, DPH or the Department of Public Works determines that significant amounts of prohibited waste are entering the Facility, DPH or the Department of Public Works may require an expanded inspection program, which may include additional, unannounced manual inspections.	CCL has a comprehensive Waste Load Checking Program, approved by the Department of Public Health (DPH), to preclude disposal of prohibited waste at the landfill. This Program includes a Waste Screening and Acceptance Program, which is designed to prevent prohibited wastes from being disposed at CCL. CCL conducts at least six manual inspections of randomly selected incoming loads each operating day, for a minimum of 36 inspections per week, plus one intensive, unannounced manual inspection of loads per month. Appendix G contains a summary of load inspection reports for the 2023 Reporting Period.
VI	PROHIBITED MATERIALS. This Part VI ensures compliance with Condition Nos. 48, 49, and 50 of the Grant regarding the prohibited materials at the Facility. The Permittee shall not receive, process, or dispose any of the prohibited waste at the Facility per the followings: A. Automobile shredder waste; B. Biosolid; Sludge or sewage sludge, as specified in the California Code of Regulations, Title 27, Division 2, Chapter 3, Article 1, Section 20690(b)(4), and any amendments thereto; C. Incinerator ash; radioactive material; hazardous waste, as defined in Title 22, Section 66261.3 of the California Code of Regulations; medical waste, as defined in Section 117690 of the California Health & Safety Code; liquid waste, as defined in Title 27, Section 20164 of the California Code of Regulations; and D. Waste that contains soluble pollutants in concentrations that exceed applicable water quality objectives; and waste that can cause degradation of waters in the State, as determined by the RWQCB. The Permittee shall implement a comprehensive Waste Load Checking Program, approved by the Department of Public Works and DPH to preclude receipt or disposal of prohibited waste at the Landfill.	CCL has a comprehensive Waste Load Checking Program, approved by DPH, to preclude disposal of prohibited waste at the landfill. This Program includes a Waste Screening and Acceptance Program, which is designed to prevent prohibited wastes from being disposed at CCL. CCL conducts at least six manual inspections of randomly selected incoming loads each operating day, for a minimum of 36 inspections per week, plus one intensive, unannounced manual inspection of loads per month. Also, CCL submitted the Waste Load Checking Program to Public Works on July 22, 2024, for review and approval.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
VII	INDEMNIFICATION AGREEMENT. Prior to the Effective Date, the Permittee shall enter into an agreement with the County to indemnify the County for any damages to public property which may result from Landfill operations and for any liability, loss, or expense incurred by the county as a result of its issuance of the Grant of the Permittee's violation thereof, or for any expense which may be incurred by the County in performing any on- and/or off-site remedial work necessitated by the Permittee's failure to operate or maintain the Facility at a level acceptable to the Director of Public Works or DPH, or for the Permittee's failure to perform any of this work in a timely manner, including but not limited to, work related to the Environmental Protection and Control Systems, air quality and odor, and litter and dust control, noise control, vector control, and maintenance of slopes. The standards for operation and maintenance shall be as established by the provisions of the Grant and all applicable laws and implementing regulations. To secure performance of the agreement, the Permittee shall tender to the Director of Public Works a letter of credit or other security acceptable to the County in the amount of $10 million. The security shall be in addition to any and all other security required by federal, state and local law, regulations and permits, including the security requirements of the Grant and of the State landfill closure regulations.	The Los Angeles County Board of Supervisors approved the Indemnification Agreement on September 18, 2018.
VIII	BIOLOGICAL/HORTICULTURAL MONITORING. This Part VIII is intended to promote compliance with the provisions of Condition Nos. 61 and 62 of the Grant concerning on-site planting, revegetation, and maintenance. A. On or before the Effective Date of the Grant, the Permittee shall retain a horticulture/forester consultant to supervise the on- and off-site slope planting and oak tree mitigation programs required by the Grant and this IMP. The consultant shall be approved by the County Forester. This consultant shall have the requisite education, training, experience, and professional standing to carry out the specific requirements of the position, as evidenced by appropriate licensing, registration and/or academic standing in the field of horticulture/forestry. In addition to the horticulture/forester consultant, prior to the Effective Date of the Grant, the Permittee shall retain the services of a biology consultant, whose duties shall include: (a) the ongoing review of any updated listings of threatened and endangered species contained in the Federal Register for purposes of determining whether species existing at the Facility have been re-classified with a "Category 1" status; (b) notification of the Department of any change in status of any such species; and (c) participating in the revegetation program adopted for the Landfill. This consultant shall have the requisite education, training, experience and professional standing to carry out the specific requirements of the position, as evidenced by appropriate licensing, registration and/or academic standing in the field of biology. B. If any retained consultant pursuant to this Part VIII terminates employment at any time during the life of the Grant, including during the Post Closure Maintenance Period, a replacement consultant shall be retained and approved as provided in this Part VIII. The Permittee shall create and maintain adequate records to track fill areas in accordance with the California Regional Water Quality Control Board requirements. These records shall indicate fill areas transferred to an inactive status which are potentially subject to the vegetation requirements in Condition Nos. 61 and 62. The Permittee shall make copies of such records available to the horticulture/forester consultant, DPH, the County Forester, and other interested regulatory agencies, when a Landfill area becomes inactive.	On May 13, 2019, CCL notified LADRP that they had retained a consulting arborist for implementation of Oak Tree Permit (OTP) 2015-00007 and submitted qualifications to the Los Angeles County Fire Department, Forestry Division, as directed in the additional conditions of approval related to OTP 2015-00007. CCL has an independent, qualified biologist to satisfy the requirements of IMP Part VIII, including the landscape and revegetation requirements of Conditional Use Permit (CUP) 2004-00042 Condition No. 61. During the 2023 Reporting Period, no fill areas were transferred to an inactive status that would be subject to the vegetation requirements in Condition Nos. 61 and 62.
IX	ARCHEOLOGICAL/PALEONTOLOGICAL MONITORING. The Permittee shall implement the monitoring program described in this Part IX to conserve archaeological and paleontological resources as required by Condition No. 95 of the Grant. A. Before commencing grading activities in previously undisturbed areas, the Permittee shall nominate to the Director of the Department of Regional Planning, both a certified archaeologist and a qualified paleontologist from the Society of Professional Archaeologists which the Permittee intends to retain to perform the monitoring and conservation work required by this Part IX and Condition No. 95 of the Grant. If approved by the Director of the Department of Regional Planning, the archaeologist and paleontologist shall both submit a letter to the Director of the Department of Regional Planning stating that he/she has been retained to perform or supervise the work described herein, and that he/she agrees to report any failure of compliance with the Grant or this Part IX to the Director of Regional Planning. B. The archaeologist and the paleontologist shall each submit a written report to the Permittee to be included in the Permittee's annual monitoring report required by Part XIII of this IMP for as long as on-site excavation activity continues at the Facility. C. If either the archaeologist or paleontologist terminates employment before completion of the excavation work associated with the Facility, a replacement expert shall be selected, approved, retained and certified as described in this Part IX.	CCL has retained a certified archaeologist and a qualified paleontologist to perform the monitoring and conservation work required by Part IX of the IMP and Condition No. 95 of CUP 2004-00042. The certified archaeologist and qualified paleontologist were approved by the Director of the Department of Regional Planning on May 29, 2018. During the 2023 Reporting Period, archaeological and paleontological monitoring was conducted the Cell 8 construction project at CCL. The archaeological and paleontological reports for the 2023 Reporting Period are provided in Appendix D.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
X	ANCILLARY FACILITIES. This Part X is intended to enhance compliance with Condition No. 26 of the Grant concerning the Ancillary Facilities at the Facility, and to verify that such Ancillary Facilities are consistent with the other conditions of the Grant and with the provisions of Title 22 of the Los Angeles County Code ("County Zoning Ordinance"). Before commencing development or obtaining a building permit for any Ancillary Facility, the Permittee shall submit to the Director of the Department of Regional Planning a site plan for such Ancillary Facility. The plan shall be in sufficient detail to establish compliance with the conditions of the Grant and with the standards of the County Zoning Ordinance, including the provisions relating to the development and maintenance of parking, screening and signs, as set forth in Chapter 52 of the County Zoning Ordinance.	Noted.
XI	COMMUNITY ADVISORY COMMITTEE. The Community Advisory Committee ("CAC") shall consist of seven members appointed by the Fifth Supervisorial District and shall be governed by its Bylaws. The CAC shall serve as an advisory body to the Board of Supervisors, Regional Planning Commission, and County Staff on issues relating to the landfill, and as a conduit for the community to communicate with the Commission and other regulatory agencies on an ongoing basis regarding issues involving the development and operation of the Facility. The CAC shall be composed of persons who reside in the Santa Clarita Valley and who are recommended by recognized community and neighborhood associations. In addition, the Fifth Supervisorial District shall also appoint a representative to serve as a coordinator for the CAC. For the life of the Grant, the Permittee shall continue to do the following regarding the CAC: A. Provide qualified personnel to regularly attend CAC meetings; B. Provide the CAC reasonable access to the Facility and information concerning Landfill operations necessary for the CAC to perform its functions; C. Provide accommodations for CAC meetings of Val Verde, Castaic, and other communities surrounding the Landfill. The CAC shall be provided access to all reports submitted by the Permittee to any and all regulatory agencies required under the Grant, including the annual monitoring report required by Part XII of this IMP. The Permittee shall also consult the CAC on planning matters that could affect the physical development, closure date, or future use of the Facility.	The Community Advisory Committee (CAC) was established by Los Angeles County in 2019. An orientation meeting was held with newly identified CAC members on August 7, 2019. CAC meetings are typically held at least quarterly, and CCL provides qualified personnel to regularly attend meetings. During the 2023 Reporting Period, in-person CAC meetings were held on January 10, April 11, August 15, September 12, October 10, November 14, and December 12. A virtual option was provided beginning with the November 14th meeting. CCL will provide reports submitted to regulatory agencies under CUP 2004-00042, including this Annual Compliance Report, to LADRP, who will distribute such reports to members of the CAC.
XII	ANNUAL MONITORING REPORTS. This Part XII is intended to enhance the continuing oversight of Landfill operations and to supplement the routine enforcement activities of the various regulatory agencies having jurisdiction over the development, operation, and maintenance of the Facility. A. By March 1 of each year until the Landfill's Closure, the Permittee shall prepare and submit annual monitoring reports to the Commission and Technical Advisory Committee (which is described in Part XIV of this IMP), and to the CAC. At least 90 days prior to that date, draft copies of the report shall be submitted to the following entities for review and comment: 1. DPH; 2. Director of the Department of Regional Planning; 3. Director of Public Works; 4. Los Angeles County Forester and Fire Warden; 5. Regional Water Quality Control Board-Los Angeles Region; 6. South Coast Air Quality Management District; 7. County Museum of Natural History; and 8. Community Advisory Committee; The draft submittal to the above-referenced entities shall include a request that comments be sent to the Permittee within 30 days of receipt of the draft report, but no later than 30 days prior to the deadline for the final report. The Permittee shall provide documentation and certification to the Director of the Department of Regional Planning that the draft reports have been submitted to these entities and the agencies comments and proposal revisions have been fully incorporated in to the final report. The Permittee shall respond to each comment received by these entities and shall include every comment and response with the final report submitted to the Commission, the Technical Advisory Committee and the CAC. A copy of the final report shall be provided to the local county library and posted on the Permittee's website. Upon receipt of the monitoring report, the Commission and Technical Advisory Committee may request the Permittee to submit additional information as it deems necessary to carry out the purposes of this IMP. B. Each monitoring report shall contain, at a minimum, the following:	This 2022 Annual Compliance Report for CCL has been prepared consistent with CUP No. 2004-00042, Condition No. 18, and IMP Part XII. Condition No. 18 requires CCL to “submit annual mitigation monitoring reports to the Department of Regional Planning for approval” as a means of ensuring the effectiveness of the mitigation measures and IMP measures. Condition No. 18 specifies that the report is due on July 1 of each year, with a draft due no later than March 30. IMP Part XII requires CCL to “prepare and submit annual monitoring reports to the Commission and Technical Advisory Committee and to the CAC” by March 1 of each year, with a draft due at last 90 days prior to that date. Because of the inconsistencies presented by the requirements of Condition No. 18 and IMP Part XII, on October 25, 2017, Los Angeles County directed CCL to prepare a single combined annual compliance report that would address the compliance status of the CUP, IMP, and MMRP. The draft report is due on March 30 of each year, with a final report due on July 1 of each year. The enclosed report includes the information required by IMP Part XII, including summary tables showing the status of compliance of each condition of the CUP, IMP, additional conditions of approval, and MMRP. This 2023 Annual Compliance Report addresses the period from January 1, 2023 through December 31, 2023.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
	1. A cumulative total of all Solid Waste disposed of, and Beneficial Use Materials received at the Landfill, the percent of total available capacity used, the remaining disposal capacity in volume and in tons, and a detailed site map/plan showing the sequence of Landfill operations; 2. A copy (which may be reduced and simplified to fit the report format) of the most recent approved Landfill survey (as required in Part I of this IMP) showing the Limits of the Fill, current elevations, and the height and extent of the current fill; 3. The achieved ratio of weight to volume of Solid Waste disposed of at the Landfill and a comparison of that ratio with the ratio achieved at comparable landfills in the County, with an explanation of any significant deviation; 4. A summary table of the rates (quantity per month and per calendar year) of materials received, disposed of, used for Beneficial Use Materials at the Facility, and/or otherwise diverted and/or sent off-site for further handling/processing, for the period established by the Director of Public Works, or from the last monitoring report, in sufficient detail to explain significant changes and variations of the rates over time; 5. A summary of the measures taken by the Permittee to divert and recycle materials at the Facility, how the measures compare with waste management plans adopted by the County and various cities, and the overall effectiveness of such measures in achieving the intent of the Grant and the County's waste management plans; 6. A summary of the number and character of litter, noise, fugitive dust, and odor complaints received in the reporting period, the disposition of such complaints, and any new or additional measures taken to address or avoid future complaints; 7. A detailed accounting of any and all citations, notices of violation, or equivalent the Facility received from any regulatory agency for violations in operating the Facility (including violations related to litter, odor, fugitive dust, noise, Landfill gas, or other Environmental Protection and Control Systems), the disposition of the citations, and the penalties assessed and fees paid; 8. A report on all interim and final fill revegetation, including an assessment of the success of such revegetation and any additional measures necessary or proposed to effect successful revegetation; 9. The archaeological and paleontological reports required in Part XII; 10. A summary of the measures taken by the Permittee to promote and implement alternative technologies most appropriate for Southern California from an environmental and economic perspective, as required by Condition No. 119 and 126 of the Grant; A summary of the measures taken by the Permittee to maintain roads and to develop transportation improvements in the surrounding areas of the Facility, as required by Condition No. 79 and 121 of the Grant; 11. A summary of the measures taken by the Permittee to minimize truck traffic at the Facility as required by Condition Nos. 47, 75-81 of the Grant; 12. A summary of the measures taken by the Permittee to control and mitigate odor nuisance generated by the Facility, including measures taken to mitigate odor generated from incoming waste hauling trucks/customers, working face areas, and landfill gas; 13. A summary of the measures taken by the Permittee to ensure effectiveness and adequacy of its landfill gas collection and management system, and to utilize Landfill gas to generate energy at the Facility as required by Condition No. 64 of the Grant; and 14. A summary table of compliance status showing the status of compliance of each condition of approval, this IMP and MMRP. The table shall be in a format specified by the Director of Public Works in consultation with the TAC. C. Nothing in this Part XII shall be construed in any way to limit the authority of a Hearing Officer, the Commission, or the Board to initiate any proceeding to revoke or modify the Grant as provided in Condition No. 20 of the Grant or under Part 13, Chapter 56, of the County Zoning Ordinance.	
XIII	<u>COMPENSATION.</u> The Permittee shall compensate all involved County departments for the expenses incurred in the administration of the Grant, including the administration of this IMP and the MMRP in the project's supporting environmental documentation, not otherwise covered by the fees paid for administration of the SWFP for the Facility. Such compensation shall be computed using the actual hours expended multiplied by the most current applicable hourly rates available at the time that the expenses are incurred, as approved by the County Auditor-Controller, including costs of personnel, equipment, and transportation costs.	Noted.

Table F2. IMP Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

IMP Part Number	Condition	Compliance Status
XIV	TECHNICAL ADVISORY COMMITTEE ("TAC"). A committee of County departments, chaired by the Director of the Department of Regional Planning or his/her designee, shall be established for the purpose of reviewing, coordinating, and certifying the satisfactory implementation and/or completion of the plans, permits, and/or agreements required and/or authorized by the Grant, including the implementation and/or completion of the Conditions of Approval, this IMP, and the MMRP. A. Composition. The TAC shall be composed of representative(s) of the following County departments, and other County departments on an as-needed basis as determined by the Director of Regional Planning: 1. Department of Health; 2. Department of Regional Planning; 3. Department of Public Works; and 4. The Forester and Fire Warden. B. Meeting/Purposes. The TAC shall meet at least twice a year to ensure the purposes of the conditions of the Grant are satisfied and to ensure compliance with the approvals and regulations of State and Federal agencies that regulate and permit the Facility. TAC's meetings shall be open to members of the CAC, and reports to the TAC shall also be made available to the CAC. One of TAC's annual meetings shall be conducted to review the annual report submitted by the Permittee as required by Part XII of this IMP and to certify that all requirements of the conditions of the Grant have been met as reflected in the annual report. The TAC shall review specific requests from the CAC regarding compliance with the Grant. In addition to any other TAC requirement of this Part XIV, the TAC shall determine compliance with the Grant: 1) within six months after the Effective Date; 2) prior to the Permittee's development of the Household Hazardous Waste Collection Facility, Conversion Technology, and Composting Facility Project (excluding final approval of plans, permits and agreements); and/or 3) prior to the Permittee's commencement of the Closure process. The TAC shall meet for this purpose and if all of the conditions and requirements of the Grant have been met for purposes of commencing any of these phases of the project, the TAC shall certify compliance. C. Access to the Facility and Information. The Permittee shall provide access to the TAC and its independent consultant(s) to all areas of the Facility during normal hours of operation and shall respond to all information requests from the TAC and its independent Consultant(s) in a timely manner as specified by the TAC regarding compliance with the conditions of the Grant and the MMRP. D. The Permittee may appeal an adverse determination of the TAC to the Director of the Department of Regional Planning, whose decision shall be final. E. Upon the effective date of the Grant, the Director of the Department of Regional Planning or the Director of Public Works, in consultation with the TAC shall retain the services of an independent engineering consultant to monitor any and/or all of the Conditions of approval and mitigation measures throughout the life of the Grant. The Permittee shall pay all costs for the independent consultant within 30 days of receiving the invoice for the consultant's services. The independent consultant shall perform inspections of all activities at the Facility in accordance with the conditions of approval, at least once a month, and at other frequency deemed necessary by the Director of Public Works to perform monitoring, evaluation, and other tasks necessary to implement the requirements of the conditions of approval of the Grant. The independent consultant shall prepare and submit its quarterly report to the Director of Public Works with copies to the TAC, the CAC and other interested community representatives or groups. The Director of Public Works shall review the report and make recommendations to the Department for necessary enforcement actions in accordance with Condition No. 20 of the Grant.	During the 2023 Reporting Period, the TAC met on June 29, 2023 and October 24, 2023. The 2022 CCL Annual Compliance Report was certified during the June 29, 2023 TAC meeting. On January 29, 2019, the Los Angeles County Board of Supervisors approved a contract for an independent consultant to provide monitoring services at the landfill, pursuant to Part XIV.E of the IMP. CCL has paid the required cost of this independent consultant in accordance with the requirement.
XV	In accordance with Condition No. 37 of the Conditional Use Permit, not less than one year before the 5th anniversary of the effective date of this grant, the Permittee shall initiate a Periodic Review with the Department. Additional Periodic Reviews shall be initiated by the Permittee not less than one year before the 10th\ 15th\ 20th, and 25th anniversaries of the effective date of this grant. Additional Periodic Reviews may also be required at the discretion of the Director of Regional Planning. The purpose of the Periodic Reviews is to consider new or changed circumstances, such as physical development near the Project Site, improved technological innovations in environmental protection and control systems, and other best management practices that might significantly improve the operations of the Facility, and to determine if any changes to the facility operations and IMP are warranted based on the changed circumstances. To initiate the Periodic Review, the Permittee shall submit for review a permit requirement compliance study which details the status of the Permittee's compliance with the conditions of approval of this grant. Additionally, an updated Closure Plan and Post-Closure Maintenance Plan shall be submitted to the Department and the TAC for review at this time, as well as the comprehensive waste disposal study referred to in Condition No. 106 of the Conditional Use Permit, and any other information that is deemed necessary by the Department to ensure that the landfill operations are operating as efficiently and	Periodic Review Compliance Study No. 1 was submitted to LACDRP in July 2021.

IMP Part Number	Condition	Compliance Status
	effectively as possible and that any potential adverse impacts are minimized, and that the Facility is not causing adverse impacts or nuisance in the surrounding communities. The cost of the Periodic Reviews shall be borne by the Permittee and is to be paid through the draw-down account referred to in Condition No. 125. For each Periodic Review, a report based on the latest information shall be made to the Hearing Officer by Department staff at a public hearing pursuant to Part 4 of Chapter 22.60 of the County Code. Each report shall include a review of the performance of the landfill and recommendations for any actions to be taken if found necessary. Such actions may include changes or modifications to the IMP, including any measures necessary to ensure that the landfill will continue to operate in a safe and effective manner and the landfill closure will be accomplished timely and effectively. The decision of the Hearing Officer on the Periodic Review may be appealed to the Regional Planning Commission. The decision of the Regional Planning Commission shall be final.	
XVI	LITTER CONTROL AND RECOVERY. This Part XVI is intended to enhance the Condition No. 82 of this Grant which required the Permittee to adopt a program that uses the most effective methods and technology to prevent waste that has entered an area under the Permittee's control from escaping the area in the form of litter. In addition to the following requirements, the program shall also include the requirements as specified under Condition No. 82, unless the DPH requires otherwise: a. At every active Working Face area, the Permittee shall install a primary portable litter fence of adequate height to control litter, and also a secondary fence 4 feet in height behind the primary fence when wind conditions dictate the need for a secondary fence. The Permittee shall employ Best Management Practices to control litter. On windy days, and when the fences are not sufficient, the Working Face shall be located within areas of minimal wind exposure or shall be closed, if so required by the DPH. The DPH, in coordination with the Department of Public Works, may require additional measures deemed necessary to effectively control litter, including, but not limited, requiring the Permittee to cease accepting all incoming waste during high wind conditions; and b. The landfill operator shall install and maintain temporary litter fences in those areas along the property perimeter that are regularly littered due to the location of the operating area, time of year, and climatic conditions. The landfill operator, the DPH and the CAC shall work together to identify littered areas in need of fencing.	CCL has implemented a Vehicle Tarping, Litter Control, and Litter Recovery Program, which was approved by LACPW on January 29, 2018.

Table F3. Additional Conditions of Approval Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
	County of Los Angeles Fire Department, Forestry Division, Letter Dated January 24, 2017	
1	This grant shall not be effective until the permittee and the owner of the property involved (if other than the permittee), have filed at the office of the Department of Regional Planning their affidavit stating that they are aware of and agree to accept all conditions of this grant. Unless otherwise apparent from the context, the term "permittee" shall Include the applicant and any other person, corporation or other entity making use of this grant.	On July 28, 2017, Chiquita Canyon Landfill (CCL) recorded the County's affidavit of acceptance with inserted text expressly reserving its rights to challenge the conditions in the Conditional Use Permit (CUP) and filed the recorded affidavit with the Los Angeles County Department of Regional Planning (LADRP) on August 1, 2017. On August 1, 2017, LADRP stated in an email that the language added to the affidavit purportedly invalidated it. LADRP stated that the affidavit "will need to be re-recorded with the affidavit form that we sent you, without the alterations." County staff subsequently directed CCL to record the affidavit without alterations and to set forth its reservation of rights in a separate letter. On August 3, 2017, CCL recorded an amended affidavit as directed by LADRP. On August 4, 2017, CCL filed the amended affidavit to LADRP, noting that the amended affidavit was recorded as directed by LADRP and that Chiquita Canyon would document its continued protest and reservations in a separate letter. On August 23, 2017, CCL provided a written confirmation of its reservation of rights to LADRP. On August 24, 2017, CCL sent a letter to LADRP confirming the July 28, 2017, effective date, after the County had determined that this should be used as the effective date of the permit.
2	The permittee shall, prior to commencement of the use authorized by this grant, deposit with the County of Los Angeles Fire Department a sum of $300. Such fees shall be used to compensate the County Forester $100 per inspection to cover expenses incurred while inspecting the project to determine the permittee's compliance with the conditions of approval. The above fees provide for one (1) initial inspection prior to the commencement of construction and two (2) subsequent inspections until the conditions of approval have been met. The Director of Regional Planning and the County Forester shall retain the right to make regular and unannounced site inspections.	During the 2020 Reporting Period, CCL removed the remaining three qualifying oaks authorized by Oak Tree Permit (OTP) No. 2015-0007 and monitoring the onsite mitigation oaks that were planted in December 2019. CCL deposited the sum of $300 with the County of Los Angeles Fire Department prior to commencing activity under OTP 2015-00007. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks under the direction of a qualified arborist as specified in the Oak Tree and Woodland Mitigation Plan.
3	Before commencing work authorized or required by this grant, the consulting arborist shall submit a letter to the Director of Regional Planning and the County of Los Angeles Fire Department's Forestry Division stating that he or she has been retained by the permittee to perform or supervise the work, and that he or she agrees to report to the Director of Regional Planning and the County Forester, any failure to fully comply with the conditions of the grant. The arborist shall also submit a written report on permit compliance upon completion of the work required by this grant. The report shall include a diagram showing the exact number and location of all mitigation trees planted as well as planting dates.	On May 13, 2019, CCL notified LADRP that they had retained a consulting arborist for implementation of OTP 2015-00007 and submitted qualifications to the Los Angeles County Fire Department, Forestry Division. This requirement was included in the Oak Tree and Woodland Mitigation Plan submitted to Los Angeles Department of Regional Planning (LADRP) and approved by LADRP on February 7, 2019 and implemented beginning in 2019.
4	The permittee shall arrange for the consulting arborist or a similarly qualified person to maintain all remaining Oak trees on the subject property that are within the zone of impact as determined by the County Forester for the life of the Oak Tree Permit or the Conditional Use Permit.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
5	The permittee shall install temporary chain-link fencing, not less than four (4) feet in height, to secure the protected zone of all remaining Oak trees on site as necessary. The fencing shall be installed prior to grading or tree removal, and shall not be removed without approval of the County Forester. The term "protected zone" refers to the area extending five (5) feet beyond the dripline of the Oak tree (before pruning), or fifteen (15) feet from the trunk, whichever is greater.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019. There are no remaining qualifying oak trees on site requiring protection.
6	Copies of the Oak Tree Report, Oak tree map, mitigation planting plan and conditions of approval shall be kept on the project site and available for review. All individuals associated with the project as it relates to the Oak resource shall be familiar with the Oak Tree Report, Oak tree map, mitigation planting plan and conditions of approval.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
7	This grant allows the removal of four trees the Oak genus, three (3) (*Quercus agrifolia*) and one (1) *Quercus lobata* identified as Tree Number 1, 2, 3, and 89 on the applicant's site plan and Oak Tree Report. Trenching, excavation, or clearance of vegetation within the protected zone of an Oak tree shall be accomplished by the use of hand tools or small hand-held power tools. Any major roots encountered shall be conserved and treated as recommended by the consulting arborist.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
8	In addition to the work expressly allowed by this permit, remedial pruning intended to ensure the continued health of a protected Oak tree or lo improve its appearance or structure may be performed. Such pruning shall include the removal of deadwood and stubs and medium pruning of branches two-inches in diameter or Jess in accordance with the guidelines published by the National Arborist Association. Copies of these guidelines are available from the County of Los Angeles Fire Department, Forestry Division. In no case shall more than 20% of the tree canopy of any one tree be removed.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
9	Except as otherwise expressly authorized by this grant, the remaining Oak trees shall be maintained in accordance with the principles set forth in the publication, "Oak Trees: Care and Maintenance," prepared by the County of Los Angeles Fire Department, Forestry Division. A copy of the publication is enclosed with these conditions.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.

