

**ACME FILL CORPORATION**  
"Contra Costa County's Pioneer Sanitary Landfill"

LANDFILL OFFICE:  
950 Waterbird Way  
Martinez, California 94553

Phone: 925-228-7099  
Fax: 925-228-4484

MAILING ADDRESS:  
P.O. Box 1108  
Martinez, CA 94553

January 26, 2023

TV Tracking #: 676

1.  RECEIVED IN **01/30/2023**  
**ENFORCEMENT:** \_\_\_\_\_

Director of Compliance and Enforcement  
**Bay Area Air Quality Management District**  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: Title V Reports

**Subject:** Title V Monitoring Report for Plant 1464  
Acme Landfill, Contra Costa County

Dear Sir:

Enclosed please find the *Title V Monitoring Report* for Acme Fill Corporation (Acme), Plant 1464. The *Title V Monitoring Report* covers compliance and monitoring activities at the Acme Landfill from July 1, 2022 to December 31, 2022. Monitoring data collected by Acme to comply with the Major Facility Review Permit (MFR Permit) conditions, issued by the Bay Area Air Quality Management District on June 11, 2018, is appended to the report.

Should you have any questions regarding the monitoring report or the data, please contact me at (925) 228-7099.

Sincerely,



Patrick Lacey, CIH  
Compliance Manager

Enclosures

# TITLE V MONITORING REPORT

## ACME FILL CORPORATION BAAQMD PLANT 1464 MARTINEZ, CALIFORNIA

Prepared for:



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

January 2023

---

---

Prepared by:

### ACME FILL CORPORATION

"Contra Costa County's Pioneer Sanitary Landfill"

**LANDFILL OFFICE:**  
950 Waterbird Way  
Martinez, California 94553

Phone: 925-228-7099  
Fax: 925-228-4484  
Website: AcmeLandfill.com

**MAILING ADDRESS:**  
P.O. Box 1108  
Martinez, California 94553

---

---

---

# Title V Monitoring Report

Acme Fill Corporation  
BAAQMD Plant 1464  
Martinez, California

Prepared By  
Acme Fill Corporation

January 2023

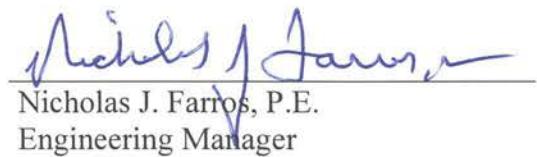
**Title V Monitoring Report**  
**Acme Fill Corporation**  
**BAAQMD Plant 1464**  
**Martinez, California**

The undersigned certify that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information and data submitted is, to the best of our knowledge and belief, true, accurate, and complete.

**Acme Fill Corporation**



Patrick Lacey, CIH  
Compliance Manager



Nicholas J. Farros, P.E.  
Engineering Manager

## TABLE OF CONTENTS

<b>TABLES AND ILLUSTRATIONS .....</b>	<b>iii</b>
<b>1. INTRODUCTION.....</b>	<b>1</b>
1.1 Compliance Summary .....	1
<b>2. SOURCE 1 - LANDFILL WITH GAS COLLECTION SYSTEM .....</b>	<b>2</b>
2.1 Operating Records.....	2
2.2 Flare Source Testing Results .....	3
2.3 Gas Collection and Emission Control Leak Testing.....	3
2.4 Wellhead Monitoring.....	4
2.5 Landfill Surface Emission Monitoring .....	4
2.6 Continuous Temperature and Flow Recorders .....	5
2.7 Miscellaneous Landfill Operating Records .....	5
<b>3. SOURCE 10 - IC ENGINE POWERING WASTE RECYCLER .....</b>	<b>7</b>
<b>4. SOURCE 200 - LEACHATE TREATMENT FACILITY .....</b>	<b>8</b>
<b>5. SOURCE 201 - EMERGENCY GENERATOR.....</b>	<b>9</b>

**APPENDIX A MONITORING VERIFICATION REPORT CHECKLIST**

**APPENDIX B CONTROL SYSTEM DAILY OPERATION RECORDS**

**APPENDIX C EAST PARCEL WASTE ACCEPTANCE DATA**

**APPENDIX D FLARE SOURCE TEST RESULTS**

**APPENDIX E COMPONENT LEAK TESTING DATA**

**APPENDIX F LANDFILL GAS WELLHEAD MONITORING DATA**

**APPENDIX G LANDFILL SURFACE EMISSION MONITORING DATA**

**APPENDIX H LEACHATE TREATMENT FLOW DATA**

## **TABLES AND ILLUSTRATIONS**

### **Figures**

- 1 Site Facilities Plan
- 2 East Parcel Landfill Gas Wells and Horizontal Collectors
- 3 North Parcel Landfill Gas Wells and Horizontal Collectors

# **1. INTRODUCTION**

Acme Fill Corporation (Acme) is submitting this Title V monitoring report to comply with the reporting provisions of the final Major Facility Review Permit (MFR Permit). This submittal also addresses the reporting requirements of the Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 411 (8-34-411). Acme is operating as Plant No. 1464 under a BAAQMD Permit to Operate that is renewed annually. The MFR Permit requires Acme to compile and submit compliance monitoring data to the BAAQMD once every six months. This is the fortieth Title V monitoring report prepared by Acme and it covers activities conducted at the Acme Landfill between July 1 and December 31, 2022. The MFR Permit that was issued to Acme on June 11, 2018 requires the submittal of reports once every six months for the reporting periods of January 1 through June 30 and July 1 through December 31.

## **1.1 Compliance Summary**

Acme has complied with the operation, monitoring, maintenance, and recordkeeping provisions of the MFR Permit and the 8-34 requirements during this reporting period. Copies of required monitoring and maintenance records are included as appendices to this report. Brief overviews of Acme's compliance status with respect to the MFR Permit and the 8-34 requirements are included in the following sections. The overviews are provided in the order that they are requested in Section VII of the MFR Permit and the 8-34-411 reporting requirements. The monitoring and maintenance records indicate that Acme is in compliance with the MFR Permit conditions. A completed Title V monitoring verification report checklist for this reporting period is included in Appendix A.

Acme received a MFR permit renewal from the BAAQMD on June 11, 2018. The renewed permit expires on June 10, 2023. Pursuant to Standard Condition B.1 of the MFR permit, Acme submitted a permit renewal application letter to the BAAQMD on October 20, 2022. BAAQMD fees associated with the permit renewal application were paid during this reporting period. Acme also received a letter from the BAAQMD dated September 5, 2018 granting approval of the less than continuous operation petition for the horizontal collectors on the North and East Parcels. The less than continuous operation petition is effective beginning March 25, 2018 and expires on March 24, 2021. Acme submitted a letter request to the BAAQMD on January 15, 2021 to extend the less than continuous operation of the horizontal collectors for an additional three years. BAAQMD staff is currently processing the extension request.

BAAQMD staff visited the Acme Landfill on August 24, 2022 to obtain copies of compliance reports that were submitted in 2019. Acme provided the requested report copies. No other compliance issues were identified during this brief BAAQMD visit.

## **2. SOURCE 1- LANDFILL WITH GAS COLLECTION SYSTEM**

The collection and control system consists of operating landfill gas extraction wells installed at the East and North Parcels connected to landfill gas processing facilities located in the southwest corner of the site (see Figure 1). This report does not include the closed South Parcel because the total in-place tonnage of refuse in this Parcel is less than 450,000 tons. The South Parcel is not contiguous with the other Acme Landfill Parcels and has been excluded from any MFR Permit requirements. The landfill gas processing facilities consist of a flare (abatement device A-2) and a gas compression plant used to deliver processed landfill gas to Central Contra Costa Sanitary District.

Acme operated the collection and control system at the site during the reporting period. The existing collection system consists of 29 extraction wells and three trenches at the East Parcel (see Figure 2) and 40 extraction wells and 25 horizontal collectors at the North Parcel (see Figure 3). As reported previously, Acme expanded the East Parcel collection system in 2014 by installing nine additional vertical landfill gas collection wells. Authority to construct these wells was included in Acme's MFR Permit. Except as described in the following sections, all of the extraction wells were operated continuously. The horizontal collectors were operated less than continuously consistent with MFR Permit condition #19906, Part 5. As described above, the BAAQMD provided a three-year extension of the less than continuous petition to Acme in a September 5, 2018 letter. Acme's less than continuous petition expires on March 24, 2021. BAAQMD staff are processing Acme's January 15, 2021 extension request. Testing and operation of the horizontal collectors is described below. Required operating records and data for the landfill gas collection and control system are also discussed.

### **2.1 Operating Records**

Acme collection and emission control system daily operation records are included in Appendix B. The daily summaries include gas flow rates, scheduled shutdowns, and unscheduled shutdowns along with a description of the shutdown occurrence. The landfill gas flare and gas compression plant can be operated independently or in combination. There was a total of 8.0 hours of gas compression plant scheduled shutdowns during this reporting period for general plant maintenance. The flare was operated continuously during these planned compression plant shutdowns. There were no reported unscheduled shutdowns of the gas plant or flare during the reporting period. The 8-34-113 requirements allow for up to 240 scheduled shutdown hours during any calendar year. Since the flare was operated continuously while the gas plant was shut down, there were no scheduled shutdowns of the emission control systems during the reporting period. The systems at Acme were therefore operated in compliance with the shutdown limitations during this reporting period.

As mentioned previously, the flare was operated for a total of 8.0 hours during this reporting period. The heat input to the flare during this operating period did not exceed the maximum daily MFR BTU permit limit. The heat input to the flare during this reporting period was approximately 194 million BTU which is well below the 412,650 million BTU per year limitation. Flare flow records including specific days and hours of operation and strip chart recorder data will be retained in Acme files for review by the BAAQMD upon request. The

operation records provided for this reporting period and for 2022 indicate that Acme Landfill is in compliance with MFR heat input limits and the 8-34-113 requirements.

The East Parcel accepted green waste, wood waste, construction and demolition debris, and other inert wastes during the reporting period. Daily summaries of waste on the acceptance from July 1 to December 31, 2022 are provided in Appendix C. There are no areas on the East or North Parcels at Acme Landfill that are excluded from the landfill gas collection system. Acme Landfill's calculated waste acceptance rate during the reporting period, approximately 72 tons per day, is well below the 1,500 tons per day MFR Permit limit.

## **2.2 Flare Source Testing Results**

Blue Sky Environmental completed source testing of the flare on June 22, 2022. Pursuant to a BAAQMD directive, an electronic copy of the source test report was submitted to the Source Test Section on August 2, 2022. Compliance testing was completed for the parameters listed in Condition #19906, Items 9 and 10 of the MFR Permit. Testing results demonstrate that the flare is being operated in compliance with the 8-34-301 emission criteria. Non-methane organic compounds (NMOC) were not detected in the flare outlet. Acme's MFR Permit allows for up to 30 parts per million (ppm) NMOC in the flare exhaust or greater than 98 percent removal by weight. Methane destruction efficiency was 99.977 percent which is in compliance with the 99 percent destruction efficiency limit. The inlet total reduced sulfur as hydrogen sulfide average concentration of 28.8 ppm was well below the 1,300 ppm permit limit. Testing of the untreated landfill gas for the volatile organic compound (VOC) parameters listed in Condition #19906, Item 10 of the MFR Permit was completed concurrent with the 2022 source test as specified in Blue Sky Environmental's source test plan. A summary of the source test results and VOC parameter testing results are included in Appendix D.

## **2.3 Gas Collection and Emission Control System Leak Testing**

Landfill gas wells and horizontal collectors are leak-tested quarterly to comply with the 8-34-303 requirements. Leak testing data are recorded in Appendix E. No leaks in excess of the 1,000 parts per million volume (ppmv) MFR Permit component limit were measured in North or East Parcel wells during the reporting period. PVC tape is routinely used to seal the annular space between North Parcel liner boots and the landfill gas wells to prevent leaks at these collectors. HDPE boots were installed over all the East Parcel wellheads during fourth quarter 2016. Bentonite chips have been placed around the East Parcel wells to provide a better seal at the ground surface/well head interface. The bentonite is hydrated and maintained to suppress leaks. In addition to the landfill gas wellhead work, flanges and boots on the North and East Parcel horizontal collectors were checked during this reporting period and resealed as necessary. The components tested were operated in compliance with the 8-34-303 requirements during the reporting period. Components on the pressure side of the gas plant were leak-tested on September 28 and December 21, 2022. No leaks were detected during this routine quarterly testing.

## **2.4 Wellhead Monitoring**

Acme completed monthly wellhead monitoring of the landfill gas wells during the reporting period for the parameters required by 8-34-305. A Landtec GEM 5000 instrument was used to measure the required wellhead monitoring parameters. This instrument is factory-calibrated annually and field-calibrated each month before use. Operation of the horizontal collectors and vertical wells on the North and East Parcels is described below.

Vacuum and pressure gauges installed on the North Parcel horizontal collectors were monitored monthly consistent with MFR Permit condition #19906, Part 5. Negative or static pressures were observed in the collectors during each of the monthly monitoring events. The isolation valves to each of the collector legs were therefore off during the reporting period. Gauge readings and gas quality results for the horizontal collectors are included in Appendix F. Malfunctioning gauges were replaced as they were identified. All of the North and East Parcel gas well measurements were in compliance with the 8-34-305 requirements during the monthly testing programs for this reporting period. Oxygen concentrations above 5 percent were detected in North Parcel well AW-24 in July 2022 and East Parcel well EW-42 during December 2022. These results may be attributable to leaking fittings or temporary depletion of gas at these locations. East Parcel wells EW-13, EW-22, EW-28 was not monitored during a portion of this reporting period because these wells were located in active waste filling areas.

Except for the oxygen results described above, the North Parcel vertical wells and East Parcel wells were in compliance with the 8-34-305 requirements for all parameters during monthly testing this period. Testing results are included in Appendix F. Gas quality in East Parcel horizontal collectors T-1 and T-3 was generally good throughout this reporting period and these wells were operated continuously. T-2 had poor gas quality throughout the reporting period but was operated continuously at a low flow rate. Low flow well heads manufactured by QED Environmental Systems have been installed at several North and East Parcel wells to facilitate better flow control of landfill gas from the system.

## **2.5 Landfill Surface Emission Monitoring**

Integrated and instantaneous surface emission monitoring (SEM) was implemented at the East Parcel during third and fourth quarter 2022 as required by CCR Title 17 §95460 through 95476. The East Parcel was monitored within 2 inches of the Parcel surface along approximately 100-foot intervals in 50,000 square feet grids using AB-32 compliant Trimble SiteFID™ Landfill Gas Monitors. A figure showing the East Parcel grid layout is included in Appendix G. Monitoring results are discussed below.

There were no exceedances of the 25 ppmv integrated criteria or 500 ppmv instantaneous criteria during third or fourth quarter 2022 monitoring at the East Parcel. Monitoring results for each of the quarterly monitoring programs are summarized in Appendix G including tabular summaries of locations with measurements between 200 and 500 ppmv.

Site wind speed data was collected on the days that East Parcel SEM was performed using a portable data-logging anemometer. Acme has applied for an alternative compliance option (ACO) with the California Air Resources Board (CARB) that proposes termination of monitoring when the average wind speed exceeds 10 miles per hour or the instantaneous wind speed exceeds 20 miles per hour. The anemometer data indicates that wind speeds were within the ACO criteria during both third and fourth quarter 2022 monitoring. Acme will continue to use its best efforts to obtain SEM data when the wind is within the ACO criteria. Wind speed monitoring data is also presented in Appendix G.

Based on the results obtained during these two SEM events, the East Parcel is in compliance with methane surface emission standards specified in CCR Title 17 § 95465 and therefore no additional corrective action is necessary. Complete monitoring data for these two events, including background and meter calibration data, will be maintained in the engineering office at the Acme Landfill.

## **2.6 Continuous Temperature and Flow Recorders**

As mentioned previously, the landfill gas flare was operated for 8.0 hours during the reporting period. Flare temperature graphs for this period of operation has been recorded using a strip chart recorder. Temperatures above the 3-hour average 1,400 °F MFR Permit criteria were maintained while the flare was being operated. Recorder data documenting compliance with the MFR Permit criteria will be retained in Acme files for review by the BAAQMD upon request. Daily gas flow meter readings are summarized in Appendix B. The gas flow meters are calibrated to ensure the accuracy of the measurements. Gas flow meter calibration data is retained in Acme's files and can be submitted to the BAAQMD upon request.

## **2.7 Miscellaneous Landfill Operating Records**

Acme maintains and operates a water truck to control dust emissions from the unpaved roadways at the site. A summary of the watering records for the reporting period containing the data required by the MFR Permit condition #19906, Part 11 is maintained at the Acme Landfill office. Note that road watering is completed only when necessary, during the wet season. There were some days during this reporting period when use of the water truck was not necessary because the rainy weather precluded dust emissions from the roads at the site. Acme also measured hydrogen sulfide concentrations in the raw landfill gas on a quarterly basis during the reporting period as required by MFR Permit condition #19906, Part 8. Hydrogen sulfide levels in the gas were measured using a calibrated RKI Eagle 2 instrument. The readings recorded during this reporting period, 27.0 ppmv on September 22, 2022 and 23.0 ppmv on December 21, 2022, are significantly below the 1,300-ppm MFR Permit limit. The levels recorded with the Eagle 2 instrument are similar to those measured by Blue Sky Environmental during the June 2022 source test.

Acme performed routine maintenance on the landfill gas extraction well network during the reporting period including periodic taping of liner boot seals, draining condensate from header lines, replacing landfill gas sampling ports on the well heads, replacing well identification stickers, and replacing malfunctioning gauges on the North Parcel horizontal collectors.

Temporary shutdowns of wells were completed consistent with the 8-34-117 requirements. Well disconnection times and activities completed on these existing gas collection and control system components have been documented and will be retained in Acme files for review by the BAAQMD upon request. Descriptions of the maintenance work completed at the landfill gas wellheads during routine monthly testing are included on the field data forms provided in Appendix F.

### **3. SOURCE 10 – IC ENGINE POWERING WASTE RECYCLER**

Acme used a diesel-fueled waste recycler manufactured by Peterson Pacific Corporation to chip wood and green wastes received at the landfill during the reporting period. An hour meter connected to the engine records waste recycler operating hours. The waste recycler was operated for a total of 37.1 hours during this reporting period and 54.7 hours for 2022. The waste recycler hour meter log and diesel fuel consumption records will be retained in Acme files and submitted upon request. Acme is permitted to operate the waste recycler for up to 1,200 hours during any consecutive 12-month period so this unit is being operated in compliance with the hour restriction. California-certified diesel was used to fuel the waste recycler during the reporting period. Vendor certifications of sulfur content were included on every invoice received and are being retained in Acme files for review by the BAAQMD upon request. Water was used to moisture condition wood and green waste before chipping. Acme has installed a dedicated water line at the green waste chipping area to facilitate moisture conditioning of the waste and preclude fugitive emissions. Excessive visible particulate emissions were not observed while the waste recycler was operated and no fallout of particulate on adjacent property occurred during the reporting period.

## **4. SOURCE 200 – LEACHATE TREATMENT FACILITY**

Influent and effluent leachate samples are collected and analyzed annually for the VOCs specified by MFR Permit condition #19908, Part 2. The VOC results and daily flow rate data are used to calculate VOC and benzene emissions from the leachate treatment plant. A 75 percent biodegradation efficiency factor is included in the emissions calculations. VOC and benzene emissions calculated using data from an August 2, 2022 sample are well below the criteria included in the MFR Permit, condition #19908, Part 1. Daily leachate flow rates were below the 72,000-gallon per day limit during the reporting period. Leachate treatment plant analytical and flow rate data are included in Appendix H. Airflow rates to the aeration tanks are being retained in Acme files for review by the BAAQMD upon request.

## **5. SOURCE 201 – EMERGENCY GENERATOR**

Acme maintains an 80-horsepower, 25-kilowatt emergency generator at the leachate treatment plant to ensure maximum run time at the plant and enable compliance with other regulatory requirements at the site. Acme received a permit from the BAAQMD to operate the emergency generator in a December 5, 2003 letter. An hour meter is connected to the engine and is read and recorded monthly to comply with the permit conditions. The generator was operated for a total of 1.7 hours for inspection and maintenance during this reporting period and 2.3 hours for 2022. CARB requirements limit the inspection and maintenance run time of this engine to less than 20 hours per year. No emergency run time was necessary during this reporting period. The emergency generator is being operated in compliance with MFR permit conditions.