Table F3. Additional Conditions of Approval Compliance Status Summary Table

2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
10	The permittee shall provide mitigation trees of the Oak genus at a rate of two to one (2:1) for each tree removed, Six (6) *Quercus agrifolia*, and two (2) *Quercus lobata*, for a total of eight (8) mitigation trees.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019. In consultation with the County Forester, CCL removed one of four qualifying oaks covered by OTP 2015-00007 in 2019 but planted all mitigation trees associated with the OTP. In 2020, CCL removed the remaining three qualifying oaks covered by OTP 2015-00007 and monitored oak mitigation trees planted in 2019. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan.
11	Each mitigation tree shall be at least a 15-gallon specimen in size and measure one (1) inch or more in diameter one (1) foot above the base. Free form trees with multiple stems are permissible provided the combined diameter of the two (2) largest stems of such trees measure a minimum of one (1) inch in diameter one (1) foot above the base.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019. Prior to planting of mitigation trees in 2019, CCL consulted with the County Forester and County Biologist and received approval to plant specimens smaller than 15-gallon as a result of oak tree availability in Los Angeles County.
12	Mitigation trees shall consist of indigenous varieties of *Quercus agrifolia* and *Quercus lobata*, grown from a local seed source.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019. CCL consulted with the County Forester and County Biologist to identify local sources for selecting mitigation trees.
13	Mitigation trees shall be planted within one (1) year of the permitted Oak tree removals. Mitigation trees shall be planted either on site or at an off-site location approved by the County Forester. Alternatively, a contribution to the County of Los Angeles Oak Forest Special Fund may be made in the amount equivalent to the Oak resource loss. The contribution shall be calculated by the consulting arborist and approved by the County Forester according to the most current edition of the International Society of Arboriculture's "Guide for Plant Appraisal."	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019. In consultation with the County Forester, CCL removed one of four qualifying oaks covered by OTP 2015-00007 in 2019 but planted all mitigation trees associated with the OTP. In 2020, CCL removed the remaining three qualifying oaks covered by OTP 2015-00007 and monitored oak mitigation trees planted in 2019. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks as specified in the Oak Tree and Woodland Mitigation Plan.
14	The permittee shall properly maintain each mitigation tree and shall replace any tree failing to survive due to a lack of proper care and maintenance with a tree meeting the specifications set forth above. The two-year maintenance period will begin upon receipt of a letter from the permittee or consulting arborist to the Director of Regional Planning and the County Forester, indicating that the mitigation trees have been planted. The maintenance period of the trees failing to survive two (2) years will start anew with the new replacement trees. Subsequently, additional monitoring fees shall be required.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019. CCL submitted a Mitigation Oak Tree Planting Report to LADRP and the County Forester in March 2019, confirming the start of the maintenance period.
15	All mitigation Oak trees planted as a condition of this permit shall be protected in perpetuity by the Los Angeles County Oak Tree Ordinance once they have survived the required maintenance period.	This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
16	Encroachment within the protected zone of any additional tree of the Oak genus on the project site is prohibited.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
17	Should encroachment within the protected zone of any additional tree of the Oak genus on the project site not permitted by this grant result in its injury or death within two (2) years, the permittee shall be required to make a contribution to the Los Angeles County Oak Forest Special Fund in the amount equivalent to the Oak resource damage/loss. Said contribution shall be calculated by the consulting arborist and approved by the County Forester according to the most current edition of the International Society of Arboriculture's "Guide for Plant Appraisal."	CCL will comply with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019. There are no qualifying oaks at CCL that are not included in OTP 2015-00007.
18	No planting or irrigation system shall be installed within the dripline of any Oak tree that will be retained.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
19	Utility trenches shall not be routed within the protected zone of an Oak tree unless the serving utility requires such locations.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
20	Equipment, materials and vehicles shall not be stored, parked, or operated within the protected zone of any Oak tree. No temporary structures shall be placed within the protected zone of any Oak tree.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.

Table F3. Additional Conditions of Approval Compliance Status Summary Table
2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
21	Violations of the conditions of this grant shall result in immediate work stoppage or in a notice of correction depending on the nature of the violation. A time frame within which deficiencies must be corrected will be indicated on the notice of correction.	CCL is in compliance with this requirement, in conjunction with OTP No. 2015-00007. This requirement was included in the Oak Tree and Woodland Mitigation Plan approved by LADRP on February 7, 2019 and implemented beginning in 2019.
22	Should any future inspection disclose that the subject property is being used in violation of any one of the conditions of this grant, the permittee shall be held financially responsible and shall reimburse the County of Los Angeles Fire Department, Forestry Division, for all enforcement efforts necessary to bring the subject property into compliance.	Noted.
	Department of Public Health, Environmental Health Division, Letter Dated February 23, 2017	
1	**The Drinking Water Program recommends approval of this CUP upon the satisfaction of conditions contained herein at the Building Permit stage:** The Drinking Water Program has reviewed the additional information, responses and Water Supply Assessments (WSA) regarding the Chiquita Canyon Landfill Expansion. The WSA addresses the non-potable water supply increase in demand. It does not address the potable water supply demand for the project. Uniform Plumbing Code and State Water Codes specify potable water requirements for the drinking and sanitary facilities on the site. The WSA addresses the 150 AFY of non-potable water necessary for the expansion where 93 AFY is currently utilized. The WSA does not include potable water in its assessment but identifies that 100 GPD of potable water is utilized and fulfilled by supplying bottled water. • As the WSA addresses the non-potable water demand only, please identify an approved safe and reliable source of potable water for the project. Bottled water does meet the demands and practicalities required by the sanitary infrastructure and the minimum safe drinking water standards for the project. • Section 3363 Chapter 4 California Code of Regulations does not list bottled water as potable water. Section (a) states: "Potable water in adequate supply shall be provided in all places of employment for drinking and washing, and where required by the employer of these orders, for bathing, cooking, washing of food, washing of cooking and eating utensils, and washing of food preparation or processing premises, and personal service rooms," *Et. al.* • The current description and information presented to this program regarding employee numbers is in excess of 25 persons. This requires the delivery of safe and reliable drinking water from an approved water system that is permitted, regulated and monitored per the California Safe Drinking Water Act for the users of the site. Please note that the reference of the Safe Drinking Water Act does not infer formation of a public water system. • Please note this department's response is solely focused on the potable source(s) of water.	Noted.
2	**If there is an intent is to acquire a potable water service connection from the Valencia Water Company:** • Provide a signed contract, proof of entitlement or will serve letter from the Valencia Water Company that guarantees an uninterruptable potable supply of water. If this is attainable, no further requirements are needed.	CCL received a water availability letter (will serve letter) from the Santa Clarita Valley Water Agency (Agency) on February 4, 2019. The agreement between CCL and the Agency is for "safe and reliable water service to the new gate facilities." On February 10, 2020, CCL and the Santa Clarita Valley Water Agency (SCVWA) finalized a Master Agreement for Developer-Constructed Improvements. This agreement is for the SCVWA to provide an uninterruptable potable supply of water to the site. The water connection will be made at the time the new entrance facilities are constructed. CCL has provided a copy of the will-serve letter and Master Agreement to the Department of Public Health, Environmental Health Division.
3	**The current information provided within the WSA denotes that non-potable water is currently provided by Newhall Land and Farming Company (NLFC) irrigation well. The following only pertains if this well is to be, or can be utilized, for potable purposes. If such a potable option is attainable through the use of the existing NLFC well, it would therefore be subject to the California State Well Standards regarding construction conformance for potable water uses and its relation to the California Safe Drinking Water Act. The following 3 bullet points will be required if this is a solution but It is recognized from the review of information, that this is an unlikely option.** • Provide the construction details of the well(s) in addition to the California State Well Drillers Completion Report(s) for each well. Each well(s) shall be in conformance to the California State Well Standards. • Denote well locations and distribution/plumbing system layout in a scaled map that exhibits well locations, valves, taps, pumps, booster pumps, pressure gauging, backflow valving, reservoirs, building connections, dust control irrigation, vegetation irrigation and treatment-disinfection facilities where applicable. Also provide material detail or schedule for the above-mentioned system components. • Provide information or analysis of the California State Title 22 Code of Regulation regarding Primary and Secondary Drinking Water Quality Standards.	Noted.

Table F3. Additional Conditions of Approval Compliance Status Summary Table
2023 Annual Compliance Report for Chiquita Canyon Landfill

Condition Number	Condition	Compliance Status
4	**For either option (above), an accurate assessment regarding potable water demand will need to be identified. Provide the following:** • Employee, consultant, visitor, customer, contractor, or user of the facility population numbers. • The number of buildings that require water service for both sanitary and potable purposes. • Information as to the acquisition of a safe, reliable, regulated and monitored source of water for the sanitary and potable facilities utilized by the transient and non-transient users of the site. This includes visitors, employees, and contractors. The use of the term transient and non-transient does not necessarily denote a requirement to form a public water system.	The requested information was provided to Valencia Water Company in support of a will serve letter for potable water.
5	**The Land Use program recommends approval of the CUP with the conditions stated below:** The Land Use program is issuing a conceptual approval for the installation of a future OWTS based on the feasibility report submitted by the applicant. This conceptual approval is subjected to the required approval from the Los Angeles Regional Water Quality Control Board prior to this program issuing an approval for the installation of the OWTS at Building Permit phase. Further review will need to be conducted as to size, capacity, etc. when the final design is submitted to this program.	Noted.
6	**The Toxics Epidemiology Program recommends approval of this CUP with the following recommendations and requirements:** Regarding fugitive dust emissions it is recommended that during the operational phase of the project, dust suppression engineering techniques be applied in order to minimize temporary increase in dust air emissions. Fugitive dust can result in public exposure to fungal spores such as Coccidioides immitis, which can cause Coccidiodidomycosis (Valley Fever). Additional odor mitigation measures should be investigated. Public Health classifies odor complaints as having significant negative health impacts on the public, that is to say that odor is more than a nuisance.	Mitigation measures and best management practices to limit dust and odor are included in the following Plans or Programs: • CCL Vehicle Tarping, Litter Control, and Litter Recovery Program, submitted August 24, 2017 and approved by the Los Angeles County Public Works (LACPW) • CCL Track-Out Prevention and Minimization Plan, submitted October 12, 2017 and approved by LACPW • CCL Odor Impact Minimization Plan, submitted on October 25, 2017, resubmitted on February 1, 2019, and approved by LACPW on March 6, 2016 • CCL Fugitive Dust Control Program, submitted January 24, 2018 and again August 15, 2019 and approved by LACPW on April 14, 2021
Los Angeles County Fire Department, Fire Prevention Division, Letter Dated February 24, 2017		
1	Fire Apparatus Access Road must be installed and maintained in a serviceable manner prior to and during the time of construction. Fire Code 501.4	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
2	All fire lanes shall be clear of all encroachments, and shall be maintained in accordance with the Title 32, County of Los Angeles Fire Code.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
3	The Fire Apparatus Access Roads and designated fire lanes shall be measured from flow line to flow line.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
4	In the locations noted on the site plan, provide a minimum unobstructed width of 20 feet, exclusive of shoulders and an unobstructed vertical clearance "clear to sky" Fire Apparatus Access Roads Fire Code 503.1.1 & 503.2.1	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
5	Provide a minimum unobstructed width of 26 feet, exclusive of shoulders and an unobstructed vertical clearance "clear to sky" Fire Apparatus Access Road to within 150 feet of all portions of the exterior walls of the first story of the building, as measured by an approved route around the exterior of the building. Fire Code 503.1.1 & 503.2.2	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
6	The dimensions of the approved Fire Apparatus Access Roads shall be maintained as originally approved by the fire code official. Fire Code 503.2.2.1	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
7	Dead-end Fire Apparatus Access Roads in excess of 150 feet in length shall be provided with an approved Fire Department turnaround. Fire Code 503.2.5	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
8	Fire Apparatus Access Roads shall be provided with a 32 foot centerline turning radius. Fire Code 503.2.4	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
9	A minimum 5 foot wide approved firefighter access walkway leading from the fire department access road to all required openings in the building's exterior walls shall be provided for firefighting and rescue purposes. Fire Code 504.1	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
10	Approved building address numbers, building numbers or approved building identification shall be provided and maintained so as to be plainly visible and legible from the street fronting the property. The numbers shall contrast with their background, be Arabic numerals or alphabet letters, and be a minimum of 4 inches high with a minimum stroke width of 0.5 inch. Fire Code 505.1	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.

Table F3. Additional Conditions of Approval Compliance Status Summary Table

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Condition Number	Condition	Compliance Status
11	Gate Requirements: Provide gate access as noted on the February 24, 2017 "Fire Apparatus Access Plan". a. When security gates are provided, maintain a minimum access width of the access road. The security gate shall be provided with an approved means of emergency operation, and shall be maintained operational at all times and replaced or repaired when defective. Electric gate operators, where provided, shall be listed in accordance with UL 325. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F220. Gates shall be of the swinging or sliding type. Construction of gates shall be of materials that allow manual operation by one person. Fire Code 503.6 b. All locking devices shall comply with the County of Los Angeles Fire Department Regulation 5, Compliance for Installation of Emergency Access Devices.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
12	The closest public water system exceeds 2000 feet from the project site. In lieu of a public water system, a water tank is allowed to provide water for fire protection. The size of the water tank and the location of the on-site fire hydrants will be determined during the building plan check process.	Noted. Because CCL is required to obtain an uninterruptable supply of potable water from Valencia Water Company for the project, the project will connect to a public water system.
13	All fire hydrants shall measure 6"x 4"x 2-1/2" brass or bronze, conforming to current AWWA standard C503 or approved equal, and shall be installed in accordance with the County of Los Angeles Fire Department Regulation 8.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
14	All on-site fire hydrants shall be installed a minimum of 25' feet from a structure or protected by a two (2) hour rated firewall. Fire Code Appendix C106	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
15	Approved access roads shall be provided and maintained at all times around the dumping areas, and all existing and proposed buildings to access for firefighting equipment as addressed in the Fire Code Section 503.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
16	Fire Apparatus Access Roads shall have an unobstructed width not less than 20 feet and an unobstructed vertical clearance clear to the sky.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
17	Fire Apparatus Access Road widths may be increased, in the opinion of the chief, when the widths are not adequate enough to provide fire apparatus access. The increase in the fire apparatus access road width may be applied for future buildings.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
18	Entrances to roads, trails or other access ways that have been closed with gates and barriers shall not be obstructed by parked vehicles.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
19	Weeds, grass and combustible vegetation shall be removed for a distance of 10 feet on both sides of all access roads by rubbish trucks or the public.	Noted.
20	A firebreak or clearance of al dry weeds and grass shall be provided around the dumping areas. Secondary firebreaks, as required by the Fire Department, shall be provided and maintained in order to prevent the spread of the fire beyond the dump facility. The secondary firebreaks shall be not less than 60 feet in width.	Noted.
21	The property shall be adequately fenced to prevent entry of unauthorized persons, and gates shall be locked at all times when the facility is not supervised. An attendant shall be on duty when the site is open to the public.	Noted.
22	"NO SMOKING" signs shall be posted on the facility and at all entrances to the facility. Smoking regulations, as required by this Department, will be strictly enforced.	Noted.
23	Dumping operations shall be carried on in such a manner as to minimize the possibility of fires occurring in the waste material. The waste material which is dumped on the premises shall be immediately mixed with earth, and under no circumstances shall any exposed surface or face of combustible materials be left uncovered at the close of daily operations.	Noted.
24	Any fire which occurs on the premises shall be reported immediately to the Fire Department and it shall be the responsibility of the operator to immediately extinguish any such fire. A telephone shall be installed for the purpose of notifying the Fire Department in case of fire.	Noted.
25	Provisions shall be made to control or prevent the blowing of papers or other combustibles water materials into the brush or outside the established dumping areas. The premises shall be kept free of any accumulations of waste combustible materials, which might constitute a fire menace.	Noted. CCL maintains litter fences around the working face of the landfill which effectively prevents combustible waste materials from blowing outside the established dumping areas.
26	A water supply shall be provided which meets the Fire Department standards as determined by the Land Development Unit of the Fire Prevention Division.	Noted.
27	Adequate on-site fire hydrants shall be required per Fire Department standards. The future expansion of the facility should be considered when determining the size and placement of water mains and hydrants.	CCL will incorporate this requirement into design of the relocated entrance; proof of compliance will be documented during plan check for a building permit associated with the relocated entrance.
28	A Class II Standpipe System shall be provided and located within 200 feet of dumping operations and shall have sufficient 1½ -inch hose with a variable-fog nozzle to reach all portions of such operations.	Consistent with Condition No. 29, CCL provides each water truck with a 2.5-inch outlet for Fire Department use.

Table F3. Additional Conditions of Approval Compliance Status Summary Table

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Condition Number	Condition	Compliance Status
29	In lieu of a Class II standpipe system, the use of water tender trucks may be permitted, provided each truck is equipped with 2½-inch outlets for fire department use.	Noted.
30	This property is located within the area described by the Fire Department as the Very High Fire Hazard Severity Zone. A "Preliminary Fuel Modification Plan" shall be submitted and approved prior to public hearing. For details, please contact the Department's Fuel Modification Unit which is located at Fire Station 32,605 North Angeleno Avenue in the City of Azusa CA 91702-2904. They may be reached at (626) 969-5205. a. The Fuel Modification Unit received the "Preliminary Fuel Modification Plan" on February 23, 2017. The review of the "Preliminary Fuel Modification Plan is pending at this time. The "Final Fuel Modification Plan" shall be reviewed and approved by the Fuel Modification Unit prior to the issuance of building permits.	Noted. The Preliminary Fuel Modification Plan will be updated and resubmitted for review and approval at the time building permit applications are submitted.

Table F4. MMRP Compliance Status Summary

2023 Annual Compliance Report for Chiquita Canyon Landfill

Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
Geology and Hydrology					
GH-1 Debris Flow: Debris flow is a rapid and fluid type of downhill mass wasting, consisting of heterogeneous debris lubricated with water caused by heavy rainfall. Similar terms for debris flow are mudflow and mudslide. There is a potential for debris flow occurring at the site during heavy rains within existing drainage areas at the subject site. The proposed design shall include provisions for control and cleanup of debris flows that may encroach into the landfill cell, perimeter maintenance road, and proposed development areas. Potential mitigation measures could consist of combinations of the following mitigation measures, such as elevated development areas, drainage devices, impact walls, debris basins, and avoidance. Additional debris flow evaluation and mitigation should be performed as part of future development of rough grading plans for the entrance road.	A. Retain a qualified engineer to evaluate the site's potential for debris flow, identify areas of concern and recommend design provisions for control and cleanup of debris flows should such design provisions be justified based on the evaluation.	During Project design	CCL / Qualified Engineer	Los Angeles County Department of Public Works (LACPW), Regional Water Quality Control Boards (RWQCB)	Chiquita Canyon Landfill (CCL) retained a qualified engineer to evaluate the site's potential for debris flow consistent with Mitigation Measure (MM) GH-1 and recommend design provisions related to debris flow if needed based on the evaluation.
	B. Incorporate provisions, as recommended by a qualified engineer, into the design for control and cleanup of debris flows that may encroach into the landfill cell, perimeter maintenance road, and proposed development areas.	During Project design	CCL / Qualified Engineer	LACPW, RWQCB	Design considerations related to debris flow will be reflected in the site design for future construction activities. Design plans will be submitted to LACPW and RWQCB.
	C. Perform additional debris flow evaluation and mitigation as part of future development of rough grading plans for the entrance road.	During future development of rough grading plans for entrance road	CCL / Qualified Engineer	LACPW, RWQCB	Noted.
GH-2 Expansive Soil: There is a potential for buildings and/or other structures to be located on expansive soil, because the site is underlain by bedrock of the Pico and Saugus formations, both of which contain potentially expansive clay-rich strata. Additional testing of the expansive properties of the soils may be required if buildings and/or other structures sensitive to expansive soils are planned for the site. Additional testing should be completed during the grading plan review if deemed necessary by the Project geotechnical and civil engineers.	A. Retain a qualified engineer to perform design-level geotechnical investigations to identify areas with potentially expansive or collapsible soils in relation to buildings and/or other structures.	During Project design	CCL / Qualified Engineer	LACPW	CCL retained a qualified engineer to perform geotechnical investigations consistent with MM GH-2. Design considerations will be reflected in site design for future construction activities. Design plans will be submitted to LACPW.
	B. Perform additional testing if deemed necessary by the Project geotechnical and civil engineers.	During grading plan review	CCL / Qualified Engineer	LACPW	CCL has a qualified engineer who will perform additional testing during grading plan review if necessary, in coordination with LACPW.
Surface Water Drainage					
SW-1: There is a potential for mudflow (i.e., debris flow) during repeated heavy rains within existing drainage areas at the subject site. The proposed design should evaluate and specify an appropriate amount of waiting time following heavy and sustained precipitation events before CCL staff occupy the area, to avoid the potential to expose people to the risk of injury or death from this debris. This would supplement Mitigation Measure GH-1, which specifies that the proposed design should allow for the cleanup or control of any debris flows that may encroach into the landfill cell and perimeter maintenance road from the natural drainages and slopes that are not included in the proposed grading and construction of drainage/debris basins.	A. Retain a qualified engineer to evaluate and specify an appropriate amount of waiting time following heavy and sustained precipitation events before CCL staff occupy the area.	During Project design	CCL / Qualified Engineer	LACPW, RWQCB	CCL anticipates that the proposed design required in MM GH-1 will reduce or eliminate the potential for onsite debris flow. CCL will have qualified onsite staff who will evaluate the potential for mudflow (debris flow) from repeated heavy rains within the existing drainage areas in consultation with a qualified engineer and will determine an appropriate waiting time before CCL staff occupy the area.
	B. Implement specified wait time following heavy and sustained precipitation events prior to CCL staff occupying the area.	During construction and operation	CCL / Construction Manager / Operations Manager	LACPW, RWQCB	Noted. No heavy and sustained precipitation events necessitating a wait time occurred during the 2023 Reporting Period.

Table F4. MMRP Compliance Status Summary

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Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
Biological Resources					
BR-1: The applicant shall develop a Closure Revegetation Plan for the Project in consultation with the Los Angeles County Department of Regional Planning (LADRP), consistent with the Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria provided in Appendix E3 of the Partially Recirculated Draft EIR. The Plan would require approval prior to authorization of land disturbance under the Proposed Project. The Plan shall require that CCL be revegetated to offset permanent impacts to native and naturalized habitats, in accordance with the following criteria: • Native vegetation shall be used under the direction of specialists in restoration plantings. Native revegetation shall achieve a 1:1 ratio of impacted native, revegetated, and semi-natural habitat to revegetated mitigation land. Non-native grassland habitats would be initially seeded with native grassland species. • Revegetation types, monitoring requirements, and success criteria including milestones, along with proposed remedial actions should vegetation alliances not achieve success criteria shall be included in the Closure Revegetation Plan, in accordance with the preliminary approach outlined in the Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria provided in Appendix E3 of the Partially Recirculated Draft EIR. • In order to replicate and potentially expand the available amount of native shrubland on the site, the Closure Revegetation Plan shall include a final soil cover of approximately 5 feet, or alternatively a depth approved by regulatory agencies and suitable to allow for proper root growth. • The Closure Revegetation Plan shall be developed and implemented by an ecological restoration specialist familiar with restoration of native and naturalized Southern California plant alliances, and shall specify that revegetation will be done with locally native plants, and that revegetation will not include plant species on Los Angeles County's list of invasive species nor invasive species on the lists of the California Invasive Plant Council (Cal-IPC) nor invasive species listed by the California Native Plant Society. • If success criteria for vegetation alliances are not met, remedial actions will be performed onsite consistent with the Closure Revegetation Plan. • If success criteria for native shrub or forest alliances are not met even after remedial actions are performed, offsite mitigation land shall be purchased to offset the loss of the portion of the alliance vegetation that does not meet the success criteria at a 1:1 ratio (impacted:mitigation land). The acreage acquired shall, if feasible, be generally local to the site or the general site area, ideally situated adjacent to or in the general proximity of the Santa Clara River, Hasley Canyon, or Angeles National Forest, and will connect with other protected open space. First priority would be given to lands that contribute to connecting the wildlife movement between the Santa Clara River through CCL to Hasley Canyon and to the Angeles National Forest. • Any purchased mitigation land shall be protected by fee simple deed which contains a covenant restricting the use of such land for conservation purposes to a conservation organization experienced in management of natural lands. • Additional mitigation for vegetation communities is included in Mitigation Measure BR-5 (vegetation associated with jurisdictional waters), Mitigation Measure BR-9 (rare plant communities), and Mitigation Measure BR-15 (oaks and oak woodlands). Mitigation ratios for replacement of these vegetation communities may be greater than the 1:1 ratio specified above, in coordination with California Department of Fish and Wildlife (CDFW) for jurisdictional waters and rare plant communities and in coordination with LADRP for compliance with the County Oak Woodland Conservation and Management Plan.	A. Develop Closure Revegetation Plan consistent with Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria provided in Appendix E of the Partially Recirculated Draft EIR.	Prior to earth-moving activities	CCL / Qualified Ecological Restoration Specialist	LADRP, Permittee's Registered Forester or Biologist	CCL submitted a draft Closure Revegetation Plan to LADRP for review on January 24, 2018. LADRP approved the Closure Revegetation Plan on August 16, 2018.
	B. Implement Closure Revegetation Plan, per specified criteria.	Site closure, or at the time of revegetation	CCL / Qualified Ecological Restoration Specialist	LADRP, Permittee's Registered Forester or Biologist	Implementation of the Closure Revegetation Plan will be initiated at such time as CCL closes some portion of the landfill and does not anticipate any further disturbance in that area.
	C. Perform onsite remedial actions consistent with the Closure Revegetation Plan, if success criteria are not met.	Following revegetation, according to the Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria included in Appendix D of the Partially Recirculated Draft EIR	CCL / Qualified Ecological Restoration Specialist	LADRP, Permittee's Registered Forester or Biologist	Onsite remedial activities relative to the Closure Revegetation Plan will be conducted if success criteria for vegetation alliances are not met according to the Performance Criteria outlined in the Plan.
	D. Purchase offsite mitigation land, if success criteria are not met following onsite remedial actions.	Following revegetation, according to the Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria included in Appendix D of the Partially Recirculated Draft EIR	CCL	LADRP, Permittee's Registered Forester or Biologist	Offsite mitigation land for native shrub or forest alliances will be purchased if success criteria for these vegetation alliances are not met following onsite remedial actions described in Part C of MM BR-1.

Table F4. MMRP Compliance Status Summary

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Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
BR-2: The construction area boundaries shall be delineated clearly. No construction activities, vehicular access, equipment storage, stockpiling, or significant human intrusion shall occur outside of the designated construction areas. In addition, CCL ingress and egress routes shall be marked, and vehicle traffic outside these routes shall be prohibited. Vehicular traffic shall adhere to a speed limit of 15 miles per hour on non-public access roads during construction to ensure avoidance of impacts to sensitive biological resources.	A. Clearly delineate construction area boundaries.	Prior to and during construction	CCL / Construction Manager	LADRP	MM BR-2 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	B. Restrict construction activities, vehicular access, equipment storage, stockpiling, or significant human intrusion to within designated construction area.	During construction	CCL / Construction Manager	LADRP	MM BR-2 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	C. Mark CCL ingress and egress routes and restrict vehicle traffic to these routes.	Prior to and during construction	CCL / Construction Manager	LADRP	MM BR-2 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	D. Restrict vehicular traffic to a speed limit of 15 miles per hour on non-public access roads during construction.	During construction	CCL / Construction Manager	LADRP	MM BR-2 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
BR-3: Soil or invasive plant seed transfer from clothing, shoes, or equipment shall be minimized through cleaning and monitoring of personnel or equipment transfers between sites, or prior to initial entry at CCL. Contract requirements to ensure all construction vehicles, including any vehicles entering areas of site construction, are pressure washed and/or clean and free of soil or invasive weed seeds and other plant parts prior to entering the site will be implemented. Contracts will specify that pressure-washing of construction vehicles is to take place immediately before bringing the vehicle to CCL. The contractor will provide written documentation that the vehicles have been pressure washed or otherwise free of plant material that is checked by both CCL management and the biological monitor, who will jointly assure that this mitigation is implemented. The biological monitoring report will include a record of compliance with this measure. Within 1 year of Project approval invasive tamarisk (*Tamarix* spp.) located onsite will be identified and removed completely. All parts of removed tamarisk will be disposed of in a landfill.	A. Specify in contracts that construction vehicles are pressure washed and/or clean and free of soil or invasive weed seeds and other plant parts prior to site entry.	During construction	CCL	LADRP	MM BR-3 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	B. Provide written documentation that construction vehicles have been pressure washed or otherwise free of plant material.	During construction	Construction Contractor	CCL / Construction Manager / Biological Monitor, LADRP	The contractor for construction in 2023 provided written documentation to CCL that construction vehicles were free of plant material before being brought onsite. The documentation was reviewed by the onsite biological monitor.
	C. Identify, remove, and dispose of invasive tamarisk located onsite within 1 year of Project approval. Immediately report any tamarisk that may appear in the future on the site to LADRP biologist if detected and remove from the site.	Within 1 year of Project approval and ongoing before and after construction	CCL	LADRP, Permittee's Registered Biologist	Onsite invasive tamarisk at CCL was removed on July 25, 2018, and again on August 13, 2018.
BR-4: On-road vehicles on the construction sites will be equipped with spark arresters on exhaust equipment. Camp fires, trash-burning fires, and warming fires shall be prohibited in the construction area.	A. Require on-road vehicles on construction sites to be equipped with spark arresters on exhaust equipment.	Prior to and during construction	CCL / Construction Manager	LADRP, Fire Marshall	MM BR-4 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	B. Prohibit camp fires, trash-burning fires, and warming fires in the construction area.	During construction	CCL / Construction Manager	LADRP, Fire Marshall	MM BR-4 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.

Table F4. MMRP Compliance Status Summary

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Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
BR-5: For potential impacts to jurisdictional waters, permits shall be obtained for the Proposed Project from United States Army Corps of Engineers (USACE) (Section 404, Clean Water Act [CWA]) and CDFW (Streambed Alteration Agreement, Section 1603); conditions of these permits would be complied with for the Proposed Project. The terms and conditions of these permits are anticipated to require mitigation consistent with *Compensatory Mitigation for Losses of Aquatic Resources; Final Rule* (USACE, United States Environmental Protection Agency [EPA], *Federal Register*, April 10, 2008), and with CDFW requirements for Streambed Alteration Agreements. A mitigation plan may be required prior to permit issuance. If a mitigation plan is required, ratios of waters impacted to waters mitigated would be negotiated with the regulatory agencies and the results of that negotiation included in the plan.	A. As applicable, obtain permits from USACE and CDFW for potential impacts to jurisdictional waters.	Prior to impacting jurisdictional waters	CCL	USACE and/or CA Dept. of Fish and Wildlife (CDFW), LACPW	During the 2023 Reporting Period, CCL continued coordination with regulatory agencies for permits needed for construction in CCL's East Canyon and for CCL's Wolcott Way Entrance Project, including the United States Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act, Regional Water Quality Control Board (RWQCB) under Section 401 of the Clean Water Act, and California Department of Fish and Wildlife (CDFW) under Section 1602 of the California Fish and Game Code.
	B. Implement mitigation consistent with terms and conditions of permits.	During construction and post construction	CCL	USACE and/or CDFW, LACPW	During the 2023 Reporting Period, CCL coordinated with an approved mitigation bank for purchase of offsite mitigation credits associated with projects in CCL's East Canyon.
	C. Prepare mitigation plan, if required.	Prior to permit issuance, if required	CCL	USACE and/or CDFW, LACPW	For Cell 8 construction in 2023, CCL complied with the mitigation plan prepared as part of its application for a Streambed Alteration Agreement from CDFW.
BR-6: Stationary equipment such as motors, pumps, generators, and welders shall be located a minimum of 50 feet outside CDFW and USACE jurisdictional drainages where impacts have not been permitted. Construction staging areas, stockpiling, and equipment storage shall be located a minimum of 50 feet outside non-permitted CDFW and USACE jurisdictional drainages. Construction vehicles and equipment shall be checked periodically to ensure they are in proper working condition, including regular inspections for leaks, which would require immediate repair. Refueling or lubrication of vehicles and cleaning of equipment, or other activities that involve open use of fuels, lubricants, or solvents, shall occur at least 100 feet away from CDFW and USACE jurisdictional drainages where impacts have not been permitted, and at least 50 feet from other flagged, sensitive biological resources.	A. Locate stationary equipment a minimum of 50 feet outside non-permitted CDFW and USACE jurisdictional drainages.	During construction	CCL / Construction Manager	CDFW and/or USACE, LACPW	MM BR-6 was included in contractor bid specifications for construction in 2023 and fully complied with during construction.
	B. Locate construction staging areas, stockpiling, and equipment storage a minimum of 50 feet outside non-permitted CDFW and USACE jurisdictional drainages.	During construction	CCL / Construction Manager	CDFW and/or USACE, LACPW	MM BR-6 was included in contractor bid specifications for construction in 2023 and fully complied with during construction.
	C. Check construction vehicles and equipment periodically to ensure they are in proper working condition.	During construction	CCL / Construction Manager	CDFW and/or USACE, LADRP, LACPW	MM BR-6 was included in contractor bid specifications for construction in 2023 and fully complied with during construction.
	D. Locate refueling or lubrication of vehicles and cleaning of equipment, or other activities that involve use of fuels, lubricants, or solvents, a minimum of 100 feet outside non-permitted CDFW and USACE jurisdictional drainages and at least 50 feet from other flagged, sensitive biological resources.	During construction	CCL / Construction Manager	CDFW and/or USACE, LADRP, LACPW	MM BR-6 was included in contractor bid specifications for construction in 2023 and fully complied with during construction.
BR-7: Only pesticides, herbicides, fertilizers, dust suppressants, or other potentially harmful materials approved by EPA and/or the California Department of Toxic Substance Control shall be applied at CCL, in accordance with relevant state and federal regulations. Rodenticides will not be used. Instead, methods that do not persist and infiltrate the natural food chain will be used for pest elimination, such as trapping, gassing, etc. Sediment basins are present along all drainages at CCL, which capture runoff prior to discharging offsite. Sediment basins will continue to be regularly maintained.	A. Apply only pesticides, herbicides, fertilizers, dust suppressants, or other potentially harmful materials approved by the EPA and/or the California Department of Toxic Substance Control (DTSC), in accordance with state and federal regulations.	During construction and operation	CCL / Construction Manager / Operations Manager	LADRP, RWQCB	Noted. The only materials listed in MM BR-7 used by CCL are EPA and DTSC-approved household-type pesticides which are utilized at structures for pest control.
	B. Prohibit use of rodenticides. Instead, use trapping, gassing,	During construction and operation	CCL / Construction	LADRP, RWQCB	Noted.

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	or other methods that do not persist and infiltrate the natural food chain.		Manager / Operations Manager		CCL does not use rodenticides. Rodent management at CCL is accomplished by use of raptors.
	C. Maintain sediment basins regularly.	During operation	CCL / Operations Manager	LADRP, RWQCB, LACPW	Sediment basins are maintained during the dry season, outside the nesting bird season, and after inspection by a qualified biologist.
BR-8: Construction sites and landfill operation shall be kept free of trash and litter. Food-related trash and litter shall be placed in closed containers and disposed of daily. Nuisance wildlife breeding will be discouraged at CCL by excluding such species from cavities in buildings and/or equipment or facilities to be left idle for more than 6 months. To reduce risk of infestation by the non-native Argentine ant (*Linepithema humile*), a 500-foot buffer will be established adjacent to natural habitats at CCL within which no permanent, artificial water sources will be applied, and inspections for exotic ant infestations will be required for any landscape or restoration container-stock plants proposed for installation. Landfill operations require daily covering of all portions of the active landfill; this practice would be continued, further reducing risk of nuisance wildlife.	A. Keep construction sites and landfill operation free of food-related trash and litter.	During construction and operation	CCL / Construction Manager / Operations Manager	LADRP, Local Enforcement Agency (LEA)	MM BR-8 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	B. Place food related trash and litter in closed containers and dispose daily.	During construction and operation	CCL / Construction Manager / Operations Manager	LADRP, LEA	MM BR-8 was included in contractor bid specifications for construction in 2023 and was fully complied with during construction.
	C. Install exclusionary devices on cavities in buildings and/or equipment or facilities to be left idle for more than 6 months.	During construction and operation	CCL / Construction Manager / Operations Manager	LADRP, LEA	Noted. No equipment or facilities were inactive for more than 6 months during the 2023 Reporting Period.
	D. Establish 500-foot buffer and manage risk of Argentine ant infestation, per measure.	During construction and operation	CCL / Construction Manager / Operations Manager	LADRP, LEA	Noted.
	E. Provide daily covering of all portions of active working face of the landfill.	During operation	CCL / Operations Manager	LEA, LACPW	Noted. Landfill regulations require daily covering of all portions of the active working face.
BR-9: Preconstruction surveys by qualified botanists shall be conducted for special-status plant species in impact areas prior to ground-disturbing activities, and if necessary and feasible, resource relocation or avoidance shall be implemented. Resource relocation will be to a location deemed suitable for successful relocation by a qualified biologist and conducted in coordination with CDFW. Avoidance zones shall be established with fencing and/or signage that restricts access. • For rare plants, this shall include focused surveys by a qualified botanist conducted during the appropriate season for detection (generally during flowering period) prior to ground-disturbing activities over the entire disturbance area proposed for the Project, and then again the first season prior to disturbance over the area proposed to be disturbed for each phase (cell) of landfill development. If suitable transplant areas for rare plants exist at CCL, surveys will also include potential areas for relocation onsite in order to provide background data for determining transplant success. If no suitable relocation areas exist at CCL, potential mitigation areas in conserved areas within the local watersheds will be identified and surveyed at the same time in order to have background data. Surveys shall follow standard survey protocol for rare plants outlined in *Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed and Candidate Plants* (United States Fish and Wildlife Service [USFWS], 1996) and/or *Protocols for Surveying and Evaluation Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW, 2009). • If special-status plants are found at CCL they shall be field marked and mapped with global positioning system units to evaluate potential for impacts from proposed grading. Where feasible, special-status plants will be avoided; protective measures to avoid adverse impacts to the area shall be implemented. Protected zones adjacent to active construction or active landfill will be demarcated with permanent fencing. More remote protected zones not accessible by construction equipment or near adjacent road access points shall be demarcated by temporary fencing (e.g.,	A. Conduct preconstruction special-status plant surveys.	Prior to ground-disturbing activities	CCL / Qualified Botanist	CDFW, Permittee's Registered Forester or Biologist, LADRP	Focused surveys for rare plants by qualified botanists in anticipated 2018 and 2019 construction areas were conducted during the 2017 Reporting Period and again in 2018. The findings of the rare plant surveys have been incorporated into the Rare Plant Relocation Plan. Rare plant surveys for the Cell 8 and Cell 7 construction projects were conducted in 2020 to facilitate construction beginning in early 2021 and continuing through 2023.
	B. Implement resource relocation or avoidance (if necessary and feasible) as specified in Mitigation Measure BR-9, including focused surveys, Avoidance zones, implementation of a Rare Plant Relocation Plan, and performance monitoring.	Prior to construction, during construction, and post construction	CCL / Qualified Botanist	CDFW, Permittee's Registered Forester or Biologist, LADRP	A draft Rare Plant Relocation Plan was submitted to LADRP for review on May 23, 2018, and resubmitted on July 9, 2018, and March 29, 2019, in response to comments provided by LADRP. The Plan was approved by LADRP on May 7, 2019. In 2023, CCL performed qualitative and quantitative monitoring of rare plant seeds and bulbs previously installed within selected receptor sites at CCL in accordance with the Rare Plan Relocation Plan. Details of the rare plant relocation activities conducted in 2023 are documented in the CCL 2023 Rare Plant Annual Report, submitted to LADRP on January 24, 2024.

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orange construction fencing) when road access is within 100 feet. If road access becomes immediately available to the area, permanent fencing will be installed. Fencing shall be maintained and construction crews informed about avoidance during construction. The site biological monitor will continue to monitor compliance with protected zones. • Rare plants have been identified within construction limits during 2016 surveys. For these, and any additional rare plants identified prior to ground disturbance that are within the grading footprint or other areas identified for unavoidable disturbance (including species of California Native Plant Society Rare Plant Ranks 1-4 or Locally Rare), a Rare Plant Relocation Plan will be developed in consultation with CDFW. Plant salvage for transplanting shall take place before any clearing or grading of the sensitive plant occurs. Preliminary performance criteria, general methods of transplanting, and other anticipated components of this plan are provided in the Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria provided in Appendix E3 of the Partially Recirculated Draft EIR. • The Rare Plant Relocation Plan shall address mitigation for special-status plants, including topsoil salvage to preserve seed bank and management of salvaged topsoil; seed collection, storage, possible nursery propagation, and planting; salvage and planting of other plant propagules (e.g., rhizomes, bulbs) as feasible; location of receptor sites to include on- or off-site property that could serve as permanent open space areas; land protection instruments for receptor areas; and funding mechanisms. The Rare Plant Relocation Plan shall include methods, monitoring, reporting, success criteria, adaptive management, and contingencies for achieving success. Where feasible, background data for up to 3 years will be collected on receptor sites. • If rare plant relocation cannot be achieved, through lack of receptor sites, or lack of success during the monitoring period, then purchase of mitigation credits or offsite property with known populations of the affected species for inclusion in permanent open space areas or a conservation easement would be implemented, with priority given to acquisition of offsite property. • Locations within CCL that will not be developed are present adjacent to existing population of these species that may serve as receptor sites, and would be investigated for additional data. If found suitable, topsoil from impacted sites may be conserved and placed on these sites, seeds, bulbs (e.g., *Calochortus* spp.), rhizomes (e.g., *Calystegia peirsonii*), and entire plants and pads (e.g., *Opuntia basilaris* var. *basilaris*), may be collected/salvaged and planted on these sites, and ongoing monitoring and maintenance of plantings implemented. The Rare Plant Relocation Plan shall have the final details of plant transplant methods. • The on-site receptor/mitigation sites would be monitored for a minimum of 5 years to determine mitigation success or failure, consistent with the Draft Revegetation, Rare Plant Relocation, and Oak Tree Performance Criteria provided in Appendix E3 of the Final EIR and the Rare Plant Relocation Plan. If necessary, remedial measures consistent with the approved plan would be implemented to satisfy mitigation objectives.					
BR-10: Preconstruction surveys by qualified biologists shall be conducted for special-status wildlife species in impact areas prior to ground-disturbing activities, and if necessary and feasible, resource relocation or avoidance for special-status species shall be implemented. Wherever practical, relocation shall be passive, allowing animals to exit the area on their own. Any grubbing, grading or other ground disturbing activities at CCL would be done in a manner that encourages mobile wildlife species to leave the Project area to escape safely into immediately adjacent undisturbed habitat, wherever feasible. For low mobility species, salvage and relocation by a qualified biological monitor would be implemented. Resource relocation shall be to a location deemed suitable for successful relocation by a qualified biologist and conducted by individuals with appropriate handling permits as required by CDFW or USFWS. Where practical, avoidance zones shall be established in lieu of relocation with fencing and/or signage that restricts access. Construction and construction monitoring for animals will occur at discrete time periods. Construction monitoring shall be conducted in areas containing native vegetation at the time of construction activity within the limit of active construction disturbance. Within areas containing native vegetation, ground-disturbing activities shall be prohibited until the area is cleared by a qualified biological monitor during a preconstruction survey within 7 days prior to the beginning of construction activities. Biological monitors shall also monitor construction activities within 100 feet of avoided CDFW and USACE jurisdictional drainages.	A. Conduct preconstruction special-status wildlife species surveys.	Prior to ground-disturbing activities	CCL / Qualified Biologist	CDFW and/or USFWS, Permittee's Registered Forester or Biologist, LADRP	During the 2023 Reporting Period, preconstruction surveys for special-status wildlife species were conducted prior to start of construction according to the requirements of Mitigation Measure BR-10.
	B. Implement resource relocation or avoidance (if necessary and feasible) as specified in Mitigation Measure BR-10, including agency coordination, acquisition of appropriate handling permits, field monitoring, clearance sweeps, avoidance zones.	Prior to construction, during construction, and post construction	CCL / Qualified Biologist	CDFW and/or USFWS, Permittee's Registered Forester or Biologist, LADRP	No special-status wildlife species that required relocation or avoidance were identified during surveys conducted for special-status wildlife species in 2023. During the 2021 Reporting Period, CCL resubmitted the Spadefoot Mitigation Plan to LADRP for final approval and LADRP approved the Plan on May 25, 2021.

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• For burrowing owl, suitable burrows will be identified during surveys and if feasible, protected from disturbance during construction. If avoidance is not feasible, burrows will be scoped during the non-breeding season (September 1 to January 31) to determine if they are occupied. If unoccupied, burrows will be collapsed. If burrows are occupied, owls will be evicted by installing one-way doors in burrow openings during the non-breeding season to exclude burrowing owls. After eviction, burrows will be collapsed. If feasible, alternative man-made burrows will be installed on lands not subjected to construction disturbance, and within 300 feet of cleared burrows. Surveys would be consistent with the CDFW requirements for burrowing owl survey; mitigation measures presented here are consistent with CDFW (2012), and details of how mitigation would be implemented would be consistent with this document. • For special-status reptiles (coast patch-nosed snake, coastal western whiptail, California legless lizard, San Diego horned lizard), preconstruction surveys in areas where land clearing will occur shall consist of gently raking areas of soft soils, sand, and dense leaf litter to identify individuals burrowed or buried in leaf litter. Individuals encountered will be captured and translocated to an area of undisturbed, intact habitat nearby deemed suitable for successful translocation by a qualified biologist. Translocation will be performed by biologists with appropriate handling permits by CDFW. • Special-status land mammals (San Diego black-tailed jackrabbit, San Diego desert woodrat, American badger): pre-construction surveys will consist of surveying and identifying evidence of occupancy and use, including rabbit forms, woodrat nests, and badger natal dens. If located during the breeding season for these species, features will be surveyed or scoped to determine occupancy if possible. If unoccupied, they will be dismantled or collapsed. If occupied, or if occupancy cannot be determined, avoidance zones will be established until occupancy can be determined or until the breeding season concludes. If features are identified during the non-breeding season, they will be gently dismantled or collapsed, allowing any occupants if present to disperse. Where habitat must be dismantled, alternative habitat features will be established in nearby undisturbed areas, including creating specific conditions suitable for the species if necessary, such as downed wood structures in shade suitable for woodrat. • For western spadefoot, if ground-disturbing activities will be conducted within 1,000 feet of the sedimentation basins at CCL, preconstruction ground surveys shall occur within 1,000 feet of potential breeding ponds (sediment basins). The top 6 inches of soft soils and leaf litter shall be gently raked and small mammal burrows and soil cracks will be inspected or scoped for aestivating spadefoot. In addition, silt fencing will be installed between upland habitat slated for vegetation removal and grading, and potential breeding ponds (detention basins), if the basins are holding water at the time of construction, with pitfall traps located along the silt fence. Depending on proposed scheduling of upland habitat disturbance (relative to spadefoot breeding season), fencing and pitfall traps will target spadefoot moving from or to the upland habitat. Pitfall traps will be inspected daily when active, which will be during periods of likely spadefoot emergence or movement (during early season rainfall and pool formation and during late season drawdown of the basins). If found or trapped, western spadefoot will be relocated to suitable natural or artificial burrows adjacent to a proposed western spadefoot mitigation pond (BR-16). This pond will serve as an alternative habitat for spadefoot found at CCL, and will be set aside to support spadefoot breeding with adjacent upland habitat for aestivation. Any aestivating western spadefoot encountered during construction within 1,000 feet of sedimentation basins would be relocated to the spadefoot mitigation pond, and placed in similar habitat and conditions. Details of spadefoot mitigation, to include components described above including the spadefoot mitigation pond, will be documented in a Spadefoot Mitigation Plan, to be reviewed by CDFW and LADRP. • Bird nests: Preconstruction surveys for nesting pairs, nests, and eggs shall occur in areas proposed for vegetation removal and in surrounding areas, including cliff sites, and active nesting areas flagged. Mitigation shall be implemented as described below under BR-13. • Bat Roosts: Where bat roosting habitat cannot be avoided, preconstruction surveys consisting of exit surveys, roost surveys of potential roost sites, and evidence of bat sign (guano) shall occur to identify bat species, as feasible, and active roosts. Mitigation shall be implemented as described below under BR-14.					

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BR-11: USFWS protocol-level surveys shall be conducted for all coastal California gnatcatcher habitat well in advance of any ground-disturbing activities. If surveys are negative, the species shall be presumed absent, and no further impacts shall be anticipated or mitigation measures required. If the surveys are positive (i.e., coastal California gnatcatcher is present), then coordination shall be initiated with USFWS on required measures to avoid, minimize, or mitigate take of this species. These are anticipated to include: • Construction activities in the vicinity of active gnatcatcher nests shall be prohibited within a specified distance of nests (500 feet unless otherwise agreed to by USFWS) until after the young have fledged and the nesting is complete. • Clearing of occupied habitat shall be avoided if possible or practicable. If it is not practicable, clearing shall be prohibited during the nesting season (February to August).	A. Conduct USFWS protocol-level surveys for coastal California gnatcatcher well in advance of ground-disturbing activities.	Well in advance of ground-disturbing activities	CCL / Qualified Biologist	USFWS, Permittee's Registered Forester or Biologist	A site-wide habitat assessment for coastal California gnatcatcher habitat was performed and protocol-level surveys for Cell 6 and the entrance area were conducted in 2018. The surveys for gnatcatcher were negative. Protocol-level surveys for coastal California gnatcatcher were conducted in 2020 and 2022 for the remainder of the site. The surveys for gnatcatcher were negative and no additional surveys will be conducted.
	B. Coordinate with USFWS if surveys are positive and implement required measures to avoid, minimize, or mitigate take.	Prior to and during ground-disturbing activities	CCL / Qualified Biologist / Construction Manager	USFWS, Permittee's Registered Forester or Biologist	Noted.
BR-12: Although no nighttime construction is anticipated, lighting for construction activities conducted during early morning or early evening hours shall be minimized to the extent possible through the use of directional shading to minimize impacts to nocturnal or crepuscular wildlife. Only CDFW-recommended designs for lighting, fences, power poles, or other man-made features would be implemented where available.	A. Use directional shading for construction lighting to minimize impacts to nocturnal or crepuscular wildlife.	During construction	CCL / Construction Manager	LADRP	MM BR-12 was included in contractor bid specifications for construction in 2023 No nighttime construction requiring lighting occurred.
	B. Implement only CDFW-recommended designs for lighting, fences, power poles, or other man-made features where available.	During Project design	CCL / Construction Manager	CDFW	Noted. CDFW-recommended designs for man-made features will be incorporated during project design, as available.
BR-13: In habitats where nesting birds might occur, vegetation removal shall be avoided when feasible during the nesting season (December through August); winter months are included because this area has potential for owls and hummingbirds, which may breed during this period. In addition, raptor nesting may be initiated by early January. Where this is not feasible, preconstruction surveys for nesting pairs, nests, and eggs shall occur in areas proposed for vegetation removal, and in buffer areas affected by construction, and active nesting areas flagged. The biological monitor shall assign a buffer around active nesting areas (typically 300 feet for songbirds, 500 feet for raptors, and 1,000 feet for sensitive cliff-nesting raptors – golden eagle, prairie falcon, and turkey vulture). The biological monitor will also clearly communicate the limits of buffers to the contractor and crew, and post and maintain, throughout the time of nest use, flagging, fencing, staking, or signs as otherwise needed. Construction activities shall be prohibited within the buffer until the nesting pair and young have vacated the nests, unless it can be demonstrated through biological monitoring that the construction activity is not hindering the nesting effort. Alternatively, if unused nests are identified in the disturbance area during preconstruction surveys, nests may be destroyed prior to active nesting. Rocky escarpments that may support cliff-nesting raptors not proposed for current construction activity at CCL would not be disturbed for the duration of the construction activity.	A. Avoid vegetation removal in nesting bird habitat during the nesting season.	During Project construction	CCL / Construction Manager	LADRP	In anticipation of Cell 8 and Wolcott Way-Entrance construction in 2021, non-ground disturbing vegetation removal occurred outside the nesting season. This vegetation removal also supported construction in 2023.
	B. Conduct preconstruction nesting bird surveys where vegetation avoidance is not feasible and flag active nesting areas.	Prior to vegetation removal in nesting bird habitat	CCL / Qualified Biologist	LADRP, CDFW, USFWS	Preconstruction nesting bird surveys were conducted as required prior to vegetation removal for construction in 2023.
	C. Assign buffers around active nests, clearly communicate limits to contractor/crew, and post and maintain flagging, fencing, and staking.	During Project construction	CCL / Qualified Biologist / Construction Manager	LADRP, CDFW, USFWS	During the 2023 Reporting Period, one Common Raven's nest was identified that required a 100' buffer.
	D. Prohibit construction activities within buffer until nests are vacated, or unless biological monitoring can demonstrate activity is not hindering nesting.	During Project construction	CCL / Qualified Biologist / Construction Manager	LADRP, CDFW, USFWS	During the 2023 Reporting Period, nesting bird surveys identified one active nest, for which a cylindrical ground construction buffer was established for an Common Raven nest, inside of which construction activities were prohibited.
	E. Destroy unused nests in the disturbance area prior to active nesting.	Prior to vegetation removal in nesting bird habitat, and following preconstruction surveys	CCL / Qualified Biologist	LADRP, CDFW, USFWS	No unused nests were identified during preconstruction surveys for construction in 2023.
BR-14: A qualified bat biologist acceptable to CDFW shall be employed to supervise and report on construction activities with respect to bats. In habitats where roosting bats may occur, ground disturbance and roost destruction shall be scheduled, as feasible, during October 1 through February 28 or 29. Ground disturbance and roost destruction shall be avoided during the parturition period (generally March through August). Where this is not feasible, a qualified bat biologist shall conduct exit surveys, roost surveys of potential roost sites, or surveys for bat sign (e.g., guano) to identify bat	A. Employ qualified bat biologist to supervise and report on construction activities with respect to bats.	During Project construction	CCL / Qualified Biologist	LADRP	During the 2020 Reporting Period, Bat Habitat Assessments were prepared for the Cell 8 and Wolcott Way-Entrance projects in anticipation of construction starting in 2021 and continuing through 2023. Construction conducted during the 2023 Reporting Period did not occur in habitats where roosting bats may occur.