### LEGEND

#### EXISTING FACILITIES

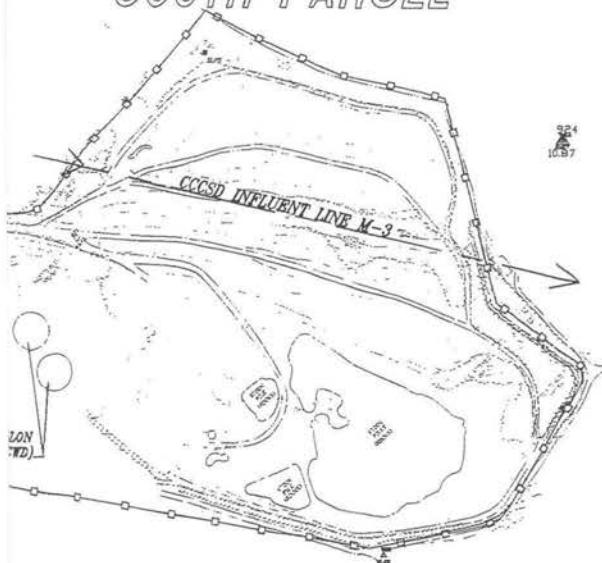
- △ AERIAL FLIGHT CROSS (BENCHMARK)
- FH FIRE HYDRANT
- TREE
- ~ FLAGPOLE
- SECURITY FENCING
- UT— UTILITY TRENCH & PULL BOX
- W— WATER LINE
- [diagonal hatching] ASPHALT STOCKPILE

### I.T. BAKER FACILITY



300 150 0 300 600 900  
SCALE IN FEET  
1"=300'

### SOUTH PARCEL



DATE	JANUARY 2016	BY	DATE	REVISION
SCALE	AS SHOWN	JMM	1/09	△ REVISED TO SHOW UTILITY TRENCH, ASPHALT
DESIGNED	NJF			FLAGPOLE & TREES
DRAWN	FCB	JMM	4/09	△ REVISED TO SHOW ADDITIONAL UTILITY TRENCH
CHECKED	NJF			ADDITIONAL TRENCH SECTION DETAIL

POST-CLOSURE PERMIT APPLICATION

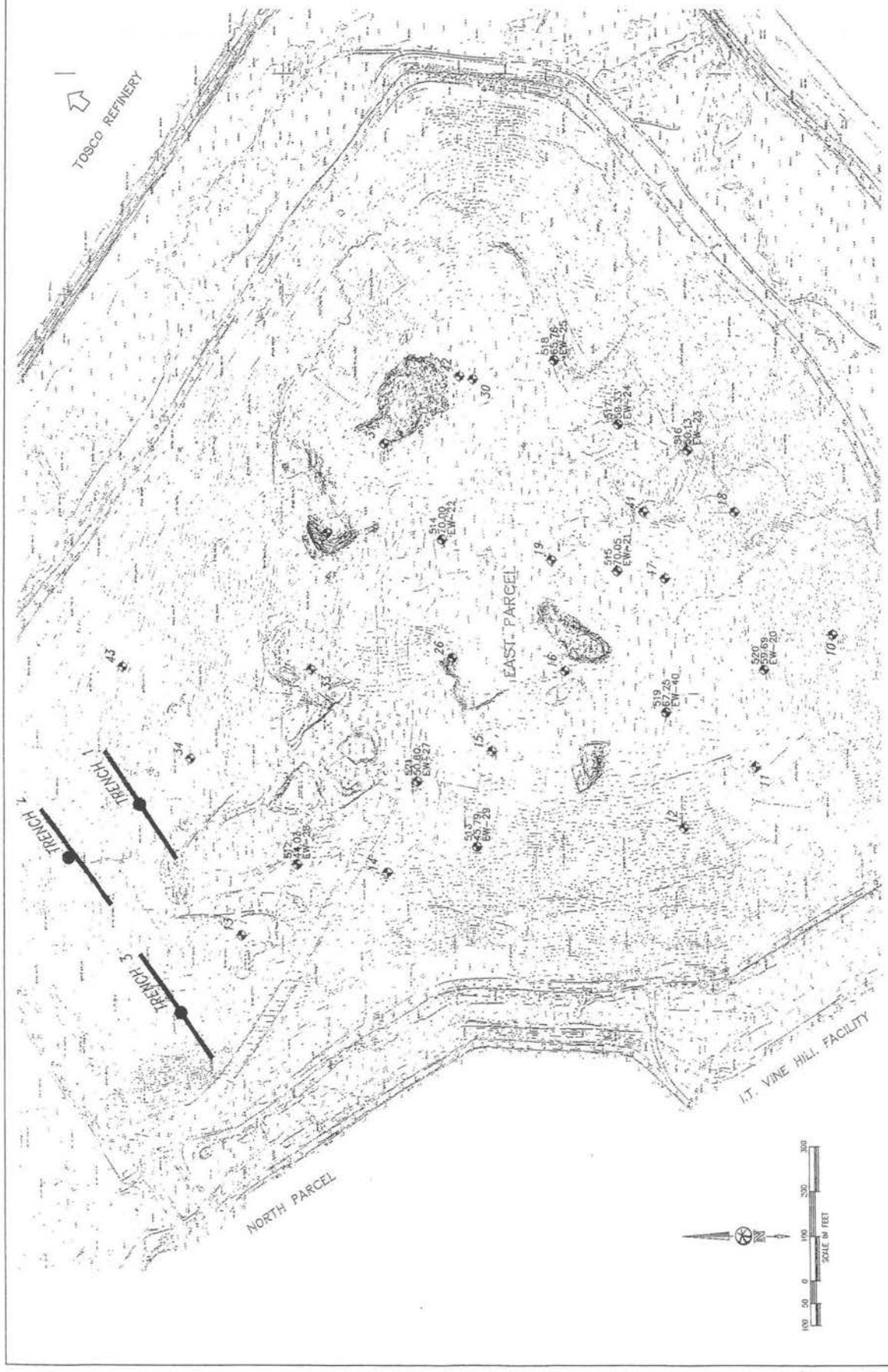
FIGURE

ES PLAN

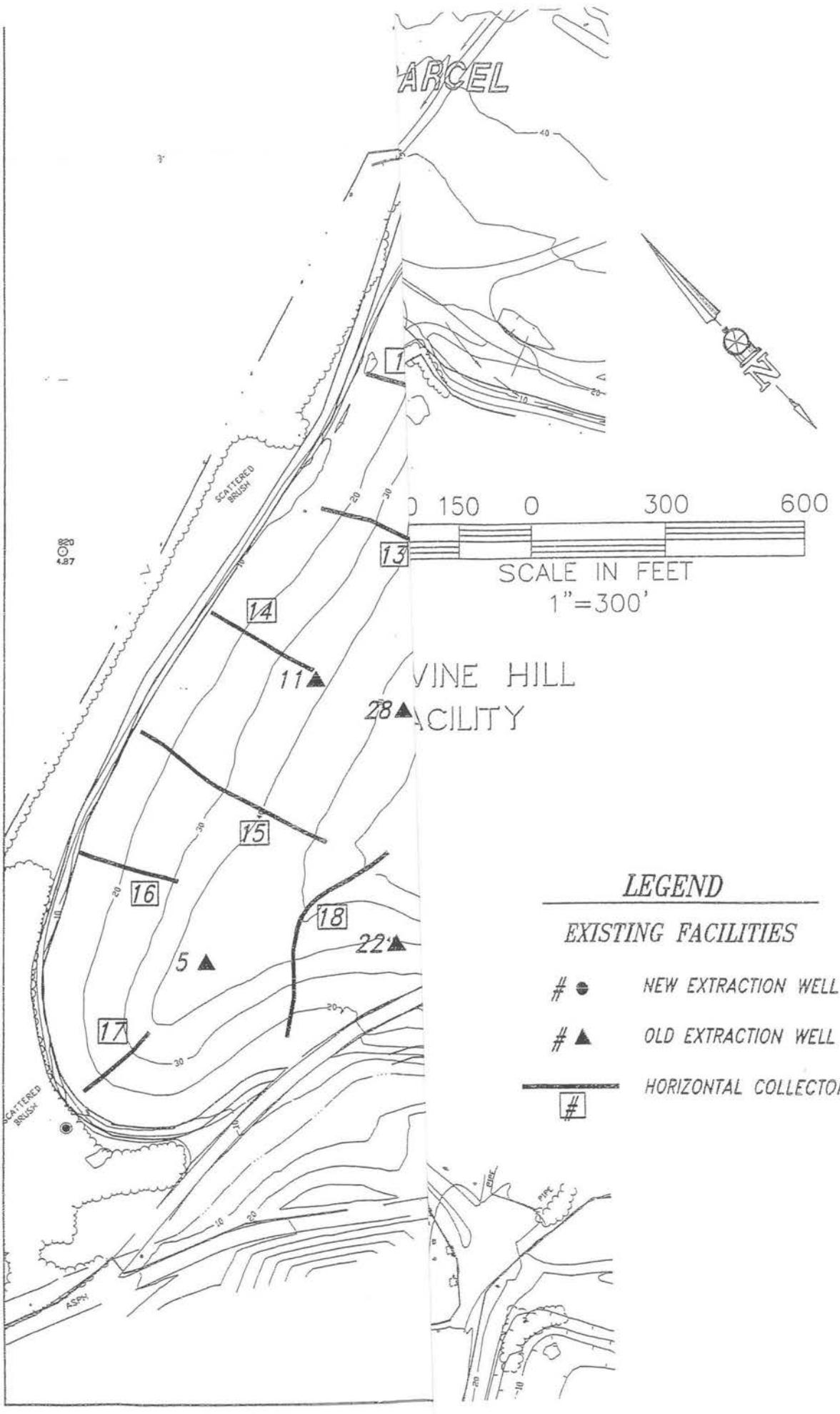
COUNTY

CALIFORNIA

1  
JOB NO.  
05006



EAST PARCEL LANDFILL GAS WELLS AND HORIZONTAL COLLECTORS				SITE PLAN	FIGURE 2
DATE SCALE	APPROVAL BY DATE	DESIGNED DRAWN	CHECKED	CONTRA COSTA COUNTY	JOB ACME 13010
APRIL 2014 1" = 100'				Bellecci & Associates, inc. CBG Engineering • Land Development Surveying • Civil Engineering Phone (925) 893-2800 Fax (925) 893-4338 6327 Gorham Valley Road Napa, CA 94558	EAST PARCEL MARTINEZ CALIFORNIA



<b>FIGURE 3</b>		<b>NORTH PARCEL LANDFILL GAS WELLS &amp; HORIZONTAL COLLECTORS, EXISTING CONDITIONS</b>	
<b>CALIFORNIA</b>		<b>CONTRA COSTA COUNTY</b>	
JOB # 02022	MARTINEZ	BY DATE	REVISIONS

**BELLECCI & ASSOCIATES, INC.**  
Civil Engineering • Land Planning • Surveying  
2575 Bridlewood Drive  
El Dorado Hills, CA 95762  
PHONE (916) 656-4560 FAX (916) 656-4559

**W.F.**  
Civil Engineering  
Solid Waste Management  
Construction Management  
2575 Bridlewood Drive  
El Dorado Hills, CA 95762  
Phone (916) 656-0400 Fax (916) 656-6471

## **Appendix A**

### **Monitoring Verification Report Checklist**

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

Source #: S-1 Source Name: Acme Landfill with Gas Collection System						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
Collection System Installation Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E Records
Collection System Installation Dates	BAAQMD 8-34-304.2	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E Records
Collection System Installation Dates	BAAQMD 8-34-304.3	Y		For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E Records

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Yes	Compliance No
Collection System Installation Dates	40 CFR 60.753 (a)(2) and 60.755 (b)(2)	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2), and 60.759(a)(3)	P/E	Records		
Collection System Installation Dates	40 CFR 60.753 (a)(1) and 60.755 (b)(1)	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2)	P/E	Records		
Gas Flow	BAAQMD Condition # 19906, Parts 3, 4, 5	Y		70 Vertical wells, 28 horizontal collectors; All collected landfill gas shall be vented to a properly operating control system	BAAQMD Condition # 19906, Parts 11e-i	C, P/D	Gas Flow Meter and Recorder, and Records		
Gas Flow	BAAQMD Condition # 19906, Part 5	Y		Vertical wells shall operate continuously. Horizontal collectors may operate intermittently.	BAAQMD Condition # 19906, Parts 5a-d and 11e-i	C, P/M, P/E	Gas Flow Meter and Recorder, Wellhead Pressure, Oxygen, and Methane, and Records		

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes), Records	✓
Gas Flow	BAAQMD 8-34-404	Y		Specified landfill gas collection system components may operate less than continuously	BAAQMD Condition # 19906, Part 5	P/M	Wellhead Pressure, Oxygen, and Methane, Gas Flow, and Records	✓
Gas Flow	40 CFR 60.752 (b)(2)(iii) and 40 CFR 60.753(a) and (c)	Y		Operate a collection system in each area or cell, vent all collected gases to a properly operating control system, and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records	✓

**Title V Semianual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		≤ 240 hours/year and ≤ 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating Records	✓
Collection and Control Systems Startup Shutdown or Malfunction	40 CFR 60.755(e)	Y		For Collection System: < 5 days per event and For Control System: < 1 hour per event	40 CFR 60.7(b), 60.757(f) (2-4)	P/D	Operating Records (all occurrences and duration of each)	✓
Startup Shutdown or Malfunction Procedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)	✓
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		< 15 consecutive days per incident and ≤ 30 calendar days per 12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors	✓

*See Report*

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Yes
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors	✓
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig (applies to all wells or collectors that are connected to the vacuum system)	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly Inspection and Records	✓
Wellhead Pressure	40 CFR 60.753(b)	Y		< 0 psig (Applies to all wells or collectors that are connected to the vacuum system)	40 CFR 60.755(a)(3), 60.756(a)(1), and 60.758(c) and (e)	P/M	Monthly Inspection and Records	✓
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 °C (Applies to all wells or collectors that are connected to the vacuum system)	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records	✓
Temperature of Gas at Wellhead	40 CFR 60.753(c)	Y		< 55 °C (Applies to all wells or collectors that are connected to the vacuum system)	40 CFR 60.755(a)(5), 60.756(a)(3), and 60.758(c) and (e)	P/M	Monthly Inspection and Records	✓

**Title V Semianual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Gas Concentrations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y	N <sub>2</sub> <20% OR O <sub>2</sub> <5% (Applies to all wells or collectors that are connected to the vacuum system)	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records	✓
Gas Concentrations at Wellhead	40 CFR 60.753(c)	Y	N <sub>2</sub> <20% OR O <sub>2</sub> <5% (Applies to all wells or collectors that are connected to the vacuum system)	40 CFR 60.755(a)(5), 60.756(a)(2), and 60.758(e) and (e)	P/M	Monthly Inspection and Records	✓
Well Shutdown Limits	BAAQMD 8-34-116.2	Y	No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5 and 501.1	P/D	Records	✓
Well Shutdown Limits	BAAQMD 8-34-116.3	Y	≤ 24 hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records	✓
Well Shutdown Limits	BAAQMD 8-34-117.4	Y	No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records	✓
Well Shutdown Limits	BAAQMD 8-34-117.5	Y	≤ 24 hours per well or ≤ 5 days per well for component replacements	BAAQMD 8-34-117.6 and 501.1	P/D	Records	✓

*See Report*

*See Report*

*See Report*

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane 503	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with portable analyzer and Records	✓ Yes
TOC	BAAQMD 8-34-303	Y		Surface Leak Limit: ≤ 500 ppmv as methane at 2 inches above surface 501.6, 506 and 510	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection of surface with portable analyzer, Various Reinspection Times for Leaking Areas, and Records	✓ Yes

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

Source #: S-1 Source Name: Acme Landfill with Gas Collection System						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
						Monitoring Type
TOC	40 CFR 60.753(d)	Y		Surface Leak Limit: ≤ 500 ppmv as methane at 5-10 cm from surface	40 CFR 60.755(c)(1), (4) and (5), 60.756(f), and 60.758(c) and (e)	P/M, Q and E
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3	Y		≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% O <sub>2</sub> , expressed as methane (applies to flare only)	BAAQMD 8-34-412 and 8- 34-501.4 and BAAQMD Condition # 19906, Part 9	P/A
NMOC	40 CFR 60.752(b) (2)(iii)(B)	Y		≥ 98% removal by weight OR < 20 ppmvd @ 3% O <sub>2</sub> , expressed as hexane (applies to flare only)	40 CFR 60.8 (2)(iii)(B) and 60.758 (b)(2)(ii)	P/E

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY No. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Temperature of Combustion Zone (CT)	BAAQMD Condition # 19906, Part 7	Y		CT $\geq$ 1400°F, averaged over any 3-hour period (applies to flare only)	BAAQMD 8-34-501.3 and 507, and BAAQMD Condition # 19906, Part 11j	C	Temperature Sensor and Recorder (continuous)	
Temperature of Combustion Zone (CT)	40 CFR 60.758 (c)(1)(i)	Y		CT (3-hour average) $\geq$ (CT <sub>PF</sub> - 28 °C), where CT <sub>PF</sub> is the average combustion temperature during the most recent complying performance test (applies to flare only)	40 CFR 60.756(b)(1) and 60.758 (b)(2)(i)	C	Temperature Sensor and Recorder (measured every 15 minutes and averaged over performance test time period and 3-hours)	
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to S-1 Landfill Operations)	BAAQMD Condition # 19906, Part 11d	P/E, M	Records of all site watering and road cleaning events	

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source #: S-1 Source Name: Acme Landfill with Gas Collection System**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to flare)	None	N	NA	✓
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 grains/dscf (applies to flare only)	None	N	NA	✓
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA	✓
SO <sub>2</sub>	BAAQMD 9-1-302	Y		Exhaust Gas From Flare: ≤ 300 ppm (dry basis)	BAAQMD Condition # 19906, Part 8	P/Q	Sulfur analysis of landfill gas and Records	✓
Hydrogen Sulfide Content in Landfill Gas	BAAQMD Condition # 19906, Part 8	Y		≤ 1300 ppmv	BAAQMD Condition # 19906, Part 8 and 10.	P/Q	H <sub>2</sub> S Analysis of Landfill Gas and Records	✓

**Title V Semiannual Monitoring Verification Report Checklist**  
**ACME FILL CORPORATION, 950 WATERBIRD WAY, MARTINEZ, CALIFORNIA 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

Source #: S-1 Source Name: Acme Landfill with Gas Collection System						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
						Monitoring Type
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N
Amount of Waste Accepted	BAAQMD Condition # 19906, Part 1	Y		≤ 1500 tons/day and ≤ 11,348,000 tons (cumulative amount of all wastes) and ≤ 22,522,000 yd <sup>3</sup> (cumulative amount of all wastes and cover materials)	BAAQMD Condition # 19906, Part 11a	P/D
Heat Input	BAAQMD Condition # 19906, Part 6	Y		≤ 1375 MM BTU per day and ≤ 412,560 MM BTU per year	BAAQMD Condition # 19906, Part 6	P/D

**Title V Semiannual Monitoring Verification Report Checklist**  
**Acne Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**SOURCE#: S-10 SOURCE NAME: WASTE RECYCLER**

Type of Limit	Citation of Limit	FF Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Operating Time	BAAQMD Condition # 21474, Part 1	Y		≤ 1200 hours during any consecutive 12-month period	BAAQMD Condition # 21474, Part 8a	P/D	Daily Record of Operating Hours	✓
Waste Storage Time	BAAQMD Condition # 21474, Part 2	Y		≤ 14 days from time of receipt, provided waste is not odorous; AND ≤ 72 hours from time of receipt, if waste is or becomes odorous;	BAAQMD Condition # 21474, Part 8b-c	P/E	Records	✓
Waste Storage Limit	BAAQMD Condition # 21474, Part 3	Y		Cumulative Volume of Green Waste: <u>≤ 1500 yd<sup>3</sup></u> on-site at any one time	BAAQMD Condition # 21474, Part 8b-c	P/E	Records	✓
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		≤ Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 21474, Part 7	P/E	Observation of Source in Operation	✓
Opacity	BAAQMD Condition # 21474, Part 6	Y		<Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 21474, Part 7	P/E	Observation of Source in Operation	✓

**Title V Semianual Monitoring Verification Report Checklist**  
**Acme Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**SOURCE#: S-10 SOURCE NAME: WASTE RECYCLER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
FP	BAAQMD 6-1-311 and SIP 6-311	Y		E = 0.026(P) <sup>0.67</sup> where: E = Allowable Emission Rate (lb/hr); and P = Process Weight Rate (lb/hr) Maximum Allowable Emission Rate = 40 lb/hr For P > 57,320 lb/hr	None	N	NA	

**Title V Monitoring Semiannual Monitoring Verification Report Checklist**  
**Acme Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

*See Report*

SOURCE #: S-200 SOURCE NAME: LEACHATE TREATMENT PLANT						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
Total Carbon	BAAQMD 8-2-301 and SIP 8-2-301	Y		≤ 15 pounds/day, or ≤ 300 ppm, dry basis, in an exhaust stack	BAAQMD Condition # 19908, Parts 2 and 4	P/D & P/E
VOC	BAAQMD Condition # 19908, Part 1a	Y		≤ 0.63 pounds in any consecutive 24 hour period	BAAQMD Condition # 19908, Parts 2 and 4	P/D & P/E
Benzene	BAAQMD Condition # 19908, Part 1b	Y		≤ 0.05 pounds in any consecutive 24 hour period	BAAQMD Condition # 19908, Parts 2 and 4	P/D & P/E
Leachate Flow	BAAQMD Condition # 19908, Part 3	Y		≤ 72,000 gallons per day	BAAQMD Condition # 19908, Part 4	P/D Daily Records

**Title V Semianual Monitoring Verification Report Checklist**  
**Acme Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

Source # S-201 Source Name: Emergency Standby Diesel Engine-Generator Set						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
Opacity	BAAQMD 6-1-303 and SIP 6-303	Y		≤Ringelmann 2.0 for 3 minutes in any hour	BAAQMD Condition # 24451, Part 5	P/E Observation of Source in Operation
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 gr/cscf	None	N/A
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 minutes and ≤0.05 ppm for 24 hours	None	N/A

**Title V Semianual Monitoring Verification Report Checklist**  
**Acme Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

Source # S-201 Source Name: Emergency Standby Diesel Engine-Generator Set						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
Liquid Fuel Sulfur Content	BAAQMD 9-1-304	Y		≤ 0.5% sulfur by weight	CCR, Title 13, section 2281(a) (2 and 5), CCR, Title 17, Sections 93115.5 and 93115.10, and BAAQMD Conditions # 24175, Part 8e-f, and # 24551, Part 4e	P/E
Liquid Fuel Sulfur Content	CCR Title 17, Section 93115.5 (b) and CCR, Title 13, section 2281(a) (2 and 5)	N		Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: ≤ 15 ppmw of S (for fuel sold after 6/1/06)	CCR, Title 17, Sections 93115.5 and 93115.10 and BAAQMD Conditions # 24175, Part 8e-f, and # 24551, Part 4e	P/E

**Title V Semianual Monitoring Verification Report Checklist**  
**Acme Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

**Source # S-201 Source Name: Emergency Standby Diesel Engine-Generator Set**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Operating Hours for Reliability-Related Activities:	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance No
Operating Hours	CCR, Title 17, Section 93115.6 (b)(3)(A) (1)(a)	N		Operating Hours for Reliability-Related Activities: ≤ 20 hours in a calendar year (for engines emitting ≥ 0.40 g/bhp-hr of diesel PM)	CCR, Title 17, Section 93115.10 (d)(1) and (f)(1)	P/C & P/M	Hour Meter and Records	✓	
Operating Hours	BAAQMD 9-8-330.2	N	expires 1/1/12	Operating Hours for Reliability-Related Activities: ≤ 100 hours in a calendar year	BAAQMD 9-8-530	P/C & P/M	Hour Meter and Records	✓	
Operating Hours	BAAQMD 9-8-330.3	N	1/1/12	Operating Hours for Reliability-Related Activities: ≤ 20 hours in a calendar year	BAAQMD 9-8-530 and BAAQMD Condition # 24451, Part 4	P/C & P/M	Hour Meter and Records	✓	
Hours of Operation	40 CFR 63.6640 (f)(1)(ii)	Y	5/3/13	≤100 hours each per calendar year for maintenance checks and readiness testing	40 CFR 63.6625(f) and 63.6655(f)(2)	C and P/M	Totalizing meter for hours of operation and Records	✓	

**Title V Semiannual Monitoring Verification Report Checklist**  
**Acme Fill Corporation, 950 Waterbird Way, Martinez, California 94553**  
**FACILITY NO. 1464, REPORTING PERIOD: JULY 1, 2022 TO DECEMBER 31, 2022**

Source # S-201 Source Name: Emergency Standby Diesel Engine-Generator Set						
Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)
					C and P/M	Totalizing meter for hours of operation and Records
Hours of Operation	40 CFR 63.6640 (f)(1)(iii)	Y	5/3/13	≤50 hours each per calendar year or non-emergency operation	40 CFR 63.6625(f) and 63.6655(f)(2)	✓
Engine idle time during startup	40 CFR 63.6625(h)	Y	5/3/13	≤30 minutes	None	N/A
Schedule for oil and filter change	Table 2d 4.a. to 40 CFR Part 63 Subpart ZZZZ	Y	5/3/13	Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	✓
Schedule for air cleaner inspection	Table 2d 4.b. to 40 CFR Part 63 Subpart ZZZZ	Y	5/3/13	Every 1,000 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	✓
Schedule for hose and belt inspection	Table 2d 4.c. to 40 CFR Part 63 Subpart ZZZZ	Y	5/3/13	Every 500 hours of operation or annually, whichever comes first	40 CFR 63.6655(e)	✓
Operating Hours	BAAQMD Condition # 24451, Part 1	N		Operating Hours for Reliability-Related Activities: ≤ 20 hours in a calendar year	BAAQMD 9-8-530 and BAAQMD Condition # 24451, Part 4	✓ ✓

## **Appendix B**

### **Collection and Emission Control System Daily Operation Records**

## MEMORANDUM

---

**TO:** Pat Lacey  
**FROM:** Chris Charrette  
**DATE:** January 12, 2023  
**SUBJECT:** July 2022 Flare Gas BTU Compliance Report

---

Pat:

Below, I have supplied all the information necessary to satisfy item 6 of the *Permit to Operate No. 5630, ACME Landfill, Solid Waste Disposal Site with Active Gas Collection System 60 Vertical Wells*.

The monthly BTU value, 504, calculated using Blue Sky Environmental, LLC source testing results analyzed 6-22-2022.