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species, if feasible, and active roosts. Construction activity within 300 feet of identified active roosts shall be prohibited until the completion of parturition (end of August), unless it can be demonstrated through biological monitoring that the construction activity is not affecting the active roost. Alternatively, if potential roosts are identified prior to onset of parturition, with concurrence from CDFW, roosts may be vacated during the evening forage period (within 4 hours after dark) or fitted with one way exit doors to effectively eliminate and exclude roosting bats. If tree roosts are identified that require disturbance, and from which bats can't be excluded, the trees would be initially disturbed by cutting small branches (less than 2 inches) to encourage habitat abandonment, prior to full tree removal (implemented the following day and supervised by a qualified bat biologist). Roost eviction will be conducted by a qualified bat biologist. Eviction shall be preferentially done before March or after September for eviction of a maternity colony, and only with concurrence from CDFW. If eviction is necessary, the bat biologist shall identify the bat species to be evicted, as feasible, and roost sites appropriate to the species to be displaced in the vicinity (within 1 mile) prior to any bat eviction. Alternative active roost areas, including rock escarpments at CCL that are not proposed to be disturbed by current construction activity would be avoided for the duration of the construction activity. If no alternative roost sites are identified, CCL shall provide artificial roost construction appropriate to the bat species to be displaced to offset loss of active roosts. Artificial roost construction would follow industry standard design, be sized to offset impacted roost(s), and be located greater than 300 feet from the active construction area, but within CCL property. A report will be prepared for submittal to CDFW and copied to LADRP on activities related to bat surveys and eviction, including survey methods, findings including species and size of roosts if available, alternative roost locations and characteristics, and constructed roosts.					
	B. Schedule ground disturbance and roost destruction in bat roost habitat to avoid the parturition period.	During Project construction	CCL / Qualified Biologist / Construction Manager	LADRP	During the 2020 Reporting Period, Bat Habitat Assessments were prepared for the Cell 8 and Wolcott Way-Entrance projects. Construction conducted during the 2023 Reporting Period did not occur in habitats where roosting bats may occur.
	C. Conduct exit surveys, roost surveys of potential roost sites, or surveys for bat sign (e.g., guano) to identify bat species and active roosts if ground disturbance cannot be scheduled outside parturition period.	Prior to disturbance activities in active roost areas within the parturition period	CCL / Qualified Biologist / Construction Manager	LADRP, CDFW	During the 2020 Reporting Period, Bat Habitat Assessments were prepared for the Cell 8 and Wolcott Way-Entrance projects. Construction conducted during the 2023 Reporting Period did not occur in habitats where roosting bats may occur.
	D. Prohibit construction activities within 300 feet of active roosts until completion of parturition, or unless biological monitoring can demonstrate activity is not affecting active roost.	During Project construction	CCL / Qualified Biologist / Construction Manager	LADRP, CDFW	During the 2020 Reporting Period, Bat Habitat Assessments were prepared for the Cell 8 and Wolcott Way-Entrance projects. Construction conducted during the 2023 Reporting Period did not occur in habitats where roosting bats may occur.
	E. Exclude roosts (with CDFW concurrence) prior to onset of parturition, as identified in Mitigation Measure BR-14 (including requirements for artificial roost construction and reporting).	Prior to disturbance activities in active roost areas, and following preconstruction surveys	CCL / Qualified Biologist	LADRP, CDFW	During the 2020 Reporting Period, Bat Habitat Assessments were prepared for the Cell 8 and Wolcott Way-Entrance projects. Construction conducted during the 2023 Reporting Period did not occur in habitats where roosting bats may occur.
BR-15: For unavoidable impacts to qualifying oak trees, an Oak Tree Permit application has been submitted to the LADRP. All permit terms and conditions shall be complied with from the final permit issuance, including planting of replacement trees. An Oak Tree and Woodland Mitigation Plan which identifies the mitigation area shall be submitted to LADRP for review and approval prior to impacts to any scrub oaks or issuance of a grading permit for the Proposed Project that would disturb areas within the protected zone of any oak trees regulated by the County Oak Tree Ordinance. The site shall be assessed for oak woodlands, including scrub oaks, at the time of disturbance according to the County Oak Woodland Conservation and Management Plan, and the Oak Tree and Woodland Mitigation Plan would also address mitigation for oak woodland impacts, including scrub oaks. As appropriate, potential impacts to oak woodlands shall be mitigated by planting understory plants in the same area identified onsite for mitigation oaks pursuant to the Oak Tree Permit and Oak Tree and Woodland Mitigation Plan for the Proposed Project. CCL will coordinate with Tataviam to provide a monitor during the removal or disturbance of native oak trees at CCL, if desired by the tribe.	A. Comply with Oak Tree permit terms and conditions, including planting of replacement trees.	During Project construction and post construction	CCL	LADRP, Permittee's Registered Forester or Biologist	The terms and conductions of Oak Tree Permit (OTP) 2015-00007 were included in the Oak Tree and Oak Woodland Mitigation Plan, which was first submitted to LADRP on May 2, 2018, and approved by LADRP on February 7, 2019. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks under the direction of a certified arborist. The OTP was fully complied with in 2023.
	B. Submit Oak Tree and Woodland Mitigation Plan.	Prior to any impacts to oak woodlands, including scrub oaks, or issuance of a grading permit where any oaks are to be impacted	CCL	LADRP, Permittee's Registered Forester or Biologist	CCL first submitted an Oak Tree and Oak Woodland Mitigation Plan to LADRP on May 2, 2018 and received Plan approval from LADRP on February 7, 2019.
	C. Implement approved Oak Tree and Woodland Mitigation Plan.	During Project construction and post construction	CCL	LADRP, Permittee's Registered Forester or Biologist	In 2019, one oak covered by OTP 2015-00007 was removed. In consultation with the County Forester, CCL agreed to plant the required mitigation oaks in 2019 for all oaks to be removed under OTP 2015-00007. In December 2019, under the direction of a certified arborist, 15 mitigation oaks were planted at CCL. All terms of the Oak Tree and Woodland Mitigation Plan were fully complied with. During the 2023 Reporting Period, CCL monitored and maintained mitigation oaks under the direction of a

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Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
					certified arborist. The 2023 Oak Tree Monitoring Report was submitted to LADRP on January 24, 2024.
BR-16: To avoid operational impacts to western spadefoot which may occur during intentional draining of detention basins, or sediment removal from detention basins, the following protocol must be implemented, under an approach coordinated with CDFW: (1) All drainage equipment would be new or used exclusively for detention basins on CCL to avoid transfer of Chytridiomycosis (i.e., chytrid fungus) or any other amphibian diseases or pathogens to detention basins on CCL from other sites; (2) pumping equipment intakes would be screened with fine mesh and would pump from deeper portions of the detention ponds to ensure that eggs, larvae, or adults of western spadefoot would not be entrained in pump apparatus; (3) if a biological monitor determines that spadefoot adults, larvae, or egg masses are present during pumping, a secondary pump enclosure with maximum pore size of 0.125 inches will be utilized if determined necessary by the biological monitor; (4) at any given pumping event, only 80 percent of the volume (measured as depth at the deepest point of the detention basin) would be pumped, leaving pooled water of at least a 5-inch depth for any potential western spadefoot to complete its life cycle; however, the biological monitor would evaluate remaining pooled water volume and spadefoot development stage and make a determination if the remaining water was sufficient for spadefoot to complete their life cycle; and (5) sediment removal would only occur during the dry season, when ponded water was not present. A Spadefoot Mitigation Plan will be developed in consultation with CDFW, to incorporate the above measures and other measures in BR-10 to protect spadefoot. The Spadefoot Mitigation Plan will include design and development of a spadefoot breeding pond on CCL property in a relatively undisturbed location where adjacent uplands are present, including 1,000 feet of undeveloped land as feasible. This pond will be suitable for establishment of a western spadefoot breeding pond, and will not undergo the regular maintenance that is necessary for the onsite stormwater detention basins. Relocation of western spadefoot will be to the mitigation pond.	A. Coordinate approach for draining or removing sediment from detention basins with CDFW.	Prior to draining or removing sediment from detention basins	CCL	CDFW, Permittee's Registered Forester or Biologist, LACPW	During the 2019 Reporting Period, CCL coordinated with LADRP regarding Spadefoot Mitigation Plan and continued preparation of a draft Spadefoot Mitigation Plan. A draft Plan was submitted to LADRP for review on January 6, 2020. During the 2020 Reporting Period, CCL coordinated with LADRP and CDFW regarding the Spadefoot Mitigation Plan and submitted a draft Plan to CDFW for review. In February 2021, CCL resubmitted the Spadefoot Mitigation Plan to LADRP and LADRP approved the Plan on May 25, 2021.
	B. Implement protocol for draining or removing sediment from detention basins, as coordinated with CDFW and identified in Mitigation Measure BR-16.	During detention basin draining or sediment removal activities	CCL / Operations Manager	CDFW, Permittee's Registered Forester or Biologist, LACPW	A protocol for draining or removing sediment from detention basins has been incorporated into the draft Spadefoot Mitigation Plan. The draft Spadefoot Mitigation Plan was submitted to LADRP for review on January 6, 2020. During the 2020 Reporting Period, CCL coordinated with LADRP and CDFW regarding the Spadefoot Mitigation Plan and submitted a draft Plan to CDFW for review. In February 2021, CCL resubmitted the Spadefoot Mitigation Plan to LADRP and LADRP approved the Plan on May 25, 2021.
Cultural Resources and Paleontological Resources					
CR-1: A qualified archaeologist will flag off the area around Bowers Cave and establish a buffer in consultation with the Permittee to ensure avoidance of grading of the cave site. Grading plans will clearly depict the sensitive area and state that grading must not occur beyond the established buffer. The qualified archeologist will monitor earth-moving activities that would occur within 100 feet of the established buffer.	A. Flag off the area around Bowers Cave and establish a buffer in consultation with CCL.	Prior to earth-moving activities	CCL / Construction Manager / Qualified Archaeologist	LADRP	A draft Cultural Resources Monitoring Plan (CRMP), which addresses MMs CR-1, CR-2, and CR-3, was submitted to LADRP for review and approval on April 24, 2018. The CRMP was approved by LADRP on May 29, 2018. During the 2023 Reporting Period, construction at CCL required monitoring under the CRMP and monitoring reports were prepared for compliance with the CRMP, as provided in Appendix D. No work occurred in 2023 in the vicinity of Bowers Cave.
	B. Depict sensitive area on grading plans and state that grading must not occur beyond the established buffer.	During development of grading plans	CCL / Qualified Engineer	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the CRMP, and monitoring reports were prepared for compliance with the CRMP, as provided in Appendix D.
	C. Archaeological monitoring and reporting.	During earth-moving activities within 100 feet of the established buffer	CCL / Construction Manager / Qualified Archaeologist	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the CRMP, and monitoring reports were prepared for compliance with the CRMP, as provided in Appendix D.

Table F4. MMRP Compliance Status Summary

2023 Annual Compliance Report for Chiquita Canyon Landfill

Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
CR-2: Prior to the start of monitoring activities, a Cultural Resources Monitoring Plan (CRMP) will be developed. The CRMP will include, at a minimum: (1) the location of areas to be monitored, (2) frequency of monitoring, (3) description of resources expected to be encountered, (4) description of circumstances that would result in a construction halt, (5) description of monitoring reporting requirements, and (6) disposition of found/collected materials.	Develop a CRMP.	Prior to construction	CCL / Qualified Archaeologist	LADRP	A draft CRMP, which addresses MMs CR-1, CR-2, and CR-3, was submitted to LADRP for review and approval on April 24, 2018. The CRMP was approved by LADRP on May 29, 2018.
CR-3: Native American consultation has indicated that Bowers Cave and the surrounding region may be important to local Native Americans, specifically Tataviam. Provisions will be made to provide cave access to interested Tataviam, and Tataviam will have the option to provide a construction oversight monitor during ground-disturbing activities. The Tataviam monitor will act as a liaison between archaeologists, the Permittee, contractors, and public agencies to ensure that cultural features are treated appropriately from the Tataviam point of view. All artifacts that may be found will be returned to the Tataviam or reinterred into the earth.	A. Make provisions to provide Bower's Cave access to interested Tataviam.	Prior to and during construction	CCL / Construction Manager / Tataviam Native American	LADRP Native American Heritage Commission (NAHC)	The approved CRMP includes provisions to provide Bower's Cave access to interested Tataviam.
	B. Tataviam Native American monitoring and reporting and liaison activities, as applicable.	During construction	CCL / Construction Manager / Tataviam Native American	LADRP NAHC	The approved CRMP includes Tataviam Native American monitoring and reporting and liaison activities. During the 2023 Reporting Period, ground-disturbing construction at CCL was monitored by a Tataviam representative.
	C. Return all artifacts that may be found to the Tataviam or reinterred into the earth.	During construction	CCL / Construction Manager / Tataviam Native American	LADRP NAHC	During the 2023 Reporting Period, ground-disturbing construction at CCL was monitored by a Tataviam representative.
CR-4: Prior to construction, the services of a qualified vertebrate paleontologist shall be retained to develop and implement a Paleontological Resources Mitigation Plan prior to earth moving activities. The Plan will include the following elements: • development of agreement with a recognized museum repository; • identification of final disposition, permanent storage, and maintenance of any fossil remains and associated specimen data and corresponding geologic and geographic site data that might be recovered; and • determination of level of treatment (preparation, curation, cataloguing) of the remains that would be required before the mitigation program fossil collection would be accepted for storage.	Retain a qualified vertebrate paleontologist to develop and implement a Paleontological Resources Mitigation Plan.	Prior to earth-moving activities	CCL / Qualified Vertebrate Paleontologist	LADRP	A draft Paleontological Resources Mitigation Plan (PRMP), which addresses MMs CR-4 through CR-9, was submitted to LADRP for approval on April 24, 2018. The PRMP was approved by LADRP on May 29, 2018. CCL has retained a qualified vertebrate paleontologist to implement the PRMP. During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports are provided in Appendix D.
CR-5: The paleontologist and/or monitor shall conduct a preconstruction survey of the Project site prior to the start of any earth moving associated with the landfill expansion.	Preconstruction survey.	Prior to earth-moving activities	CCL / Qualified Vertebrate Paleontologist and/or Environmental Monitor	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
CR-6: The paleontologist or monitor shall coordinate with landfill personnel to provide information regarding regulatory agency requirements for the protection of paleontological resources. Landfill personnel also will be briefed on procedures to be followed in the event that a fossil site or fossil occurrence is encountered during construction, particularly when the monitor is not onsite. The briefing will be presented to new landfill personnel as necessary. Names and telephone numbers of the monitor and other appropriate mitigation program personnel shall be provided to the landfill manager.	A. Coordinate with landfill personnel to provide information regarding regulatory agency requirements and procedures for the protection of paleontological resources.	Prior to and during construction	CCL / Qualified Vertebrate Paleontologist and/or Environmental Monitor	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
	B. Brief landfill personnel on procedures when a fossil site or fossil is encountered during construction.	Prior to and during construction	CCL / Qualified Vertebrate Paleontologist and/or Environmental Monitor	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.

Table F4. MMRP Compliance Status Summary
2023 Annual Compliance Report for Chiquita Canyon Landfill

Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
	C. Provide monitor and mitigation program contact information to the landfill manager.	Prior to and during construction	CCL / Qualified Vertebrate Paleontologist and/or Environmental Monitor	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
CR-7: Earth-moving activities shall be monitored by the paleontologist only in those areas of the Project site where these activities would disturb previously undisturbed strata in the Saugus and upper Pico Formations (not in areas underlain by artificial fill or younger alluvium). With concurrence from the Project paleontologist, if no fossil remains are found once 50 percent of earth moving has been completed in an area underlain by a particular rock unit, monitoring can be reduced or suspended in that area.	A. Paleontological monitoring in areas of the Project site where activities would disturb previously undisturbed strata in the Saugus and upper Pico Formations (not in areas underlain by artificial fill or younger alluvium).	During construction	CCL / Qualified Vertebrate Paleontologist	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
	B. Paleontological monitoring and reporting.	During construction	CCL / Qualified Vertebrate Paleontologist	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
CR-8: All diagnostic fossil specimens recovered from the Project site shall be treated (prepared, curated, catalogued) in accordance with designated museum repository requirements.	Treat all diagnostic fossil specimens recovered from the Project site in accordance with designated museum repository requirements. Treatment of recovered fossil specimens would be documented in final paleontological technical report prepared by the Project paleontologist.	During and after construction	CCL / Qualified Vertebrate Paleontologist	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
CR-9: The monitor shall maintain daily monitoring logs. A final technical report of results and findings shall be prepared by the paleontologist and included with the material submitted for curation (see above).	A. Maintain log demonstrating compliance.	During construction	CCL / Qualified Vertebrate Paleontologist and/or Environmental Monitor	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
	B. Prepare and submit a final paleontological technical report.	Following earth-moving activities within previously undisturbed strata in the Saugus and upper Pico Formations	CCL / Qualified Vertebrate Paleontologist	LADRP	During the 2023 Reporting Period, construction at CCL required monitoring under the PRMP and monitoring reports were prepared for compliance with the PRMP, as provided in Appendix D.
Air Quality					
AQ-1: CCL shall use certified street sweepers that comply with South Coast Air Quality Management District (SCAQMD) Rule 1186.1.	Use certified street sweepers.	During construction	CCL / Construction Manager	LEA	Construction in 2023 did not involve the use of construction equipment travel on paved roads at CCL. Therefore, no street sweepers were required for construction during the 2023 Reporting Period.
AQ-2: CCL shall use innovative approaches to reducing potential air emissions from construction of buildings, such as modular building products, where prefabricated portions of structures are assembled elsewhere and are erected at the construction site, as feasible. This would eliminate the need for onsite painting, a majority of the plumbing, and other consumer product usage.	Incorporate air emissions reducing provisions for construction of building into the design.	During Project design	CCL	LACPW	Mitigation Measure AQ-2 will be incorporated, as feasible, into building design for onsite structures.
AQ-3: CCL shall provide offsetting emission reduction credits for predicted net emission increases from sources requiring permitting under New Source Review regulations.	Provide offsetting emission reduction credits.	During permitting	CCL	SCAQMD	The need for a permit under New Source Review regulations was not triggered during the 2023 Reporting Period.

Table F4. MMRP Compliance Status Summary
2023 Annual Compliance Report for Chiquita Canyon Landfill

Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
AQ-4: Prior to operation of the composting facility, CCL shall develop an Odor Impact Minimization Plan (OIMP) pursuant to the requirements of the *California Code of Regulations* (CCR), Title 14, Division 7, Chapter 3.1, Article 3, and Section 17863.4; CCL shall comply with the OIMP during compost facility operation.	A. Develop OIMP.	Prior to operation of composting facility	CCL	LEA, LACPW	There was no composting facility at CCL during the 2023 Reporting Period.
	B. Maintain log demonstrating compliance.	During operation of composting facility	CCL	LEA, LACPW	Noted.
Current Emission Reduction Measures: CCL currently implements the following emission reduction measures on an ongoing basis, and these measures would continue to be implemented during construction and operation of the Proposed Project. • Onsite traffic is managed. • Engine-powered equipment is properly maintained. • Onsite vehicles are routed along the most direct routes. • Electrically powered equipment is used to the extent feasible. • A 15 mile per hour (mph) speed limit is enforced on paved roads and 10 mph speed limit on unpaved roads. • Permanent onsite haul roads are paved, to the extent feasible. • Temporary unpaved roads are surfaced with low-dust courses of material. • Roads are watered four to seven times daily, dependent on conditions, including weather. • Active sites of soil disturbance are watered four to seven times daily, dependent on conditions, including weather. • Soil stabilizers are used in areas with long-term exposure of disturbed or un-vegetated surfaces (e.g., stockpiles). • Trucks hauling dirt, sand, or other loose materials for site construction projects on public roadways are covered or maintain at least 2 feet of free board in accordance with the requirements of California Vehicle Code Section 23114. • Construction access roads are paved at least 100 feet onto the site from the main road. • Where feasible, other construction roads not covered by the above measure heaving a daily traffic volume of 50 vehicular trips, are paved; where infeasible, these roads are watered. • Disturbed areas are covered with erosion control materials if needed. • SCAQMD-approved street sweepers are used on all paved haul roads onsite as needed during rainy periods to reduce mud and during dry periods to reduce dust.	Maintain log demonstrating compliance.	Ongoing	CCL	LEA, LACPW	The majority of these emission reduction measures are included in the Fugitive Dust Control Program, submitted to LACPW on January 24, 2018, and again on August 15, 2019. CCL implemented the Fugitive Dust Control Program throughout 2020, and LACPW approved the Fugitive Dust Control Program on April 14, 2021. The Fugitive Dust Control Program includes a daily checklist (log) to demonstrate compliance, which is maintained by CCL. The compliance status of those emission reduction measures not included in the Fugitive Dust Control Program is described briefly below: • CCL operates an area for ongoing maintenance of engine-powered equipment • Electrically powered equipment is used to the extent feasible, as documented in the CCL Greenhouse Gas Reduction Program Report, approved by LACPW • No construction access roads have been required at CCL that are not paved at least 100 feet onto the site from the main road
Construction Emission Reduction Best Management Practices (BMPs): • The construction equipment, not owned by CCL, would be equipped with engines meeting California Air Resources Board (CARB) requirements for a large fleet at the time of construction (13 CCR 2449). • The construction equipment, not owned by CCL, would be equipped with engines meeting Tier 4f emission standards after Project year 2020. • Trucks would be prevented from idling longer than 5 minutes, to the extent feasible. • Construction equipment idling times and excessive use would be prevented, to the extent feasible. • Use of construction equipment would be suspended during Stage 2 and 3 smog alerts. • To reduce/minimize construction-related fugitive dust, water would be applied four to seven times daily, dependent on weather, within the construction site. • Fugitive dust from vehicle travel on unpaved roads would be controlled through the application of water 4 to 7 times daily, dependent on weather.	Maintain log demonstrating compliance.	During construction	CCL	LEA, LACPW	Construction BMPs were included in contractor bid specifications for construction in 2023 and fugitive dust emissions were fully controlled during construction activities.
Operation Emission Reduction BMPs: • Off-road diesel equipment purchased by CCL for operation of the Proposed Project (used for additional waste received) would be equipped with engines meeting Tier 4f emission standards. • Unnecessary truck and equipment idling would be limited to less than 5 minutes, to the extent feasible.	Maintain log demonstrating compliance.	During operation	CCL	LEA, LACPW	Many of these operation emission reduction BMPs are included in the Fugitive Dust Control Program, submitted to LACPW on January 24, 2018, and again on August 15, 2019. CCL implemented the Fugitive Dust Control Program throughout 2020, and LACPW approved the Fugitive Dust Control Program on April 14, 2021. The Fugitive Dust

Table F4. MMRP Compliance Status Summary
2023 Annual Compliance Report for Chiquita Canyon Landfill

Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
• Use of all off-road diesel equipment would be suspended during Stage 2 and 3 smog alerts (SCAQMD, 1993), to the extent feasible. • Fugitive dust BMPs for vehicle travel on paved roads, vehicle travel on unpaved roads, and soil disturbance would be the same as described above for construction. • Operate the landfill to improve landfill gas collection efficiency to a site-wide average of 85 percent through application of a combination of daily cover, intermediate cover, and final cover to provide a beneficial improvement in ongoing landfill gas collection efficiency. • The existing, approved landfill gas-to-energy (LFGTE) plant would be optimized to use collected landfill gas (LFG) as fuel to produce electricity and to minimize flaring of collected LFG.					Control Program includes a daily checklist (log) to demonstrate compliance, which is maintained by CCL. The compliance status of those operation emission reduction BMPs not included in the Fugitive Dust Control Program is described briefly below: • During the 2023 Reporting Period, no off-road diesel equipment was purchased. • No Stage 2 or Stage 3 smog alerts occurred during the 2023 Reporting Period • Landfill gas collection efficiency is discussed in Section 14 of this 2023 Annual Compliance Report.
Composting Emission Reduction BMPs: • Green waste composting piles would be covered with at least 6 inches of finished compost within 24 hours of initial pile formation. • Piles would not be turned for the first 7 days of active phase composting. • For the first 15 days of initial pile formation, and within 6 hours before turning, the top half of the pile would be kept wet to a depth of at least 3 inches. • Covered, aerated composting system would be equipped with an SCAQMD-approved emission control system (e.g., thermal oxidizer, bio-filtration) (SCAQMD, 2015). • Composting facility would implement a site-specific Odor Impact Minimization Plan (OIMP).	A. Maintain log demonstrating compliance.	During operation of composting facility	CCL	LACPW, SCAQMD, LEA	There was no composting facility at CCL during the 2023 Reporting Period.
	B. Implement site-specific OIMP.	During operation of composting facility	CCL	LACPW, SCAQMD, LEA	There was no composting facility at CCL during the 2023 Reporting Period.
Landfill Operation Odor Reduction Measure (ORM) **ORM-1:** For landfill operation, CCL shall develop an OIMP. The OIMP will describe an odor monitoring protocol, a description of meteorological conditions that affect migration of odors, a complaint response protocol, a description of design considerations for minimizing odors, and a description of operating procedures for minimizing odors.	A. Develop OIMP for approval by the responsible agencies	Within 3 months of receipt of Conditional Use Permit	CCL	SCAQMD, LEA, LACPW, LADRP	An Odor Impact Minimization Plan (OIMP) for landfill operation was submitted on October 25, 2017, to the SCAQMD, Department of Public Works and Department of Regional Planning per Odor Reduction Measure ORM-1, included in the MMRP. The OIMP was submitted on November 21, 2017, to the LEA and SCAQMD and again to the SCAQMD on November 28, 2017. Comments on the OIMP were received from LADRP on October 26, 2017, and from LADPW on October 3, 2018. A revised OIMP was submitted to LADRP and LADPW on February 1, 2019 and approved on March 6, 2019. CCL implemented the OIMP for landfill operation throughout 2023.
	B. Maintain log demonstrating compliance and implementing all remedial action as recommended by the responsible agencies	During operation of landfill	CCL	SCAQMD, LEA, LACPW, LADRP	CCL maintains an odor complaint log and implements corrective action as needed. See Appendix C for the complaint log for the 2023 Reporting Period. Remedial actions related to odor were implemented by CCL during the 2023 Reporting Period, as described in Section 12, Odor Control and Mitigation, of this 2023 Annual Compliance Monitoring Report.
Greenhouse Gas Emissions and Climate Change					
GHG-1: Beginning in 2020, the applicant shall provide the Department of Regional Planning with reports every 5 years, which shall evaluate consistency of landfill operations with current State and County greenhouse gas (GHG) emission reduction plans. If the Department of Regional Planning finds that a report demonstrates that landfill operations do not meet the GHG emission reduction targets of then-current State and County GHG emission reduction plans, the applicant shall develop and within one year submit to the Department of Regional Planning for review and approval of a GHG Emission Reduction Plan, which shall require implementation of additional feasible GHG emission reduction measures within the waste management sector to further reduce GHG emissions in accordance with	A. Provide reports evaluating consistency of landfill operations with current State and County GHG emission reduction plans	Beginning in 2020, and subsequently every 5 years	CCL	LADRP, LACPW, SCAQMD, LEA	During the 2020 Reporting Period, CCL prepared a Greenhouse Gas Emission Reduction Program Report to evaluate the consistency of landfill operation with current State and County greenhouse gas reduction plans. The report was provided to LADRP on December 30, 2020. LACPW provided comments on the draft report to CCL on February 10, 2021. CCL submitted a revised draft to LACPW on April 12, 2021, and LACPW approved the report on April 28, 2021.

Table F4. MMRP Compliance Status Summary

2023 Annual Compliance Report for Chiquita Canyon Landfill

Mitigation Measure / Project Design Measure	Action Required	Mitigation Timing	Responsible Party	Monitoring Agency or Party	Compliance Status
then-current State and County goals. The GHG Emission Reduction Plan may incorporate some or all of the following measures: • Further or additional composting; • Further or additional recycling; • Development of alternative energy, including additional landfill gas-to-energy production capacity and/or development of other on-site renewable energy generation capacity; • Use of alternative fuels in on-site equipment; or some combination of the listed strategies; and/or • Other waste management sector strategies developed by California Department of Resources Recycling and Recovery (CalRecycle) and CARB addressing GHG emissions from waste management	B. Develop GHG Emission Reduction Plan.	Within one year, if LADRP finds consistency reports demonstrate GHG emission reduction targets of then-current State and County GHG emission reduction plans are not met	CCL	LADRP, LACPW, SCAQMD, LEA	If the report described above demonstrates that landfill operation does not meet the GHG emission reduction targets of then-current State and County GHG emission reduction plans, CCL will develop a GHG Emission Reduction Plan that may incorporate all or some of the measures listed in MM GHG-1.
GHG-2: Following closure of the landfill, the applicant shall continue to operate, maintain, and monitor the landfill gas collection and control system as long as the landfill continues to produce landfill gas, or until it is determined that emissions no longer constitute a considerable contribution to GHG emissions, whichever comes first.	Maintain monitoring log of landfill gas collection and control system.	Following closure of the landfill	CCL / Operations Manager	SCAQMD, LACPW	CCL will maintain the landfill gas collection system following landfill closure, in conjunction with applicable post-closure activities, including maintaining a monitoring log.

Appendix G
Load Inspections

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR January 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion												Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
1/1/2023	SUN									-	0														-	-					-	0
1/2/2023	MON	4,566.80	206	170.17	17	382.29	62	1.50	3	5,120.76	288				290.69	12									291	12	16.67	1			5,428.12	301
1/3/2023	TUE	5,088.21	235	110.11	12	432.09	69	1.50	3	5,631.91	319				349.36	15									349	15					5,981.27	334
1/4/2023	WED	5,721.49	265	130.90	14	422.62	66	1.15	2	6,276.16	347				338.67	15									339	15	82.86	3			6,697.69	365
1/5/2023	THU	5,148.11	231	112.51	10	466.16	59			5,726.78	300				366.57	16									367	16					6,093.35	316
1/6/2023	FRI	6,469.93	298	252.61	26	565.20	84	2.00	4	7,289.74	412				360.03	16									360	16					7,649.77	428
1/7/2023	SAT	5,134.57	235	0.50	1	152.94	28	1.41	3	5,289.42	267	35,335			137.06	6									137	6	1,078.53	44			6,505.01	317
1/8/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
1/9/2023	MON	6,577.39	297	191.11	17	463.94	67	0.50	1	7,232.94	382				277.15	12									277	12					7,510.09	394
1/10/2023	TUE	6,296.83	285	186.77	18	311.72	53	0.50	1	6,795.82	357				177.60	8									178	8					6,973.42	365
1/11/2023	WED	7,236.29	327	156.97	15	631.20	90	2.00	4	8,026.46	436				407.04	18									407	18	23.44	1			8,456.94	455
1/12/2023	THU	6,902.16	313	91.92	8	555.57	80	3.39	7	7,553.04	408				441.32	19									441	19	520.10	22	25.45	2	8,539.91	451
1/13/2023	FRI	6,981.80	317	170.65	19	668.99	106	1.00	2	7,822.44	444				275.05	12									275	12	1,461.36	59	41.49	4	9,600.34	519
1/14/2023	SAT	5,286.68	241	15.75	2	98.54	22	5.02	7	5,405.99	272	42,837			189.47	8									189	8					5,595.46	280
1/15/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
1/16/2023	MON	7,177.31	325	89.86	10	557.04	79	1.50	3	7,825.71	417				326.43	14									326	14	79.25	3			8,231.39	434
1/17/2023	TUE	7,837.07	359	89.80	11	774.34	99	2.50	5	8,703.71	474				389.26	17									389	17	129.02	9			9,221.99	500
1/18/2023	WED	6,730.71	306	132.99	18	508.70	81	3.00	5	7,375.40	410				596.18	26									596	26	329.39	17			8,300.97	453
1/19/2023	THU	7,127.34	326	91.03	10	729.63	94	1.50	3	7,949.50	433				459.29	20									459	20	211.07	13			8,619.86	466
1/20/2023	FRI	7,226.70	330	218.78	27	872.03	122	1.00	2	8,318.51	481				320.74	14									321	14	1,508.94	56	116.11	8	10,264.30	559
1/21/2023	SAT	5,339.56	245	10.31	3	121.73	40	5.99	11	5,477.59	299	45,650			269.81	14									270	14	2,596.36	102			8,343.76	415
1/22/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
1/23/2023	MON	6,875.76	318	118.38	14	996.75	141	4.97	9	7,995.86	482				362.06	16									362	16	3,033.54	111			11,391.46	609
1/24/2023	TUE	6,870.20	318	72.63	9	765.85	107	0.50	1	7,709.18	435				586.62	26									587	26	1,426.87	50			9,722.67	511
1/25/2023	WED	6,113.78	287	114.26	14	736.67	120	2.49	4	6,967.20	425				677.74	30									678	30	2,773.67	112			10,418.61	567
1/26/2023	THU	6,775.34	318	68.71	7	589.82	110	3.00	6	7,436.87	441				579.62	26									580	26	1,103.00	46	145.43	10	9,264.92	523
1/27/2023	FRI	6,260.66	294	138.06	18	794.73	119	1.65	4	7,195.10	435				652.85	29									653	29	1,812.17	78			9,660.12	542
1/28/2023	SAT	5,039.16	235	9.70	1	270.60	64	13.62	16	5,333.08	316	42,637			230.51	10									231	10	41.95	2			5,605.54	328
1/29/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
1/30/2023	MON	6,021.38	278	161.05	20	564.76	97	1.00	2	6,748.19	397				509.69	22									510	22	70.98	5			7,328.86	424
1/31/2023	TUE	6,839.31	316	139.78	16	627.66	108	2.50	5	7,609.25	445				628.34	28									628	28	1,144.45	66	51.95	2	9,433.99	541
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
	FRI									-	0														-	-					-	0
	SAT									-	0	14,357													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		163,644.54	7,505	3,045.31	337	14,061.57	2,167	65.19	113	180,816.61	10,122		-	-	10,199.15	449	-	-	-	-	-	-	-	-	10,199	449	19,443.62	800	380.43	26	210,839.81	11,397

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**961,800**
Disposal, tons	**180,817**
Diversion, tons	**10,199**
Soils, tons	**19,824**
Total	**210,840**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR February 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion													Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
2/1/2023	WED	6,708.41	313	109.43	13	721.25	133			7,539.09	459				519.99	23									520	23	2,850.77	118			10,909.85	600
2/2/2023	THU	7,134.98	334	79.08	9	988.53	115	1.00	2	8,203.59	460				408.51	18									409	18	3,373.91	141			11,986.01	619
2/3/2023	FRI	6,726.16	315	225.63	27	963.97	145	2.71	5	7,918.47	492				675.75	29									676	29	528.91	25			9,123.13	546
2/4/2023	SAT	4,078.00	190	0.50	1	295.58	50	4.50	9	4,378.58	250	42,397			313.29	14									313	14	524.60	21			5,216.47	285
2/5/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
2/6/2023	MON	6,055.18	288	213.69	22	719.17	126	4.45	7	6,992.49	443				242.62	11									243	11	377.93	23	20.98	2	7,634.02	479
2/7/2023	TUE	6,390.49	297	86.12	12	1,111.51	142	1.49	2	7,589.61	453				446.29	20									446	20					8,035.90	473
2/8/2023	WED	5,853.45	272	114.97	16	1,071.80	142	2.77	4	7,042.99	434				473.79	21									474	21	905.41	45	10.25	1	8,432.44	501
2/9/2023	THU	3,647.00	170	97.55	12	1,006.39	112	3.71	5	4,754.65	299				426.18	19									426	19	62.83	3			5,243.66	321
2/10/2023	FRI	5,827.10	272	155.69	20	959.96	131	4.13	5	6,946.88	428				448.09	20									448	20	282.28	16	203.67	14	7,880.92	478
2/11/2023	SAT	4,150.51	197	0.96	2	406.87	54	12.99	15	4,571.33	268	37,898			128.19	6									128	6	1,007.10	41			5,706.62	315
2/12/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
2/13/2023	MON	5,717.66	264	221.77	26	971.83	128	2.97	6	6,914.23	424				361.87	16									362	16			15.57	1	7,291.67	441
2/14/2023	TUE	6,764.07	319	82.53	11	1,242.56	150	2.00	4	8,091.16	484				470.97	21									471	21	419.10	18	59.87	3	9,041.10	526
2/15/2023	WED	6,412.79	304	114.89	16	1,101.47	127	2.53	1	7,631.68	448				727.33	32									727	32	376.59	19			8,735.60	499
2/16/2023	THU	6,694.43	319	123.48	14	1,117.32	126	4.28	6	7,939.51	465				550.61	24									551	24	41.07	2	16.05	1	8,547.24	492
2/17/2023	FRI	5,398.27	257	198.12	25	1,289.27	153	1.50	3	6,887.16	438				562.22	24									562	24	277.97	19	38.07	2	7,765.42	483
2/18/2023	SAT	4,705.77	225	0.50	1	149.87	39	4.64	5	4,860.78	270	42,325			132.65	6									133	6					4,993.43	276
2/19/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
2/20/2023	MON	6,391.96	304	154.83	21	859.91	127	5.01	10	7,411.71	462				300.40	13									300	13	369.56	18			8,081.67	493
2/21/2023	TUE	6,535.21	309	163.75	19	1,284.46	165	2.41	5	7,985.83	498				391.38	17									391	17	1,159.01	50			9,536.22	565
2/22/2023	WED	6,145.04	291	115.93	15	936.66	134	3.89	8	7,201.52	448				451.95	20									452	20	281.10	15	23.21	2	7,957.78	485
2/23/2023	THU	5,070.04	241	221.48	27	635.83	102	1.68	3	5,929.03	373				405.89	18									406	18	56.26	14			6,391.18	405
2/24/2023	FRI	5,605.71	264	181.87	23	515.03	74			6,302.61	361				229.67	10									230	10	55.95	12			6,588.23	383
2/25/2023	SAT	2,520.38	117	16.54	2	192.69	23	0.50	1	2,730.11	143	37,561			89.00	4									89	4					2,819.11	147
2/26/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
2/27/2023	MON	5,583.27	261	195.88	19	459.59	64	3.58	3	6,242.32	347				185.28	8									185	8					6,427.60	355
2/28/2023	TUE	6,872.54	316	223.24	25	448.29	80	3.00	6	7,547.07	427				300.18	13									300	13			8.51	1	7,855.76	441
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
	FRI									-	0														-	-					-	0
	SAT									-	0	13,789																			-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		136,988.42	6,439	3,098.43	378	19,449.81	2,642	75.74	115	159,612.40	9,574		-	-	9,242.10	407	-	-	-	-	-	-	-	-	9,242	407	12,950.35	600	396.18	27	182,201.03	10,608

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,373,274**
Disposal, tons	**159,612**
Diversion, tons	**9,242**
Soils, tons	**13,347**
Total	**182,201**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR March 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion													Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
3/1/2023	WED	7,096.43	329	149.63	19	490.64	80			7,736.70	428				394.13	17									394	17	65.86	8	49.07	4	8,245.76	457
3/2/2023	THU	6,300.34	296	102.06	10	882.18	85	2.50	5	7,287.08	396				342.57	15									343	15	64.47	5	77.15	6	7,771.27	422
3/3/2023	FRI	6,901.77	317	222.02	23	1,687.65	178	2.50	5	8,813.94	523				249.30	11									249	11	43.65	2	301.87	19	9,408.76	555
3/4/2023	SAT	4,787.78	227	21.17	4	981.37	92	124.82	203	5,915.14	526	43,542			151.93	7									152	7	98.53	8	293.13	19	6,458.73	560
3/5/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
3/6/2023	MON	6,512.13	300	158.46	18	2,011.04	184	5.48	5	8,687.11	507				360.05	16									360	16	347.59	24	51.42	3	9,446.17	550
3/7/2023	TUE	6,412.01	295	181.90	20	2,005.77	177	5.13	8	8,604.81	500				407.30	18									407	18	823.02	49	61.52	4	9,896.65	571
3/8/2023	WED	6,725.06	311	114.23	13	2,009.37	197	0.55	1	8,849.21	522				392.16	17									392	17	512.46	35			9,753.83	574
3/9/2023	THU	6,261.63	288	64.11	6	1,530.99	155	2.00	3	7,858.73	452				301.28	13									301	13	753.81	48			8,913.82	513
3/10/2023	FRI	6,050.33	277	218.64	26	391.01	74	3.75	1	6,663.73	378				228.38	10									228	10	17.03	1			6,909.14	389
3/11/2023	SAT	4,740.29	213	7.78	1	390.49	47	7.70	9	5,146.26	270	45,810			111.12	5									111	5					5,257.38	275
3/12/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
3/13/2023	MON	6,440.72	293	191.66	21	894.25	124	3.44	7	7,530.07	445				321.17	14									321	14	50.49	3	52.33	3	7,954.06	465
3/14/2023	TUE	6,881.99	312	97.05	10	584.70	82	1.00	2	7,564.74	406				215.10	10									215	10					7,779.84	416
3/15/2023	WED	6,999.05	319	91.67	12	614.58	81	0.50	1	7,705.80	413				347.77	15									348	15					8,053.57	428
3/16/2023	THU	6,837.68	312	57.76	6	965.26	120	3.29	6	7,863.99	444				381.70	17									382	17	45.28	2			8,290.97	463
3/17/2023	FRI	7,007.50	326	169.36	21	1,397.75	159	0.50	1	8,575.11	507				272.81	12									273	12	309.67	20			9,157.59	539
3/18/2023	SAT	4,581.43	211	0.17	1	708.45	96	4.60	7	5,294.65	315	44,534			141.04	6									141	6	166.43	11			5,602.12	332
3/19/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
3/20/2023	MON	5,558.87	254	88.69	11	926.23	113	3.28	4	6,577.07	382				364.29	16									364	16	212.39	10			7,153.75	408
3/21/2023	TUE	3,602.96	164	108.95	12	246.21	42	2.50	5	3,960.62	223				179.90	8									180	8	62.83	3			4,203.35	234
3/22/2023	WED	5,600.05	254	130.15	13	306.45	58	1.50	3	6,038.15	328				295.63	13									296	13					6,333.78	341
3/23/2023	THU	6,295.61	286	91.68	10	697.14	79	1.76	3	7,086.19	378				320.77	14									321	14					7,406.96	392
3/24/2023	FRI	5,506.23	256	135.95	16	410.90	61	3.00	6	6,056.08	339				201.87	9									202	9	14.25	1			6,272.20	349
3/25/2023	SAT	5,255.34	248	15.16	3	351.81	49	6.00	12	5,628.31	312	35,346			178.57	8									179	8					5,806.88	320
3/26/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
3/27/2023	MON	7,204.66	334	106.18	13	1,276.85	152	6.39	8	8,594.08	507				473.48	21									473	21	326.97	21			9,394.53	549
3/28/2023	TUE	6,601.16	306	121.87	16	1,295.78	176	3.72	5	8,022.53	503				870.93	38									871	38	974.42	56	39.59	3	9,907.47	600
3/29/2023	WED	6,874.34	317	110.95	14	592.28	79	1.70	1	7,579.27	411				470.49	20									470	20			26.41	2	8,076.17	433
3/30/2023	THU	6,775.01	311	58.27	6	494.39	71	2.00	4	7,329.67	392				454.95	20									455	20		5	79.31	5	7,863.93	422
3/31/2023	FRI	6,203.77	287	209.97	23	1,288.70	145	3.00	6	7,705.44	461				399.57	17									400	17	370.33	26	133.75	8	8,609.09	512
	SAT									-	0	39,231													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		166,014.14	7,643	3,025.49	348	25,432.24	2,956	202.61	321	194,674.48	11,268		-	-	8,828.26	387	-	-	-	-	-	-	-	-	8,828	387	5,259.48	338	1,165.55	76	209,927.77	12,069

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,438,416**
Disposal, tons	**194,674**
Diversion, tons	**8,828**
Soils, tons	**6,425**
Total	**209,928**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR April 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion														Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
	FRI									-	0														-	-					-	0
4/1/2023	SAT	5,153.64	242	25.16	4	859.59	80	1.94	4	6,040.33	330	45,271			307.38	13									307	13	99.38	7			6,447.09	350
4/2/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
4/3/2023	MON	6,552.42	300	218.15	25	868.98	139	2.89	7	7,642.44	471				272.12	12									272	12	1,528.73	83	80.75	5	9,524.04	571
4/4/2023	TUE	7,130.65	331	136.73	17	806.35	139	7.93	6	8,081.66	493				265.40	12									265	12	290.30	19	61.25	4	8,698.61	528
4/5/2023	WED	6,960.36	322	118.01	14	817.32	135	1.00	2	7,896.69	473				495.12	22									495	22	391.41	22			8,783.22	517
4/6/2023	THU	6,501.01	307	71.62	8	571.72	102	2.10	4	7,146.45	421				316.60	14									317	14	2,059.72	91			9,522.77	526
4/7/2023	FRI	6,090.03	284	143.55	18	1,389.23	163	3.50	7	7,626.31	472				266.76	12									267	12	989.37	45			8,882.44	529
4/8/2023	SAT	5,016.86	231	10.00	2	681.27	67	7.56	14	5,715.69	314	44,109			110.17	5									110	5			139.06	10	5,964.92	329
4/9/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
4/10/2023	MON	7,563.68	352	169.73	20	454.93	99	1.50	3	8,189.84	474				328.55	15									329	15	556.77	27	49.97	3	9,125.13	519
4/11/2023	TUE	7,218.96	333	93.64	10	609.87	97	2.83	4	7,925.30	444				426.90	19									427	19	1,172.18	54	57.21	4	9,581.59	521
4/12/2023	WED	6,964.21	320	128.89	15	693.87	116	1.00	2	7,787.97	453				497.48	24									497	24	966.20	56	67.94	4	9,319.59	537
4/13/2023	THU	6,998.73	324	93.46	9	1,517.73	175	2.37	5	8,612.29	513				375.69	17									376	17	1,380.87	77	36.57	2	10,405.42	609
4/14/2023	FRI	6,532.64	304	113.85	12	997.54	132	3.00	6	7,647.03	454				444.84	20									445	20	1,374.54	71			9,466.41	545
4/15/2023	SAT	4,333.81	199	37.60	5	220.50	56	3.41	6	4,595.32	266	44,758			109.01	5									109	5	94.31	7			4,798.64	278
4/16/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
4/17/2023	MON	7,310.12	332	130.59	15	662.31	109	4.50	9	8,107.52	465				333.65	15									334	15	1,377.36	76			9,818.53	556
4/18/2023	TUE	7,595.03	345	118.94	13	610.63	123	4.94	8	8,329.54	489				297.77	14									298	14	1,246.30	70	18.72	1	9,892.33	574
4/19/2023	WED	7,103.12	324	137.85	16	871.49	134	3.02	4	8,115.48	478				353.99	16									354	16	989.98	53			9,459.45	547
4/20/2023	THU	7,043.23	321	104.56	11	1,267.44	148	1.50	3	8,416.73	483				449.66	20									450	20	1,750.78	86	111.06	7	10,728.23	596
4/21/2023	FRI	6,518.79	299	147.24	17	790.81	138	3.47	3	7,460.31	457				690.29	30									690	30	870.68	54	61.24	3	9,082.52	544
4/22/2023	SAT	4,884.14	226	9.14	1	838.76	94	15.81	25	5,747.85	346	46,177			204.31	8									204	8					5,952.16	354
4/23/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
4/24/2023	MON	6,419.24	298	156.95	19	1,333.98	176	5.34	7	7,915.51	500				534.98	25									535	25	2,068.50	105	62.63	3	10,581.62	633
4/25/2023	TUE	7,374.41	338	110.59	12	998.66	147	1.50	3	8,485.16	500				563.07	24									563	24	532.48	26			9,580.71	550
4/26/2023	WED	7,295.17	336	132.98	17	951.79	143	2.15	4	8,382.09	500				469.46	21									469	21	803.85	36			9,655.40	557
4/27/2023	THU	7,044.79	326	90.41	9	1,165.12	142	1.50	3	8,301.82	480				379.24	17									379	17	448.82	21	11.86	1	9,141.74	519
4/28/2023	FRI	6,860.07	325	170.93	21	557.75	137	5.55	6	7,594.30	489				528.19	22									528	22	795.34	49			8,917.83	560
4/29/2023	SAT	4,801.93	220	10.69	2	239.17	46	12.31	25	5,064.10	293	45,743			75.41	3									75	3	15.28	1			5,154.79	297
4/30/2023	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		163,267.04	7,539	2,681.26	312	20,776.81	3,037	102.62	170	186,827.73	11,058		-	-	9,096.04	405	-	-	-	-	-	-	-	-	9,096	405	21,803.15	1,136	758.26	47	218,485.18	12,646

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,803,606**
Disposal, tons	**186,828**
Diversion, tons	**9,096**
Soils, tons	**22,561**
Total	**218,485**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR May 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion														Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
5/1/2023	MON	6,913.36	319	117.82	16	876.59	152	2.00	4	7,909.77	491				449.88	19									450	19	910.00	35	42.03	2	9,311.68	547
5/2/2023	TUE	7,309.59	336	144.63	18	686.44	122	2.23	4	8,142.89	480				549.54	24									550	24	378.94	19			9,071.37	523
5/3/2023	WED	7,001.11	323	87.20	12	821.75	143	2.37	5	7,912.43	483				565.72	24									566	24	47.67	2	80.18	5	8,606.00	514
5/4/2023	THU	4,971.10	228	66.22	7	534.50	63	1.44	3	5,573.26	301				211.90	9									212	9	151.96	10	60.86	4	5,997.98	324
5/5/2023	FRI	5,867.58	271	190.33	20	675.13	103	2.84	6	6,735.88	400				361.35	15									361	15	92.36	6			7,189.59	421
5/6/2023	SAT	4,443.24	205	49.25	7	451.05	56	6.79	13	4,950.33	281	41,225			147.41	7									147	7	112.13	8	170.30	11	5,380.17	307
5/7/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
5/8/2023	MON	6,861.07	317	258.66	29	943.94	152	2.59	6	8,066.26	504				313.28	14									313	14	253.01	17			8,632.55	535
5/9/2023	TUE	7,752.31	363	74.11	10	830.41	144	4.00	8	8,660.83	525				336.90	15									337	15	874.27	41	63.55	4	9,935.55	585
5/10/2023	WED	7,294.47	341	240.46	26	697.98	125	7.57	5	8,240.48	497				313.35	14									313	14	1,909.47	80			10,463.30	591
5/11/2023	THU	6,427.05	304	109.07	13	648.76	115	3.00	6	7,187.88	438				445.85	20									446	20	2,605.11	103			10,238.84	561
5/12/2023	FRI	6,137.36	288	248.17	31	777.91	156	3.11	3	7,166.55	478				586.35	25									586	25	1,992.22	87	56.10	3	9,801.22	593
5/13/2023	SAT	4,468.29	210	8.28	2	196.25	43	6.27	13	4,679.09	268	44,001			156.81	7									157	7	64.85	4			4,900.75	279
5/14/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
5/15/2023	MON	6,790.45	319	244.33	28	896.54	167	5.00	7	7,936.32	521				550.76	24									551	24	2,038.75	87	19.00	1	10,544.83	633
5/16/2023	TUE	7,337.75	341	76.65	10	514.53	115	3.90	6	7,932.83	472				560.14	24									560	24	1,716.29	71	74.71	5	10,283.97	572
5/17/2023	WED	6,812.26	314	230.54	25	540.91	109	6.25	9	7,589.96	457				417.31	18									417	18	182.09	13	90.85	6	8,280.21	494
5/18/2023	THU	6,401.07	300	119.04	14	523.86	120	3.86	7	7,047.83	441				454.55	20									455	20	593.18	28			8,095.56	489
5/19/2023	FRI	6,640.42	312	257.64	27	501.51	112	3.50	7	7,403.07	458				263.44	12									263	12	1,046.99	47	15.66	1	8,729.16	518
5/20/2023	SAT	4,791.96	220	35.80	4	175.23	55	12.57	24	5,015.56	303	42,926			221.75	10									222	10	30.36	2			5,267.67	315
5/21/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
5/22/2023	MON	6,431.38	296	263.08	27	1,064.72	155	3.62	8	7,762.80	486				289.56	13									290	13	685.58	43			8,737.94	542
5/23/2023	TUE	6,450.33	298	276.61	27	1,015.66	138	4.21	8	7,746.81	471				272.46	12									272	12	906.66	49	45.27	3	8,971.20	535
5/24/2023	WED	6,610.43	307	244.42	26	1,105.89	149	1.00	2	7,961.74	484				561.51	25									562	25	395.87	24	9.60	1	8,928.72	534
5/25/2023	THU	6,936.05	326	116.36	12	1,058.46	151	1.70	4	8,112.57	493				471.63	21									472	21	354.50	18			8,938.70	532
5/26/2023	FRI	6,452.70	301	251.63	25	829.45	135	4.08	7	7,537.86	468				401.88	18									402	18	248.94	18			8,188.68	504
5/27/2023	SAT	4,309.71	200	81.84	12	435.30	60	6.65	12	4,833.50	284	43,955			156.81	7									157	7					4,990.31	291
5/28/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
5/29/2023	MON									-	0														-	-					-	0
5/30/2023	TUE	7,683.46	356	315.83	29	1,147.75	172	4.94	8	9,151.98	565				311.33	14									311	14	2.49	1	234.30	17	9,700.10	597
5/31/2023	WED	6,955.18	328	321.84	29	1,024.28	152	1.61	3	8,302.91	512				304.90	14									305	14	627.92	38			9,235.73	564
	THU									-	0														-	-					-	0
	FRI									-	0														-	-					-	0
	SAT									-	0	17,455													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		166,049.68	7,723	4,429.81	486	18,974.80	3,164	107.10	188	189,561.39	11,561		-	-	9,676.37	425	-	-	-	-	-	-	-	-	9,676	425	18,221.61	851	962.41	63	218,421.78	12,900

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,914,696**
Disposal, tons	**189,561**
Diversion, tons	**9,676**
Soils, tons	**19,184**
Total	**218,422**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR June 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion												Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
	WED									-	0														-	-					-	0
6/1/2023	THU	7,303.87	339	290.18	28	1,506.45	171	0.50	1	9,101.00	539				445.52	20									446	20	942.84	45			10,489.36	604
6/2/2023	FRI	7,190.95	336	202.76	18	1,596.46	201	2.35	4	8,992.52	559				726.43	32									726	32	1,682.61	76			11,401.56	667
6/3/2023	SAT	5,473.15	255	378.91	36	492.76	78	212.99	304	6,557.81	673	42,106			247.10	11									247	11	162.48	9	12.68	1	6,980.07	694
6/4/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
6/5/2023	MON	7,450.26	350	244.00	30	671.60	134	5.19	8	8,371.05	522				294.04	13									294	13	254.07	19	78.26	4	8,997.42	558
6/6/2023	TUE	7,560.10	353	222.29	27	917.17	135	5.89	9	8,705.45	524				363.78	16									364	16	345.69	22	49.24	3	9,464.16	565
6/7/2023	WED	6,293.74	296	220.15	26	733.37	131	9.63	9	7,256.89	462				409.44	18									409	18	999.17	43	78.94	5	8,744.44	528
6/8/2023	THU	6,096.74	285	152.26	16	855.11	130	7.09	8	7,111.20	439				388.96	17									389	17	158.47	12	103.63	6	7,762.26	474
6/9/2023	FRI	5,915.08	279	263.76	32	941.26	136	2.00	4	7,122.10	451				331.77	15									332	15	273.32	19	105.40	7	7,832.59	492
6/10/2023	SAT	3,942.52	184	4.11	3	318.36	59	5.31	10	4,270.30	256	42,837			154.43	7									154	7	16.70	1			4,441.43	264
6/11/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
6/12/2023	MON	6,758.47	310	272.65	29	1,010.15	151	4.19	8	8,045.46	498				343.96	15									344	15	875.09	41	67.95	3	9,332.46	557
6/13/2023	TUE	7,209.95	334	246.36	27	676.72	134	2.00	4	8,135.03	499				368.02	16									368	16	956.13	47			9,459.18	562
6/14/2023	WED	6,485.80	303	248.70	27	790.84	123	1.50	3	7,526.84	456				473.74	21									474	21	460.29	22			8,460.87	499
6/15/2023	THU	6,034.57	283	216.95	22	781.82	123	2.50	5	7,035.84	433				384.10	17									384	17	117.14	8			7,537.08	458
6/16/2023	FRI	5,644.18	263	268.47	31	716.56	121	3.55	7	6,632.76	422				372.07	16									372	16	292.23	18	40.75	2	7,337.81	458
6/17/2023	SAT	4,075.34	188	3.49	1	536.54	71	3.90	6	4,619.27	266	41,995			93.20	4									93	4	141.49	10			4,853.96	280
6/18/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
6/19/2023	MON	7,186.21	331	260.51	31	1,388.75	179	2.00	4	8,837.47	545				483.95	20									484	20	312.41	21			9,633.83	586
6/20/2023	TUE	7,591.66	354	243.17	28	634.88	105	7.28	9	8,476.99	496				428.19	18									428	18	760.04	39			9,665.22	553
6/21/2023	WED	6,316.59	297	222.96	25	609.90	124	3.00	6	7,152.45	452				456.87	20									457	20	742.43	31			8,351.75	503
6/22/2023	THU	6,685.25	314	193.85	22	706.72	125	3.00	6	7,588.82	467				242.12	10									242	10	904.58	40	50.71	3	8,786.23	520
6/23/2023	FRI	6,386.82	301	274.00	31	582.70	128	6.89	9	7,250.41	469				349.27	15									349	15	93.96	6	53.49	3	7,747.13	493
6/24/2023	SAT	4,570.18	214	0.50	1	618.69	89	4.32	9	5,193.69	313	44,500			261.80	11									262	11	22.71	2			5,478.20	326
6/25/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
6/26/2023	MON	5,943.98	276	239.31	26	1,204.48	189	6.49	12	7,394.26	503				319.37	14									319	14	63.05	6	294.01	18	8,070.69	541
6/27/2023	TUE	6,776.27	315	165.92	23	902.08	143	6.12	11	7,850.39	492				433.20	19									433	19	380.92	17			8,664.51	528
6/28/2023	WED	6,289.96	292	201.80	23	849.36	130	2.00	4	7,343.12	449				477.31	21									477	21	146.11	10	67.06	4	8,033.60	484
6/29/2023	THU	6,511.38	300	140.72	16	531.86	127	2.72	5	7,186.68	448				404.46	18									404	18	180.78	13			7,771.92	479
6/30/2023	FRI	6,408.78	299	210.92	25	470.93	121	3.00	6	7,093.63	451				363.35	16									363	16	514.88	30	82.37	6	8,054.23	503
	SAT									-	0	36,868													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		164,101.80	7,651	5,388.70	604	21,045.52	3,358	315.41	471	190,851.43	12,084		-	-	9,616.45	420	-	-	-	-	-	-	-	-	9,616	420	11,799.59	607	1,084.49	65	213,351.96	13,176