A-2 Landfill Gas Flare – Monthly Totals

Landfill Gas Flare Average Flow rate – 710 cfm

**July 2022 – Total Run Time, 5.0 Hours**

Maximum Daily Heat Input – 107,352,000 Btu  
Total Monthly Heat Input – 107,352,000 Btu

**Scheduled Shutdown – Total hours, 5.0 Hours**

**Unscheduled Shutdown – Total Hours, 0.0 Hours**

Chris Charrette

**BULLDOG LFG SUPPLY FOR July 2022**

DATE	Gas Yard LFG Unadjusted Flow <sup>(1)</sup>	Gas Yard LFG Pressure	Gas Yard LFG Temperature	Gas Chromatograph Specific Gravity	Gas Yard LFG P, T, and SG Corrected <sup>(2)</sup>	Days Excluded From Average	Days Ops feedback
	F84216 KCFD	P84215 PSIG	T84214 DEGF	A84214	F84216B KSCFD		
07/01/22	665	22.7	76.0	0.963	454		
07/02/22	636	23.0	74.3	0.964	436		
07/03/22	683	22.5	75.9	0.966	465		
07/04/22	609	23.3	77.7	0.965	418		
07/05/22	573	23.4	78.7	0.964	393		No LFG events
07/06/22	675	22.6	77.5	0.966	458		
07/07/22	550	23.7	78.0	0.966	378		No LFG events
07/08/22	514	24.0	77.8	0.965	355		No LFG events
07/09/22	723	22.2	77.7	0.969	488		
07/10/22	725	22.2	79.9	0.964	490		
07/11/22	779	21.6	80.4	0.963	522		
07/12/22	757	21.9	78.8	0.967	509		
07/13/22	676	22.6	78.9	0.969	457		
07/14/22	735	22.0	79.2	0.968	494		
07/15/22	698	22.4	78.7	0.970	472		
07/16/22	646	22.9	80.3	0.966	440		
07/17/22	563	23.6	80.5	0.964	386		
07/18/22	569	23.5	81.2	0.971	389		
07/19/22	600	23.4	80.0	0.970	410		
07/20/22	692	22.4	79.8	0.970	467		
07/21/22	557	21.5	80.1	0.969	376	x	Bulldog outage
07/22/22	622	23.1	80.2	0.969	423		
07/23/22	665	22.7	78.9	0.970	451		
07/24/22	707	22.3	79.4	0.971	476		
07/25/22	650	22.8	79.1	0.973	442		
07/26/22	644	22.9	79.3	0.974	437		
07/27/22	582	23.4	79.7	0.972	397		
07/28/22	620	23.1	78.3	0.969	423		
07/29/22	690	22.4	78.2	0.970	466		
07/30/22	677	22.6	78.6	0.973	458		
07/31/22	679	22.6	78.7	0.974	459		
				Total	13,689		
	LFG BTU A84216 BTU/CF			Average <sup>3</sup>	444		

Average Monthly BTU value, per agreement

505

Standard Deviation

10

<sup>(1)</sup> F84216 "Gas Yard LFG Unadjusted Flow" = Flow rate measured by plant control system based on orifice plate design conditions of 65 psig and 80 °F. This measurement is not adjusted to actual pipeline conditions.

<sup>(2)</sup> Unadjusted flow corrected to billing conditions of 60 °F and 14.73 psia using the following equation:

$$Q_c = Q_u \sqrt{\left(\frac{P}{P_d}\right) \times \left(\frac{T_d}{T}\right)} \times \sqrt{\frac{T_{s,b}}{T_{s,o}}} \times \sqrt{\frac{SG_d}{SG}}$$

Where:

$Q_c$  = Gas Yard LFG P&T Corrected Flow (F84216B) KSCFD

$Q_u$  = Gas Yard LFG Unadjusted Flow (F84216) KCFD

P = Gas Yard LFG Pressure (P84215 + 14.7) psia

T = Gas Yard LFG absolute Temperature (T84214 + 460) °R

SG = Specific Gravity as measured by Gas Chromatograph (A84214)

$P_d$  = Orifice Design Pressure = 65 psig = 79.7 psia

$T_d$  = Orifice Design Temperature = 80 °F = 540 °R

$SG_d$  = Orifice Design Specific Gravity based on gas composition = 0.965

$T_{s,o}$  = Orifice Standard Conditions Temperature = 68 °F = 528 °R

$T_{s,b}$  = Billing Standard Conditions Temperature = 60 °F = 520 °R

<sup>(3)</sup> Excludes days with full or partial outages. Outage days are noted as excluded.

version updated in December 2018

## MEMORANDUM

---

**TO:** Pat Lacey  
**FROM:** Chris Charrette  
**DATE:** January 12, 2023  
**SUBJECT:** August 2022 Flare Gas BTU Compliance Report

---

Pat:

Below, I have supplied all the information necessary to satisfy item 6 of the *Permit to Operate No. 5630, ACME Landfill, Solid Waste Disposal Site with Active Gas Collection System 60 Vertical Wells.*

The monthly BTU value, 504, calculated using Blue Sky Environmental, LLC source testing results analyzed 6-22-2022

A-2 Landfill Gas Flare – Monthly Totals

Landfill Gas Flare Average Flow rate – 0 cfm

**August 2022 – Total Run Time, 0.0 Hours**

Maximum Daily Heat Input – 0 Btu  
Total Monthly Heat Input – 0 Btu

**Scheduled Shutdown – Total hours, 0.0 Hours**

**Unscheduled Shutdown – Total Hours, 0.0 Hours**

Chris Charrette

**BULLDOG LFG SUPPLY FOR August 2022**

	Gas Yard LFG Unadjusted Flow <sup>(1)</sup>	Gas Yard LFG Pressure	Gas Yard LFG Temperature	Gas Chromatograph Specific Gravity	Gas Yard LFG P, T, and SG Corrected <sup>(2)</sup>	Days Excluded From Average	Days Ops feedback
DATE	F84216 KCFD	P84215 PSIG	T84214 DEGF	A84214	F84216B KSCFD		
08/01/22	640	22.9	76.4	0.973	435		
08/02/22	745	21.9	78.1	0.972	500		
08/03/22	728	22.1	78.1	0.970	490		
08/04/22	683	22.6	77.4	0.972	463		
08/05/22	568	23.5	76.4	0.974	389		
08/06/22	588	23.3	76.3	0.973	402		
08/07/22	590	23.3	76.4	0.972	403		
08/08/22	560	23.6	76.5	0.970	385		
08/09/22	633	22.9	76.3	0.971	431		
08/10/22	733	22.0	76.7	0.974	493		
08/11/22	630	22.9	76.5	0.972	430		
08/12/22	615	23.1	76.0	0.970	421		
08/13/22	633	23.0	76.6	0.973	431		
08/14/22	690	22.5	77.9	0.972	467		
08/15/22	685	22.5	78.3	0.972	464		
08/16/22	712	22.3	79.2	0.970	480		
08/17/22	683	22.6	78.5	0.975	462		
08/18/22	687	22.5	78.0	0.975	464		Burnout
08/19/22	620	23.0	77.9	0.975	422		
08/20/22	646	22.8	78.7	0.975	438		
08/21/22	692	22.4	77.0	0.975	467		
08/22/22	654	22.8	77.6	0.975	443		Burnout
08/23/22	623	23.0	78.7	0.975	422		
08/24/22	716	22.3	77.6	0.975	482		
08/25/22	734	22.0	77.0	0.975	493		
08/26/22	770	21.7	76.9	0.975	515		Burnout
08/27/22	640	22.9	76.9	0.975	434		
08/28/22	724	22.2	76.6	0.975	487		
08/29/22	738	22.0	77.1	0.975	496		
08/30/22	766	21.7	77.3	0.975	512		
08/31/22	674	22.6	76.8	0.975	455		
			Total		14,076		
	LFG BTU A84216 BTU/CF		Average <sup>3</sup>		454		

Average Monthly BTU value, per agreement      **491**  
 Standard Deviation                                    3

<sup>(1)</sup> F84216 "Gas Yard LFG Unadjusted Flow" = Flow rate measured by plant control system based on orifice plate design conditions of 65 psig and 80 °F. This measurement is not adjusted to actual pipeline conditions.

<sup>(2)</sup> Unadjusted flow corrected to billing conditions of 60 °F and 14.73 psia using the following equation:

$$Q_c = Q_u \sqrt{\left(\frac{P}{P_d}\right) \times \left(\frac{T_d}{T}\right)} \times \sqrt{\frac{T_{s,b}}{T_{s,o}}} \times \sqrt{\frac{SG_d}{SG}}$$

Where:

$Q_c$  = Gas Yard LFG P&T Corrected Flow (F84216B) KSCFD

$Q_u$  = Gas Yard LFG Unadjusted Flow (F84216) KCFD

P = Gas Yard LFG Pressure (P84215 + 14.7) psia

T = Gas Yard LFG absolute Temperature (T84214 + 460) °R

SG = Specific Gravity as measured by Gas Chromatograph (A84214)

$P_d$  = Orifice Design Pressure = 65 psig = 79.7 psia

$T_d$  = Orifice Design Temperature = 80 °F = 540 °R

$SG_d$  = Orifice Design Specific Gravity based on gas composition = 0.965

$T_{s,o}$  = Orifice Standard Conditions Temperature = 68 °F = 528 °R

$T_{s,b}$  = Billing Standard Conditions Temperature = 60 °F = 520 °R

<sup>(3)</sup> Excludes days with full or partial outages. Outage days are noted as excluded.  
 version updated in December 2018

## MEMORANDUM

---

**TO:** Pat Lacey  
**FROM:** Chris Charrette  
**DATE:** January 12, 2023  
**SUBJECT:** September 2022 Flare Gas BTU Compliance Report

---

Pat:

Below, I have supplied all the information necessary to satisfy item 6 of the *Permit to Operate No. 5630, ACME Landfill, Solid Waste Disposal Site with Active Gas Collection System 60 Vertical Wells.*

The monthly BTU value, 504, calculated using Blue Sky Environmental, LLC source testing results analyzed 6-22-2022.

**A-2 Landfill Gas Flare – Monthly Totals**

Landfill Gas Flare Average Flow rate – 0 cfm

**September 2022 – Total Run Time, 0.0 Hours**

Maximum Daily Heat Input – 0 Btu  
Total Monthly Heat Input – 0 Btu

**Scheduled Shutdown – Total hours, 0.0 Hours**

**Unscheduled Shutdown – Total Hours, 0.0 Hours**

Chris Charrette

battery died on 8/20. Bulldog provided some HHV data - 489 BTU/CF is used for days that data wasn't provided.  
0.975 is used for Specific Gravity.

BULLDOG LFG SUPPLY FOR September 2022

	Gas Yard LFG Unadjusted Flow <sup>(1)</sup>	Gas Yard LFG Pressure	Gas Yard LFG Temperature	Gas Chromatograph Specific Gravity	Gas Yard LFG P, T, and SG Corrected <sup>(2)</sup>	Days Excluded From Average	Days Excluded From Ops feedback
DATE	F84216	P84215	T84214	A84214	F84216B		
09/01/22	KCFD	PSIG	DEGF	0.975	503		
09/02/22	751	21.9	78.5	0.975	492		
09/03/22	733	22.1	77.6	0.975	397		
09/04/22	582	23.4	78.8	0.975	498		
09/05/22	745	21.9	79.3	0.975	416		
09/06/22	619	23.4	83.3	0.975	333	x	Outage
09/07/22	490	24.2	87.0	0.975	483		
09/08/22	719	22.2	80.6	0.975	503		
09/09/22	755	21.8	81.2	0.975	438		
09/10/22	649	22.8	80.1	0.975	463		
09/11/22	687	22.5	77.6	0.975	427		
09/12/22	634	22.2	77.9	0.975	465		
09/13/22	691	22.2	77.6	0.975	429		
09/14/22	629	23.0	75.7	0.975	467		
09/15/22	691	22.4	76.6	0.975	495		
09/16/22	736	22.0	76.0	0.975	483		
09/17/22	716	22.3	76.0	0.975	502		Burnout
09/18/22	751	21.7	74.4	0.975	433		
09/19/22	634	23.0	73.7	0.975	433		
09/20/22	633	23.1	74.8	0.975	430		
09/21/22	634	23.1	74.6	0.975	428		
09/22/22	636	22.9	74.7	0.975	428		
09/23/22	635	23.0	75.1	0.975	436		
09/24/22	650	22.9	76.0	0.975	448		
09/25/22	670	22.6	76.4	0.975	473		
09/26/22	710	22.2	75.2	0.975	464		
09/27/22	694	22.4	74.5	0.975	503		
09/28/22	758	21.8	74.0	0.975	372	x	Outage/Burnout
09/29/22	556	21.0	75.4	0.975	427		
09/30/22	634	23.0	75.0	0.975	454		
				Total	13,522		
		LFG BTU		Average <sup>3</sup>	458		
		A84216					
		BTU/CF					

Average Monthly BTU value, per agreement **499**  
Standard Deviation **23**

<sup>(1)</sup> F84216 "Gas Yard LFG Unadjusted Flow" = Flow rate measured by plant control system based on orifice plate design conditions of 65 psig and 80 °F. This measurement is not adjusted to actual pipeline conditions.

<sup>(2)</sup> Unadjusted flow corrected to billing conditions of 60 °F and 14.73 psia using the following equation:

$$Q_c = Q_u \sqrt{\left(\frac{P}{P_d}\right) \times \left(\frac{T_d}{T}\right)} \times \sqrt{\frac{T_{s,b}}{T_{s,o}}} \times \sqrt{\frac{SG_d}{SG}}$$

Where:

$Q_c$  = Gas Yard LFG P&T Corrected Flow (F84216B) KSCFD

$Q_u$  = Gas Yard LFG Unadjusted Flow (F84216) KCFD

P = Gas Yard LFG Pressure (P84215 + 14.7) psia

T = Gas Yard LFG absolute Temperature (T84214 + 460) °R

SG = Specific Gravity as measured by Gas Chromatograph (A84214)

$P_d$  = Orifice Design Pressure = 65 psig = 79.7 psia

$T_d$  = Orifice Design Temperature = 80 °F = 540 °R

$SG_d$  = Orifice Design Specific Gravity based on gas composition = 0.965

$T_{s,o}$  = Orifice Standard Conditions Temperature = 68 °F = 528 °R

$T_{s,b}$  = Billing Standard Conditions Temperature = 60 °F = 520 °R

<sup>(3)</sup> Excludes days with full or partial outages. Outage days are noted as excluded.  
version updated in December 2018

## MEMORANDUM

---

**TO:** Pat Lacey  
**FROM:** Chris Charrette  
**DATE:** January 12, 2023  
**SUBJECT:** October 2022 Flare Gas BTU Compliance Report

---

Pat:

Below, I have supplied all the information necessary to satisfy item 6 of the *Permit to Operate No. 5630, ACME Landfill, Solid Waste Disposal Site with Active Gas Collection System 60 Vertical Wells.*

The monthly BTU value, 504, calculated using Blue Sky Environmental, LLC source testing results analyzed 6-22-2022.

A-2 Landfill Gas Flare Monthly Totals

Landfill Gas Flare Average Flow rate – 0 cfm

**October 2022 – Total Run Time, 0.0 Hours**

Maximum Daily Heat Input – 0 Btu  
Total Monthly Heat Input – 0 Btu

**Scheduled Shutdown – Total hours, 0.0 Hours**

**Unscheduled Shutdown – Total Hours, 0.0 Hours**

Chris Charrette

NOTE: Gas Chromatography Analyzer battery died in September. Bulldog provided majority of this October's HHV data - 492 BTU/CF is used for the 11 days where data wasn't provided. After analyzing the Specific Gravity values for 2021 and 2022, 0.960 has been used for Specific Gravity.

BULLDOG LFG SUPPLY FOR October 2022

	Gas Yard LFG Unadjusted Flow <sup>(1)</sup> F84216	Gas Yard LFG Pressure P84215	Gas Yard LFG Temperature T84214	Gas Chromatograph Specific Gravity A84214	Gas Yard LFG P, T, and SG Corrected <sup>(2)</sup> F84216B	Days Excluded From Average	Gas Yard LFG P, T, and SG KSCFD	Days Excluded From Ops feedback
DATE	KCFD	PSIG	DEGF					
10/01/22	702	22.3	73.9	0.960		469		
10/02/22	653	22.8	74.3	0.960		439		
10/03/22	728	22.0	73.8	0.960		483		
10/04/22	741	22.0	73.6	0.960		493		
10/05/22	657	22.9	74.5	0.960		440		
10/06/22	759	21.7	74.5	0.960		503		
10/07/22	775	21.6	74.8	0.960		512		
10/08/22	771	21.7	74.1	0.960		510		
10/09/22	727	22.1	73.1	0.960		484		
10/10/22	675	22.6	73.2	0.960		453		
10/11/22	716	22.2	72.4	0.960		478		
10/12/22	751	21.8	72.6	0.960		499		
10/13/22	730	22.1	71.9	0.960		487		
10/14/22	736	22.0	71.9	0.960		490		
10/15/22	812	21.2	72.0	0.960		535		
10/16/22	833	20.9	71.5	0.960		547		
10/17/22	705	22.2	71.6	0.960		470		
10/18/22	705	22.2	72.7	0.960		470		
10/19/22	783	21.5	73.2	0.960		517		
10/20/22	739	21.9	72.5	0.960		491		
10/21/22	618	23.1	70.2	0.960		418		
10/22/22	647	22.9	70.1	0.960		438		
10/23/22	726	22.1	69.6	0.960		485		
10/24/22	809	21.2	70.1	0.960		534		
10/25/22	834	20.9	70.3	0.960		548		
10/26/22	798	21.4	69.2	0.960		529		
10/27/22	749	21.9	68.9	0.960		499		
10/28/22	719	22.1	68.4	0.960		481		
10/29/22	701	22.4	68.6	0.960		471		
10/30/22	735	22.0	68.8	0.960		491		
10/31/22	686	22.6	67.7	0.960		463		
				Total	15,128			
	LFG BTU A84216 BTU/CF			Average <sup>3</sup>	488			

Average Monthly BTU value, per agreement      **492**  
 Standard Deviation                                11

<sup>(1)</sup> F84216 "Gas Yard LFG Unadjusted Flow" = Flow rate measured by plant control system based on orifice plate design conditions of 65 psig and 80 °F. This measurement is not adjusted to actual pipeline conditions.

<sup>(2)</sup> Unadjusted flow corrected to billing conditions of 60 °F and 14.73 psia using the following equation:

$$Q_c = Q_u \sqrt{\left(\frac{P}{P_d}\right) \times \left(\frac{T_d}{T}\right)} \times \sqrt{\frac{T_{s,b}}{T_{s,o}}} \times \sqrt{\frac{SG_d}{SG}}$$

Where:

$Q_c$  = Gas Yard LFG P&T Corrected Flow (F84216B) KSCFD

$Q_u$  = Gas Yard LFG Unadjusted Flow (F84216) KCFD

P = Gas Yard LFG Pressure (P84215 + 14.7) psia

T = Gas Yard LFG absolute Temperature (T84214 + 460) °R

SG = Specific Gravity as measured by Gas Chromatograph (A84214)

$P_d$  = Orifice Design Pressure = 65 psig = 79.7 psia

$T_d$  = Orifice Design Temperature = 80 °F = 540 °R

$SG_d$  = Orifice Design Specific Gravity based on gas composition = 0.965

$T_{s,o}$  = Orifice Standard Conditions Temperature = 68 °F = 528 °R

$T_{s,b}$  = Billing Standard Conditions Temperature = 60 °F = 520 °R

<sup>(3)</sup> Excludes days with full or partial outages. Outage days are noted as excluded.

version updated in December 2018

## MEMORANDUM

---

**TO:** Pat Lacey  
**FROM:** Chris Charrette  
**DATE:** January 12, 2023  
**SUBJECT:** November 2022 Flare Gas BTU Compliance Report

---

Pat:

Below, I have supplied all the information necessary to satisfy item 6 of the *Permit to Operate No. 5630, ACME Landfill, Solid Waste Disposal Site with Active Gas Collection System 60 Vertical Wells.*

The monthly BTU value, 504, calculated using Blue Sky Environmental, LLC source testing results analyzed 6-22-2022.

**A-2 Landfill Gas Flare – Monthly Totals**

Landfill Gas Flare Average Flow rate – 0 cfm

**November 2022 – Total Run Time, 0.0 Hours**

Maximum Daily Heat Input – 0 Btu  
Total Monthly Heat Input – 0 Btu

**Scheduled Shutdown – Total hours, 0.0 Hours**

**Unscheduled Shutdown – Total Hours, 0.0 Hours**

Chris Charrette

September. Bulldog provided majority of the November HHV data. The average of the HHV data that was provided 505 BTU/CF is used for the 10 days where data wasn't provided. After analyzing the Specific Gravity values for 2021 and 2022, 0.960 has been used for Specific Gravity

BULLDOG LFG SUPPLY FOR November 2022

DATE	Gas Yard LFG Unadjusted Flow <sup>(1)</sup>	Gas Yard LFG Pressure	Gas Yard LFG Temperature	Gas Chromatograph Specific Gravity	Gas Yard LFG P, T, and SG	Days Excluded From Average	Ops feedback
	F84216 KCFD	P84215 PSIG	T84214 DEGF	A84214	F84216B KSCFD		
11/01/22	750	21.9	66.0	0.960	502		
11/02/22	743	21.9	66.1	0.960	497		
11/03/22	758	21.7	65.8	0.960	506		
11/04/22	737	21.7	65.9	0.960	494		
11/05/22	564	21.7	65.2	0.960	387		
11/06/22	638	21.7	65.1	0.960	433		
11/07/22	751	21.7	64.1	0.960	503		
11/08/22	737	21.7	62.0	0.960	496		
11/09/22	736	21.7	63.5	0.960	495		
11/10/22	779	21.7	63.3	0.960	519		
11/11/22	730	21.7	62.5	0.960	491		
11/12/22	714	21.7	62.9	0.960	482		
11/13/22	711	21.7	62.4	0.960	480		
11/14/22	705	21.7	61.4	0.960	477		
11/15/22	726	21.7	61.8	0.960	489		
11/16/22	722	21.7	61.7	0.960	487		
11/17/22	670	21.7	60.6	0.960	455		
11/18/22	725	21.7	61.1	0.960	489		
11/19/22	711	21.7	60.7	0.960	481		
11/20/22	575	21.7	58.2	0.960	391		
11/21/22	202	21.7	49.7	0.960	139	Outage CCCSD valve issue	
11/22/22	640	21.7	59.4	0.960	438		
11/23/22	683	21.7	60.1	0.960	465		
11/24/22	715	21.7	59.9	0.960	484		
11/25/22	732	21.7	59.5	0.960	494		
11/26/22	657	21.7	59.4	0.960	449		
11/27/22	627	21.7	59.3	0.960	428		
11/28/22	625	21.7	58.8	0.960	422	Outage (2hrs)	
11/29/22	709	21.7	58.1	0.960	481		
11/30/22	624	21.7	57.8	0.960	427		
				Total LFG BTU A84216 BTU/CF	13,782		
				Average <sup>3</sup>	459		

Average Monthly BTU value, per agreement

505

Standard Deviation

25

<sup>(1)</sup> F84216 "Gas Yard LFG Unadjusted Flow" = Flow rate measured by plant control system based on orifice plate design conditions of 65 psig and 80 °F. This measurement is not adjusted to actual pipeline conditions.