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,830,696**
Disposal, tons	**190,851**
Diversion, tons	**9,616**
Soils, tons	**12,884**
Total	**213,352**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR July 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion														Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
	FRI									-	0														-	-					-	0
7/1/2023	SAT	4,408.11	203	0.50	1	199.99	49	13.71	22	4,622.31	275	41,490			177.42	8									177	8	28.21	1			4,827.94	284
7/2/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
7/3/2023	MON	6,159.50	283	238.19	28	441.26	100	8.18	16	6,847.13	427				395.31	17									395	17	136.99	8			7,379.43	452
7/4/2023	TUE									-	0														-	-					-	0
7/5/2023	WED	6,608.24	304	304.99	33	537.52	114	2.00	4	7,452.75	455				409.03	18									409	18	244.57	16			8,106.35	489
7/6/2023	THU	6,917.56	321	298.24	29	651.05	134	2.50	5	7,869.35	489				434.48	19									434	19	568.39	28	10.81	1	8,883.03	537
7/7/2023	FRI	6,332.17	297	271.07	28	606.97	125	7.82	13	7,218.03	463				452.40	20									452	20	480.12	25	93.00	6	8,243.55	514
7/8/2023	SAT	5,493.55	256	362.32	37	412.70	91	3.50	7	6,272.07	391	35,659			115.96	5									116	5					6,388.03	396
7/9/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
7/10/2023	MON	6,437.74	296	271.65	32	712.98	151	6.45	11	7,428.82	490				267.80	12									268	12	266.56	18	16.27	1	7,979.45	521
7/11/2023	TUE	7,072.17	326	288.87	34	603.24	124	2.06	4	7,966.34	488				528.46	23									528	23	273.69	15	50.74	4	8,819.23	530
7/12/2023	WED	6,594.18	305	245.22	31	645.02	124	5.15	9	7,489.57	469				397.85	17									398	17	804.88	36	12.23	1	8,704.53	523
7/13/2023	THU	6,265.60	292	226.93	28	477.93	109	3.54	5	6,974.00	434				379.95	17									380	17	249.90	18	8.67	1	7,612.52	470
7/14/2023	FRI	6,099.68	282	231.87	32	557.09	119	2.24	4	6,890.88	437				420.66	19									421	19	599.46	28			7,911.00	484
7/15/2023	SAT	3,967.99	185	23.74	5	435.81	65	7.35	13	4,434.89	268	41,185			112.80	5									113	5	116.51	5			4,664.20	278
7/16/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
7/17/2023	MON	6,586.60	307	231.45	29	857.97	131	2.07	2	7,678.09	469				247.58	11									248	11	416.73	19			8,342.40	499
7/18/2023	TUE	6,358.34	297	257.21	30	781.90	132	1.89	4	7,399.34	463				474.56	21									475	21	211.14	12			8,085.04	496
7/19/2023	WED	6,527.66	302	261.32	31	587.70	124	2.11	4	7,378.79	461				605.81	27									606	27	185.63	11	17.58	1	8,187.81	500
7/20/2023	THU	6,020.81	282	268.47	29	619.69	130	3.00	6	6,911.97	447				397.32	18									397	18	1,015.75	51	42.76	3	8,367.80	519
7/21/2023	FRI	6,072.63	286	230.64	30	765.59	140	1.00	2	7,069.86	458				383.38	17									383	17	929.51	40			8,382.75	515
7/22/2023	SAT	3,993.87	184	3.60	2	331.28	57	7.03	12	4,335.78	255	40,774			208.76	9									209	9					4,544.54	264
7/23/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
7/24/2023	MON	6,311.39	296	221.70	29	700.78	117	4.50	9	7,238.37	451				394.03	17									394	17	999.69	40			8,632.09	508
7/25/2023	TUE	7,239.56	337	273.46	33	1,152.69	229	3.50	7	8,669.21	606				312.55	14									313	14	247.77	11			9,229.53	631
7/26/2023	WED	6,754.55	315	219.21	27	780.30	179	5.20	7	7,759.26	528				493.43	22									493	22	90.08	6	62.76	3	8,405.53	559
7/27/2023	THU	6,279.38	292	242.55	29	627.59	159	2.31	5	7,151.83	485				537.69	24									538	24	206.83	11	21.68	1	7,918.03	521
7/28/2023	FRI	6,356.15	295	256.73	33	1,082.77	243	1.50	3	7,697.15	574				457.86	20									458	20	806.13	40	40.61	3	9,001.75	637
7/29/2023	SAT	4,205.83	193	20.91	4	227.54	55	5.82	10	4,460.10	262	42,976			243.44	11									243	11	25.21	1			4,728.75	274
7/30/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
7/31/2023	MON	5,802.66	271	205.37	28	741.94	180	5.36	7	6,755.33	486	6,755			458.39	20									458	20					7,213.72	506
TOTAL		150,865.92	7,007	5,456.21	652	15,539.30	3,181	109.79	191	171,971.22	11,031		-	-	9,306.92	411	-	-	-	-	-	-	-	-	9,307	411	8,903.75	440	377.11	25	190,559.00	11,907

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,899,156**
Disposal, tons	**171,971**
Diversion, tons	**9,307**
Soils, tons	**9,281**
Total	**190,559**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR August 2023

DATE		Inbound Material																												Total Daily Inbound	
		Disposal										Diversion														Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
8/1/2023	TUE	6,992.76	320	255.91	30	562.28	129	0.50	1	7,811.45	480				457.68	20									458	20	436.20	25			8,705.33	525
8/2/2023	WED	6,894.26	323	238.03	28	608.56	158	2.00	4	7,742.85	513				387.45	17									387	17	651.51	42			8,781.81	572
8/3/2023	THU	6,205.92	288	270.46	30	529.57	122	6.63	11	7,012.58	451				426.88	19									427	19	1,394.74	72			8,834.20	542
8/4/2023	FRI	5,754.81	267	230.54	27	489.75	101	4.30	6	6,479.40	401				450.60	20									451	20	661.66	40			7,591.66	461
8/5/2023	SAT	3,833.97	178	32.85	7	197.79	48	6.74	10	4,071.35	243	39,873			158.50	7									159	7					4,229.85	250
8/6/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
8/7/2023	MON	6,230.48	289	233.53	31	903.37	145	2.19	4	7,369.57	469				453.59	20									454	20	1,062.91	53			8,886.07	542
8/8/2023	TUE	6,776.51	311	255.20	31	508.83	93	0.50	1	7,541.04	436				408.08	18									408	18	161.99	15			8,111.11	469
8/9/2023	WED	6,469.32	297	238.41	29	717.16	124	8.29	10	7,433.18	460				596.90	26									597	26	705.42	41			8,735.50	527
8/10/2023	THU	6,017.25	281	214.53	24	565.96	102	6.62	7	6,804.36	414				454.64	20									455	20	707.20	43	14.69	1	7,980.89	478
8/11/2023	FRI	5,881.96	273	238.05	29	618.27	116	3.39	7	6,741.67	425				317.46	14									317	14	1,994.79	85	15.56	1	9,069.48	525
8/12/2023	SAT	4,726.27	216	30.34	3	276.65	55	8.18	14	5,041.44	288	40,931			112.54	5									113	5					5,153.98	293
8/13/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
8/14/2023	MON	5,997.05	274	224.48	28	628.16	124	2.95	6	6,852.64	432				408.18	18									408	18	836.50	32			8,097.32	482
8/15/2023	TUE	6,631.02	307	277.56	32	535.63	112	1.74	4	7,445.95	455				423.14	19									423	19	596.33	40			8,465.42	514
8/16/2023	WED	6,269.33	290	235.58	27	548.15	100	1.50	3	7,054.56	420				454.08	20									454	20	1,559.89	76	90.84	6	9,159.37	522
8/17/2023	THU	6,355.63	294	190.00	22	793.27	122	2.30	3	7,341.20	441				335.20	15									335	15	1,674.84	79			9,351.24	535
8/18/2023	FRI	5,778.21	268	255.20	33	1,210.77	163	1.54	4	7,245.72	468				408.85	18									409	18	2,329.92	117	42.30	2	10,026.79	605
8/19/2023	SAT	4,289.60	201	54.68	9	236.17	72	11.97	20	4,592.42	302	40,532			89.25	4									89	4	310.16	16			4,991.83	322
8/20/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
8/21/2023	MON									-	0														-	-					-	0
8/22/2023	TUE	6,015.01	280	273.20	29	639.84	62	5.21	9	6,933.26	380				475.33	21									475	21	6.52	1	55.86	3	7,470.97	405
8/23/2023	WED	7,575.87	352	238.04	27	1,173.52	122	1.50	3	8,988.93	504				297.69	13									298	13	910.53	38	34.44	2	10,231.59	557
8/24/2023	THU	7,511.37	346	251.01	26	1,559.99	171	2.50	5	9,324.87	548				356.63	16									357	16	1,678.78	75			11,360.28	639
8/25/2023	FRI	7,132.37	326	191.17	21	1,139.06	146	6.54	7	8,469.14	500				329.02	15									329	15	1,206.65	56	114.82	8	10,119.63	579
8/26/2023	SAT	6,348.48	290	10.44	3	285.70	48	8.17	15	6,652.79	356	40,369			361.66	16									362	16	27.12	1			7,041.57	373
8/27/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
8/28/2023	MON	8,203.04	378	226.13	28	1,066.89	152	5.77	9	9,501.83	567				222.94	10									223	10	1,064.23	49			10,789.00	626
8/29/2023	TUE	7,701.17	353	262.97	32	1,001.02	136	3.00	6	8,968.16	527				467.31	21									467	21	1,154.72	51			10,590.19	599
8/30/2023	WED	7,684.08	352	237.35	30	726.19	124	2.50	5	8,650.12	511				497.25	22									497	22	1,419.13	63			10,566.50	596
8/31/2023	THU	7,592.68	349	214.78	24	795.64	122	4.38	6	8,607.48	501				319.19	14									319	14	1,318.08	70			10,244.75	585
	FRI									-	0														-	-					-	0
	SAT									-	0	35,728													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		166,868.42	7,703	5,380.44	640	18,318.19	2,969	110.91	180	190,677.96	11,492		-	-	9,670.04	428	-	-	-	-	-	-	-	-	9,670	428	23,869.82	1,180	368.51	23	224,586.33	13,123

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,920,366**
Disposal, tons	**190,678**
Diversion, tons	**9,670**
Soils, tons	**24,238**
Total	**224,586**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR September 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion												Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
9/1/2023	FRI	7,188.41	332	230.25	26	878.90	136	4.32	9	8,301.88	503				394.41	17									394	17	2,010.88	90	60.16	3	10,767.33	613
9/2/2023	SAT	4,891.65	226	17.84	3	173.81	31	8.67	11	5,091.97	271	49,121			113.98	5									114	5	32.34	2			5,238.29	278
9/3/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
9/4/2023	MON									-	0														-	-					-	0
9/5/2023	TUE	7,296.20	334	254.00	28	806.79	125	7.28	11	8,364.27	498				458.52	20									459	20	1,276.06	55			10,098.85	573
9/6/2023	WED	7,632.20	352	289.50	31	1,177.56	175	5.10	6	9,104.36	564				539.74	24									540	24	1,080.51	49			10,724.61	637
9/7/2023	THU	7,640.63	352	264.12	31	1,158.18	146	0.83	2	9,063.76	531				249.08	11									249	11	2,073.31	80			11,386.15	622
9/8/2023	FRI	7,484.28	345	244.92	24	1,429.91	176	6.56	10	9,165.67	555				364.78	16									365	16	905.56	45	20.83	1	10,456.84	617
9/9/2023	SAT	6,517.81	300	295.32	31	601.53	74	208.37	313	7,623.03	718	43,321			179.83	8									180	8	172.03	13			7,974.89	739
9/10/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
9/11/2023	MON	7,551.55	347	211.48	29	1,326.02	158	1.90	4	9,090.95	538				276.07	12									276	12	1,510.38	55			10,877.40	605
9/12/2023	TUE	7,993.78	372	219.90	30	966.98	136	3.50	7	9,184.16	545				428.34	19									428	19	1,958.93	78			11,571.43	642
9/13/2023	WED	7,361.21	338	202.34	28	948.38	143	19.33	20	8,531.26	529				495.38	22									495	22	74.11	5	63.19	3	9,163.94	559
9/14/2023	THU	7,257.41	333	212.92	26	1,694.18	169	13.94	12	9,178.45	540				664.90	29									665	29	769.81	35	21.80	1	10,634.96	605
9/15/2023	FRI	6,963.93	320	216.16	28	1,212.97	164	7.50	15	8,400.56	527				421.61	18									422	18	1,457.17	65			10,279.34	610
9/16/2023	SAT	4,959.23	227	8.53	3	612.80	86	9.04	14	5,589.60	330	49,975			153.06	7									153	7					5,742.66	337
9/17/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
9/18/2023	MON	7,167.36	328	228.90	28	904.91	148	4.17	5	8,305.34	509				344.06	15									344	15	1,014.96	40			9,664.36	564
9/19/2023	TUE	6,917.02	318	236.68	28	1,566.37	190	3.67	6	8,723.74	542				412.19	18									412	18	411.10	17			9,547.03	577
9/20/2023	WED	6,867.96	318	234.59	29	1,523.18	174	3.71	5	8,629.44	526				439.33	19									439	19	298.11	18			9,366.88	563
9/21/2023	THU	6,980.21	325	205.43	25	1,412.38	185	1.00	2	8,599.02	537				318.53	14									319	14	81.36	6			8,998.91	557
9/22/2023	FRI	6,327.74	294	237.87	31	1,482.71	178	2.40	4	8,050.72	507				271.09	12									271	12	21.16	2			8,342.97	521
9/23/2023	SAT	4,196.13	193	18.17	3	574.57	94	10.64	15	4,799.51	305	47,108			133.46	6									133	6					4,932.97	311
9/24/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
9/25/2023	MON	6,118.14	279	198.32	25	754.45	130	5.08	5	7,075.99	439				300.09	13									300	13	999.11	51			8,375.19	503
9/26/2023	TUE	6,839.70	314	226.02	27	884.98	133	1.44	2	7,952.14	476				356.74	16									357	16	590.77	29			8,899.65	521
9/27/2023	WED	6,416.95	298	206.48	24	932.94	140	0.50	1	7,556.87	463				473.53	21									474	21	135.58	18			8,165.98	502
9/28/2023	THU	6,969.63	325	225.40	24	1,398.37	179	2.77	6	8,596.17	534				471.49	21									471	21	890.53	43			9,958.19	598
9/29/2023	FRI	6,164.85	287	213.20	25	1,246.20	140	4.57	6	7,628.82	458				456.80	20									457	20	919.42	43	66.74	3	9,071.78	524
9/30/2023	SAT	4,490.50	207	42.29	7	298.31	63	5.00	10	4,836.10	287	43,646			153.94	7									154	7	40.85	7			5,030.89	301
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		166,194.48	7,664	4,940.63	594	25,967.38	3,473	341.29	501	197,443.78	12,232		-	-	8,870.95	390	-	-	-	-	-	-	-	-	8,871	390	18,724.04	846	232.72	11	225,271.49	13,479

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,939,014**
Disposal, tons	**197,444**
Diversion, tons	**8,871**
Soils, tons	**18,957**
Total	**225,271**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR October 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion														Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
10/1/2023	SUN									-	0														-	-					-	0
10/2/2023	MON	6,203.84	291	192.89	23	821.09	134	23.64	24	7,241.46	472				336.70	15									337	15	213.22	13			7,791.38	500
10/3/2023	TUE	6,486.99	300	236.05	30	1,155.64	135	6.99	9	7,885.67	474				453.59	20									454	20	109.98	9			8,449.24	503
10/4/2023	WED	6,204.30	290	201.68	25	862.67	127	6.33	4	7,274.98	446				382.68	19									383	19	2,430.95	99	34.82	2	10,123.43	566
10/5/2023	THU	7,063.51	325	214.03	24	859.06	129	18.60	12	8,155.20	490				378.50	17									379	17	3,255.22	132			11,788.92	639
10/6/2023	FRI	6,231.21	290	241.16	27	1,179.51	160	4.24	6	7,656.12	483				403.92	18									404	18	3,100.25	136			11,160.29	637
10/7/2023	SAT	3,953.75	186	1.50	1	320.54	55	9.47	12	4,285.26	254	42,499			129.37	6									129	6	104.81	4	12.64	1	4,532.08	265
10/8/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
10/9/2023	MON	6,970.24	323	202.01	26	883.92	128	5.88	9	8,062.05	486				368.63	16									369	16	2,602.10	102			11,032.78	604
10/10/2023	TUE	6,855.44	316	225.69	28	733.58	119	2.50	5	7,817.21	468				416.46	18									416	18	2,474.38	97			10,708.05	583
10/11/2023	WED	6,904.73	318	204.09	26	1,159.39	162	3.93	8	8,272.14	514				338.07	15									338	15	2,612.41	104			11,222.62	633
10/12/2023	THU	5,992.63	277	208.49	25	1,175.30	161	3.53	7	7,379.95	470				364.71	16									365	16	2,431.41	102	29.22	2	10,205.29	590
10/13/2023	FRI	6,443.63	298	240.45	29	863.39	129	7.46	9	7,554.93	465				203.00	9									203	9	443.40	22			8,201.33	496
10/14/2023	SAT	4,562.64	209	2.22	2	372.05	76	4.69	8	4,941.60	295	44,028			129.18	6									129	6					5,070.78	301
10/15/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
10/16/2023	MON	6,634.28	308	204.91	27	1,195.35	172	9.03	12	8,043.57	519				677.60	29									678	29	1,609.30	68	41.31	3	10,371.78	619
10/17/2023	TUE	6,890.58	316	208.54	25	779.36	122	4.87	8	7,883.35	471				479.62	23									480	23	1,833.80	83			10,196.77	577
10/18/2023	WED	6,982.62	323	226.96	28	517.34	93	1.49	3	7,728.41	447				270.32	12									270	12	186.73	10			8,185.46	469
10/19/2023	THU	6,209.01	288	178.20	19	1,082.76	161	0.50	1	7,470.47	469				592.31	26									592	26	330.78	18			8,393.56	513
10/20/2023	FRI	5,791.10	271	231.39	28	1,246.82	169	6.84	12	7,276.15	480				517.48	23									517	23	651.52	31			8,445.15	534
10/21/2023	SAT	4,206.27	195	28.88	5	377.45	61	6.50	13	4,619.10	274	43,021			177.63	8									178	8	12.42	1			4,809.15	283
10/22/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
10/23/2023	MON	6,474.04	302	214.76	30	940.73	127	2.87	6	7,632.40	465				656.05	28									656	28	78.97	5			8,367.42	498
10/24/2023	TUE	7,050.24	328	213.85	27	1,138.34	156	2.25	3	8,404.68	514				480.06	21									480	21	334.05	18			9,218.79	553
10/25/2023	WED	6,665.27	308	214.89	28	1,200.17	158	2.72	5	8,083.05	499				415.08	18									415	18	416.99	24	44.76	2	8,959.88	543
10/26/2023	THU	6,475.41	302	222.10	24	1,229.99	169	5.32	8	7,932.82	503				642.71	28									643	28	261.74	13			8,837.27	544
10/27/2023	FRI	6,272.91	290	218.39	27	847.37	154	2.52	5	7,341.19	476				647.01	28									647	28	195.45	9			8,183.65	513
10/28/2023	SAT	4,254.13	195	4.08	1	486.93	86	7.50	14	4,752.64	296	44,147			222.35	10									222	10					4,974.99	306
10/29/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
10/30/2023	MON	5,952.86	278	216.32	27	1,081.55	172	4.61	8	7,255.34	485				370.02	16									370	16	952.87	47			8,578.23	548
10/31/2023	TUE	6,788.55	320	224.83	30	1,250.16	165	2.43	2	8,265.97	517				429.67	19									430	19	459.13	23			9,154.77	559
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
	FRI									-	0														-	-					-	0
	SAT									-	0	15,521													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		160,520.18	7,447	4,778.36	592	23,760.46	3,480	156.71	213	189,215.71	11,732		-	-	10,482.72	464	-	-	-	-	-	-	-	-	10,483	464	27,101.88	1,170	162.75	10	226,963.06	13,376

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,889,034**
Disposal, tons	**189,216**
Diversion, tons	**10,483**
Soils, tons	**27,265**
Total	**226,963**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR NOVEMBER 2023

DATE		Inbound Material																												Total Daily Inbound	
		Disposal											Diversion															Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
11/1/2023	WED	6,128.93	288	220.65	28	1,003.70	140	4.03	7	7,357.31	463				313.25	14									313	14	308.90	15	37.61	2	8,017.07	494
11/2/2023	THU	6,110.65	286	229.59	25	960.90	124	6.22	10	7,307.36	445				364.54	16									365	16	125.73	5			7,797.63	466
11/3/2023	FRI	5,958.51	276	251.67	28	843.86	152	3.42	6	7,057.46	462				368.69	16									369	16	320.30	21			7,746.45	499
11/4/2023	SAT	3,982.69	186	15.30	3	467.18	82	6.57	16	4,471.74	287	41,715			163.60	7									164	7					4,635.34	294
11/5/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
11/6/2023	MON	6,253.07	288	227.88	25	1,331.71	196	1.92	5	7,814.58	514				456.45	20									456	20	353.01	24			8,624.04	558
11/7/2023	TUE	6,761.52	314	280.69	33	943.84	144	1.32	3	7,987.37	494				449.92	20									450	20	399.27	23			8,836.56	537
11/8/2023	WED	6,590.80	310	234.73	27	1,121.66	135	2.00	5	7,949.19	477				507.02	22									507	22	137.22	7			8,593.43	506
11/9/2023	THU	6,352.91	299	205.42	22	811.95	130	3.29	3	7,373.57	454				440.71	19									441	19	233.80	11			8,048.08	484
11/10/2023	FRI	5,893.46	276	245.28	27	849.90	128	3.00	9	6,991.64	440				225.87	10									226	10	68.69	5			7,286.20	455
11/11/2023	SAT	4,658.17	216	37.66	7	321.62	61	12.97	21	5,030.42	305	43,147			224.68	10									225	10					5,255.10	315
11/12/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
11/13/2023	MON	6,456.21	298	232.07	28	1,066.97	152	7.97	13	7,763.22	491				481.76	21									482	21	572.19	23	64.88	3	8,882.05	538
11/14/2023	TUE	6,503.21	303	246.24	27	791.29	117	7.39	10	7,548.13	457				388.12	17									388	17	29.37	2			7,965.62	476
11/15/2023	WED	5,864.41	277	227.58	29	982.29	145	3.44	4	7,077.72	455				274.15	12									274	12	0.95	2			7,352.82	469
11/16/2023	THU	5,147.32	237	230.38	25	765.26	98	2.00	4	6,144.96	364				436.97	19									437	19	41.40	3			6,623.33	386
11/17/2023	FRI	6,227.91	291	239.32	28	973.29	156	2.88	5	7,443.40	480				452.50	20									453	20	30.48	2			7,926.38	502
11/18/2023	SAT	3,968.18	181	39.95	6	155.76	30	7.12	14	4,171.01	231	40,148			205.19	9									205	9					4,376.20	240
11/19/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
11/20/2023	MON	6,044.03	280	230.35	29	1,104.78	203	8.91	10	7,388.07	522				324.18	14									324	14	300.31	15			8,012.56	551
11/21/2023	TUE	6,481.12	302	244.01	29	1,306.10	200	3.16	11	8,034.39	542				349.57	15									350	15	610.15	37	11.99	1	9,006.10	595
11/22/2023	WED	5,616.81	262	255.55	30	878.59	144	4.89	10	6,755.84	446				410.05	18									410	18	248.46	17			7,414.35	481
11/23/2023	THU									-	0														-	-					-	0
11/24/2023	FRI	6,620.34	306	306.19	29	447.50	90	7.79	13	7,381.82	438				273.37	12									273	12	1.08	1			7,656.27	451
11/25/2023	SAT	5,952.97	274	283.50	31	314.24	63	3.63	7	6,554.34	375	36,114			183.13	8									183	8					6,737.47	383
11/26/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
11/27/2023	MON	6,890.59	314	301.80	32	765.45	142	3.67	7	7,961.51	495				313.55	14									314	14	1,225.82	47	4.60	1	9,505.48	557
11/28/2023	TUE	6,842.13	315	301.59	30	1,130.02	148	0.50	2	8,274.24	495				298.86	13									299	13	497.01	20	34.40	2	9,104.51	530
11/29/2023	WED	6,835.33	316	292.41	30	878.28	135	4.62	7	8,010.64	488				542.85	24									543	24	582.21	34			9,135.70	546
11/30/2023	THU	6,421.35	296	251.85	27	1,161.66	156	3.00	5	7,837.86	484				533.50	24									534	24	503.27	38	21.81	1	8,896.44	547
	FRI									-	0														-	-					-	0
	SAT									-	0	32,084													-	-					-	0
	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		150,562.62	6,991	5,631.66	635	21,377.80	3,271	115.71	207	177,687.79	11,104		-	-	8,982.48	394	-	-	-	-	-	-	-	-	8,982	394	6,589.62	352	175.29	10	193,435.18	11,860

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**1,858,626**
Disposal, tons	**177,688**
Diversion, tons	**8,982**
Soils, tons	**6,765**
Total	**193,435**

CHIQUITA CANYON LANDFILL - TONNAGE / LOAD REPORT FOR DECEMBER 2023

DATE		Inbound Material																										Total Daily Inbound	
		Disposal										Diversion														Soil					
		Transfer Trailer Waste	Lds	Residential	Lds	Commercial	Lds	General Public	Lds	Trash Total	Lds	Weekly	Shredded Green Waste → Erosion Control	Lds	MRF Fines → Protective Cover	Lds	Shredded Green Waste → ADC	Lds	TASW→ ADC	Lds	Rubble, Concrete, Asphalt, Rock→Road Base & Erosion Control	Lds	C&D	Lds	Total, tons	Total, loads	Contaminated Soil→Various Uses	Lds	Clean Soil→Various Uses	Lds	Tons	Loads
	SUN									-	0														-	-					-	0
	MON									-	0														-	-					-	0
	TUE									-	0														-	-					-	0
	WED									-	0														-	-					-	0
	THU									-	0														-	-					-	0
12/1/2023	FRI	5,952.84	279	223.21	29	946.62	149	3.47	9	7,126.14	466				580.34	25									580	25	266.10	14			7,972.58	505
12/2/2023	SAT	4,184.84	193	19.99	4	1,061.09	156	128.51	211	5,394.43	564	44,605			178.62	8									179	8					5,573.05	572
12/3/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
12/4/2023	MON	6,231.85	290	254.94	30	1,006.91	154	5.90	10	7,499.60	484				302.38	13									302	13	1,211.38	44	17.54	1	9,030.90	542
12/5/2023	TUE	6,944.55	319	249.96	29	1,129.63	164	4.50	10	8,328.64	522				318.53	14									319	14	1,381.89	66	55.85	3	10,084.91	605
12/6/2023	WED	6,930.02	324	250.47	29	867.34	136	5.59	8	8,053.42	497				458.54	20									459	20	1,709.87	85	28.15	2	10,249.98	604
12/7/2023	THU	6,189.20	290	242.49	26	1,121.02	148	2.00	4	7,554.71	468				358.21	16									358	16	1,725.98	91			9,638.90	575
12/8/2023	FRI	6,307.43	300	246.26	30	826.33	130	2.50	7	7,382.52	467				361.87	16									362	16	1,825.16	80	75.46	4	9,645.01	567
12/9/2023	SAT	4,287.73	200	7.99	1	795.45	121	7.66	10	5,098.83	332	43,918			179.37	8									179	8	73.02	4			5,351.22	344
12/10/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
12/11/2023	MON	6,185.59	287	231.35	28	985.06	155	6.26	10	7,408.26	480				325.52	14									326	14	2,236.21	83	10.24	1	9,980.23	578
12/12/2023	TUE	6,852.29	316	245.68	30	919.75	139	4.59	9	8,022.31	494				393.18	17									393	17	1,923.17	74			10,338.66	585
12/13/2023	WED	5,681.74	262	237.82	29	788.88	124	1.78	2	6,710.22	417				249.63	11									250	11	2,048.07	82	59.57	4	9,067.49	514
12/14/2023	THU	5,489.19	258	216.41	25	934.11	141	0.84	3	6,640.55	427				435.15	19									435	19	2,300.69	91			9,376.39	537
12/15/2023	FRI	5,933.34	280	250.41	30	670.55	119	3.09	3	6,857.39	432				399.19	17									399	17	2,929.61	115			10,186.19	564
12/16/2023	SAT	3,884.33	182	4.06	1	256.09	55	8.59	16	4,153.07	254	39,792			158.42	7									158	7	436.85	24			4,748.34	285
12/17/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
12/18/2023	MON	6,607.47	309	235.36	29	998.32	139	5.11	10	7,846.26	487				212.25	9									212	9	3,107.08	155	21.79	1	11,187.38	652
12/19/2023	TUE	5,734.91	268	240.65	28	716.37	93	4.61	5	6,696.54	394				409.57	18									410	18	16.39	1			7,122.50	413
12/20/2023	WED	3,836.08	178	144.93	17	418.83	59	1.50	3	4,401.34	257				387.40	17									387	17					4,788.74	274
12/21/2023	THU	4,191.49	192	239.73	25	403.35	47	2.43	4	4,837.00	268				411.56	18									412	18					5,248.56	286
12/22/2023	FRI	5,437.52	249	259.24	28	503.63	64	3.72	5	6,204.11	346				328.16	14									328	14	8.03	1			6,540.30	361
12/23/2023	SAT	3,325.65	154	17.70	4	200.62	30	4.05	8	3,548.02	196	33,533			110.66	5									111	5					3,658.68	201
12/24/2023	SUN	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
12/25/2023	MON									-	0														-	-					-	0
12/26/2023	TUE	6,014.49	278	273.41	27	609.76	91	3.62	6	6,901.28	402				446.93	19									447	19	569.95	33	41.41	2	7,959.57	456
12/27/2023	WED	6,738.66	313	343.54	33	617.58	84	5.06	11	7,704.84	441				458.58	20									459	20	2,046.65	86			10,210.07	547
12/28/2023	THU	6,366.97	291	324.62	30	689.86	101	2.50	5	7,383.95	427				428.40	18									428	18	1,990.95	75	44.88	2	9,848.18	522
12/29/2023	FRI	6,130.68	285	316.48	28	774.34	124	8.90	11	7,230.40	448				347.76	15									348	15	895.36	38	21.50	1	8,495.02	502
12/30/2023	SAT	4,833.69	220	333.88	33	214.94	36	6.23	9	5,388.74	298	34,609			115.21	5									115	5					5,503.95	303
12/31/2023	SUN	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~		~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~	~~~			~~~	~~~	~~~	~~~	~~~	~~~
	MON									-	0	0													-	-					-	0
TOTAL		140,272.55	6,517	5,410.58	603	18,456.43	2,759	233.01	389	164,372.57	10,268		-	-	8,355.43	363	-	-	-	-	-	-	-	-	8,355	363	28,702.41	1,242	376.39	21	201,806.80	11,894

Monthly Totals

Water Used for Dust Control & Irrigation, gallons	**932,400**
Disposal, tons	**164,373**
Diversion, tons	**8,355**
Soils, tons	**29,079**
Total	**201,807**

Appendix H

2023 Condition No. 61 Annual Monitoring Report

Rincon Consultants, Inc.