<sup>(2)</sup> Unadjusted flow corrected to billing conditions of 60 °F and 14.73 psia using the following equation:

$$Q_c = Q_u \sqrt{\left(\frac{P}{P_d}\right) \times \left(\frac{T_d}{T}\right)} \times \sqrt{\frac{T_{s,b}}{T_{s,o}}} \times \sqrt{\frac{SG_d}{SG}}$$

Where:

$Q_c$  = Gas Yard LFG P&T Corrected Flow (F84216B) KSCFD

$Q_u$  = Gas Yard LFG Unadjusted Flow (F84216) KCFD

$P$  = Gas Yard LFG Pressure (P84215 + 14.7) psia

$T$  = Gas Yard LFG absolute Temperature (T84214 + 460) °R

$SG$  = Specific Gravity as measured by Gas Chromatograph (A84214)

$P_d$  = Orifice Design Pressure = 65 psig = 79.7 psia

$T_d$  = Orifice Design Temperature = 80 °F = 540 °R

$SG_d$  = Orifice Design Specific Gravity based on gas composition = 0.965

$T_{s,o}$  = Orifice Standard Conditions Temperature = 68 °F = 528 °R

$T_{s,b}$  = Billing Standard Conditions Temperature = 60 °F = 520 °R

<sup>(3)</sup> Excludes days with full or partial outages. Outage days are noted as excluded.

version updated in December 2018

## MEMORANDUM

---

**TO:** Pat Lacey  
**FROM:** Chris Charrette  
**DATE:** January 12, 2023  
**SUBJECT:** December 2022 Flare Gas BTU Compliance Report

---

Pat:

Below, I have supplied all the information necessary to satisfy item 6 of the *Permit to Operate No. 5630, ACME Landfill, Solid Waste Disposal Site with Active Gas Collection System 60 Vertical Wells.*

The monthly BTU value, 510, calculated using Blue Sky Environmental, LLC source testing results analyzed 7-8-2022.

A-2 Landfill Gas Flare – Monthly Totals

Landfill Gas Flare Average Flow rate – 950 cfm

**December 2022 – Total Run Time, 3.0 Hours**

Maximum Daily Heat Input – 86,184,000 Btu  
Total Monthly Heat Input – 86,184,000 Btu

**Scheduled Shutdown – Total hours, 3.0 Hours**

**Unscheduled Shutdown – Total Hours, 0.0 Hours**

Chris Charrette

BULLDOG LFG SUPPLY FOR December 2022

September. Bulldog provided a majority of the December HHV data (column I). In the cell below, you'll see the average of the HHV data that was provided. 506 BTU/CF is used for the 12 days where data wasn't provided. After analyzing the Specific Gravity values for 2021 and 2022, 0.960 has been used for Specific Gravity.

DATE	Gas Yard LFG Unadjusted Flow <sup>(1)</sup>	Gas Yard LFG Pressure	Gas Yard LFG Temperature	Gas Chromatograph Specific Gravity	Gas Yard LFG P, T, and SG Corrected <sup>(2)</sup>	Days Excluded From Average	Ops feedback
	F84216 KCFD	P84215 PSIG	T84214 DEGF	A84214	F84216B KSCFD		
12/01/22	698	22.6	56.7	0.960	475		
12/02/22	640	23.1	56.1	0.960	439		
12/03/22	636	23.1	55.3	0.960	437		
12/04/22	711	22.4	57.7	0.960	483		
12/05/22	680	22.8	57.7	0.960	464		
12/06/22	614	21.6	54.2	0.960	416		
12/07/22	227	21.3	48.1	0.960	158	x	Furnace Burnout
12/08/22	710	22.4	55.8	0.960	482		
12/09/22	772	21.7	56.8	0.960	519		
12/10/22	693	22.7	56.3	0.960	473		
12/11/22	776	21.7	55.2	0.960	524		
12/12/22	792	21.5	55.1	0.960	533		
12/13/22	808	21.3	55.0	0.960	542		
12/14/22	654	21.6	53.4	0.960	444		Bulldog Outage
12/15/22	752	21.9	54.6	0.960	509		
12/16/22	761	21.9	54.3	0.960	515		
12/17/22	607	22.4	51.8	0.960	416		Bulldog Outage
12/18/22	734	22.1	52.5	0.960	500		
12/19/22	730	22.2	52.1	0.960	497		
12/20/22	600	19.3	52.3	0.960	408		Maintenance
12/21/22	778	21.7	52.9	0.960	526		
12/22/22	788	21.6	52.8	0.960	532		
12/23/22	747	22.0	53.5	0.960	506		
12/24/22	616	23.3	53.7	0.960	425		
12/25/22	703	22.5	52.4	0.960	481		
12/26/22	765	21.9	52.5	0.960	518		
12/27/22	740	22.1	54.1	0.960	502		
12/28/22	684	22.6	53.7	0.960	467		
12/29/22	671	22.8	53.4	0.960	460		
12/30/22	725	22.2	55.3	0.960	492		
12/31/22	658	22.9	53.7	0.960	452		
				Total	14,596		
	LFG BTU	A84216		Average <sup>3</sup>	481		
		BTU/CF					

Average Monthly BTU value, per agreement

506

Standard Deviation

15

<sup>(1)</sup> F84216 "Gas Yard LFG Unadjusted Flow" = Flow rate measured by plant control system based on orifice plate design conditions of 65 psig and 80 °F. This measurement is not adjusted to actual pipeline conditions.

<sup>(2)</sup> Unadjusted flow corrected to billing conditions of 60 °F and 14.73 psia using the following equation:

$$Q_c = Q_u \sqrt{\left(\frac{P}{P_d}\right) \times \left(\frac{T_d}{T}\right)} \times \sqrt{\frac{T_{s,b}}{T_{s,o}}} \times \sqrt{\frac{SG_d}{SG}}$$

Where:

$Q_c$  = Gas Yard LFG P&T Corrected Flow (F84216B) KSCFD

$Q_u$  = Gas Yard LFG Unadjusted Flow (F84216) KCFD

$P$  = Gas Yard LFG Pressure ( $P84215 + 14.7$ ) psia

$T$  = Gas Yard LFG absolute Temperature ( $T84214 + 460$ ) °R

$SG$  = Specific Gravity as measured by Gas Chromatograph (A84214)

$P_d$  = Orifice Design Pressure = 65 psig = 79.7 psia

$T_d$  = Orifice Design Temperature = 80 °F = 540 °R

$SG_d$  = Orifice Design Specific Gravity based on gas composition = 0.965

$T_{s,o}$  = Orifice Standard Conditions Temperature = 68 °F = 528 °R

$T_{s,b}$  = Billing Standard Conditions Temperature = 60 °F = 520 °R

<sup>(3)</sup> Excludes days with full or partial outages. Outage days are noted as excluded.

version updated in December 2018

## **Appendix C**

### **East Parcel Waste Acceptance Data**

# ACME FILL CORPORATION

"Contra Costa County's Pioneer Sanitary Landfill"

LANDFILL OFFICE:  
950 Waterbird Way  
Martinez, California 94553

Phone: 925-228-7099  
Fax: 925-228-4484

MAILING ADDRESS:  
P.O. Box 1108  
Martinez, CA 94553

---

October 12, 2022

Ms. Priscilla Ruiz  
**Contra Costa Health Services**  
**Environmental Health Division**  
2120 Diamond Boulevard, Suite 200  
Concord, California 94520

**Subject:** Third Quarter 2022 Landfill Tonnage Summary  
Acme Landfill, Contra Costa County

Dear Ms. Ruiz:

Wastes disposed at the Acme Landfill, East Parcel during the third quarter of 2022 are summarized in the enclosed Table. Acme Fill Corporation (Acme) is submitting the data to comply with California solid waste disposal facility reporting requirements. Daily tonnages of wastes disposed, segregated into different categories, are included in the Table. Acme typically recycles all the source separated metal wastes received for disposal. Green and some wood wastes received during the quarter were processed and used on-site for erosion control on East Parcel slopes and as alternate daily cover (ADC). Consistent with Cal Recycle guidance, green waste used on-site for erosion control or ADC during third quarter 2022 was not counted as recycled. Landfill operations staff and equipment are also being utilized to salvage materials from the mixed loads that the landfill receives as described below.

Acme continued to focus their salvaging operations on the mixed construction and demolition debris loads that the Landfill received during third quarter 2022. Acme used a compactor or the Peterson Pacific Corp. portable heavy duty waste recycler to process mixed construction and demolition debris eligible for use as ADC. The attached Table shows the daily quantities of construction and demolition debris pulverized or chipped and used as ADC. The ADC quantities were determined by estimating the size of the working face covered and the thickness of the applied ADC at the conclusion of each eligible day. A total of 189.09 tons of metal waste were recovered from the mixed construction and demolition debris loads received this quarter and shipped off site to a scrap metal recycler along with 7.93 tons of scrap metal from source separated loads.

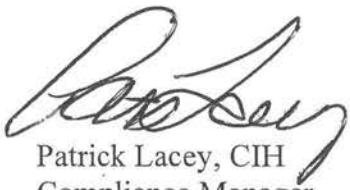
Ms. Priscilla Ruiz  
Contra Costa Health Service  
October 12, 2022  
Page 2

Records documenting the scrap metal removed from the site will be maintained in Acme files for review upon request.

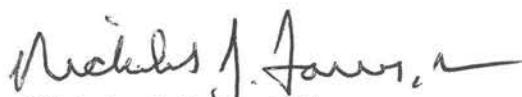
Pursuant to the requirements of Assembly Bill 1353 which became effective on January 1, 2005, and the most recent Department of Toxic Substances Control pressure-treated wood disposal prohibition, Acme is not accepting pressure-treated wood for disposal at the landfill. Customers with pressure-treated wood are being directed to alternate locations for disposal of this waste. No pressure-treated wood was received or shipped from Acme for disposal during third quarter 2022.

The salvaging data described above are included on the enclosed Table along with the daily tonnage results. If you have any questions concerning the data presented in this letter, please contact us at (925) 228-7099.

Sincerely,



Patrick Lacey, CIH  
Compliance Manager



Nicholas J. Farros, P.E.  
Engineering Manager

Enclosure      Third Quarter 2022 Waste Disposal Summary

**Third Quarter 2022**  
**Waste Disposal Summary**  
**Acme Landfill, Contra Costa County**

Date	Day of Week	Total Received, Not Including Clean Fill (tons)	Concrete (tons)	Const/ Demo (tons)	Const/Demo Recycled (tons)	Green Waste (tons)	Wood Waste (tons)	Green Waste Recycled (tons)	Metal (tons)	Total Recycled (tons)	Total Received for Landfilling (Not inc. clean fill or recycling)	Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
											Total Received for Landfilling (Not inc. clean fill or recycling)	Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
1-Jul-22	Fri	58.93	0.00	48.15	0.00	9.72	1.06	0.00	0.00	0.00	58.93	0.00	22.59
2-Jul-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Jul-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Jul-22	Mon	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Jul-22	Tue	50.51	0.00	40.35	13.89	8.48	1.68	0.00	0.00	13.89	36.62	0.00	15.01
6-Jul-22	Wed	57.78	0.00	39.39	13.89	15.29	3.10	0.00	0.00	13.89	43.89	0.00	21.64
7-Jul-22	Thu	79.75	0.00	58.47	13.89	21.23	0.00	0.00	0.05	13.94	65.81	0.00	27.81
8-Jul-22	Fri	71.40	0.00	56.54	0.00	9.44	2.07	0.00	3.35	3.35	68.05	0.00	36.74
9-Jul-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Jul-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Jul-22	Mon	53.63	0.00	36.98	13.89	15.23	1.32	0.00	0.10	13.99	39.64	0.00	31.55
12-Jul-22	Tue	61.15	0.00	39.01	13.89	20.12	1.92	0.00	0.10	13.99	47.16	0.00	79.89
13-Jul-22	Wed	61.36	0.00	39.60	13.89	20.36	1.35	0.00	0.05	13.94	47.42	0.00	12.72
14-Jul-22	Thu	55.15	0.00	43.09	13.89	8.60	3.46	0.00	0.00	13.89	41.26	0.00	23.47
15-Jul-22	Fri	88.11	1.24	70.69	0.00	14.02	1.96	0.00	0.20	0.20	87.91	0.00	19.20
16-Jul-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Jul-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Jul-22	Mon	99.87	0.00	71.52	13.89	24.35	3.80	0.00	0.20	14.09	85.78	0.00	55.78
19-Jul-22	Tue	78.54	0.00	60.58	13.89	17.28	0.63	0.00	0.05	13.94	64.60	0.00	35.19
20-Jul-22	Wed	49.66	0.00	31.12	13.89	18.54	0.00	0.00	0.00	13.89	35.77	0.00	96.27
21-Jul-22	Thu	73.40	0.00	61.41	13.89	11.99	0.00	0.00	0.00	13.89	59.51	0.00	53.98
22-Jul-22	Fri	51.63	0.00	42.88	0.00	8.27	0.48	0.00	0.00	0.00	51.63	0.00	12.23
23-Jul-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Jul-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Jul-22	Mon	103.60	0.00	71.35	13.89	31.68	0.57	0.00	0.00	13.89	89.71	0.00	14.08
26-Jul-22	Tue	104.83	0.00	70.30	13.89	34.41	0.12	0.00	0.00	13.89	90.94	0.00	22.39
27-Jul-22	Wed	82.59	0.00	60.96	13.89	21.48	0.00	0.15	14.04	68.55	0.00	22.92	
28-Jul-22	Thu	70.98	0.00	48.47	13.89	22.51	0.00	0.00	13.89	57.09	0.00	22.24	
29-Jul-22	Fri	74.89	0.00	65.61	0.00	9.28	0.00	0.00	0.00	74.89	0.00	15.68	
30-Jul-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31-Jul-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		1,368.83	1.24	1,008.32	208.35	347.88	22.46	0.00	4.25	212.60	1,156.23	0.00	618.79

Third Quarter 2022  
Waste Disposal Summary  
Acme Landfill, Contra Costa County

Date	Day of Week	Total Received, Not Including Clean Fill (tons)	Concrete (tons)	Const/ Demo (tons)	Const/Demo Recycled (tons)	Green Waste (tons)	Wood Waste (tons)	Green Waste Recycled (tons)	Metal (tons)	Total Recycled (tons)	Total Received for Landfilling (Not inc. clean fill or recycling)		Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
											Total Received for Landfilling (Not inc. clean fill or recycling)			
1-Aug-22	Mon	94.63	0.00	66.23	13.89	27.44	0.59	27.44	0.37	41.70	52.93	0.00	22.86	
2-Aug-22	Tue	74.29	0.00	46.73	13.89	27.46	0.00	0.00	0.10	13.99	60.30	0.00	21.21	
3-Aug-22	Wed	77.26	0.00	40.64	13.89	34.52	2.00	0.00	0.10	13.99	63.27	0.00	64.34	
4-Aug-22	Thu	54.40	0.00	38.35	13.89	16.05	0.00	0.00	0.00	13.89	40.51	0.00	45.34	
5-Aug-22	Fri	50.60	0.00	41.64	0.00	8.96	0.00	0.00	0.00	0.00	50.60	0.00	39.94	
6-Aug-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7-Aug-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8-Aug-22	Mon	113.26	0.00	75.04	13.89	37.59	0.48	0.00	0.15	14.04	99.22	0.00	36.58	
9-Aug-22	Tue	104.80	0.00	71.80	13.89	32.95	0.00	0.00	0.05	13.94	90.86	0.00	26.56	
10-Aug-22	Wed	77.40	0.00	54.20	13.89	23.05	0.00	0.00	0.15	14.04	63.36	0.00	26.76	
11-Aug-22	Thu	73.15	0.00	44.01	13.89	28.84	0.00	0.00	0.30	14.19	58.96	0.00	42.61	
12-Aug-22	Fri	68.04	0.00	48.15	0.00	19.44	0.30	0.00	0.15	0.15	67.89	0.00	16.74	
13-Aug-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14-Aug-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15-Aug-22	Mon	66.64	0.00	46.71	13.89	19.83	0.00	0.00	0.10	13.99	52.65	0.00	18.72	
16-Aug-22	Tue	71.80	0.00	38.56	13.89	33.14	0.00	0.00	0.10	13.99	57.81	0.00	37.16	
17-Aug-22	Wed	117.88	0.00	96.05	13.89	21.73	0.00	0.00	0.10	13.99	103.89	0.00	45.52	
18-Aug-22	Thu	95.42	0.00	70.00	13.89	25.32	0.00	0.00	0.10	13.99	81.43	0.00	76.81	
19-Aug-22	Fri	55.17	0.00	46.00	0.00	8.66	0.51	0.00	0.00	0.00	55.17	0.00	21.14	
20-Aug-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21-Aug-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22-Aug-22	Mon	102.12	0.00	78.42	13.89	23.55	0.00	0.00	0.15	14.04	88.08	0.00	16.82	
23-Aug-22	Tue	79.45	0.00	62.36	13.89	15.64	1.30	0.00	0.15	14.04	65.41	0.00	13.44	
24-Aug-22	Wed	64.72	0.00	50.70	13.89	13.97	0.00	0.00	0.05	13.94	50.78	0.00	5.38	
25-Aug-22	Thu	52.10	0.00	40.50	13.89	11.50	0.00	0.00	0.10	13.99	38.11	0.00	33.36	
26-Aug-22	Fri	74.26	0.00	64.52	0.00	9.74	0.00	0.00	0.00	0.00	74.26	0.00	5.87	
27-Aug-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28-Aug-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29-Aug-22	Mon	98.55	0.00	80.16	13.89	18.34	0.00	0.00	0.05	13.94	84.61	0.00	23.78	
30-Aug-22	Tue	81.17	0.00	56.29	13.89	24.78	0.00	0.00	0.10	13.99	67.18	0.00	13.52	
31-Aug-22	Wed	70.97	0.00	56.62	13.89	14.09	0.26	0.00	0.00	13.89	57.08	0.00	31.86	
		1,723.45	0.00	1,247.45	4.85	469.15	250.02	0.00	2.00	252.02	1,471.43	0.00	663.46	

**Third Quarter 2022**  
**Waste Disposal Summary**  
**Acme Landfill, Contra Costa County**

Date	Day of Week	Total Received, Not Including Clean Fill (tons)		Concrete (tons)	Const/Demo Recycled (tons)	Green Waste (tons)	Wood Waste (tons)	Green Waste Recycled (tons)	Metal (tons)	Recycled (tons)	Total Received for Landfilling (Not inc. clean fill or recycling)	Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
		Total Received	Not Including Clean Fill (tons)										
1-Sep-22	Thu	65.66	0.00	47.83	13.89	17.83	0.00	0.00	0.00	13.89	51.77	0.00	52.87
2-Sep-22	Fri	58.10	0.00	49.88	0.00	8.22	0.00	0.00	0.00	0.00	58.10	0.00	50.65
3-Sep-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Sep-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Sep-22	Mon	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-Sep-22	Tue	60.42	0.00	47.46	13.89	12.91	0.00	0.00	0.05	13.94	46.48	0.00	29.02
7-Sep-22	Wed	46.04	0.00	32.35	13.89	13.69	0.00	0.00	0.00	13.89	32.15	0.00	23.82
8-Sep-22	Thu	64.24	0.00	51.76	13.89	12.28	0.00	0.00	0.20	14.09	50.15	0.00	48.38
9-Sep-22	Fri	59.58	0.00	51.98	0.00	7.60	0.00	0.00	0.00	0.00	59.58	0.00	46.10
10-Sep-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Sep-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12-Sep-22	Mon	77.05	0.00	57.14	13.89	19.78	0.00	0.00	0.13	14.02	63.03	0.00	37.66
13-Sep-22	Tue	75.80	0.00	63.16	13.89	12.59	0.00	0.00	0.05	13.94	61.86	0.00	27.78
14-Sep-22	Wed	126.09	0.00	39.33	13.89	86.66	0.00	0.00	0.10	13.99	112.10	0.00	23.04
15-Sep-22	Thu	89.66	0.00	69.15	13.89	20.46	0.00	0.00	0.05	13.94	75.72	0.00	11.72
16-Sep-22	Fri	69.77	0.00	58.46	0.00	11.21	0.00	0.00	0.10	0.10	69.67	0.00	31.78
17-Sep-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Sep-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19-Sep-22	Mon	59.26	0.00	41.05	13.89	18.16	0.00	0.00	0.05	13.94	45.32	0.00	8.65
20-Sep-22	Tue	83.24	0.00	62.59	13.89	20.50	0.00	0.00	0.15	14.04	69.20	0.00	16.25
21-Sep-22	Wed	68.35	0.00	49.03	13.89	19.32	0.00	0.00	0.00	13.89	54.46	0.00	41.29
22-Sep-22	Thu	66.49	0.00	43.55	13.89	22.89	0.00	0.00	0.05	13.94	52.55	0.00	30.64
23-Sep-22	Fri	83.15	0.00	70.75	0.00	12.40	0.00	0.00	0.00	0.00	83.15	0.00	28.03
24-Sep-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Sep-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-Sep-22	Mon	95.60	0.00	68.09	13.89	27.26	0.00	0.00	0.25	14.14	81.46	0.00	10.41
27-Sep-22	Tue	79.50	0.00	69.41	13.89	10.09	0.00	0.00	0.00	13.89	65.61	0.00	20.26
28-Sep-22	Wed	65.97	0.00	51.24	13.89	14.38	0.00	0.00	0.35	14.24	51.73	0.00	51.95
29-Sep-22	Thu	82.77	0.00	76.33	13.89	6.36	0.08	0.00	0.00	13.89	68.88	0.00	57.31
30-Sep-22	Fri	82.78	0.00	71.06	0.00	11.57	0.00	0.00	0.15	0.15	82.63	0.00	12.15
		<b>1,559.52</b>	<b>0.00</b>	<b>1,171.60</b>	<b>222.24</b>	<b>386.16</b>	<b>0.08</b>	<b>0.00</b>	<b>1.68</b>	<b>223.92</b>	<b>1,335.60</b>	<b>0.00</b>	<b>659.76</b>
<b>Quarterly Subtotals</b>		<b>4,651.80</b>	<b>1.24</b>	<b>3,427.37</b>	<b>680.61</b>	<b>1,203.19</b>	<b>27.39</b>	<b>0.00</b>	<b>7.93</b>	<b>688.54</b>	<b>3,963.26</b>	<b>0.00</b>	<b>1,942.01</b>
<b>Salvaging Adjustments</b>		<b>0.00</b>	<b>0.00</b>	<b>-189.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>189.09</b>	<b>-189.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTALS</b>		<b>4,651.80</b>	<b>1.24</b>	<b>3,238.28</b>	<b>680.61</b>	<b>1,203.19</b>	<b>27.39</b>	<b>0.00</b>	<b>197.02</b>	<b>877.63</b>	<b>3,774.17</b>	<b>0.00</b>	<b>1,942.01</b>

# ACME FILL CORPORATION

"Contra Costa County's Pioneer Sanitary Landfill"

LANDFILL OFFICE:  
950 Waterbird Way  
Martinez, California 94553

Phone: 925-228-7099  
Fax: 925-228-4484

MAILING ADDRESS:  
P.O. Box 1108  
Martinez, CA 94553

---

January 10, 2023

Ms. Nicole Soto  
**Contra Costa Health Services**  
**Environmental Health Division**  
2120 Diamond Boulevard, Suite 200  
Concord, California 94520

**Subject:** Fourth Quarter 2022 Landfill Tonnage Summary  
Acme Landfill, Contra Costa County

Dear Ms. Soto:

Wastes disposed at the Acme Landfill, East Parcel during the fourth quarter of 2022 are summarized in the enclosed Table. Acme Fill Corporation (Acme) is submitting the data to comply with California solid waste disposal facility reporting requirements. Daily tonnages of wastes disposed, segregated into different categories, are included in the Table. Acme typically recycles all the source separated metal wastes received for disposal. Green and some wood wastes received during the quarter were processed and used on-site for erosion control on East Parcel slopes and as alternate daily cover (ADC). Consistent with Cal Recycle guidance, green waste used on-site for erosion control or ADC during fourth quarter 2022 was not counted as recycled. Landfill operations staff and equipment are also being utilized to salvage materials from the mixed loads that the landfill receives as described below.