Environmental Scientists *Planners* *Engineers*

M E M O R A N D U M

■ **Ventura**
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Ventura, California 93003
(805) 644 4455

Carlsbad:	(760) 918 9444	**Sacramento:**	(916) 706 1374
Fresno:	(559) 228 9925	**San Diego:**	(760) 918 9444
Los Angeles:	(213) 788 4842	**San Luis Obispo:**	(805) 547 0900
Monterey:	(831) 333 0310	**Santa Barbara:**	(805) 319 4092
Oakland:	(510) 834 4455	**Santa Cruz:**	(831) 440 3899
Redlands:	(909) 253 0705	**Ventura:**	(805) 644 4455
Riverside:	(951) 782-0061		

Date: January 19, 2024

Subject: Chiquita Canyon Landfill (CCL) Conditional Use Permit (CUP) 2004-00042 Annual Monitoring Report for Condition No. 61

Project: 2023 Annual Compliance Monitoring Report

This memorandum has been prepared pursuant to CUP Condition No. 61, which requires an annual monitoring report to be prepared and submitted to the Director of the Los Angeles County Department of Regional Planning (LACDRP) with the status and progress of the provisions in Condition No. 61.

The format of this Annual Monitoring Report has the text of Condition No. 61 repeated verbatim in italics, with a discussion of compliance status following.

CONDITION NO. 61 AND COMPLIANCE STATUS

61. The permittee shall comply with the following landscaping, cover and re-vegetation requirements at the Landfill:

A. Three copies of a landscape plan shall be submitted to and approved by the Director of Regional Planning within 180 days after the Effective Date. The landscape plan shall show size, type, and location of all plants, trees, and watering facilities required as a condition of this grant. All landscaping shall be maintained in a neat, clean, and healthful condition in accordance with the approved landscape plan, including proper pruning, weeding, removal of litter, fertilizing, and replacement of plants and trees when necessary, but not to exceed quarterly (three months-period).

Part A. Compliance Status: A draft Closure Revegetation Plan, prepared by CH2M HILL Engineers, Inc. (now Jacobs Engineering Group [Jacobs]), was submitted to the LACDRP for review and approval on January 24, 2018,[1] and was approved by LACDRP on August 16, 2018. The Closure Revegetation Plan addresses revegetation requirements for the disturbed areas of the landfill.

In addition to the Closure Revegetation Plan, two additional landscape plans will be developed; one for compliance with Condition No. 61, Part H, which contains a discussion of the required Western Ridgeline Tree Planting and Maintenance Plan, and one for the future relocated entrance. The future relocated entrance landscape plan will be submitted to LACDRP for review and approval after the entrance design has been approved and building permits have been applied for.

B. An annual monitoring report shall be prepared by an independent, qualified biologist and submitted to the Director of Regional Planning providing status and progress of the provisions in this Condition No. 61. The monitoring report shall be submitted as part of the annual report required pursuant to Part VIII of the IMP.

Part B. Compliance Status: This Condition No. 61 Annual Monitoring Report meets the requirements of Condition No. 61 Part B.

C. The permittee shall employ an expert or experts, including an independent, qualified biologist, to satisfy this Condition No. 61. Soil sampling and laboratory analysis shall be conducted in all areas that are required to be re-vegetated before any re-vegetation occurs to identify chemical or physical soil properties that may adversely affect plant growth or establishment. Soil amendments and fertilizer recommendations shall be applied and plant materials selected, based on the above-referenced testing procedures and results. To the extent possible, as determined by the Director of Regional Planning, plant types shall blend with species indigenous to the area, be drought tolerant, and be capable of successful growth.

Part C. Compliance Status: CCL has engaged the services of Rincon Consultants to function as an independent, qualified biologist to implement Condition No. 61. CCL also engaged the services of a certified arborist with Rincon Consultants to implement the portions of Condition No. 61 that included removal or planting of oak trees or implementation of OTP 2015-00007. The remainder of Part C is addressed in the Closure Revegetation Plan.

D. The permittee shall apply a temporary vegetation cover on any slope or other Landfill area that is projected to be inactive for a period greater than 180 days, as set forth in the IMP. The permittee shall identify such slope or areas in the annual monitoring report described in subsection B., above, and include an interim reclamation and re-vegetation plan, as well as the timing of the proposed work for review and approval by the Director of Regional Planning.

Part D. Compliance Status: During the 2032 Reporting Period, CCL identified all areas that were projected to be inactive for greater than 180 days. In those areas, shredded green waste was placed on landfill side slopes and other areas of the landfill for erosion control. The shredded green waste was

[1] CH2M HILL Engineers, Inc. (CH2M). 2018. Draft *Closure Revegetation Plan*. January 24.

placed and track-walked to ensure secure placement.

E. Except as otherwise provided in this Condition No. 61, all final fill slopes shall be reclaimed and re-vegetated in lifts substantially in conformance with MMRP.

Part E. Compliance Status: Noted. This Part E of Condition No. 61 is also addressed in the Closure Revegetation Plan.

F. Notwithstanding the foregoing provisions of this Condition No. 61, permittee shall comply with a different re-vegetation design or plan that the Department of Regional Planning, in consultation with the TAC, CAC, and the Department of Public Works, determines would:

1. Better protect public health and safety;

2. Enable re-vegetation of the final slopes at least as well as described in subsection E., above; and/or

3. Be required because the minimum standards adopted by the CalRecycle have been amended.

Requirements imposed by the Department of Regional Planning, pursuant to this Condition No. 61, must be consistent with State regulations and may not cause the activities at the Landfill to exceed the Limits of Fill.

Part F. Compliance Status: During the 2023 Reporting Period, the need for a different revegetation design or plan was not identified.

G. The permittee shall provide and maintain a landscape strip that is a minimum of ten feet wide along the frontage of the ancillary facilities area on Wolcott Way and along State Route 26 Highway ("SR-126").

Part G. Compliance Status: As agreed with the LACDPW at a meeting held on January 30, 2018, the minimum 10-foot wide landscape strip along the frontage of Wolcott Way and SR-126 will be incorporated into the screening berm, which is part of the relocated entrance.

H. No portion of the expanded Landfill may extend above the plane or outside of the surface area of the fill design, as shown on the approved site plan, attached as Exhibit "A."

The existing viewshed from Chiquito Canyon Road shall be protected for the life of the project. The dip in the natural ridgeline along the western boundary shall be maintained or enhanced. Any structure placed on the Landfill site, including, but not limited to, temporary storage areas, any materials recovery facility, composting facility, or any other ancillary facilities that may be visible from Chiquito Canyon Road, shall be

designed to be harmonious with the natural topography and viewshed and shall be reviewed by the CAC.

The Landfill operator and the CAC shall work together to prepare a tree planting and maintenance plan for the entire western boundary of the site. The objectives of the plan are to screen Landfill operations, enhance the viewshed, and establish the minimum number and type of trees to do this, and to provide adequate access to monitoring wells. Trees may be planted on slopes on either side of the ridgeline, provided the above objectives are met and such planting is practical.

Part H. Compliance Status: CCL submitted a Draft Western Ridgeline Tree Planting and Maintenance Plan to LADRP on August 31, 2018. This draft plan is available for review and discussion with the CAC. Elements of the Western Ridgeline Tree Planting and Maintenance Plan include the following:

- Viewshed analysis of CCL's western ridgeline to establish the visibility of CCL's western boundary
- Line-of-sight figures to illustrate the extent of landfill visible beyond the western ridgeline
- Visual simulations to depict the visibility of landfill beyond the western ridgeline without a tree planting plan
- Proposed tree planting plan, including location and plant palette
- Visual simulations to depict the visibility of landfill beyond the western ridgeline with the proposed tree planting plan.

Appendix I
Documentation of CARB Certification

California Environmental Protection Agency

Air Resources Board

March 1, 2023

CERTIFICATE OF REPORTED COMPLIANCE

IN-USE OFF-ROAD DIESEL-FUELED FLEETS REGULATION is issued to

CHIQUITA CANYON LANDFILL

This certificate indicates that the fleet listed above has reported off-road diesel vehicles to the California Air Resources Board and has certified they are in compliance with title 13 CCR, section 2449. All applicable vehicles owned by the individual, company, or agency must be reported and labeled, as specified in Section 2449, with all possible completeness, else this certificate is null and void. **Certificate expires 2/29/2024**

S Vergis

Sydney Vergis
Chief, Mobile Source Control Division
California Air Resources Board

Off-road Diesel Fleet Identification

2135

To verify the authenticity of this certificate, enter this number at
http://www.arb.ca.gov/doors/compliance_cert1.html

Appendix J
2023 Condition No. 72 Alternative Fuel

Condition No. 72 Alternative Fuel Compliance Evaluation

This Condition No. 72 Alternative Fuel Compliance Evaluation is prepared pursuant to Part E of Condition No. 72, which states that Chiquita Canyon Landfill (CCL) "shall submit an on-going evaluation of its compliance with each component of this Condition No. 72."

The format of this Alternative Fuel Compliance Evaluation has the text of Condition No. 72 repeated verbatim in italics, followed by a discussion of compliance status.

Condition No. 72 and Evaluation of Compliance

72. The permittee shall be subject to the following requirements regarding alternative fuel vehicles and equipment:

A. For the purpose of complying with this Condition No. 72, alternative fuel vehicles shall utilize alternative fuels that are consistent with recommendations or regulations of CARB and SCAQMD, which may include, but are not limited to electricity, natural gas (liquefied natural gas or compressed natural gas), biogas, biodiesel, synthetic diesel, or renewable diesel;

Part A. Compliance Evaluation: Part A identifies fuel types that may be used at CCL for the purpose of alternative fuel vehicles or programs. These fuel types include electricity, liquefied natural gas, compressed natural gas, biogas, biodiesel, synthetic diesel, or renewable diesel. On April 21, 2020, the Los Angeles County Public Works (LACPW) and the Los Angeles County Department of Regional Planning (LADRP) approved ethanol (E85) to be included on the list of fuel types that may be used at CCL for the purpose of alternative fuel vehicles or programs, for compliance with Part A of Condition No. 72. During the 2023 Reporting Period, no changes were made to the list of approved fuel types for alternative fuel vehicles or programs.

B. Within the first year after the Effective Date, the permittee shall submit an alternative fuel vehicle implementation plan to the TAC and CAC for review and approval by the TAC. The plan shall contain information on available and proposed alternative fuel technologies, a comparison of their air emissions reduction levels at the Facility, including greenhouse gas emissions, a timeline demonstrating the permittee's best-faith efforts to comply with this Condition No. 72, as well as any other information deemed necessary by the TAC to approve the plan;

Part B. Compliance Evaluation: Consistent with the Part B requirement to submit a plan for alternative vehicles to the Technical Advisory Committee (TAC) and Community Advisory Committee (CAC) within one year of the Effective Date, on July 26, 2018, CCL submitted an Alternative Fuel Vehicle Implementation Plan to the LACPW. In this Plan, CCL noted that California Health and Safety Code Section 39035 defines "light-duty" vehicles as having a manufacturer's maximum gross vehicle weight rating of under 6,001 pounds, and that CCL does not operate any vehicles that meet this definition.

However, CCL does operate light-duty trucks, which are subject to alternative fuel evaluation under Part C of this Condition No. 72. Therefore, on January 6, 2021, the LACDRP informed CCL that implementation of Condition No. 72 should be based upon the definition of "light-duty truck" provided under California Code of Regulations, Title 13 (Motor Vehicles), Division 3 (Air Resources Board), Section 1900(b)(11), as follows:

> *"Light-duty truck" means any 2000 and subsequent model motor vehicle certified to the standards in section 1961(a)(1) or 1961.2 rated at 8,500 pounds gross vehicle weight or less, and any other motor vehicle, rated at 6,000 pounds gross vehicle weight or less, which is designed primarily for purposes of transportation of property or is a derivative of such a vehicle, or is available with special features enabling off-street or off-highway operation and use."*

Subsequent to clarification of the definition of "light-duty truck" as provided above, CCL prepared a second plan for alternative fuels, specific to the light-duty trucks that are used at CCL. The 2021 *Light-Duty Vehicle Alternative Fuel Vehicle Implementation Plan* was submitted to LACDRP for review by the TAC and CAC, for approval by the TAC. The Plan identified alternative fuels suitable for the light-duty trucks that are used at CCL, as well as discussion of the availability of suitable alternative fuels.

Both the 2018 *Alternative Fuel Vehicle Implementation Plan* and the 2021 *Light-Duty Vehicle Alternative Fuel Vehicle Implementation Plan* include comparisons between the air quality emissions associated with baseline (gasoline-fueled) conditions and those associated with the Condition No. 72-compliant (alternative-fueled) conditions resulting from implementation of the aforementioned Plans.

C. The permittee shall convert into alternative fuel vehicles all light-duty vehicles operating at the Facility, solid waste collection trucks, and transfer trucks that utilize the Facility and are owned by, operated by, or under contract with the permittee, its subsidiaries, or affiliated enterprises, according to the following phase-in schedule:

1. Within four years after the Effective Date, at least 50 percent of all aforementioned vehicles shall be alternative fuel vehicles.

2. Within seven years after the Effective Date, at least 75 percent of all aforementioned vehicles shall be alternative fuel vehicles.

3. Within ten years after the Effective Date, 100 percent of all aforementioned vehicles shall be alternative fuel vehicles.

Part C. Compliance Evaluation: In accordance with the schedule provided above, CCL would convert 50 percent of its light-duty vehicles to alternative fuel vehicles within 4 years of the Effective Date, which would occur during the 2021 Reporting Period. CCL started with a 4-vehicle fleet of light-duty vehicles; accordingly, with the intent to convert 2 light-duty vehicles in 2021. By the end of the 2021 Reporting Period, CCL had 5 light-duty vehicles, 3 of which were alternative fuel vehicles, using E85 fuel. Also in accordance with the schedule above, CCL will convert 75 percent of its light-duty vehicles to alternative fuel within 7 years of the Effective Date, which will occur by the middle of the 2024 Reporting Period and will convert the entirety of its light-duty vehicles to alternative fuel within 10 years of the Effective Date, which will occur by the middle of the 2027 Reporting Period. If CCL were to acquire any solid waste collection trucks or transfer trucks during operation under CUP 2004-00042, they would also be converted to alternative fuel vehicles according to the time requirements specified in Condition No. 72 Part C.

D. Within the first year after the Effective Date, unless a later date is approved by the TAC, the permittee shall consult with the SCAQMD and design and implement at least one heavy-duty, alternative fuel off-road equipment pilot program, to the extent deemed technically and economically feasible by the TAC. The pilot program shall be certified by a major original equipment manufacturer such as, but not limited to, Caterpillar, John Deere, or Volvo.

Part D. Compliance Evaluation: On July 24, 2018, the LACDRP approved CCL's request to extend the deadline for design and implementation of a heavy-duty, alternative fuel off-road equipment pilot program to January 28, 2019. In accordance with this extended deadline and the requirements of Part D above, CCL submitted the pilot program design to LACPW and LACDRP on January 28, 2019. The pilot program was implemented at CCL in 2019 and 2020.

- In 2019, CCL used 500 gallons of renewable bio-diesel (B-20) in two pieces of equipment: a John Deere loader and forklift.
- In 2020, CCL used 1,950 gallons of B-20 fuel in three pieces of equipment: an FK1206 Caterpillar Forklift, an L1109 John Deere 644J Loader, and a TM1211 Ford F550 mechanic truck.

To fully document the results of the heavy-duty alternative fuel off-road equipment pilot program, CCL has initiated preparation of a separate Condition No. 72 Heavy-Duty Alternative Fuel Off-Road Equipment Pilot Program Update. However, no major original equipment manufacturers have been willing to certify a program to use an alternative fuel in their heavy-duty equipment, based upon ongoing coordination efforts.

E. As part of its annual report to the TAC and CAC required by the IMP, the permittee shall submit an on-going evaluation of its compliance with each component of this Condition No. 72.

Part E. Compliance Evaluation: This Condition No. 72 Alternative Fuel Compliance Evaluation meets the requirements of Condition No. 72 Part E.

Appendix K
Litter Log

Chiquita Canyon Landfill Litter Survey
January

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 1-3-2023 Time: 8:40am Summary: 5 bags of litter, 2 boxes full of paper	Date: 1-5-2023 Time: 9:00am Summary: 10 bags of litter	Date: 1-5-2023 Time: 12:50pm Summary: 3 bags of litter	Date: 1-3-2023 Time: 11:30am Summary: 1 couch Location: Del Valle rd
Week 2	Date: 1-12-2023 Time: 8:15am Summary: 3 bags of litter	Date: 1-11-2023 Time: 9:30am Summary: 7 bags of litter, 2 tires, 1 car bumper	Date: 1-11-2023 Time: 1:15pm Summary: 1 truck load of tree clippings	Date: 1-13-2023 Time: 8:20am Summary: 4 bags of litter Location: Del Valle rd
Week 3	Date: 1-17-2023 Time: 9:00am Summary: 1 mattress, 2 chairs, 1 table	Date: 1-18-2023 Time: 8:15am Summary: 7 bags of litter	Date: 1-18-2023 Time: 11:00am Summary: 3 bags of litter	Date: 1-17-2023 Time: 10:00am Summary: No litter Location: N/A
Week 4	Date: 1-26-2023 Time: 8:30am Summary: 4 bags of litter	Date: 1-24-2023 Time: 8:30am Summary: 6 bags of litter	Date: 1-24-2023 Time: 1:00pm Summary: 1 stove, carpet, plastic boxes, 3 bags of litter	Date: 1-26-2023 Time: 12:00pm Summary: 3 bags of litter, tree clippings Location: Del Valle rd
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
February

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 2-2-23 Time: 9:00am Summary: picked up 4 bags of litter, 1 table, 2 tires, 4 chairs	Date: 2-3-23 Time: 8:00am Summary: Picked up 7 bags of litter	Date: 2-3-23 Time: 10:00am Summary: Picked up load of drywall, 2X4 wood and bricks	Date: 2-2-23 Time: 11:00am Summary: No litter Location: N/A
Week 2	Date: 2-7-23 Time: 8:30am Summary: Picked up 5 bags of litter	Date: 2-8-23 Time: 8:00am Summary: Picked up 6 bags of litter, 3 tires and a mattress	Date: 2-8-23 Time: 1:00pm Summary: No litter	Date: 2-9-23 Time: 9:00am Summary: Picked up 4 bags of litter Location: Del Valle rd
Week 3	Date: 2-13-23 Time: 9:15am Summary: No litter	Date: 2-15-23 Time: 8:30am Summary: Picked up 7 bags of litter	Date: 2-15-23 Time: 11:30am Summary: Picked up a pile of wood, tires and 1 couch	Date: 2-14-23 Time: 9:00am Summary: No litter Location: N/A
Week 4	Date: 2-21-23 Time: 8:40am Summary: Picked up 2 car seats, 1 toilet	Date: 2-22-23 Time: 8:50am Summary: Picked up 9 bags of litter	Date: 2-22-23 Time: 10:40am Summary: Picked of 3 bags of litter	Date: 2-24-23 Time: 9:00am Summary: No litter Location: N/A
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
March

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 3-1-2023 Time: 9:00 am Summary: 2 couches, 1 box full of clothes	Date: 3-2-2023 Time: 8:30 am Summary: 10 bags of litter	Date: 3-2-2023 Time: 10:45am Summary: 4 bags of litter	Date: 3-01-2023 Time: 11:30am Summary: 3 bags of litter, 1 mattress Location: Del Valle rd
Week 2	Date: 3-8-2023 Time: 8:30am Summary: 1 ice chest, 3 chairs, 1 table, 1 basketball	Date: 3-6-2023 Time: 7:40am Summary: 8 bags of litter, 2 tires	Date: 3-6-2023 Time: 11:00am Summary: 1 mattress, 1 bag of clothes, wood	Date: 3-9-2023 Time: 1:00pm Summary: No litter Location: N/A
Week 3	Date: 3-14-2023 Time: 8:30am Summary: No litter	Date: 3-16-2023 Time: 9:00am Summary: 7 bags of litter	Date: 3-18-2023 Time: 1:00pm Summary: 1 metal door, wood, bricks	Date: 3-14-2023 Time: 11:00am Summary: 1 Bed frame, 1 mattress Location: Del Valle rd
Week 4	Date: 3-20-2023 Time: 9:00am Summary: 3 tires, 1 table, 1 chair, 1 bag of toys	Date: 3-22-2023 Time: 8:20am Summary: 8 bags of litter, 1 mattress	Date: 3-22-2023 Time: 11:00 am Summary: 1 mattress, bags of trash, desk, chair	Date: 3-21-2023 Time: 10:30am Summary: 1 basket of clothes, 1 bag of trash Location: Del Valle rd
Week 5	Date: 3-27-2023 Time: 9:00am Summary: No litter	Date: 3-29-2023 Time: 8:15am Summary: 6 bags of litter	Date: 3-29-2023 Time: 10:50am Summary: No litter	Date: 3-28-2023 Time: 9:25am Summary: No litter Location: N/A

Chiquita Canyon Landfill Litter Survey
April

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 4-3-2023 Time: 8:15am Summary: 3 bags of litter	Date: 4-5-2023 Time: 8:30am Summary: 11 bags of litter	Date: 4-5-2023 Time: 10:15am Summary: 1 mattress, 1 bed frame, 1 box of books	Date: 4-3-2023 Time: 11:00am Summary: No litter Location: N/A
Week 2	Date: 4-13-2023 Time: 8:00am Summary: 3 tires, tree clippings	Date: 4-10-2023 Time: 8:00am Summary: 8 bags of litter	Date: 4-10-2023 Time: 10:00am Summary: 1 floor mat, 2 car seats	Date: 4-13-2023 Time: 11:00am Summary: 4 bags of litter Location: Del Valle rd
Week 3	Date: 4-18-2023 Time: 9:00am Summary: No litter	Date: 4-20-2023 Time: 8:00 am Summary: 10 bags of litter	Date: 4-20-2023 Time: 10:15am Summary: 4 bags of litter	Date: 4-18-2023 Time: 10:30am Summary: 3 bags of litter Location: Del Valle rd
Week 4	Date: 4-27-2023 Time: 8:00am Summary: 4 bags of litter	Date: 4-25-2023 Time: 11:00am Summary: 6 bags of litter	Date: 4-25-2023 Time: 8:00am Summary: 1 mattress, tree clippings	Date: 4-27-2023 Time: 11:00am Summary: No litter Location: N/A
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
May

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 5/1/23 Time: 9:00 Summary: Pick up 5 bags litter	Date: 5/3/23 Time: 8:00 Summary: Pick up 9 bags litter, car bumper	Date: 5/3/23 Time: 10:00 Summary: Nothing found	Date: 5/5/23 Time: 8:00 Summary: Pick up 4 litter bags Location: Del Valle
Week 2	Date: 5/10/23 Time: 8:45 Summary: Pick up Ice cooler, 2 bikes, table	Date: 5/11/23 Time: 8:15 Summary: Pick up 10 bags litter, 3 tires	Date: 5/11/23 Time: 10:45 Summary: Pick up basket of clothes, pile of wood	Date: 5/12/23 Time: 10:00 Summary: Pile of palm branches Location: Del Valle
Week 3	Date: 5/17/23 Time: 9:00 Summary: Pick up 4 bags litter	Date: 5/15/23 Time: 8:15 Summary: Pick up 9 bags litter	Date: 5/15/23 Time: 11:30 Summary: Picked up tree clippings	Date: 5/16/23 Time: 9:00 Summary: 2 couches Location: Del Valle
Week 4	Date: 5/26/23 Time: 8:40 Summary: Pick up pile of concrete	Date: 5/24/23 Time: 9:15 Summary: Pick up 7 bags litter	Date: 5/24/23 Time: 11:30 Summary: Picked up pile of wood from fence	Date: 5/25/23 Time: 10:00 Summary: Nothing found Location:
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
June

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 6/5/2023 Time: 7:15 Summary: Pick up 4 litter bags	Date: 6/7/2023 Time: 8:20 Summary: Pick up 10 litter bags and 2 itres	Date: 6/7/2023 Time: 10:30 Summary: Pick ip pieces of foam and 5 litter bags	Date: 6/5/2023 Time: 11:30 Summary: Pick up couch, table. Location: Del Valle
Week 2	Date: 6/13/2023 Time: 8:20 Summary: Pickup plastic kids pool, ice chest box of books	Date: 6/15/2023 Time: 9:00 Summary: Pick up 12 litter bags	Date: 6/15/2023 Time: 10:45 Summary: Pick up palm branches	Date: 6/13/2023 Time: 11:00 Summary: Pick p dish washer, 3 litter bags Location: Dell Valley
Week 3	Date: 6/22/2023 Time: 8:40 Summary: Pick up 2 mattress, 4 bags of litter	Date: 6/21/2023 Time: 8:00 Summary: Pick up 8 bags litter	Date: 6/21/2023 Time: 11:45 Summary: Pick up pile of wood, 5 litter bags	Date: 6/22/2023 Time: 10:15 Summary: Pick up 4 mattress's Location: Del Valle
Week 4	Date: 6/27/2023 Time: 8:40 Summary: Pick up 3 bags litter	Date: 6/28/2023 Time: 7:35 Summary: Pick up 9 bags litter	Date: 6/28/2023 Time: 10:00 Summary: Pick up 4 bags litter	Date: Time: Summary: Location:
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
July

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 7/6/2023 Time: 8:30 AM Summary: Picked up 4 litter bags	Date: 7/7/2023 Time: 7:40 AM Summary: Picked up 8 litter bags	Date: 7/7/2023 Time: 11:00 AM Summary: Picked up 3 litter bags, mattress, 2 chairs	Date: 7/6/2023 Time: 10:00 AM Summary: icked up 3 litter bags Location: Val Verde
Week 2	Date: 7/11/2023 Time: 8:15 AM Summary: Picked up dresser, mattress, box of toys	Date: 7/13/2023 Time: 7:30 AM Summary: Picked up 9 litter bags	Date: 7/12/2023 Time: 3:00 PM Summary: Picked up counch, 2 litter bags	Date: 7/11/2023 Time: 11:45 AM Summary: Tree Clippings Location: Del Valle
Week 3	Date: 7/18/2023 Time: 9:00 AM Summary: Pile of wood	Date: 7/20/2023 Time: 8:15 AM Summary: Picked up 10 bags of litter	Date:7/20/2023 Time: 11:20 AM Summary: Picked up 3 bags of litter	Date: 7/19/2023 Time: 7:19 AM Summary: Picked up 4 bags of litter Location: Del Valle
Week 4	Date: 7/25/2023 Time: 8:30 AM Summary: Picked up 3 litter bags	Date: 7/26/2023 Time: 7:15 AM Summary: Picked up 9 bags of litter	Date: 7/26/2023 Time: 11:40 AM Summary: Palm branches	Date: 7/27/2023 Time: 3:20 AM Summary: Picked up table and 3 chairs Location: Del Valle
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
August

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 8/2/23 Time: 9:15 Summary: Picked up 4 litter bags, 1 mattress	Date: 8/3/23 Time: 8:30 Summary: Picked up 9 litter bags, 2 tires	Date: 8/3/23 Time: 12:00 Summary: Picked up 4 litter bags	Date: 8/2/23 Time: 11:05 Summary: Picked up couch Location: Del Valle
Week 2	Date: 8/10/2023 Time: 8:40 Summary: Picked up couch, 2 chairs, table	Date: 8/8/2023 Time: 8:15 Summary: Picked up 7 litter bags	Date: 8/8/2023 Time: 11:30 Summary: Picked up load of palm trees	Date: 8/11/2023 Time: 8:15 Summary: Picked up 3 bags of lotter Location: Del Valle
Week 3	Date: 9/17/2023 Time: 8:45 Summary: Picked up 3 bags litter	Date: 9/16/2023 Time: 8:15 Summary: Picked up 9 bags litter, car bumper, 4 mattress	Date: 9/16/2023 Time: 11:20 Summary: Picked up 3 bags litter	Date: 9/25/2023 Time: 9:20 Summary: Picked up mattress 2 bags litter Location: Del Valle
Week 4	Date: 9/22/2023 Time: 8:45 Summary: Nothing found	Date: 9/24/2023 Time: 8:15 Summary: Picked up 5 bags litter	Date: 9/24/2023 Time: 11:20 Summary:Picked up a load of tree clippings	Date: 9/25/2023 Time: 9:20 Summary: Picked up 3 mattress Location: Del Valle
Week 5	Date: 9/28/2023 Time: 9:20 Summary: Picked up 3 bags litter	Date: 9/29/2023 Time: 8:30 Summary: Picked up 7 bags litter	Date: 9/29/2023 Time: 11:20 Summary: Nothing found	Date: 9/30/2023 Time: 8:40 Summary: Nothing found Location:

Chiquita Canyon Landfill Litter Survey
September

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 9-4-2023 Time: 8:20am Summary: 4 bags of litter	Date: 9-6-2023 Time: 8:15am Summary: 8 bags of litter	Date: 9-6-2023 Time: 11:30am Summary: 2 bags of litter	Date: 9-5-2023 Time: 9:20am Summary: 1 couch, 1 table, 3 chairs Location: Del Valle rd
Week 2	Date: 9-13-2023 Time: 8:15am Summary: 2 rolls of rug	Date: 9-12-2023 Time: 9:00am Summary: 7 bags of litter	Date: 9-12-2023 Time: 11:15am Summary: Tree clippings	Date: 9-13-2023 Time: 1:00pm Summary: No litter Location:N/A
Week 3	Date: 9-18-2023 Time: 9:15am Summary: 3 bags of litter	Date: 9-19-2023 Time: 8:30am Summary: 8 bags of litter	Date: 9-19-2023 Time: 11:30am Summary: load of concrete	Date: 9-18-2023 Time: 10:30am Summary: 4 bags of litter Location: Del Valle rd
Week 4	Date: 9-23-2023 Time: 8:30am Summary: 1 couch, 1 mattress	Date: 9-27-2023 Time: 8:15am Summary: 10 bags of litter	Date: 9-27-2023 Time: 10:45am Summary: 3 bags of litter	Date: 9-25-2023 Time: 10:45am Summary: 1 table, 4 chairs Location: Del valle rd
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
October

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 10-3-2023 Time: 9:00am Summary: 4 bags of litter	Date: 10-05-2023 Time: 8:00am Summary: 10 bags of litter	Date: 10-05-2023 Time: 11:40am Summary: a load of bricks	Date: 10-04-2023 Time: 10:40am Summary: 3 bags of litter Location: Del Valle rd
Week 2	Date: 10-11-2023 Time: 8:30am Summary: 1 table, 3 chairs	Date: 10-12-2023 Time: 8:00am Summary: 11 bags of litter	Date: 10-12-2023 Time: 10:55am Summary: 2 mattresses	Date: 10-11-23 Time: 10:40am Summary: 1 couch. 1 tool box, 2 chairs Location: Del Valle rd
Week 3	Date: 10-19-2023 Time: 7:40am Summary: 3 tires, 1 mattress	Date: 10-17-2023 Time: 7:40am Summary: 10 bags of litter	Date: 10-17-2023 Time: 10:15am Summary: Tree clippings	Date: 10-19-2023 Time: 10:00am Summary: 6 bags of leaves Location: Del Valle rd
Week 4	Date: 10-24-2023 Time: 7:20am Summary: 3 bags of litter	Date: 10-26-2023 Time: 7:30am Summary: 8 bags of litter	Date: 10-26-2023 Time: 11:40am Summary: 4 bags of litter	Date: 10-24-2023 Time: 10:00am Summary: 5 bags of litter Location: Del Valle rd
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
November

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 11-8-2023 Time: 8:30am Summary: 3 tires, 1 table	Date: 11-6-2023 Time: 8:15am Summary: 9 bags of litter	Date: 11-6-2023 Time: 11:00am Summary: 4 bags of litter	Date: 11-8-2023 Time: 10:15am Summary: 3 bags of litter Location: Del Valle rd
Week 2	Date: 11-15-2023 Time: 9:15am Summary: 3 bags of litter	Date: 11-17-2023 Time: 10:20am Summary: 7 bags of litter	Date: 11-17-2023 Time: 1:15pm Summary: 1 mattress, 1 dresser	Date: 11-15-2023 Time: 11:30am Summary: 5 bags of leaves Location: Del Valle rd
Week 3	Date: 11-21-2023 Time: 8:20am Summary: 1 ice chest, 2 chairs, 1 mattress	Date: 11-22-2023 Time: 8:20am Summary: 10 bags of litter	Date: 11-23-2023 Time: 10:00am Summary: No litter	Date: 11-21-23 Time: 11:00am Summary:1 couch Location: Del Valle rd
Week 4	Date: 11-28-2023 Time: 9:15am Summary: 4 bags of litter	Date: 11-29-2023 Time: 8:00am Summary: 8 bags of litter	Date: 11-29-2023 Time: 10:15am Summary: 1 mattress, 3 tires, 5 chairs	Date: 11-28-2023 Time: 10:20am Summary: No litter Location: N/A
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Chiquita Canyon Landfill Litter Survey
December

	Chiquito Canyon Rd	SR-126	Wolcott Way/Franklin Parkway	Other areas within one mile radius of property boundary
Week 1	Date: 12-6-2023 Time: 8:45am Summary: 4 bags of litter	Date: 12-7-2023 Time: 8:00am Summary: 10 bags of litter	Date: 12-7-2023 Time: 10:15am Summary: 1 couch, 2 chairs	Date: 12-6-2023 Time: 1:30pm Summary: Tree Clippings Location: Del Valle rd
Week 2	Date: 12-12-203 Time: 9:00am Summary: 1 baby crib, 2 tires, 1 mattress	Date: 12-14-2023 Time: 7:30am Summary: 11 bags of litter, 1 car bumper	Date: 12-14-2023 Time: 11:00am Summary: 3 bags of litter	Date: 12-15-2023 Time: 12:45pm Summary: 5 bags of litter Location: Del Valle rd
Week 3	Date: 12-18-2023 Time: 8:30am Summary: 1 tables, 3 chairs, 1 desk	Date: 12-20-2023 Time: 9:15am Summary: 8 bags of litter, 3 tires	Date: 12-20-2023 Time: 11:00am Summary: pile of bricks	Date: 12-18-2023 Time: 10:15am Summary: 1 mattress,1 bed frame, 1 couch Location: Del Valle rd
Week 4	Date: 12-27-22023 Time: 8:00am Summary: 3 bags of litter	Date: 12-28-2023 Time: 7:30am Summary: 7 bags of litter	Date: 12-28-2023 Time: 10:45am Summary: Piles of Wood fencing.	Date: 12-27-2023 Time: 11:15am Summary: No litter found Location: N/A
Week 5	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary:	Date: Time: Summary: Location:

Appendix L

2023 Condition No. 108 Waste Origin Report

Condition No. 108 Annual Waste Origin Report

This Condition No. 108 Annual Waste Origin Report is prepared pursuant to Condition No. 108, which states that Chiquita Canyon Landfill (CCL) "shall submit to the Department of Public Works an annual report on the origin of Solid Waste and Beneficial Use Materials accepted at the Facility by jurisdiction of origin." The annual report is also to contain information on all waste haulers and self-haul customers utilizing the Facility, whether and why any waste haulers and self-haul customers were turned away from CCL, and the tipping fee charged for all waste haulers and self-haul customers. Condition No. 108 also requires CCL to not engage in predatory pricing that may discourage any private waste haulers or self-haul customers from utilizing the facility.

Solid Waste and Beneficial Use Materials by Jurisdiction of Origin

CCL prepares and submits waste origin reports to Los Angeles County Department of Public Works (LACDPW) via the Solid Waste Information Management System (SWIMS) portal. These reports address Solid Waste and Beneficial Use Materials accepted at CCL and identify material by jurisdiction of origin. The SWIMS origin reports are prepared and finalized according to the timing requirements of the SWIMS portal, which is quarterly. For example, the 4th quarter 2023 report is due March 15, 2024.

Waste Haulers and Self-Haul Customers Turned Away from the Facility

During the 2023 Reporting Period, no waste haulers or self-haul customers were turned away from the Facility.

Tipping Fees Charged to Waste Haulers and Self-Haul Customers

Tipping fees charged to self-haul customers are as posted on CCL's website: www.chiquitacanyon.com. Tipping fees for the 2023 Reporting Period are as shown in Table 1 on the following page.

Predatory Pricing

CCL does not have a hauling company, and so has no incentive to engage in predatory pricing. CCL has no policies that would discourage any private waste haulers and self-haul customers from utilizing the facility.

Table 1. Tipping Fees Charged to Waste Haulers and Self-Haul Customers

2023 Annual Compliance Report for Chiquita Canyon Landfill

Trash Loads	**Rate**
Pick-Up Trucks/Minimum Charge	$80 per ton (weighed by the ton – one ton minimum charge)
Vans or Cars	$80 per ton (weighed by the ton – one ton minimum charge)
Small Trailers – 8 feet or less	$80 per ton (weighed by the ton – one ton minimum charge)
End dumps, roll-offs, flat beds, etc.	$80 per ton (weighed by the ton – one ton minimum charge)
E-Waste, TV/Computers	$35 and up (depending on size)
Clean Dirt/Concrete/Asphalt	**Rate**
Pick-up Trucks/Small Trailers/Large Trucks/Large Trailers	$80 per ton (weighed by the ton – one ton minimum charge)
Other Material	**Rate**
Household Appliance	$35 (each)
Water Heathers	$35 (each)
Large pieces of furniture	$35 (each)
Mattresses, Box Spring	$35 (each)

Appendix M
Comments and Responses on the Draft 2023 Annual Compliance Report

I. Responses to Comments Provided on CCL Draft 2023 Annual Compliance Report

A. LACPW Responses to Comments

Responses to comments received from the Los Angeles County Department of Public Works (LACPW) are provided below.

LACPW Comments, June 7, 2024

Comment No.	Comment Summary	Response/ Resolution
1	**General Comments** For future draft annual reports, please use the previous year's final annual report as template to avoid receiving similar general comments. We noticed that the comments we provided in last year's draft annual report resembled much of the comments we provided below.	The previous year's final annual report will be used as a template for future submittals.
2	**Section 1 – Solid Waste and Beneficial Use Materials** **Table 1 – Summary of Material Received During the 2022 Reporting Period** For consistency with wastes reported to various agencies, please update the table to reflect the total tonnages reported on the attached zipped Implementation and Monitoring Plan – Part III Monthly Monitoring Reports, which are submitted to Public Works.	Table 1 has been updated with the total tonnages reported in the provided Implementation and Monitoring Plan – Part III Monthly Monitoring Reports that were submitted to Public Works.
3	**Section 1 – Solid Waste and Beneficial Use Materials** **Table 2 – Cumulative Totals of Waste Disposed** Please conduct a comprehensive review of data provided on Table 2 to ensure consistency with reported "Total Material Received" from previous and current reporting periods and revise the reported numbers accordingly to reflect the correct figures.	A comprehensive review of the data was conducted and the numbers were updated to reflect the results.
4	**Section 2 – Waste Disposal Plan** For future Annual Reports, please also provide the original electronic file (e.g. AutoCAD, MicroStation, etc.) of the landfill survey that was conducted for the reporting period.	The original electronic file of the landfill survey conducted for the reporting period will be provided for future Annual Reports.

5	**Section 3 – Weight to Volume Ratio**
	• In the second paragraph (last sentence), please revise "2022 compliance period" to "2023 compliance period."
	• Please make sure that the information provided in Table 4 are based on the latest available Annual Report by the County. If the landfill density values provided are not consistent with the latest 2022 Annual Report, please revise the table to reflect the latest information.
	  ○ Please revise "2021 Annual Report" to "2022 Annual Report"
	  ○ For your reference, here is the link to the 2022 Annual report: https://dpw.lacounty.gov/epd/swims/ShowDoc.aspx?id=17633&hp=yes&type=PDF
		The requested text changes have been made.
		Table 4 has been updated with the information provided in the 2022 Countywide Disposal Rate and Assessment of Disposal Capacity report.

LACPW Comments, June 7, 2024

Comment No.	Comment Summary	Response/ Resolution
6	**Section 3 – Weight to Volume Ratio** **Table 4 – Landfill Density Comparison** o Revise the column name for "Disposal Rate" to "Average Disposal Rate." o Revise the source from "LACPW 2022" to "Countywide Integrated Waste Management Plan – 2022 Annual Report."	Revisions made as requested.
7	**Section 6 – Complaint Summary** Since not all complaints provided on Table 6 are reported to CCL, please generalize the Table title to: "Summary of Reports Regarding Litter, Noise, Dust, and Odor Complaints."	Revisions made as requested.
8	**Section 7 – Citation and Notices of Violation Summary** Please make sure that inspection reports identifying violations by the Local Environmental Agency (LEA) are referenced in this report, specifically those dated 6/29/2023 and 9/1/2023. Please also provide a status update on these unresolved issues mentioned in other site inspection reports by the LEA, and if these issues have not been resolved, include them in the report.	Section 7 has been updated to reflect the LEA inspection reports, as well as to provide a status update on unresolved issues.
9	**Section 12 – Traffic Minimization** With the odor incident at CCL beginning in May 2023, please discuss how the truck trips and queuing associated with leachate transportation to offsite facilities are mitigated. This may require a revision to the Unnecessary Truck Trip and Queuing Minimization Plan.	Transportation of leachate has added approximately 45 trucks per day to CCL's operation. These additional truck trips are well within the number of truck trips evaluated in the 2017 EIR and have not resulted in offsite queuing of trucks.
10	**Section 14 – Landfill Gas Collection and Management** **Table 9 – Landfill Gas Collection Efficiency** Please provide an explanation for why the collection efficiency in 2023 was not included and, instead, is listed as "To Be Determined" (TBD).	Landfill gas collection efficiency for 2023 has been added to Section 14, as shown in updated Table 9.
11	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 12** Please include the Notice of Violation (NOV) received from Regional Planning for the violation of Conditions 12 and 63.	The NOV dated August 18, 2023, related to the violations of Conditions 12 and 63 was added to Condition 12 in Table F1.
12	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 54** Please ensure that the compliance status reflects the inclusion of Condition 54 into the Settlement Agreement, as approved by the Los Angeles County Board of Supervisors on October 11, 2022.	The Condition text has been updated as indicated.
13	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 63** Please include the Notice of Violation (NOV) received from Regional Planning for the violation of Conditions 12 and 63.	The NOV dated August 18, 2023, related to the violations of Conditions 12 and 63 was added to Condition 63 in Table F1.
14	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 68**	Revisions to Condition 68 in Table F1 have been made as requested, with the exception of reference to

LACPW Comments, June 7, 2024

Comment No.	Comment Summary	Response/ Resolution
	• CCL refers to the CAMP as Community Air Monitoring Protocol. However, the CAMP was typically referred to as the Community Air Monitoring Program. Please revise. • Please revise from "LADPW" to "LACPW." • Similar to comments provided last year, please include in the compliance status the discreet sampling performed by CCL as part of the CAMP Reports. As such, please include in the second to the last paragraph the following: "In addition, the consultant performed discrete sampling at the monitoring station locations for a variety of constituents outlined in the CAMP. The Third Quarter 2022 Community Air Monitoring Report was published in November 2022 and posted on the LADRP and CCL websites."	the Third Quarter 2022 Community Air Monitoring Report, which was revised to refer to the 2023 report, published in November 2023 on the LADRP and CCL websites.
15	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 69** Please include the information that since July 27, 2023, CCL has been submitting reports to various agencies pursuant to Condition 69 of the CUP.	Revisions to Condition 69 in Table F1 have been made as indicated.
16	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 77** Please ensure that the compliance status indicates that this Condition was challenged in a lawsuit filed by CCL and was incorporated into the Settlement Agreement approved by the Los Angeles County Board of Supervisors on October 11, 2022.	Revisions to Condition 77 in Table F1 have been made as indicated.
17	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 79** Please ensure that the compliance status indicates that this Condition was challenged in a lawsuit filed by CCL and was incorporated into the Settlement Agreement approved by the Los Angeles County Board of Supervisors on October 11, 2022.	Revisions to Condition 79 in Table F1 have been made as indicated.
18	**Appendix F, Table F1. CUP Compliance Status Summary Table** **Condition No. 125** Please note that this condition was challenged in a lawsuit by CCL and is part of the Settlement Agreement. Please revise the compliance status accordingly.	Revisions to Condition 125 in Table 1 have been made as indicated.
19	**Appendix F, Table F2. IMP Compliance Status Summary Table** **IMP Part VI** Please indicate if, and when, Public Works has approved the Waste Load Checking Program.	CCL has records of the Waste Load Checking Program being submitted to and approved by the Department of Public Health, but not by Public Works. CCL will submit the Program to LACPW for review and approval.

B. LADRP Responses to Comments

Responses to comments received from the Los Angeles County Department of Regional Planning (LADRP) are presented below.

LADRP Comments, June 7, 2024

Comment No.	Comment Summary	Response/Resolution
1	**General Comment** It appears that many edits that were made for the 2022 Final Annual Report were not carried over to the 2023 Draft report.	The previous year's final annual report will be used as a template for future submittals.
2	**Table of Contents** Section 7 of the TOC is missing LA County Planning's NOV and the numbering references the incorrect NOVs.	Revisions made as requested.
3	**Table F1 – CUP Compliance Status** Please carry forward clarification statements from the 2022 Final Annual Report related to conditions that were addressed or dismissed as a result of the Settlement Agreement. 1. For the conditions that will be modified as part of the settlement agreement (i.e., 1, 3, 7, 19, 23, 37, 38, 40, 43, 54, 77, 79, 111, 116-120, 123, 125, and 126), it should be noted that these conditions will be modified as part of the settlement agreement. Please add statement from the 2022 report: "CCL has a pending application to modify this condition to implement the settlement agreement that was approved by the Los Angeles County Board of Supervisors on October 11, 2022." 2. There are challenged conditions that were not addressed as part of the settlement agreement, including Conditions 9, 28, 29, 34, 35, 36, 39, 42, 48, 109, 115, 121, 122, 124, and IMP Part I. As there is no longer a nexus, please remove references to the lawsuit for these conditions. If CCL insists on keeping the language, please clarify and differentiate the status for these conditions accordingly. Please add from the 2022 report: "This settlement agreement resolves the challenge to this condition."	The compliance status for conditions that were addressed or dismissed as a result of the Settlement Agreement has been updated in Table F1. Revisions are consistent with the 2023 Annual Compliance Report and with the comments received.
4	**Table F1 – CUP Compliance Status** • Condition 8: During the 2023 Reporting Period, CCL made additional payments to LADRP of $25,952.13 on March 14, 2023, and $6,547.41 on May 31, 2023. • Condition 12: LA County Planning issued an NOV to CCL on August 18, 2023 for violation of Condition 12 of the CUP. Please update the compliance status for this table. • Condition 23: There is an exceedance in the facility annual maximum for solid waste (excluding beneficial use). Please clarify. I.e., 2023 Reporting Period Total for Municipal Solid Waste of 2,193,713.07 tons > 2,064,300 tons per CUP Condition 23(E)(1). • Condition 40: Please note any temporary extended hours of operation approved by other regulatory agencies (ex: Approval by LEA in November 2023 to address leachate).	The compliance status for Conditions Nos. 8, 12, 23, 40, 63, 64, and 125 has been updated consistent with the comments.

LADRP Comments, June 7, 2024

Comment No.	Comment Summary	Response/Resolution
	• Condition 63: LA County Planning issued an NOV to CCL on August 18, 2023 for violation of Condition 163 of the CUP. Please update the compliance status in this table. • Condition 64: Please note the limited use of LFGTE in 2023 due to the landfill reaction. • Condition 125A: On March 14, 2023, CCL deposited an additional $21,539.55 for Condition No. 125 Part A.	
5	**Table F2 – IMP Compliance Status** • Part XI: During the 2023 Reporting Period, in-person CAC meetings in 2023 were held on January 10, April 11, August 15, September 12, October 10, November 14, and December 12. A virtual option was provided beginning the November 14th meeting. • Part XIV – Add "The 2022 CCL Annual Compliance Report was certified during the June 29, 2023 TAC meeting."	Revisions made as requested.

C. LEA Responses to Comments

Responses to comments received from LEA are provided below.

LEA Comments, June 7, 2024

Comment No.	Comment Summary	Response/Resolution
1	**PDF page 26: 7.3 LEA NOVs** Confirming the following items notes: - LEA conducted inspections on September 19, 2023 and November 28, 2023. - LEA 9.19.23 inspection noted 2 violations – subsurface methane exceedance and leachate seepage. - LEA 11.28.2023 inspection noted 3 violations – subsurface methane exceedance, leachate seepage and maintenance for failure to keep all aspects of the site in a state of reasonable repair **LEA Comments:** The summary did not include the LEA's site inspection report dated October 25, 2023. Violations related to subsurface methane exceedance and leachate seepage were noted in the inspection report.	Section 7.3 has been updated to include the LEA's site inspection report dated October 25, 2023.
2	**PDF page 39: Section 13 – Odor Control and Mitigation** States that the OIMP is required to be prepared for approval by LACPW, LADRP, SCAWMD, LEA. The OIMP was submitted to the LEA on November 21, 2017 and no comments were provided by the LEA. **LEA Comments:** • The OIMP that is discussed in this section pertains to the landfill operation and is a requirement of the CUP 74, not the LEA requirement for disposal sites. • The OIMP is specific to compostable material handling operations and facilities (14 CCR 17863.4). CCL does not have an activity for composting that is pending (not actively composting), therefore, LEA did not comment.	Revisions to Section 13 have been made for clarification.
3	**PDF page 41 (bottom) continuing on next page – CalRecycle – Recommended Mitigation Measures** States the following are measures recommended by CalRecycle by letter on October 17, 2023 that are in addition to recommendations required by the SCAQMD's stipulated order: - Extend the geographic scope of the geosynthetic cover. - Apply and maintain a flexible membrane liner or light scrim over the remainder of the area affected by the landfill reaction. - Following installation of the flexible membrane liner or light scrim, operate gas wells in the reaction area at or below 5% oxygen using best management practices. - Install well boots seals on all wells in the reaction area. - Replace damaged, blocked, or pinched polyvinyl chloride wells. - Address wells with temperatures consistently over 170°F. - Measure leachate temperatures on a monthly basis. - Sample leachate for benzene and other volatile organic compounds on a quarterly basis.	Revisions have been made as requested.

Comment No.	Comment Summary	Response/Resolution
	- Obtain a drone with sensors that allow for GPS, methane, and instantaneous surface monitoring and use it on a biweekly basis - Add carbon monoxide concentration data to the monthly reports required by the Stipulated Order. **LEA Comments:** Some discrepancies between what CCL stated the LEA said and what the LEA actually said in the LEA letter: 1. Repair cracks in the soil cover within 48 hours in and around the Reaction Settlement Area and any well showing signs of a reaction (already implemented and ongoing per CCL). 2. Place and compact a minimum cover of 24 inches of 1 x10-6 low permeability soil in and around the Reaction Settlement Area and a radius of 30 feet of soil around any well with temperatures over 160ºF or CO concentrations over 1,500 ppmv (CCL plans to install geomembrane cover). 3. Install well boots seals on all wells in and adjacent to the Reaction Settlement Area and any wells with temperatures over 160ºF or CO concentrations over 1,500 ppmv (will begin doing so per CCL). 4. Replace all PVC wells that have been damaged, blocked, pinched, or that have gas temperatures over 145°F with steel wells (already implemented and ongoing per CCL). 5. Install additional steel wells in the Reaction Settlement Area and other areas where the gas extraction temperature exceeds 170°F to capture the additional gas generated by the incident (already implemented and ongoing per CCL). 6. Once additional gas extraction capacity is installed, remove all oxygen HOVs for interior gas wells and operate gas extraction wells with less than 3 percent oxygen where feasible. Use best management practices to keep oxygen below 5 percent in an interior well (one month following installation of flexible membrane liner/scrim installation per CCL). 7. Measure the leachate temperate at the liner level and all sumps (will begin November 2023). 8. Sample the leachate for benzene and other volatile organic compounds. Past incidents similar to Chiquita Canyon in Bridgeton and Bristol have shown that heating event increases the levels of VOCs in the leachate (will begin Q4 2024 per CCL). 9. Install temperature monitoring devices in and around the Reaction Settlement Area and other areas where gas temperatures exceed 170°F or CO over 1000 ppm. These devices should be installed within 25 ft. of a vertical LFG extraction well. These temperature devices should be able to sustain temperatures up to 750°F and be installed in boreholes up to 150 feet deep. The temperature devices should be spaced at 20-foot intervals and based on previous designs from SCS Engineering projects in Bridgton, San Diego, and Bristol. Since the temperature profiles were not successfully collected at the required enhanced gas wells C- 55R, CV-1418, CV-1419, CV-1532, CV-2202, CV-2204, H-1561C, H-1561N, below-ground	

Comment No.	Comment Summary	Response/Resolution
	temperature devices should be first installed at these wells (CCL requested to not have to implement). 10. The landfill owner should review available internal manifests or other documents as far back as possible to ensure no reactive material was accepted at this landfill (required by SCAQMD Stipulated Order, due Dec 8, 2023). 11. The landfill owner should hire an odor expert to determine which chemicals are causing the odor. A past expert at Bridgeton Landfill in Missouri identified a set of chemicals causing the greatest odor. Once the chemicals are identified, additional toxicological assessment can be performed (already implemented and ongoing per CCL). 12. Design and install a temporary geomembrane cover over the Reaction Settlement Area and other areas where gas temperatures have exceeded 170°F or CO over 1000 ppm once additional gas extraction capacity is operational (CCL plans to install geomembrane cover). 13. Consider installing remote telemetry technology to continuously collect and analyze landfill gas data at the collection wells. The real-time data and control platform can instantaneously measure and report wellhead temperatures, pressures, O2, CO, and methane concentrations. Remote access to the real-time data should be provided to regulatory agencies, i.e., SCAQMD (unnecessary at this time due to significant data being collected and potential of the technology to interfere with liquids extraction per CCL). 14. Consider utilizing a drone or land rover equipment with GPS, methane, and gas sensors to conduct daily instantaneous surface monitoring and provide real-time data throughout the Reaction Settlement Area and adjacent areas of concern. This technology can facilitate immediate operational changes, including flagging hot spots, surface cracks, and fissures (will begin December 2023 per CCL). 15. To better understand and communicate to the community if the heating/smoldering event is expanding or increasing in intensity, the CCL should submit monthly figures and data showing the reaction area, CO level, and temperature data (already implemented and ongoing and will add CO concentration data beginning 11/20/23 report to SCAQMD per CCL).	
4	**PDF page 42 (bottom) continuing on next page – CalRecycle Recommended Mitigation Measures** States that LEA-issued letter dated November 21, 2023 required CCL to implement the following: - Document and track figures, settlement, and tension tracks on a daily basis and submit weekly reports to the LEA. - Prepare a slope stability analysis work plan for LEA review and approval. - Install temperature monitoring devices in and around the reaction area.	The list of mitigation measures has been revised as requested.

Comment No.	Comment Summary	Response/Resolution
	- Prepare a soil reaction break/barrier plan. **LEA Comments:** The following are the Mitigation Measures (MM) required by the LEA as they are numbered and referred to in current correspondence: • MM 1A: Develop a soil reaction break/barrier plan • MM 1B: Install temperature monitoring probes to obtain necessary data. • MM 2A: Place and compact a minimum cover of 24 inches of low permeability soil in and around the reaction settlement area and any well showing signs of reaction • MM 2B: Develop a written plan that includes documentation and tracking of fissures, settlement, and tension cracks in the soil cover. • MM 3: Submit a workplan to perform a slope stability analysis for LEA review. • MM 4: Use the temperatures collected (MM 1B) to ensure manufacturer maximum temperature design specifications are met, such as for the French drain. The statements made regarding explanation and corrective actions are not confirmed by LEA. As the enforcement agency, the LEA does not comment beyond the scope of the California Health and Safety law and regulations, specifically CCR Title 14 and 27, and PRC.	

D. UltraSystems Responses to Comments

Responses to comments received from UltraSystems, Independent Monitor for LACPW, are provided below.

UltraSystems Comments, June 7, 2024

Comment No.	Comment Summary	Response/Resolution
1	**Section 8 – Landfill Vegetation** The report states, "During the 2023 reporting period, there were no areas of the landfill that required interim or final fill revegetation. See Appendix F for the compliance status of the mitigation measure contained in the MMRP, including those that address revegetation." Primary Canyon and B Canyon are closed landfill areas. A portion of Primary Canyon is being used for soil and material storage. When will these areas be fully closed and revegetated?	The approved Closure Revegetation Plan indicates that all areas of CCL will be revegetated following the final cover design proposed in the Preliminary Closure and Postclosure Maintenance Plan for Chiquita Canyon Landfill. Primary Canyon will be revegetated on the same schedule.
2	**Section 14 – Landfill Gas Collection** On page 14-2, the report has Table 9 showing landfill gas collection efficiency for 2018 through 2023. For 2023 it shows TBD. When will the percentage efficiency be calculated?	The final report has been updated with the 2023 landfill gas collection efficiency.
3	**SCS Engineers Report Data** When did the Ameresco gas-to-energy facility not operate in 2023?	During the 2023 reporting period, there were various periods of time when the Landfill Gas to Energy Plant was nonoperational or operated at reduced capacity for reasons including maintenance, utility outages, and poor gas quality.