Acme continued to focus their salvaging operations on the mixed construction and demolition debris loads that the Landfill received during fourth quarter 2022. Acme used a compactor or the Peterson Pacific Corp. portable heavy duty waste recycler to process mixed construction and demolition debris eligible for use as ADC. The attached Table shows the daily quantities of construction and demolition debris pulverized or chipped and used as ADC. The ADC quantities were determined by estimating the size of the working face covered and the thickness of the applied ADC at the conclusion of each eligible day. A total of 143.82 tons of metal waste were recovered from the mixed construction and demolition debris loads received this quarter and shipped off site to a scrap metal recycler along with 3.40 tons of scrap metal from source separated loads.

Ms. Nicole Soto  
Contra Costa Health Service  
January 10, 2023  
Page 2

Records documenting the scrap metal removed from the site will be maintained in Acme files for review upon request.

Please note that due to a computer malfunction, waste tonnage for the following dates were inadvertently combined:

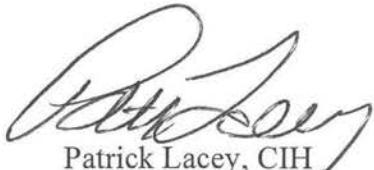
- December 8 and 9, 2022
- December 14 and 15, 2022
- December 20 and 21, 2022

Tonnages received for each of these three sets of combined dates were calculated by dividing the total tons of waste received per category by two. The calculated data is included in the attached table.

Pursuant to the requirements of Assembly Bill 1353 which became effective on January 1, 2005, and the most recent Department of Toxic Substances Control pressure-treated wood disposal prohibition, Acme is not accepting pressure-treated wood for disposal at the landfill. Customers with pressure-treated wood are being directed to alternate locations for disposal of this waste. No pressure-treated wood was received or shipped from Acme for disposal during fourth quarter 2022.

The salvaging data described above are included on the enclosed Table along with the daily tonnage results. If you have any questions concerning the data presented in this letter, please contact us at (925) 228-7099.

Sincerely,



Patrick Lacey, CIH  
Compliance Manager



Nicholas J. Farres, P.E.  
Engineering Manager

Enclosure      Fourth Quarter 2022 Waste Disposal Summary

**Fourth Quarter 2022**  
**Waste Disposal Summary**  
**Acme Landfill, Contra Costa County**

Date	Day of Week	Total Received, Not Including Clean Fill (tons)	Concrete (tons)	Const/ Demo (tons)	Const/Demo Recycled (tons)	Green Waste (tons)	Wood Waste (tons)	Green Waste Recycled (tons)	Wood Waste Recycled (tons)	Total Received for Landfilling (Not inc. clean fill or recycling)	Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
1-Oct-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Oct-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3-Oct-22	Mon	66.00	0.00	44.11	13.89	21.79	0.00	0.10	13.99	52.01	0.00	57.71
4-Oct-22	Tue	71.87	0.00	54.83	13.89	16.99	0.00	0.05	13.94	57.93	0.00	18.78
5-Oct-22	Wed	82.81	0.00	55.39	13.89	27.07	0.00	0.35	14.24	68.57	0.00	27.01
6-Oct-22	Thu	56.75	0.00	46.32	13.89	10.38	0.00	0.05	13.94	42.81	0.00	48.48
7-Oct-22	Fri	65.62	0.00	58.86	0.00	6.61	0.00	0.15	0.15	65.47	0.00	56.22
8-Oct-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-Oct-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10-Oct-22	Mon	87.12	0.00	53.36	13.89	32.96	0.70	0.10	13.99	73.13	0.00	80.63
11-Oct-22	Tue	75.96	0.00	57.91	13.89	18.05	0.00	0.00	13.89	62.07	0.00	30.12
12-Oct-22	Wed	81.29	0.00	54.17	13.89	27.07	0.00	0.05	13.94	67.35	0.00	45.26
13-Oct-22	Thu	53.86	0.00	41.00	13.89	12.81	0.00	0.05	13.94	39.92	0.00	70.94
14-Oct-22	Fri	62.31	0.00	52.68	0.00	9.63	0.00	0.00	0.00	62.31	0.00	35.51
15-Oct-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16-Oct-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17-Oct-22	Mon	97.86	0.00	72.07	13.89	25.69	0.00	0.10	13.99	83.87	0.00	24.03
18-Oct-22	Tue	58.02	0.00	41.27	13.89	16.65	0.00	0.10	13.99	44.03	0.00	115.08
19-Oct-22	Wed	97.69	0.00	58.87	13.89	38.77	0.00	0.05	13.94	83.75	0.00	57.01
20-Oct-22	Thu	57.18	0.00	38.78	13.89	18.35	0.00	0.05	13.94	43.24	0.00	39.28
21-Oct-22	Fri	58.60	0.00	43.34	0.00	15.11	0.00	0.15	0.15	58.45	0.00	33.52
22-Oct-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23-Oct-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Oct-22	Mon	76.20	0.00	57.29	13.89	18.76	0.00	0.15	14.04	62.16	0.00	16.83
25-Oct-22	Tue	78.80	0.00	55.19	13.89	22.42	1.09	0.10	13.99	64.81	0.00	50.90
26-Oct-22	Wed	93.43	0.00	71.71	13.89	21.72	0.00	0.00	13.89	79.54	0.00	40.19
27-Oct-22	Thu	124.35	0.00	95.91	13.89	28.44	0.00	0.00	13.89	110.46	0.00	16.00
28-Oct-22	Fri	64.31	0.00	41.08	0.00	23.23	0.00	0.00	0.00	64.31	0.00	31.65
29-Oct-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30-Oct-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31-Oct-22	Mon	89.46	0.00	62.58	13.89	26.73	0.00	0.15	14.04	75.42	0.00	19.73
		<b>1,599.49</b>	<b>0.00</b>	<b>1,156.72</b>	<b>236.13</b>	<b>439.23</b>	<b>1.79</b>	<b>0.00</b>	<b>1.75</b>	<b>237.88</b>	<b>1,361.61</b>	<b>0.00</b>
												<b>914.88</b>

**Fourth Quarter 2022**  
**Waste Disposal Summary**  
**Acme Landfill, Contra Costa County**

Date	Day of Week	Total Received, Not Including Clean Fill (tons)	Concrete (tons)	Const/ Demo (tons)	Const/Demo Recycled (tons)	Green Waste (tons)	Wood Waste (tons)	Green Waste Recycled (tons)	Metal (tons)	Total Recycled (tons)	Total Received for Landfilling (Not inc. clean fill or recycling)	Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
1-Nov-22	Tue	23.63	0.00	11.86	13.89	11.77	0.00	0.00	0.00	13.89	9.74	0.00	14.10
2-Nov-22	Wed	58.84	0.00	43.48	13.89	15.36	0.00	0.00	0.00	13.89	44.95	0.00	39.34
3-Nov-22	Thu	63.41	0.00	48.92	13.89	14.44	0.00	0.00	0.05	13.94	49.47	0.00	45.63
4-Nov-22	Fri	80.60	0.00	58.60	0.00	22.00	0.00	0.00	0.00	0.00	80.60	0.00	28.42
5-Nov-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6-Nov-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7-Nov-22	Mon	66.87	0.00	50.69	13.89	16.18	0.00	0.00	0.00	13.89	52.98	0.00	18.97
8-Nov-22	Tue	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9-Nov-22	Wed	79.04	0.00	66.78	13.89	12.21	0.00	0.00	0.05	13.94	65.10	0.00	21.07
10-Nov-22	Thu	70.36	0.00	50.75	13.89	19.56	0.00	0.00	0.05	13.94	56.42	0.00	21.58
11-Nov-22	Fri	52.74	0.00	40.92	0.00	11.72	0.00	0.00	0.10	0.10	52.64	0.00	28.34
12-Nov-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13-Nov-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14-Nov-22	Mon	76.45	0.00	61.68	13.89	14.62	0.00	0.00	0.15	14.04	62.41	0.00	17.78
15-Nov-22	Tue	64.96	0.00	47.67	13.89	17.29	0.00	0.00	0.00	13.89	51.07	0.00	13.75
16-Nov-22	Wed	81.99	0.00	62.47	13.89	19.47	0.00	0.00	0.05	13.94	68.05	0.00	19.47
17-Nov-22	Thu	74.23	0.58	62.08	13.89	11.47	0.00	0.00	0.10	13.99	60.24	0.00	13.82
18-Nov-22	Fri	72.48	0.00	62.43	0.00	10.05	0.00	0.00	0.00	0.00	72.48	0.00	51.16
19-Nov-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20-Nov-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21-Nov-22	Mon	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22-Nov-22	Tue	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23-Nov-22	Wed	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24-Nov-22	Thu	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Nov-22	Fri	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-Nov-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27-Nov-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28-Nov-22	Mon	81.17	0.00	61.14	13.89	19.88	0.00	0.00	0.15	14.04	67.13	0.00	27.92
29-Nov-22	Tue	124.86	0.00	47.92	13.89	76.74	0.00	0.00	0.20	14.09	110.77	0.00	34.16
30-Nov-22	Wed	85.72	0.00	59.51	13.89	26.16	0.00	0.00	0.05	13.94	71.78	0.00	32.85
		1,157.35	0.58	836.90	180.57	318.92	0.00	0.00	0.95	181.52	975.83	0.00	428.36

**Fourth Quarter 2022**  
**Waste Disposal Summary**  
**Acme Landfill, Contra Costa County**

Date	Day of Week	Total Received, Not Including Clean Fill (tons)	Concrete (tons)	Const/ Demo (tons)	Const/Demo Recycled (tons)	Green Waste (tons)	Wood Waste (tons)	Green Waste Recycled (tons)	Metal (tons)	Total Recycled (tons)	Total Received for Landfilling (Not inc. clean fill or recycling)	Wood Waste Disposed at Keller Canyon (tons)	Tons of Clean Fill at \$20/ton
1-Dec-22	Thu	23.39	0.00	18.70	13.89	4.54	0.00	0.00	0.15	14.04	9.35	0.00	0.00
2-Dec-22	Fri	37.08	0.00	30.78	0.00	6.30	0.00	0.00	0.00	37.08	0.00	0.00	0.00
3-Dec-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Dec-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5-Dec-22	Mon	59.07	0.00	47.16	13.89	11.91	0.00	0.00	0.00	13.89	45.18	0.00	5.88
6-Dec-22	Tue	78.72	0.00	61.87	13.89	16.75	0.00	0.00	0.10	13.99	64.73	0.00	11.04
7-Dec-22	Wed	46.04	0.00	32.35	13.89	13.69	0.00	0.00	0.00	13.89	32.15	0.00	23.82
8-Dec-22	Thu	53.91	0.00	40.29	13.89	13.57	0.00	0.00	0.05	13.94	39.97	0.00	17.70
9-Dec-22	Fri	53.91	0.00	40.29	0.00	13.57	0.00	0.00	0.05	0.05	53.86	0.00	17.71
10-Dec-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11-Dec-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12-Dec-22	Mon	54.83	0.00	39.32	13.89	15.51	0.00	0.00	0.00	13.89	40.94	0.00	5.98
13-Dec-22	Tue	68.79	0.00	44.31	13.89	24.33	0.00	0.00	0.15	14.04	54.75	0.00	14.63
14-Dec-22	Wed	70.31	0.00	52.98	13.89	17.33	0.00	0.00	0.00	13.89	56.42	0.00	18.58
15-Dec-22	Thu	70.32	0.00	52.98	13.89	17.34	0.00	0.00	0.00	13.89	56.43	0.00	18.59
16-Dec-22	Fri	57.69	0.00	42.46	0.00	15.23	0.00	0.00	0.00	0.00	57.69	0.00	29.78
17-Dec-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18-Dec-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19-Dec-22	Mon	135.09	0.00	119.38	13.89	15.66	0.00	0.00	0.05	13.94	121.15	0.00	25.26
20-Dec-22	Tue	135.06	0.00	119.39	13.89	15.67	0.00	0.00	0.00	13.89	121.17	0.00	25.27
21-Dec-22	Wed	158.98	0.00	158.07	13.89	0.91	0.00	0.00	0.00	13.89	145.09	0.00	3.71
22-Dec-22	Thu	30.36	0.00	14.86	13.89	15.35	0.00	0.00	0.15	14.04	16.32	0.00	119.99
23-Dec-22	Fri	71.94	0.00	71.94	0.00	0.00	0.00	0.00	0.00	0.00	71.94	0.00	0.00
24-Dec-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25-Dec-22	Sun	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26-Dec-22	Mon	15.03	0.00	13.58	13.89	1.45	0.00	0.00	0.00	0.00	13.89	1.14	0.00
27-Dec-22	Tue	34.07	0.00	26.63	13.89	7.44	0.00	0.00	0.00	0.00	20.18	0.00	0.00
28-Dec-22	Wed	23.09	0.00	16.99	13.89	6.10	0.00	0.00	0.00	0.00	9.20	0.00	0.00
29-Dec-22	Thu	19.86	0.00	19.86	0.00	3.99	0.00	0.00	0.00	0.00	23.85	0.00	0.00
30-Dec-22	Fri	23.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31-Dec-22	Sat	Closed	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		<b>1,301.53</b>	<b>0.00</b>	<b>1,064.19</b>	<b>222.24</b>	<b>236.64</b>	<b>0.00</b>	<b>0.00</b>	<b>0.70</b>	<b>222.94</b>	<b>1,078.59</b>	<b>0.00</b>	<b>337.94</b>
Quarterly Subtotals		<b>4,056.37</b>	<b>0.58</b>	<b>3,057.81</b>	<b>638.94</b>	<b>994.79</b>	<b>1.79</b>	<b>0.00</b>	<b>3.40</b>	<b>642.34</b>	<b>3,416.03</b>	<b>0.00</b>	<b>1,681.18</b>
Salvaging Adjustments		<b>0.00</b>	<b>0.00</b>	<b>-143.82</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>143.82</b>	<b>0.00</b>	<b>-143.82</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTALS</b>		<b>4,056.37</b>	<b>0.58</b>	<b>2,913.99</b>	<b>638.94</b>	<b>994.79</b>	<b>1.79</b>	<b>0.00</b>	<b>147.22</b>	<b>786.16</b>	<b>3,272.21</b>	<b>0.00</b>	<b>1,681.18</b>

## **Appendix D**

### **Flare Source Testing Results**

TABLE #1

Acme Landfill  
Flare (A-2)  
1,597°F

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	6/22/22	6/22/22	6/22/22		
Test Time	1109 - 1156	1237-1317	1341-1421		
Standard Temperature, °F	70	70	70	--	
Flare Temperature, °F	1,596	1,598	1,597	1,597	
Fuel:					
Fuel Flow Rate, DSCFM (EPA Method 19)	580.6	586.2	584.1	583.6	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	5,593	6,288	6,185	6,022	
Oxygen ( $O_2$ ), % volume dry	10.5	11.5	12.2	11.4	
Carbon Dioxide ( $CO_2$ ), % volume dry	8.60	7.54	7.23	7.79	
$CO_2$ , lb/hr	3,283	3,238	3,053	3,191	
Water Vapor ( $H_2O$ ), % volume (EPA Method 4)	12.3	9.64	8.62	10.2	
Methane Emissions:					
$CH_4$ , ppmv wet (EPA Method 25A)	<10.0	<10.0	<10.0	<10.0	
$CH_4$ , ppmvd	<11.4	<11.1	<10.9	<11.1	
$CH_4$ , lb/hr	<0.158	<0.173	<0.168	<0.166	
NMOC Emissions (reported as $CH_4$ ):					
NMOC, ppmv wet	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, lb/hr	<0.016	<0.017	<0.017	<0.017	
NMOC, ppmvd @ 3% $O_2$	<2.0	<2.1	<2.2	<2.1	30*
NMOC, ppmvd @ 3% $O_2$ as hexane ( $C_6H_{14}$ )	<0.33	<0.35	<0.37	<0.35	
THC Emissions (reported as $CH_4$ ):					
THC, ppmv wet (EPA Method 25A)	<11.0	<11.0	<11.0	<11.0	
THC, ppmvd	<12.5	<12.2	<12.0	<12.3	
THC, lb/hr	<0.174	<0.190	<0.185	<0.183	
Inlet Hydrocarbons (reported as $CH_4$ ):					
$CH_4$ , ppmvd (ASTM D-1945)	498,000	500,000	499,000	499,000	
$CH_4$ , lb/hr	718	728	723	723	
$CH_4$ Destruction Efficiency, %	>99.978%	>99.976%	>99.977%	>99.977%	>99%
NMOC, ppmvd (EPA Method 25C)	896	831	880	869	
NMOC, lb/hr	1.29	1.21	1.28	1.26	
NMOC Destruction Efficiency, %	>98.77%	>98.57%	>98.68%	>98.68%	>98%*
THC (TOC), ppmvd	498,896	500,831	499,880	499,869	
THC (TOC), lb/hr	719.0	728.8	724.8	724.2	
THC (TOC) Destruction Efficiency, %	>99.976%	>99.974%	>99.974%	>99.975%	
Sulfur Compounds:					
Hydrogen Sulfide ( $H_2S$ ) in fuel, ppmvd (ASTM D-5504)	20.4	12.4	19.8	17.5	
TRS as $H_2S$ in fuel, ppmvd (ASTM D-5504)	31.5	24.0	30.9	28.8	1,300
$SO_2$ Emissions, ppmvd (Calculated)	3.27	2.24	2.92	2.81	

\* >98% NMOC Destruction Efficiency or <30 ppm NMOC as  $CH_4$  @ 3%  $O_2$

#### WHERE:

ppmvd = parts per million concentration by volume expressed on a dry gas basis

lb/hr = pound per hour emission rate

Tstd. = standard temperature ( $^{\circ}R = ^{\circ}F + 460$ )

MW = molecular weight

DSCFM = dry standard cubic feet per minute

$CH_4$  = methane (MW = 16)

THC = TOC = total hydrocarbons as methane, including  $CH_4$  (MW = 16)

NMOC = non-methane organic compounds, calculated as  $CH_4$  (MW = 16)

TRS = total reduced sulfur

$SO_2$  = sulfur dioxide

#### CALCULATIONS:

ppm @ 3%  $O_2$  = ppm · 17.9 / (20.9 - % $O_2$ )

lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R

ppm as hexane = NMOC ppm / 6

ppm dry = ppm wet · 100 / (100 - % $H_2O$ )

Removal Efficiency = (inlet, lb/hr - outlet, lb/hr) / inlet, lb/hr

$SO_2$ , calculated =  $H_2S$  · Inlet DSCFM / Exhaust DSCFM

< Value = 2% of analyzer range

**TABLE # 2**  
**VOC Permit List - Permit Part 10**

**Acme Landfill  
Landfill Gas**

Sample ID: ACME RUN 2  
Test Date: 6/22/22

Parameter	Method	Units	Results
2-Propanol (Isopropyl Alcohol)	EPA TO-15	ppb	610
Carbon Disulfide	EPA TO-15	ppb	<84.2
Chlorobenzene	EPA TO-15	ppb	48.0
1,4-Dichlorobenzene	EPA TO-15	ppb	<42.1
1,2-Dichlorobenzene	EPA TO-15	ppb	<42.1
Dichloromethane (Methylene Chloride)	EPA TO-15	ppb	<84.2
Ethyl Benzene	EPA TO-15	ppb	1,550
Hexane	EPA TO-15	ppb	416
2-Butanone (MEK)	EPA TO-15	ppb	555
4-Methyl-2-pentanone (MeBK)	EPA TO-15	ppb	55.6
Tetrachloroethylene (Perchloroethylene)	EPA TO-15	ppb	<42.1
Trichloroethylene (TCE)	EPA TO-15	ppb	<42.1
Vinyl Chloride	EPA TO-15	ppb	90.9
Toluene	EPA TO-15	ppb	712
Benzene	EPA TO-15	ppb	200
m & p-Xylene	EPA TO-15	ppb	2,270
o-Xylene	EPA TO-15	ppb	717

ppb = parts per billion concentration

## **Appendix E**

### **Component Leak Testing Data**

# Landfill Gas Monitoring Data

Acme Landfill, Martinez, CA

Date \ Time: 7-21-22 / 0800

Weather: Cloudy, wind +

Monitoring Device: RKI Eagle 2

Calibration \ Equipment ID # PreSurvey

Monitored By \ Affiliation: Field Solutions, Nancy Gallegos

## NORTH PARCEL WELLFIELD

Monitored Location	Readings (ppm)	Implementation of Corrective Measures (if greater than 1,000 ppm)		
		Date	Readings (ppm)	Description of Corrective Measures
Well 1	0.0			
Well 2	0.0			
Well 3	0.0	7-21-22		
Well 4	0.0	7-21-22		
Well 4A	0.0	7-21-22		
Well 4B	0.0	7-21-22		
Well 5	0.0			
Well 6	0.0			
Well Old 6	0.0			
Well 7	0.0			
Well 8	0.0			
Well 9	0.0			
Well 9B	0.0	7-21-22		
Well 10	0.0			
Well 11	0.0			
Well 12	0.0			
Well 20	0.0			
Well 21	0.0			
Well 22	0.0			
Well 23	0.0			
Well 23A	0.0			
Well 24	0.0			
Well 25	0.0	7-21-22		
Well 27	0.0	7-21-22		
Well 28	0.0			
Well 29	0.0			

**NORTH PARCEL WELLFIELD (continued)**

Monitored Location	Readings (ppm)	Implementation of Corrective Measures (if greater than 1,000 ppm)		
		Date	Readings (ppm)	Description of Corrective Measures
Well 35	0.8	7-21-21		
Well 36	0.	7-21-21		
PC-1	0.0			
PC-2	0.0			
PC-3	0.0			
PC-4	0.0	7-11-21		
PC-5	0.0	7-11-21		
PC-6	0.0	7-11-21		
PC-7	0.0			
PC-8	0.0			
PC-9	0.0	7-11-21		
PC-10	0.0	7-21-21		
PC-11	0.0	7-21-21		
PC-12	0.0	7-21-21		
PC-13	0.0			
PC-14	0.0			
PC-15	0.0			
PC-16	0.0			
PC-17	0.0			
PC-18	0.0			
PC-19	0.0			
PC-20	0.0			
PC-21	0.0			
PC-22	0.0			
PC-23	0.0			
PC-24	0.0			
PC-25	0.0			
EW-100	0.0	7-21-21		
EW-101	0.0	7-21-21		
EW-102	0.0	7-21-21		
EW-103	0.0	7-21-21		
EW-104	0.0	7-21-21		
EW-105	0.0	7-21-21		

### ***NORTH PARCEL WELLFIELD (continued)***

**NOTE:** During the first quarter of each calendar year, complete a methane emissions survey around the drip lines of each of the two-planted trees by the scalehouse and around the perimeter of the asphalt stockpile. Note the results of the survey in the comments section below.

## **COMMENTS:**

# Landfill Gas Monitoring Data

Acme Landfill, Martinez, CA

Date \ Time: 10-13-22

Weather: Clear

Monitoring Device: RKI Eagle

Calibration \ Equipment ID # PtG-JUNCY

Monitored By \ Affiliation: Manny Gallegos

## NORTH PARCEL WELLFIELD

Monitored Location	Readings (ppm)	Implementation of Corrective Measures (if greater than 1,000 ppm)		
		Date	Readings (ppm)	Description of Corrective Measures
Well 1	0.0			
Well 2	0.0			
Well 3	0.0			
Well 4	0.0			
Well 4A	0.0			
Well 4B	0.0			
Well 5	0.0			
Well 6	0.0			
Well Old 6	0.0			
Well 7	0.0			
Well 8	0.0			
Well 9	0.0			
Well 9B	0.0			
Well 10	0.0			
Well 11	0.0			
Well 12	0.0			
Well 20	0.0			
Well 21	0.0			
Well 22	0.0			
Well 23	0.0			
Well 23A	0.0			
Well 24	0.0			
Well 25	0.0			
Well 27	0.0			
Well 28	0.0			
Well 29	0.0			

## **NORTH PARCEL WELLFIELD (continued)**

Monitored Location	Readings (ppm)	Implementation of Corrective Measures (if greater than 1,000 ppm)		
		Date	Readings (ppm)	Description of Corrective Measures
Well 35	0.0			
Well 36	0.0			
PC-1	0.0			
PC-2	0.0			
PC-3	0.0			
PC-4	0.0			
PC-5	0.0			
PC-6	0.0			
PC-7	0.0			
PC-8	0.0			
PC-9	0.0			
PC-10	0.0			
PC-11	0.0			
PC-12	0.0			
PC-13	0.0			
PC-14	0.0			
PC-15	0.0			
PC-16	0.0			
PC-17	0.0			
PC-18	0.0			
PC-19	0.0			
PC-20	0.0			
PC-21	0.0			
PC-22	0.0			
PC-23	0.0			
PC-24	0.0			
PC-25	0.0			
EW-100	0.0			
EW-101	0.0			
EW-102	0.0			
EW-103	0.0			
EW-104	0.0			
EW-105	0.0			

***NORTH PARCEL WELLFIELD (continued)***

**NOTE:** During the first quarter of each calendar year, complete a methane emissions survey around the drip lines of each of the two-planted trees by the scalehouse and around the perimeter of the asphalt stockpile. Note the results of the survey in the comments section below.

**COMMENTS:**

None

# Landfill Gas Monitoring Data

Acme Landfill, Martinez, CA

Date \ Time: 9-30-22

Weather: clear, warm

Monitoring Device: PKT Eagle 2

Calibration \ Equipment ID #: PRESUNIQ

Monitored By \ Affiliation: J. Butera / FSI

## EAST PARCEL WELLFIELD

Monitored Location	Readings (ppm)	Implementation of Corrective Measures (if greater than 1,000 ppm)		
		Date	Readings(ppm)	Description of Corrective Measures
Well 10	0			
Well 11	0			
Well 12	0			
Well 13	0			
Well 14	0			
Well 15	0			
Well 16	70			
Well 17	0			
Well 18	0			
Well 19	0			
Well 20	0			
Well 21	0			
Well 22	0			
Well 23	0			
Well 24	0			
Well 25	0			
Well 26	0			
Well 27	0			
Well 28	0			
Well 29	0			
Well 30	8			
Well 31	0			
Well 32	0			
Well 33	0			
Well 34	0			
Well 40	0			
Well 41	0			
Well 42	0			

**EAST PARCEL WELLFIELD (Continued)**

Well 43	0			
Well T1	0			
Well T2	0			
Well T3	0			

**COMMENTS:**

# Landfill Gas Monitoring Data

Acme Landfill, Martinez, CA

Date \ Time: 12-28-22

Weather: Clear, cold

Monitoring Device: RKI Eagle 2.

Calibration \ Equipment ID #: Factory Calibrated on 12-21-22

Monitored By \ Affiliation: J. Butera / Field Solutions, Inc.

## **EAST PARCEL WELLFIELD**

Monitored Location	Readings (ppm)	Implementation of Corrective Measures (if greater than 1,000 ppm)		
		Date	Readings(ppm)	Description of Corrective Measures
Well 10	0.0			
Well 11	0.0			
Well 12	0.0			
Well 13	0.0			
Well 14	0.0			
Well 15	0.0			
Well 16	0.0			
Well 17	0.0			
Well 18	0.0			
Well 19	0.0			
Well 20	0.0			
Well 21	0.0			
Well 22	0.0			
Well 23	0.0			
Well 24	0.0			
Well 25	6.0			
Well 26	0.0			
Well 27	0.0			
Well 28	0.0			<i>not connected, in WF</i>
Well 29	0.0			
Well 30	0.0			
Well 31	0.0			
Well 32	0.0			
Well 33	0.0			
Well 34	0.0			
Well 40	0.0			
Well 41	0.0			
Well 42	0.0			

**EAST PARCEL WELLFIELD (Continued)**

Well 43	0.0			
Well T1	0.0			
Well T2	0.0			
Well T3	0.0			

**COMMENTS:**

## **Appendix F**

### **Landfill Gas Wellhead Monitoring Data**

# EAST PARCEL - JULY 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
00000EW28	7/21/2022 10:32	51.5	38.1	0.1	10.3	-1.19	78.2
00000EW13	7/21/2022 10:35	47.2	36.7	0.0	16.1	-1.03	82.8
00000TRN3	7/21/2022 10:39	61.2	38.7	0.1	0.0	-1.16	79.9
00000TRN2	7/21/2022 10:42	4.5	22.6	0.3	72.6	-0.13	79.1
00000TRN1	7/21/2022 10:44	48.3	40.0	0.1	11.6	-12.25	81.0
00000EW34	7/21/2022 10:47	53.3	36.3	0.6	9.8	-11.90	80.1
00000EW33	7/21/2022 10:50	62.5	37.5	0.1	0.0	-0.93	80.8
00000EW43	7/21/2022 10:53	59.1	34.3	0.1	6.5	-13.83	82.4
00000EW32	7/21/2022 10:57	62.6	37.3	0.1	0.0	-0.86	86.2
00000EW22	7/21/2022 11:00	49.9	46.1	0.1	3.9	-0.49	84.9
00000EW31	7/21/2022 11:02	60.1	39.8	0.1	0.0	-9.21	87.0
00000EW30	7/21/2022 11:05	59.8	39.9	0.2	0.1	-11.40	89.0
00000EW42	7/21/2022 11:08	35.7	36.9	2.0	25.4	-6.59	82.2
00000EW25	7/21/2022 11:11	40.5	39.8	0.1	19.6	-0.11	86.7
00000EW24	7/21/2022 11:14	36.1	36.5	0.1	27.3	-0.39	88.2
00000EW23	7/21/2022 11:18	57.8	38.2	0.1	3.9	-0.02	86.2
00000EW41	7/21/2022 11:21	61.6	38.4	0.0	0.0	-1.44	86.3
00000EW19	7/21/2022 11:24	59.9	40.1	0.0	0.0	-3.94	85.7
00000EW21	7/21/2022 11:27	42.9	40.2	0.1	16.8	-0.09	87.7
00000EW17	7/21/2022 11:29	39.2	36.5	0.1	24.2	-0.13	88.4
00000EW18	7/21/2022 11:33	23.6	30.1	0.0	46.3	-0.09	86.9
00000EW20	7/21/2022 11:36	33.3	31.4	0.1	35.2	-0.01	89.6
00000EW10	7/21/2022 11:41	33.8	29.1	0.1	37.0	-0.58	88.5
00000EW11	7/21/2022 11:45	38.1	31.4	0.1	30.4	-0.36	83.9
00000EW12	7/21/2022 11:48	51.3	36.6	0.1	12.0	-0.43	84.7
00000EW40	7/21/2022 11:52	40.4	34.4	0.1	25.1	-0.03	85.5
00000EW16	7/21/2022 11:54	43.9	40.1	0.0	16.0	-3.19	82.8
00000EW26	7/21/2022 11:58	59.3	39.9	0.2	0.6	-2.52	87.0
00000EW27	7/21/2022 12:00	53.0	37.8	0.1	9.1	-0.93	85.1
00000EW15	7/21/2022 12:03	61.1	38.8	0.1	0.0	-1.86	87.4
00000EW29	7/21/2022 12:06	14.5	28.9	0.0	56.6	-0.42	87.0
00000EW14	7/21/2022 12:09	52.3	34.6	0.0	13.1	-0.63	86.0

## EAST ARCEL - LANDFILL GAS COLLECTION ELLS

Name:

R. Givens

Date:

7/21/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-28	✓		✓		✓		
EW-13	✓		✓		✓		
TRN-3	✓		✓		✓		
TRN-2	✓		✓		✓		
TRN-1	✓		✓		✓		
EW-34			✓		✓		
EW-33	✓		✓		✓		
EW-43	✓		✓		✓		
EW-22	✓		✓		✓		
EW-32	✓		✓		✓		
EW-31	✓		✓		✓		
EW-30	✓		✓		✓		
EW-42			✓		✓		
EW-25	✓		✓		✓		
EW-24	✓		✓		✓		
EW-23	✓		✓		✓		
EW-41	✓		✓		✓		
EW-19			✓		✓		
EW-21	✓		✓		✓		
EW-17			✓		✓		
EW-18			✓		✓		
EW-20			✓		✓		
EW-10			✓		✓		

## EAST ARCEL - LANDFILL GAS COLLECTION V LLS

Name: K Quan Date: 7/21/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-11	✓		✓		✓		
EW-12	✓		✓		✓		
EW-40	✓		✓		✓		
EW-16	✓		✓		✓		
EW-26	✓		✓		✓		
EW-27	✓		✓		✓		
EW-15	✓		✓		✓		
EW-29	✓		✓		✓		
EW-14	✓						

# EAST PARCEL - AUGUST 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000EW28	OFFLINE IN WORKING FACE						
0000EW13	OFFLINE IN WORKING FACE						
0000TRN3	8/22/2022 10:45	59.0	39.2	0.1	1.7	-1.79	83.9
0000TRN2	8/22/2022 10:48	3.4	21.5	0.1	75.0	-0.14	84.5
0000TRN1	8/22/2022 10:51	49.1	39.7	0.1	11.1	-4.96	84.4
0000EW34	8/22/2022 10:54	54.3	36.8	0.1	8.8	-4.97	84.9
0000EW33	8/22/2022 10:56	63.1	36.9	0.0	0.0	-0.04	85.2
0000EW43	8/22/2022 11:00	59.6	34.3	0.1	6.0	-6.24	85.5
0000EW32	8/22/2022 11:06	63.3	36.6	0.1	0.0	-0.11	89.5
0000EW22	8/22/2022 11:09	52.4	44.6	0.1	2.9	-0.11	88.7
0000EW31	8/22/2022 11:12	60.2	39.7	0.0	0.1	-3.25	90.4
0000EW30	8/22/2022 11:15	59.7	40.2	0.0	0.1	-3.65	90.4
0000EW42	8/22/2022 11:17	34.0	36.8	1.8	27.4	-4.53	88.2
0000EW25	8/22/2022 11:20	40.1	39.4	0.0	20.5	-0.92	89.9
0000EW24	8/22/2022 11:23	59.9	40.1	0.1	0.0	-0.44	92.2
0000EW23	8/22/2022 11:26	56.0	37.6	0.0	6.4	-0.13	89.5
0000EW41	8/22/2022 11:29	61.7	38.3	0.1	0.0	-4.82	88.1
0000EW19	8/22/2022 11:31	60.3	39.5	0.0	0.2	-4.75	89.0
0000EW21	8/22/2022 11:34	46.9	40.1	0.0	13.0	-0.10	91.4
0000EW17	8/22/2022 11:36	38.8	36.3	0.0	24.9	-0.13	91.1
0000EW18	8/22/2022 11:40	16.1	28.5	0.0	55.4	-0.15	91.2
0000EW20	8/22/2022 11:42	27.2	29.7	0.1	43.0	-0.05	92.2
0000EW10	8/22/2022 11:46	33.1	28.8	0.1	38.0	-0.42	92.3
0000EW11	8/22/2022 11:50	36.9	33.0	0.0	30.1	-0.43	89.3
0000EW12	8/22/2022 11:54	49.9	36.0	0.0	14.1	-0.49	91.4
0000EW40	8/22/2022 11:58	39.6	34.5	0.1	25.8	-0.02	92.2
0000EW16	8/22/2022 12:00	49.7	40.3	0.0	10.0	-2.90	88.7
0000EW26	8/22/2022 12:04	59.9	39.7	0.0	0.4	-2.18	91.6
0000EW27	8/22/2022 12:06	53.8	37.5	0.1	8.6	-0.58	89.6
0000EW15	8/22/2022 12:10	60.8	38.8	0.0	0.4	-1.44	90.1
0000EW29	8/22/2022 12:12	14.8	29.4	0.1	55.7	-0.21	89.6
0000EW14	8/22/2022 12:16	46.9	34.6	0.0	18.5	-1.56	89.6

## EAS PARCEL - LANDFILL GAS COLLECTION YELLS

Name: Ronquista Date: 8/22/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-28	—	—	OFF	ON	Working	Working	Fig Face
EW-13	X	—	X	—	X	—	
TRN-3	X	—	X	—	X	—	
TRN-2	X	—	X	—	X	—	
TRN-1	X	—	X	—	X	—	
EW-34	X	—	X	—	X	—	
EW-33	X	—	X	—	X	—	
EW-43	X	—	X	—	X	—	
EW-22	X	—	X	—	X	—	
EW-32	X	—	X	—	X	—	
EW-31	X	—	X	—	X	—	
EW-30	X	—	X	—	X	—	
EW-42	X	—	X	—	X	—	
EW-25	X	—	X	—	X	—	
EW-24	X	—	X	—	X	—	
EW-23	X	—	X	—	X	—	
EW-41	X	—	X	—	X	—	
EW-19	X	—	X	—	X	—	
EW-21	X	—	X	—	X	—	
EW-17	X	—	X	—	X	—	
EW-18	X	—	X	—	X	—	
EW-20	X	—	X	—	X	—	
EW-10	X	—	X	—	X	—	

## EAS PARCEL - LANDFILL GAS COLLECTION WELLS

Name: Kjueha

Date: 8/22/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-11	X		X		X		
EW-12	X		X		X		
EW-40	X		X		X		
EW-16	X		X		X		
EW-26	X		X		X		
EW-27	X		X		X		
EW-15		X		X		X	
EW-29		X		X		X	
EW-14							

# EAST PARCEL - SEPTEMBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000EW28 OFFLINE IN WORKING FACE							
0000EW13	9/29/2022 11:57	42.6	35.4	0.3	21.7	-1.74	89.4
0000TRN3	9/29/2022 11:59	60.0	39.0	0.3	0.7	-1.75	88.1
0000TRN2	9/29/2022 12:01	18.9	28.6	0.2	52.3	-0.14	88.2
0000TRN1	9/29/2022 12:04	50.3	39.4	0.3	10.0	-3.80	84.4
0000EW34	9/29/2022 12:06	54.8	36.6	0.3	8.3	-3.54	89.3
0000EW43	9/29/2022 12:08	59.6	34.4	0.3	5.7	-3.63	91.4
0000EW33	9/29/2022 12:11	62.2	35.9	0.3	1.6	-0.09	92.2
0000EW32	9/29/2022 12:14	62.9	37.0	0.1	0.0	0.00	89.5
0000EW22	9/29/2022 12:17	55.5	42.8	0.1	1.6	-0.08	88.7
0000EW31	9/29/2022 12:19	60.1	39.7	0.2	0.0	-1.23	90.4
0000EW30	9/29/2022 12:22	59.2	40.0	0.3	0.5	-2.58	90.4
0000EW42	9/29/2022 12:23	32.5	36.9	1.8	28.8	-3.15	88.2
00000EW25	9/29/2022 12:25	37.5	38.0	0.1	24.4	-0.66	89.5
00000EW24	9/29/2022 12:26	37.0	35.4	0.2	27.4	-0.14	92.2
00000EW23	9/29/2022 12:28	59.7	38.1	0.3	1.9	-0.02	89.5
00000EW41	9/29/2022 12:30	61.5	37.7	0.2	0.6	-3.81	88.1
00000EW19	9/29/2022 12:31	59.4	39.4	0.4	0.8	-3.78	89.0
00000EW21	9/29/2022 12:33	40.7	39.4	0.1	19.8	-0.13	90.4
00000EW17	9/29/2022 12:37	39.9	35.0	0.2	24.9	-0.03	90.4
00000EW18	9/29/2022 12:39	16.8	28.5	0.2	54.5	-0.09	88.2
00000EW20	9/29/2022 12:41	25.4	29.2	0.2	45.2	-0.03	89.9
00000EW10	9/29/2022 12:43	36.9	30.1	0.4	32.6	-0.03	89.6
00000EW11	9/29/2022 12:44	40.0	33.1	0.4	26.5	0.00	89.3
00000EW12	9/29/2022 12:46	49.9	35.2	0.3	14.6	-0.03	89.6
00000EW40	9/29/2022 12:48	40.2	34.4	0.2	25.2	-0.03	92.2
00000EW16	9/29/2022 12:50	44.2	39.4	0.3	16.1	-3.54	88.1
00000EW26	9/29/2022 12:52	59.0	39.4	0.2	1.4	-0.02	85.9
00000EW27	9/29/2022 12:54	55.0	37.9	0.1	7.0	-0.08	89.0
00000EW14	9/29/2022 12:57	61.3	35.5	0.3	2.9	-0.06	88.7
00000EW29	9/29/2022 13:00	17.2	29.9	0.2	52.7	-0.02	84.4
00000EW15	9/29/2022 13:08	59.8	38.4	0.4	1.4	-0.97	89.6

## EAST PARCEL - LANDFILL GAS COLLECTION WELLS

Name: *J. Bales* Date: 9/30/21

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-28	✓		✓		✓		
EW-13	✓		✓		✓		
TRN-3	✓		✓		✓		
TRN-2	✓		✓		✓		
TRN-1	✓		✓		✓		
EW-34	✓		✓		✓		
EW-33	✓		✓		✓		
EW-43	✓		✓		✓		
EW-22	✓		✓		✓		
EW-32	✓		✓		✓		
EW-31	✓		✓		✓		
EW-30	✓		✓		✓		
EW-42	✓		✓		✓		
EW-25	✓		✓		✓		
EW-24	✓		✓		✓		
EW-23	✓		✓		✓		
EW-41	✓		✓		✓		
EW-19	✓		✓		✓		
EW-21	✓		✓		✓		
EW-17	✓		✓		✓		
EW-18	✓		✓		✓		
EW-20	✓		✓		✓		
EW-10	✓		✓		✓		

## EAST PARCEL - LANDFILL GAS COLLECTION WELLS

Name: J. Butcher Date: 9/30/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-11	✓	✓	✓	✓	✓	✓	
EW-12	✓	✓	✓	✓	✓	✓	
EW-40	✓	✓	✓	✓	✓	✓	
EW-16	✓	✓	✓	✓	✓	✓	
EW-26	✓	✓	✓	✓	✓	✓	
EW-27	✓	✓	✓	✓	✓	✓	
EW-15	✓	✓	✓	✓	✓	✓	
EW-29	✓	✓	✓	✓	✓	✓	
EW-14	✓	✓	✓	✓	✓	✓	

# EAST PARCEL - OCTOBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
00000EW28	OFFLINE IN WORKING FACE						
00000EW13	10/27/2022 12:41	41.3	34.9	0.1	23.7	-2.05	76.2
00000TRN3	10/27/2022 12:43	59.6	39.2	0.0	1.2	-2.04	77.8
00000TRN2	10/27/2022 12:45	16.2	28.3	0.0	55.5	-0.05	78.4
00000TRN1	10/27/2022 12:47	50.8	40.1	0.0	9.1	-5.11	79.3
00000EW34	10/27/2022 12:49	55.8	37.3	0.0	6.9	-4.51	81.4
00000EW43	10/27/2022 12:51	59.9	35.5	0.0	4.6	-5.38	79.1
00000EW33	10/27/2022 12:54	61.9	37.7	0.3	0.1	-0.08	78.1
00000EW32	10/27/2022 12:59	62.3	37.7	0.0	0.0	-0.03	75.6
00000EW22	10/27/2022 13:01	56.6	43.4	0.0	0.0	-0.05	77.3
00000EW31	10/27/2022 13:03	58.0	42.0	0.0	0.0	-2.87	78.0
00000EW30	10/27/2022 13:05	58.6	41.4	0.0	0.0	-4.16	77.8
00000EW42	10/27/2022 13:06	33.9	37.5	1.5	27.1	-2.10	77.9
00000EW25	10/27/2022 13:08	36.3	37.8	0.0	25.9	-0.78	79.2
00000EW24	10/27/2022 13:09	36.1	35.1	0.0	28.8	-0.73	81.4
00000EW23	10/27/2022 13:11	60.1	39.3	0.0	0.6	-0.11	82.1
00000EW41	10/27/2022 13:13	61.2	38.8	0.0	0.0	-4.88	81.5
00000EW19	10/27/2022 13:14	59.3	40.3	0.4	0.0	-4.86	80.5
00000EW21	10/27/2022 13:16	42.5	39.8	0.0	17.7	-0.28	81.6
00000EW17	10/27/2022 13:17	39.2	35.2	0.4	25.2	-0.03	80.9
00000EW18	10/27/2022 13:21	18.3	28.6	0.1	53.0	-0.10	78.7
00000EW20	10/27/2022 13:23	23.2	29.1	0.0	47.7	-0.03	81.1
00000EW10	10/27/2022 13:25	34.9	30.1	0.0	35.0	-0.03	82.3
00000EW11	10/27/2022 13:27	40.4	32.3	0.1	27.2	-0.03	84.3
00000EW12	10/27/2022 13:29	48.5	35.6	0.0	15.9	-0.01	84.0
00000EW29	10/27/2022 13:32	3.5	19.7	1.7	75.1	-0.05	84.3
00000EW27	10/27/2022 13:33	60.3	39.7	0.0	0.0	-1.46	84.2
00000EW26	10/27/2022 13:36	40.6	35.4	0.0	24.0	-0.06	83.5
00000EW16	10/27/2022 13:40	45.3	40.5	0.0	14.2	-4.83	84.0
00000EW40	10/27/2022 13:43	59.1	40.9	0.0	0.0	-2.37	81.9
00000EW15	10/27/2022 13:45	58.1	39.2	0.0	2.7	-0.46	80.6
00000EW14	10/27/2022 13:48	61.4	37.1	0.0	1.5	-0.05	81.4

Name: Bulera

Date: 10/27/22

EAST PARCEL - LANDFILL GAS COLLECTION WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-28	✓		✓	✓	✓	✓	Off line in workface
EW-13	✓		✓	✓	✓	✓	
TRN-3	✓		✓	✓	✓	✓	
TRN-2	✓		✓	✓	✓	✓	
TRN-1	✓		✓	✓	✓	✓	wrong TD on well string
EW-34	✓		✓	✓	✓	✓	
EW-33	✓		✓	✓	✓	✓	
EW-43	✓		✓	✓	✓	✓	
EW-22	✓		✓	✓	✓	✓	
EW-32	✓		✓	✓	✓	✓	
EW-31	✓		✓	✓	✓	✓	
EW-30	✓		✓	✓	✓	✓	
EW-42	✓		✓	✓	✓	✓	
EW-25	✓		✓	✓	✓	✓	
EW-24	✓		✓	✓	✓	✓	
EW-23	✓		✓	✓	✓	✓	
EW-41	✓		✓	✓	✓	✓	
EW-19	✓		✓	✓	✓	✓	
EW-21	✓		✓	✓	✓	✓	
EW-17	✓		✓	✓	✓	✓	
EW-18	✓		✓	✓	✓	✓	
EW-20	✓		✓	✓	✓	✓	
EW-10	✓		✓	✓	✓	✓	

EA<sup>s</sup> PARCEL - LANDFILL GAS COLLECTION WELLS

Name: *J. Butera* Date: *10/27/22*

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-11	✓		✓		✓		
EW-12	✓		✓		✓		
EW-40	✓		✓		✓		
EW-16	✓		✓		✓		
EW-26	✓		✓		✓		
EW-27	✓		✓		✓		
EW-15	✓		✓		✓		
EW-29	✓		✓		✓		
EW-14							

*Wells well ID*

# EAST PARCEL - NOVEMBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000EW28 OFFLINE IN WORKING FACE							
0000EW13	11/28/2022 10:36	41.1	33.9	0.2	24.8	-5.88	63.4
0000TRN3	11/28/2022 10:38	60.8	39.0	0.2	0.0	-6.41	63.8
0000TRN2	11/28/2022 10:41	13.5	27.5	0.2	58.8	-0.10	65.6
0000TRN1	11/28/2022 10:43	52.2	39.7	0.2	7.9	-13.79	68.2
0000EW34	11/28/2022 10:45	55.4	36.2	0.3	8.1	-13.55	67.5
0000EW33	11/28/2022 10:47	62.7	37.1	0.2	0.0	-0.63	64.4
0000EW43	11/28/2022 10:50	59.4	34.9	0.2	5.5	-15.88	68.2
0000EW32	11/28/2022 10:53	62.7	37.1	0.2	0.0	-0.49	69.2
0000EW22 OFFLINE IN WORKING FACE							
0000EW31	11/28/2022 10:55	59.8	40.0	0.2	0.0	-12.53	71.9
0000EW30	11/28/2022 10:57	59.6	40.2	0.2	0.0	-13.85	74.6
0000EW42	11/28/2022 10:59	31.0	36.3	2.0	30.7	-0.79	68.7
0000EW25	11/28/2022 11:03	33.2	36.5	0.2	30.1	-2.62	73.1
0000EW24	11/28/2022 11:05	29.8	33.1	0.3	36.8	-2.66	77.2
0000EW23	11/28/2022 11:08	57.9	38.4	0.2	3.5	-0.13	74.2
0000EW41	11/28/2022 11:10	62.1	37.7	0.2	0.0	-20.01	73.6
0000EW19	11/28/2022 11:12	59.8	40.1	0.2	0.0	-17.86	75.0
0000EW21	11/28/2022 11:14	37.7	38.9	0.1	23.3	-1.43	76.1
0000EW17	11/28/2022 11:16	36.7	35.5	0.1	27.7	-0.11	76.1
0000EW18	11/28/2022 11:18	13.4	27.0	0.2	59.4	-1.16	73.1
0000EW20	11/28/2022 11:20	18.0	27.1	0.2	54.7	-0.63	72.7
0000EW10	11/28/2022 11:23	31.1	28.2	0.3	40.4	-1.79	72.0
0000EW11	11/28/2022 11:26	36.4	32.9	0.1	30.6	-0.62	68.7
0000EW12	11/28/2022 11:29	49.3	36.2	0.1	14.4	-0.61	69.2
0000EW40	11/28/2022 11:32	35.2	34.3	0.2	30.3	-1.10	71.0
0000EW16	11/28/2022 11:34	45.0	39.7	0.1	15.2	-20.01	66.8
0000EW26	11/28/2022 11:37	59.9	40.0	0.1	0.0	-9.08	65.4
0000EW27	11/28/2022 11:40	54.8	37.7	0.1	7.4	-2.23	71.2
0000EW15	11/28/2022 11:44	61.0	38.9	0.1	0.0	-5.69	68.9
0000EW29	11/28/2022 11:48	13.2	26.8	0.1	59.9	-0.17	71.1
0000EW14	11/28/2022 11:51	57.5	34.9	1.4	6.2	-2.06	67.0

## EAST PARCEL - LANDFILL GAS COLLECTION WELLS

Name: K. J. Jenkins

Date: 11/28/12

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-28	NA				X		
EW-13	X		X		X		
TRN-3	X		X		X		
TRN-2	X		X		X		
TRN-1	X		X		X		
EW-34	X		X		X		
EW-33	X		X		X		
EW-43	X		X		X		
EW-22							
EW-32	X		X		X		
EW-31	X		X		X		
EW-30	X		X		X		
EW-42							
EW-25	X		X		X		
EW-24	X		X		X		
EW-23	X		X		X		
EW-41	X		X		X		
EW-19	X		X		X		
EW-21	X		X		X		
EW-17							
EW-18							
EW-20							
EW-10							

## EAST PARCEL - LANDFILL GAS COLLECTION WELLS

Name: K. Gosselin Date: 11/28/12

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-11	X		X		X		
EW-12	X		X		X		
EW-40	X		X		X		
EW-16	X		X		X		
EW-26	X		X		X		
EW-27	X		X		X		
EW-15	X		X		X		
EW-29	X		X		X		
EW-14		X		X		X	

# EAST PARCEL - DECEMBER 2022

Device ID	Date/Time	CH4 %	CO2 %	Balance %	Rel Pressure in H2O	Temperature DegF
00000EW28	OFFLINE IN WORKING FACE					
00000EW13	12/28/2022 10:04	46.8	32.3	0.3	20.6	-0.76
00000TRN3	12/28/2022 10:07	60.9	37.8	0.0	1.3	-0.81
00000TRN2	12/28/2022 10:09	11.8	25.0	0.0	63.2	-0.04
00000TRN1	12/28/2022 10:10	51.2	37.9	0.0	10.9	-1.76
00000EW34	12/28/2022 10:12	55.7	35.4	0.0	8.9	-1.66
00000EW43	12/28/2022 10:14	58.3	34.1	0.0	7.6	-1.51
00000EW33	12/28/2022 10:17	63.8	36.2	0.0	0.0	-0.02
00000EW32	12/28/2022 10:19	63.9	36.1	0.0	0.0	-0.02
00000EW22	OFFLINE IN WORKING FACE					
00000EW31	12/28/2022 10:22	61.3	38.5	0.0	0.2	-0.57
00000EW30	12/28/2022 10:25	60.5	39.5	0.0	0.0	-0.35
00000EW42	12/28/2022 10:32	29.3	25.9	8.4	36.4	-1.67
00000EW25	12/28/2022 10:36	37.0	35.0	0.1	27.9	-0.67
00000EW24	12/28/2022 10:38	33.1	32.6	0.1	34.2	-0.46
00000EW23	12/28/2022 10:39	45.8	35.2	0.0	19.0	-0.04
00000EW41	12/28/2022 10:40	61.8	36.9	0.0	1.3	-4.13
00000EW19	12/28/2022 10:41	61.6	38.4	0.0	0.0	-4.10
00000EW21	12/28/2022 10:43	40.6	37.7	0.0	21.7	-0.03
00000EW17	12/28/2022 10:44	34.0	33.3	0.0	32.7	-0.04
00000EW18	12/28/2022 10:46	13.8	25.1	0.0	61.1	-0.03
00000EW20	12/28/2022 10:47	20.2	25.9	0.0	53.9	-0.04
00000EW10	12/28/2022 10:49	31.9	27.4	0.0	40.7	-0.04
00000EW11	12/28/2022 10:50	28.6	30.1	0.0	41.3	-0.05
00000EW12	12/28/2022 10:52	32.1	32.3	0.0	35.6	-0.01
00000EW40	12/28/2022 10:54	34.1	32.7	0.0	33.2	-0.03
00000EW16	12/28/2022 10:55	44.5	38.2	0.0	17.3	-4.74
00000EW26	12/28/2022 10:57	59.5	38.7	0.0	1.8	-2.23
00000EW27	12/28/2022 10:59	55.6	36.6	0.0	7.8	-0.72
00000EW15	12/28/2022 11:04	59.1	36.1	0.0	4.8	-5.69
00000EW29	12/28/2022 11:05	10.9	27.3	0.1	61.8	-0.17
00000EW14	12/28/2022 11:02	54.5	35.0	0.0	10.5	-0.01
						74.6

Name: G. Butters

Date: 12-28-22

## EAS, PARCEL - LANDFILL GAS COLLECTION WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-28	✓	No	✓	No	✓	✓	
EW-13	✓	✓	✓	✓	✓	✓	
TRN-3	✓	✓	✓	✓	✓	✓	
TRN-2	✓	✓	✓	✓	✓	✓	
TRN-1	✓	✓	✓	✓	✓	✓	Needs ID label
EW-34	✓	✓	✓	✓	✓	✓	Needs ID label
EW-33	✓	✓	✓	✓	✓	✓	
EW-43	✓	✓	✓	✓	✓	✓	
EW-22	✓	✓	✓	✓	✓	✓	No fittings, no label, new well head.
EW-32	✓	✓	✓	✓	✓	✓	
EW-31	✓	✓	✓	✓	✓	✓	
EW-30	✓	✓	✓	✓	✓	✓	
EW-42	✓	✓	✓	✓	✓	✓	Fittings broken off, fistulas at a pressure gauge to pit the hole.
EW-25	✓	✓	✓	✓	✓	✓	Needs need quick release fitting
EW-24	✓	✓	✓	✓	✓	✓	
EW-23	✓	✓	✓	✓	✓	✓	
EW-41	✓	✓	✓	✓	✓	✓	
EW-19	✓	✓	✓	✓	✓	✓	
EW-21	✓	✓	✓	✓	✓	✓	
EW-17	✓	✓	✓	✓	✓	✓	
EW-18	✓	✓	✓	✓	✓	✓	
EW-20	✓	✓	✓	✓	✓	✓	
EW-10	✓	✓	✓	✓	✓	✓	

Page 1 of 2

Name: Butera

Date: 12-28-20

EAS, PARCEL - LANDFILL GAS COLLECTION WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-11	✓	✓	✓	✓	✓	✓	
EW-12	✓	✓	✓	✓	✓	✓	
EW-40	✓	✓	✓	✓	✓	✓	
EW-16	✓	✓	✓	✓	✓	✓	
EW-26	✓	✓	✓	✓	✓	✓	
EW-27	✓	✓	✓	✓	✓	✓	
EW-15	✓	✓	✓	✓	✓	✓	
EW-29	✓	✓	✓	✓	✓	✓	
EW-14	✓	✓	✓	✓	✓	✓	

Page 2 of 2

## JULY 2022

## INSTRUMENTS

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000AW03	7/21/2022 7:46	44.5	28.5	0.2	26.8	-11.87	63.8
0000AW08	7/21/2022 7:48	56.9	21.9	0.2	21.0	-11.95	67.0
0000EW107	7/21/2022 7:51	49.5	23.9	0.1	26.5	-1.24	64.8
0000EW106	7/21/2022 8:03	57.4	25.9	0.2	16.5	-1.85	67.8
0000AW09B	7/21/2022 8:06	67.6	25.1	0.1	7.2	-9.24	66.4
00000AW04	7/21/2022 8:09	66.1	23.0	0.0	10.9	-1.08	66.5
0000EW108	7/21/2022 8:12	32.1	25.0	0.1	42.8	-1.26	68.1
00000AW12	7/21/2022 8:15	68.1	18.5	0.2	13.2	-1.61	72.2
0000EW109	7/21/2022 8:18	38.4	26.8	0.1	34.7	-1.04	69.9
00000AW25	7/21/2022 8:23	44.7	27.9	0.4	27.0	-3.86	69.4
0000EW110	7/21/2022 8:26	34.5	28.0	0.0	37.5	-0.89	70.6
00000AW28	7/21/2022 8:28	29.8	25.2	0.0	45.0	-0.82	72.7
00000AW11	7/21/2022 8:31	41.1	26.9	0.0	32.0	-2.73	70.8
00000AW10	7/21/2022 8:34	49.1	22.4	0.0	28.5	-3.07	73.4
00000AW05	7/21/2022 8:37	56.7	23.4	0.0	19.9	-0.61	72.9
00000AW22	7/21/2022 8:40	46.5	25.7	0.0	27.8	-0.59	71.3
00000AW06	7/21/2022 8:44	46.6	25.8	0.0	27.6	-0.59	73.1
0000EW111	7/21/2022 8:46	46.3	24.6	0.0	29.1	-0.87	73.7
0000EW112	7/21/2022 8:50	35.4	24.8	0.1	39.7	-1.56	72.4
0000EW113	7/21/2022 8:53	37.2	22.5	0.0	40.3	-1.17	74.5
0000EW114	7/21/2022 8:56	33.6	25.2	0.0	41.2	-0.19	70.7
00000AW07	7/21/2022 9:00	77.3	22.7	0.0	0.0	-0.17	68.9
0000AW23A	7/21/2022 9:04	68.3	22.4	0.1	9.2	-0.25	71.0
00000AW23	7/21/2022 9:06	63.1	23.2	0.5	13.2	-0.26	70.7
00000AW24	7/21/2022 9:10	42.4	18.6	5.7	33.3	-0.22	71.3
00000AW02	7/21/2022 9:13	51.7	27.6	0.1	20.6	-12.57	72.5
0000EW103	7/21/2022 9:16	35.4	28.7	0.0	35.9	-0.91	71.8
00000AW21	7/21/2022 9:18	66.8	29.2	0.0	4.0	-0.81	73.0
00000AW20	7/21/2022 9:20	48.1	25.1	0.0	26.8	-0.63	72.8
0000EW102	7/21/2022 9:23	37.4	27.7	0.0	34.9	-0.96	74.6
0000EW101	7/21/2022 9:26	47.8	32.6	0.0	19.6	-0.87	74.1
0000EW100	7/21/2022 9:29	38.6	26.2	0.0	35.2	-0.90	74.8
00000AW29	7/21/2022 9:31	38.5	26.0	0.0	35.5	-0.95	76.9
00000AW01	7/21/2022 9:34	46.5	29.1	0.0	24.4	-3.37	78.5
0000EW104	7/21/2022 9:37	42.2	31.2	0.3	26.3	-1.05	74.5
00000AW35	7/21/2022 9:39	54.2	27.8	0.0	18.0	-1.36	76.3
00000AW36	7/21/2022 9:41	55.7	30.7	0.0	13.6	-2.32	79.3
0000EW105	7/21/2022 9:44	66.5	29.2	0.0	4.3	-1.21	77.8
00000AW27	7/21/2022 9:57	37.3	28.0	0.1	34.6	-0.96	76.9
00000AW09	7/21/2022 10:00	76.5	20.0	0.1	3.4	-13.36	75.1

## NORTI ARCEL - LANDFILL GAS COLLECTION

Name: K. GuelenDate: 7/21/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
AW-03	/		/		/		
AW-08	/		/		/		
EW-107	/		/		/		
EW-106	/		/		/		
AW-9B	/		/		/		
AW-04	/		/		/		
EW-108	/		/		/		
AW-12	/		/		/		
EW-109	/		/		/		
AW-25	/		/		/		
EW-110	/		/		/		
AW-28	/		/		/		
AW-11	/		/		/		
AW-10	/		/		/		
AW-05	/		/		/		
AW-22	/		/		/		
AW-06	/		/		/		
EW-111	/		/		/		

Name: R. GribbleDate: 7/21/12

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-112	✓		✓		✓		
EW-113	✓		✓		✓		
EW-114	✓		✓		✓		
AW-07	✓		✓		✓		
AW-23A	✓		✓		✓		
AW-23	✓		✓		✓		
AW-24	✓		✓		✓		
AW-02	✓		✓		✓		
EW-103			✓		✓		
AW-21	✓		✓		✓		
AW-20	✓		✓		✓		
EW-102	✓		✓		✓		
EW-101	✓		✓		✓		
EW-100	✓		✓		✓		
AW-29	✓		✓		✓		
AW-01	✓		✓		✓		
EW-104	✓		✓		✓		
AW-35	✓		✓		✓		
AW-36	✓		✓		✓		
EW-105	✓		✓		✓		
AW-27	✓		✓		✓		
AW-09	✓		✓		✓		

## NORTH PARCEL - PERIMETER COLLECTORS

Date: 7/21/22  
 Name: Roger Davis

WELL ID	Gauge Reading		Time (24 hr)	COMMENTS
	(+)	(-)		
PC-18	0	5.2	1005	
PC-17	0	0.1	1006	
PC-16	0	0.2	1007	
PC-15	0	0.1	1008	
PC-14	0	1.4	1008	
PC-13	0	1.2	1009	
PC-01	0	0.6	1010	
PC-02	0	1.0	1011	
PC-03	0	0.8	1012	
PC-04	0	0.8	1013	
PC-05	0	1.0	1014	1014
PC-06	0	0.4	1015	
PC-07		2.2	1016	positive side taped over
PC-08	8	5.0	1017	
PC-09	8	0.4	1018	
PC-10	0	0.4	1019	
PC-11	8	0.4	1020	
PC-12	8	5.4	1020	
PC-25	0	0.6	1021	
PC-24	0	8.0	1022	
PC-23	0	0.8	1022	
PC-22	0	0.2	1023	
PC-21	0	0.4	1024	
PC-20	8	0.1	1025	
PC-19	8	0.1	1026	

## NORTH PALM - AUGUST 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000AW03	8/22/2022 8:08	54.1	23.2	0.2	22.5	-5.03	71.6
0000AW08	8/22/2022 8:10	57.4	21.7	0.2	20.7	-5.02	73.1
0000EW107	8/22/2022 8:23	49.5	22.8	0.6	27.1	-1.66	72.8
0000EW106	8/22/2022 8:30	58.0	25.4	0.2	16.4	-1.92	74.8
0000AW09B	8/22/2022 8:32	64.8	26.3	0.5	8.4	-3.03	73.4
0000AW04	8/22/2022 8:34	65.6	22.8	0.1	11.5	-1.44	75.2
0000EW108	8/22/2022 8:38	32.9	25.6	0.2	41.3	-1.55	74.2
0000AW12	8/22/2022 8:41	70.6	17.6	0.7	11.1	-1.18	76.0
0000EW109	8/22/2022 8:43	40.2	26.7	0.3	32.8	-1.34	76.1
0000AW25	8/22/2022 8:45	42.8	27.2	1.1	28.9	-1.42	76.4
0000EW110	8/22/2022 8:47	39.2	26.4	0.0	34.4	-1.17	78.6
0000AW28	8/22/2022 8:50	31.5	25.6	0.0	42.9	-1.03	82.5
0000AW111	8/22/2022 8:52	41.4	27.2	0.0	31.4	-2.11	78.1
0000AW10	8/22/2022 8:56	50.3	22.5	0.0	27.2	-2.16	79.5
0000AW05	8/22/2022 8:58	58.9	23.2	0.0	17.9	-0.87	80.1
0000AW22	8/22/2022 9:00	51.5	25.9	0.0	22.6	-0.75	78.2
0000AW06	8/22/2022 9:03	51.4	25.8	0.0	22.8	-0.85	80.9
0000EW111	8/22/2022 9:06	51.0	24.0	0.0	25.0	-1.08	80.8
0000EW112	8/22/2022 9:08	34.1	24.8	0.1	41.0	-1.38	82.1
0000EW113	8/22/2022 9:11	41.6	22.6	0.0	35.8	-1.20	80.2
0000EW114	8/22/2022 9:13	39.4	25.4	0.0	35.2	-0.47	78.2
0000AW07	8/22/2022 9:15	77.0	23.0	0.0	0.0	-0.47	77.2
0000AW23A	8/22/2022 9:17	66.4	22.2	0.1	11.3	-0.50	78.0
0000AW23	8/22/2022 9:19	66.8	22.2	0.0	11.0	-0.54	77.1
0000AW24	8/22/2022 9:21	67.0	22.2	0.0	10.8	-0.49	76.7
0000AW02	8/22/2022 9:26	53.8	27.3	0.0	18.9	-2.88	76.8
0000EW103	8/22/2022 9:31	35.9	26.5	0.1	37.5	-1.19	76.6
0000AW21	8/22/2022 9:34	69.3	30.1	0.0	0.6	-1.01	79.3
0000AW20	8/22/2022 9:36	48.8	25.1	0.0	26.1	-0.99	77.4
0000EW102	8/22/2022 9:39	36.0	27.5	0.0	36.5	-1.25	78.9
0000EW101	8/22/2022 9:42	46.0	32.1	0.0	21.9	-1.27	79.4
0000EW100	8/22/2022 9:44	38.4	26.8	0.1	34.7	-1.26	79.7
0000AW29	8/22/2022 9:47	39.3	25.6	0.0	35.1	-1.31	81.5
0000AW01	8/22/2022 9:50	45.3	29.0	0.0	25.7	-2.18	82.7
0000EW104	8/22/2022 9:57	38.4	30.6	1.4	29.6	-1.31	77.3
0000AW35	8/22/2022 9:59	53.3	27.9	0.0	18.8	-1.52	79.1
0000AW36	8/22/2022 10:01	53.4	30.6	0.0	16.0	-2.02	82.5
0000EW105	8/22/2022 10:03	67.7	28.8	0.0	3.5	-1.29	82.1
0000AW27	8/22/2022 10:06	37.7	27.9	0.0	34.4	-1.08	83.8
0000AW09	8/22/2022 10:08	76.7	19.7	0.0	3.6	-5.28	80.6

## NORTH PARCEL - LANDFILL GAS COLLECTION WELLS

Name: K. Guubara Date: 8/22/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-112	X		X		X		
EW-113	X		X		X		
EW-114	X		X		X		
AW-07	X		X		X		
AW-23A	X		X		X		
AW-23	X		X		X		
AW-24	X		X		X		
AW-02	X		X		X		
EW-103	X		X		X		
AW-21	X		X		X		
AW-20	X		X		X		
EW-102	X		X		X		
EW-101	X		X		X		
EW-100	X		X		X		
AW-29	X		X		X		
AW-01	X		X		X		
EW-104	X		X		X		
AW-35	X		X		X		
AW-36	X		X		X		
EW-105	X		X		X		
AW-27	X		X		X		
AW-09	X		X		X		

## NORTHERN PARCEL - LANDFILL GAS COLLECTION WELL

Name: K. Guwarr Date: 8/22/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
AW-03	X	X	X	X	X	X	
AW-08	X	X	X	X	X	X	
EW-107	X	X	X	X	X	X	
EW-106	X	X	X	X	X	X	
AW-9B	X	X	X	X	X	X	
AW-04	X	X	X	X	X	X	
EW-108	X	X	X	X	X	X	
AW-12	X	X	X	X	X	X	
EW-109	X	X	X	X	X	X	
AW-25	X	X	X	X	X	X	
EW-110	X	X	X	X	X	X	
AW-28	X	X	X	X	X	X	
AW-11	X	X	X	X	X	X	
AW-10	X	X	X	X	X	X	
AW-05	X	X	X	X	X	X	
AW-22	X	X	X	X	X	X	
AW-06	X	X	X	X	X	X	
EW-111							

## NONCONTACT - PERIMETER COLLECTIONS

Date:

Name:

8/22/22

R.Guehrs

WELL ID	Gauge Reading		Time (24 hr)	COMMENTS
	(+)	(-)		
PC-18	0	3.6	1018	
PC-17	0	1.2	1019	
PC-16	0	0.8	1020	
PC-15	0	0.5	1021	
PC-14	0	1.6	1022	
PC-13	0	2.0	1023	
PC-01	0	1.6	1024	
PC-02	0	1.6	1025	
PC-03	0	1.2	1025	
PC-04	0	1.4	1026	
PC-05	0	1.6	1027	
PC-06	0	1.4	1028	
PC-07	0	3.4	1029	
PC-08	0	3.0	1030	
PC-09	0	0	1030	
PC-10	0	0.2	1031	
PC-11	0	1.2	1032	
PC-12	0	3.5	1033	
PC-25	0	1.2	1033	
PC-24	0	5.0	1034	
PC-23	0	1.6	1035	
PC-22	0	1.5	1036	Replaced - Gauge
PC-21	0	1.0	1037	
PC-20	0	0.5	1038	
PC-19	0	0.2	1039	

## NORTH PALM EL - SEPTEMBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000AW03	9/29/2022 10:12	53.2	23.5	0.3	23.0	-5.76	78.2
0000AW08	9/29/2022 10:13	57.3	21.8	0.0	20.9	-3.62	80.9
0000EW107	9/29/2022 10:15	49.8	23.1	0.3	26.8	-1.34	80.8
0000EW106	9/29/2022 10:17	58.2	25.3	0.3	16.2	-1.52	74.8
0000AW09B	9/29/2022 10:19	64.4	26.5	0.2	8.9	-3.22	76.8
0000AW04	9/29/2022 10:21	57.8	23.3	0.2	18.7	-1.16	76.6
0000EW108	9/29/2022 10:23	37.6	26.0	0.3	36.1	-1.29	74.2
0000AW12	9/29/2022 10:25	72.5	17.9	0.4	9.2	-0.39	76.0
0000EW109	9/29/2022 10:26	42.9	27.2	0.2	29.7	-1.10	76.1
0000AW25	9/29/2022 10:28	46.3	27.7	1.0	25.0	-0.30	76.4
0000EW110	9/29/2022 10:30	33.0	29.2	0.2	37.6	-1.02	77.1
0000AW28	9/29/2022 10:32	33.2	26.3	0.3	40.2	-0.94	76.7
0000AW11	9/29/2022 10:33	42.9	27.4	0.3	29.4	-1.56	76.8
0000AW10	9/29/2022 10:35	52.9	22.5	0.2	24.4	-1.59	78.9
0000AW05	9/29/2022 10:46	60.1	23.4	0.3	16.2	-0.75	76.8
0000AW22	9/29/2022 10:48	56.1	26.3	0.2	17.4	-0.76	76.6
0000AW06	9/29/2022 10:50	56.1	26.2	0.3	17.4	-0.71	81.5
0000EW111	9/29/2022 10:51	54.3	23.8	0.3	21.6	-0.96	82.7
0000EW112	9/29/2022 10:53	32.3	24.9	0.3	42.5	-1.13	82.1
0000EW113	9/29/2022 10:55	44.9	22.8	0.3	32.0	-0.95	80.2
0000EW114	9/29/2022 10:57	41.2	25.2	0.2	33.4	-0.34	78.2
0000AW07	9/29/2022 10:58	76.5	23.4	0.2	-0.1	-0.27	77.2
0000AW23A	9/29/2022 11:00	69.3	21.9	0.3	8.5	-0.29	78.0
0000AW23	9/29/2022 11:01	69.4	22.0	0.0	8.6	-0.38	77.1
0000AW24	9/29/2022 11:02	65.7	25.0	0.7	8.6	-0.32	76.7
0000AW02	9/29/2022 11:04	55.5	27.4	0.3	16.8	-1.90	76.8
0000EW103	9/29/2022 11:05	39.4	26.9	0.2	33.5	-0.87	76.6
0000AW20	9/29/2022 11:13	52.0	24.9	0.3	22.8	-0.67	74.8
0000AW21	9/29/2022 11:15	68.7	29.5	0.3	1.5	-0.76	76.8
0000EW102	9/29/2022 11:16	37.1	27.8	0.2	34.9	-0.93	78.9
0000EW101	9/29/2022 11:18	48.1	32.0	0.3	19.6	-0.88	79.4
0000EW100	9/29/2022 11:19	40.2	27.6	0.3	31.9	-0.88	79.7
0000AW29	9/29/2022 11:21	38.8	25.4	0.3	35.5	-0.90	81.5
0000AW01	9/29/2022 11:22	45.3	29.0	0.3	25.4	-1.72	82.7
0000EW104	9/29/2022 11:24	40.5	32.9	0.6	26.0	-0.97	77.3
0000AW35	9/29/2022 11:26	52.2	28.1	0.2	19.5	-1.12	79.1
0000AW36	9/29/2022 11:27	52.2	30.4	0.3	17.1	-1.56	82.5
0000EW105	9/29/2022 11:28	70.1	28.3	0.2	1.4	-0.89	78.2
0000AW27	9/29/2022 11:30	39.4	28.0	0.2	32.4	-0.78	77.2
0000AW09	9/29/2022 11:31	75.8	19.4	0.3	4.5	-4.21	78.0

Name: *Butter*

Date: *9/30/22*

NORTH PARCEL - LANDFILL GAS COLLECTION WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
AW-03	✓	✓	✓	✓	✓	✓	
AW-08	✓	✓	✓	✓	✓	✓	
EW-107	✓	✓	✓	✓	✓	✓	
EW-106	✓	✓	✓	✓	✓	✓	
AW-9B	✓	✓	✓	✓	✓	✓	
AW-04	✓	✓	✓	✓	✓	✓	
EW-108	✓	✓	✓	✓	✓	✓	
AW-12	✓	✓	✓	✓	✓	✓	
EW-109	✓	✓	✓	✓	✓	✓	
AW-25	✓	✓	✓	✓	✓	✓	
EW-110	✓	✓	✓	✓	✓	✓	
AW-28	✓	✓	✓	✓	✓	✓	
AW-11	✓	✓	✓	✓	✓	✓	
AW-10	✓	✓	✓	✓	✓	✓	
AW-05	✓	✓	✓	✓	✓	✓	
AW-22	✓	✓	✓	✓	✓	✓	
AW-06	✓	✓	✓	✓	✓	✓	
EW-111	✓	✓	✓	✓	✓	✓	

J. Sturc  
Name:

9/30/22  
Date:

NOFA PARCEL - LANDFILL GAS COLLECTOR WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-112	✓	✗	✓	✗	✓	✗	
EW-113	✓	✗	✓	✗	✓	✗	
EW-114	✓	✗	✓	✗	✓	✗	
AW-07	✓	✗	✓	✗	✓	✗	
AW-23A	✓	✗	✓	✗	✓	✗	
AW-23	✓	✗	✓	✗	✓	✗	
AW-24	✓	✗	✓	✗	✓	✗	
AW-02	✓	✗	✓	✗	✓	✗	
EW-103	✓	✗	✓	✗	✓	✗	
AW-21	✓	✗	✓	✗	✓	✗	
AW-20	✓	✗	✓	✗	✓	✗	
EW-102	✓	✗	✓	✗	✓	✗	
EW-101	✓	✗	✓	✗	✓	✗	
EW-100	✓	✗	✓	✗	✓	✗	
AW-29	✓	✗	✓	✗	✓	✗	
AW-01	✓	✗	✓	✗	✓	✗	
EW-104	✓	✗	✓	✗	✓	✗	
AW-35	✓	✗	✓	✗	✓	✗	
AW-36	✓	✗	✓	✗	✓	✗	
EW-105	✓	✗	✓	✗	✓	✗	
AW-27	✓	✗	✓	✗	✓	✗	
AW-09	✓	✗	✓	✗	✓	✗	

Date: 9/30/22  
Name: J. Butera

WELL ID	Gauge Reading		Time (24 hr)	COMMENTS
	(+)	(-)		
PC-18		1.8	12:15	
PC-17		0.2	12:18	
PC-16		0.1	12:18	
PC-15		0.1	12:20	
PC-14		0.6	12:20	
PC-13		1.0	12:21	
PC-01		0.8	12:23	
PC-02		0.2	12:23	
PC-03		0.4	12:24	
PC-04		0.6	12:25	
PC-05		0.4	12:25	
PC-06		0.2	12:27	
PC-07		2.8	12:03	
PC-08		2.0	12:05	Needs new FD
PC-09		0.2	12:06	
PC-10		0.2	12:06	
PC-11		0.2	12:08	
PC-12		3.2	12:08	
PC-25		0.2	12:10	
PC-24		3.2	12:10	
PC-23		1.2	12:11	
PC-22		0.2	12:12	
PC-21		0.2	12:12	
PC-20		0.2	12:13	
PC-19		0.2	12:13	

All Could use New ID stickers

## NORTH PAEL • OCTOBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000AW03	10/27/2022 10:26	53.3	24.1	0.3	22.3	-7.48	74.2
0000AW08	10/27/2022 10:27	59.8	21.5	0.1	18.6	-4.06	73.0
0000EW107	10/27/2022 10:29	54.0	22.8	0.2	23.0	-1.09	72.8
0000EW106	10/27/2022 10:32	59.7	25.5	0.3	14.5	-1.29	74.0
0000AW09B	10/27/2022 10:33	67.2	26.4	0.3	6.1	-2.94	73.8
0000AW04	10/27/2022 10:35	53.1	23.2	0.3	23.4	-0.83	72.8
0000EW108	10/27/2022 10:37	41.7	25.8	0.3	32.2	-0.92	71.9
0000AW12	10/27/2022 10:40	75.5	17.9	0.5	6.1	-0.61	72.1
0000EW109	10/27/2022 10:42	43.8	27.7	0.3	28.2	-0.83	72.8
0000AW25	10/27/2022 10:44	47.5	28.8	0.6	23.1	-1.80	71.0
0000EW110	10/27/2022 10:46	41.7	27.6	0.2	30.5	-0.66	70.2
0000AW28	10/27/2022 10:48	34.3	27.1	0.0	38.6	-0.67	71.4
0000AW11	10/27/2022 10:50	45.3	28.0	0.0	26.7	-1.23	72.1
0000AW10	10/27/2022 10:53	55.8	22.6	0.3	21.3	-1.39	70.9
0000AW05	10/27/2022 10:55	53.6	21.1	2.0	23.3	-0.47	72.2
0000AW22	10/27/2022 10:58	60.6	26.7	0.0	12.7	-0.16	74.6
0000AW06	10/27/2022 11:00	60.7	26.9	0.0	12.4	-0.20	76.0
0000EW111	10/27/2022 11:02	59.3	23.8	0.2	16.7	-0.65	75.4
0000EW112	10/27/2022 11:04	33.3	24.9	0.1	41.7	-0.87	75.5
0000EW113	10/27/2022 11:05	46.1	23.4	0.0	30.5	-0.54	77.3
0000EW114	10/27/2022 11:07	44.1	24.8	0.0	31.1	-0.09	76.8
0000AW07	10/27/2022 11:09	76.4	23.3	0.3	0.0	-0.16	76.8
0000AW23A	10/27/2022 11:10	70.4	21.9	0.1	7.6	-0.08	78.1
0000AW23	10/27/2022 11:11	70.0	21.8	0.0	8.2	-0.08	78.4
0000AW24	10/27/2022 11:13	61.6	23.6	0.5	14.3	-0.12	78.0
0000AW02	10/27/2022 11:15	58.9	27.3	0.0	13.8	-1.76	77.8
0000EW103	10/27/2022 11:17	43.7	27.3	0.0	29.0	-0.58	76.9
0000AW21	10/27/2022 11:19	68.3	29.4	0.0	2.3	-0.44	78.0
0000AW20	10/27/2022 11:21	54.8	24.9	0.2	20.1	-0.23	77.7
0000EW102	10/27/2022 11:46	38.5	28.0	0.0	33.5	-0.63	81.7
0000EW101	10/27/2022 12:20	49.7	32.4	0.1	17.8	-0.45	79.8
0000EW100	10/27/2022 12:22	42.2	28.1	0.0	29.7	-0.69	78.6
0000AW29	10/27/2022 12:23	42.1	25.2	0.0	32.7	-0.51	78.8
0000AW01	10/27/2022 12:26	45.7	28.7	0.0	25.6	-1.49	78.8
0000EW104	10/27/2022 12:27	43.4	32.5	0.3	23.8	-0.54	77.8
0000AW35	10/27/2022 12:28	51.6	29.2	0.0	19.2	-0.75	78.3
0000AW36	10/27/2022 12:31	53.4	30.8	0.0	15.8	-1.28	78.4
0000EW105	10/27/2022 12:33	65.3	29.5	0.2	5.0	-0.65	78.9
0000AW27	10/27/2022 12:34	46.4	28.7	0.0	24.9	-0.44	79.3
0000AW09	10/27/2022 12:35	77.4	19.5	0.0	3.1	-4.66	78.6

*Bulera*  
Name:

10/27/22  
Date:

NORTH PARCEL - LANDFILL GAS COLLECTION WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
AW-03	✓	✓	✓	✓	✓	✓	
AW-08	✓	✓	✓	✓	✓	✓	
EW-107	✓	✓	✓	✓	✓	✓	
EW-106	✓	✓	✓	✓	✓	✓	
AW-9B	✓	✓	✓	✓	✓	✓	
AW-04	✓	✓	✓	✓	✓	✓	
EW-108	✓	✓	✓	✓	✓	✓	
AW-12	✓	✓	✓	✓	✓	✓	
EW-109	✓	✓	✓	✓	✓	✓	
AW-25	✓	✓	✓	✓	✓	✓	
EW-110	✓	✓	✓	✓	✓	✓	
AW-28	✓	✓	✓	✓	✓	✓	
AW-11	✓	✓	✓	✓	✓	✓	
AW-10	✓	✓	✓	✓	✓	✓	
AW-05	✓	✓	✓	✓	✓	✓	
AW-22	✓	✓	✓	✓	✓	✓	
AW-06	✓	✓	✓	✓	✓	✓	
EW-111	✓	✓	✓	✓	✓	✓	

*T. K. Bell*  
Name:

*10/27/22*  
Date:

NORTHERN PARCEL - LANDFILL GAS COLLECTION WELLS

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-112	✓		✓		✓		
EW-113	✓		✓		✓		
EW-114	✓		✓		✓		
AW-07			✓		✓		
AW-23A	✓		✓		✓		
AW-23	✓		✓		✓		
AW-24	✓		✓		✓		
AW-02	✓		✓		✓		
EW-103			✓		✓		
AW-21	✓		✓		✓		
AW-20	✓		✓		✓		
EW-102	✓		✓		✓		
EW-101	✓		✓		✓		
EW-100	✓		✓		✓		
AW-29			✓		✓		
AW-01	✓		✓		✓		
EW-104			✓		✓		
AW-35	✓		✓		✓		
AW-36	✓		✓		✓		
EW-105	✓		✓		✓		
AW-27	✓		✓		✓		
AW-09			✓		✓		

## NORTH PARCEL - PERIMETER COLLECTORS

Date:  
Name:10/27/22  
J Buleva

WELL ID	Gauge Reading		Time (24 hr)	COMMENTS
	(+)	(-)		
PC-18		2.6	1412	
PC-17		0.2	1412	
PC-16		0.2	1403	
PC-15		0.2	1413	
PC-14		0.4	1414	
PC-13		0.2	1414	
PC-01		0.2	1415	
PC-02		0.2	1416	
PC-03		0.4	1417	
PC-04		0.2	1417	
PC-05		0.2	1417	
PC-06		0.2	1400	
PC-07		2.4	1402	Well has been hit by tractor.
PC-08		2.2	1402	
PC-09		0.2	1403	
PC-10		0.2	1403	
PC-11		0.2	1404	
PC-12		4.2	1405	
PC-25		0.2	1405	
PC-24		4.2	1406	
PC-23		0.2	1406	
PC-22		0.2	1408	
PC-21		0.2	1408	
PC-20		0.2	1409	
PC-19		0.2	1410	

⊗ Needs to have positive gauge installed (drilled)

## NORTH PA

EL - NOVEMBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000AW03	11/28/2022 7:53	53.9	23.9	0.2	22.0	-3.46	50.7
0000AW08	11/28/2022 7:55	59.3	21.7	0.1	18.9	-3.84	55.0
0000EW07	11/28/2022 7:58	59.1	22.8	0.1	18.0	-0.31	54.2
0000EW106	11/28/2022 8:00	61.9	26.0	0.1	12.0	-0.42	56.1
0000AW09B	11/28/2022 8:04	71.7	26.1	0.1	2.1	-0.24	55.1
0000AW04	11/28/2022 8:07	46.5	23.2	0.1	30.2	-0.33	57.6
0000EW108	11/28/2022 8:12	43.9	26.2	0.1	29.8	-0.14	61.4
0000AW12	11/28/2022 8:17	78.9	17.8	0.1	3.2	-0.71	59.1
0000EW109	11/28/2022 8:20	41.3	28.8	0.1	29.8	-0.11	62.5
0000AW25	11/28/2022 8:22	49.8	29.4	0.1	20.7	-0.77	61.5
0000EW110	11/28/2022 8:25	56.6	25.6	0.1	17.7	-0.35	63.3
0000AW28	11/28/2022 8:29	33.4	27.9	0.1	38.6	-0.05	61.2
0000AW11	11/28/2022 8:31	47.8	28.4	0.1	23.7	-0.23	63.5
0000AW10	11/28/2022 8:35	56.5	22.8	0.1	20.6	-0.53	62.8
0000AW05	11/28/2022 8:38	65.8	23.5	0.1	10.6	-0.45	60.8
0000AW22	11/28/2022 8:45	63.0	27.9	0.1	9.0	-0.19	63.2
0000AW06	11/28/2022 8:56	63.4	28.0	0.2	8.4	-0.09	60.6
0000EW111	11/28/2022 8:59	63.3	24.1	0.2	12.4	-0.41	62.1
0000EW112	11/28/2022 9:03	30.7	25.2	0.4	43.7	-0.79	62.1
0000EW113	11/28/2022 9:06	49.4	23.8	0.1	26.7	-0.44	64.0
0000EW114	11/28/2022 9:10	48.5	25.7	0.2	25.6	-0.01	62.8
0000AW07	11/28/2022 9:12	76.4	23.5	0.1	0.0	-0.43	61.1
0000AW23A	11/28/2022 9:15	77.5	22.5	0.1	0.0	-0.58	60.7
0000AW23	11/28/2022 9:17	76.9	22.9	0.1	0.1	-0.58	58.6
0000AW24	11/28/2022 9:20	67.6	25.7	0.1	6.6	-0.58	58.5
0000AW02	11/28/2022 9:23	62.3	27.8	0.1	9.8	-0.21	59.4
0000EW103	11/28/2022 9:27	47.3	28.5	0.2	24.0	-0.50	60.6
0000AW21	11/28/2022 9:30	69.2	30.7	0.1	0.0	-0.62	62.0
0000AW20	11/28/2022 9:33	60.4	24.5	0.2	14.9	-0.55	61.2
0000EW102	11/28/2022 9:38	40.0	28.3	0.2	31.5	-0.38	64.9
0000EW101	11/28/2022 9:40	51.6	32.1	0.1	16.2	-0.39	64.0
0000EW100	11/28/2022 9:45	40.7	27.9	0.2	31.2	-1.26	65.0
0000AW29	11/28/2022 9:48	47.2	24.9	0.2	27.7	-0.03	66.9
0000AW01	11/28/2022 9:50	48.2	29.7	0.1	22.0	-0.92	69.9
0000EW104	11/28/2022 9:53	45.0	31.4	0.1	23.5	-0.60	65.8
0000AW35	11/28/2022 9:55	54.1	28.8	0.1	17.0	-0.01	65.4
0000AW36	11/28/2022 9:58	54.7	31.3	0.1	13.9	-0.28	67.0
0000EW105	11/28/2022 10:00	72.0	27.8	0.2	0.0	-1.07	65.2
0000AW27	11/28/2022 10:03	47.3	27.9	0.2	24.6	-0.18	64.6
0000AW09	11/28/2022 10:05	80.3	19.5	0.2	0.0	-9.84	62.9

## NOFA H PARCEL - LANDFILL GAS COLLECTOR WELLS

Name: *Q Staln*  
Date: 11/29/22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
AW-03	X				X		
AW-08	X				X		
EW-107	X				X		
EW-106	X				X		
AW-9B					X		
AW-04	X		X		X		
EW-108					X		
AW-12					X		
EW-109					X		
AW-25					X		
EW-110					X		
AW-28					X		
AW-11					X		
AW-10					X		
AW-05					X		
AW-22					X		
AW-06					X		
EW-111					X		

## NORTHPARCEL - LANDFILL GAS COLLECTION WELLS

Name: *R. Getman*  
Date: *1/29/22*

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-112	X				X		
EW-113	X				X		
EW-114	X				X		
AW-07	X				X		
AW-23A	X				X		
AW-23	X				X		
AW-24	X				X		
AW-02	X				X		
EW-103	X				X		
AW-21	X				X		
AW-20	X				X		
EW-102	X				X		
EW-101	X				X		
EW-100	X				X		
AW-29	X				X		
AW-01	X				X		
EW-104	X				X		
AW-35	X				X		
AW-36	X				X		
EW-105	X				X		
AW-27	X				X		
AW-09	X				X		

## NORTH PARCEL - PERIMETER COLLECTORS

Date:

Name:

11/28/22  
RGruller

WELL ID	Gauge Reading		Time (24 hr)	COMMENTS
	(+)	(-)		
PC-18	0.0	1.4	1012	
PC-17	0.6	0.9	1013	
PC-16	0.0	0.9	1014	
PC-15	0.0	0.6	1014	
PC-14	0.6	2.6	1015	
PC-13	0.0	0.1	1015	
PC-01	0.0	0.5	1016	
PC-02	0.0	0.7	1016	
PC-03	0.2	0.6	1017	
PC-04	0.0	0.8	1018	
PC-05	0.0	0.9	1018	
PC-06	0.0	0.4	1019	—
PC-07	0.0	0.8	1020	
PC-08	0.0	1.0	1021	
PC-09	0.0	0.5	1022	
PC-10	0.1	-0.6	1023	
PC-11	0.0	0.6	1024	
PC-12	0.0	2.5	1025	
PC-25	0.0	0.3	1026	
PC-24	0.0	4.5	1027	
PC-23	0.0	0.2	1028	
PC-22	0.0	0.4	1029	
PC-21	0.0	0.2	1030	
PC-20	0.0	0.6	1030	
PC-19	0.0	0.4	1031	

## NORTH PAF

L - DECEMBER 2022

Device ID	Date/Time	CH4 %	CO2 %	O2 %	Balance %	Rel Pressure in H2O	Temperature DegF
0000AW03	12/28/2022 8:57	55.6	21.8	0.1	22.5	-3.46	60.8
0000AW08	12/28/2022 9:00	58.6	21.5	0.1	19.8	-2.75	63.2
0000EW107	12/28/2022 9:02	54.3	23.0	0.1	22.6	-1.36	60.6
0000EW106	12/28/2022 9:04	62.0	25.4	0.0	12.6	-1.39	62.1
0000AW09B	12/28/2022 9:06	70.2	26.7	0.0	3.1	-1.14	62.1
0000AW04	12/28/2022 9:08	48.4	22.7	0.1	28.8	-1.22	64.0
0000EW108	12/28/2022 9:09	45.4	24.5	0.0	30.1	-1.25	61.4
0000AW12	12/28/2022 9:12	77.2	17.8	0.1	4.9	-0.80	59.1
0000EW109	12/28/2022 9:14	70.4	23.0	0.0	6.6	-0.91	62.5
0000AW25	12/28/2022 9:15	48.0	27.9	0.7	23.4	-1.35	61.5
0000EW110	12/28/2022 9:17	55.7	25.4	0.0	18.9	-0.85	61.1
0000AW28	12/28/2022 9:18	38.1	27.7	0.0	34.2	-0.87	60.7
0000AW11	12/28/2022 9:19	49.6	28.0	0.0	22.4	-1.11	58.6
0000AW10	12/28/2022 9:21	62.6	23.1	0.0	14.3	-1.03	58.5
0000AW05	12/28/2022 9:23	66.6	23.5	0.2	9.7	-0.67	60.8
0000AW22	12/28/2022 9:25	59.5	26.7	0.0	13.8	-0.59	63.2
0000AW06	12/28/2022 9:26	58.8	26.9	0.3	14.0	-0.65	60.6
0000EW111	12/28/2022 9:28	64.4	23.2	0.2	12.2	-0.86	62.1
0000EW112	12/28/2022 9:30	46.1	25.4	0.0	28.5	-1.25	62.0
0000EW113	12/28/2022 9:32	59.8	22.7	0.0	17.5	-0.74	61.2
0000EW114	12/28/2022 9:35	53.8	25.6	0.1	20.5	-0.50	64.9
0000AW07	12/28/2022 9:36	77.2	22.8	0.0	0.0	-0.10	64.0
0000AW23A	12/28/2022 9:38	77.8	22.1	0.1	0.0	-0.53	65.0
0000AW23	12/28/2022 9:39	72.8	24.1	0.5	2.6	-0.52	66.9
0000AW24	12/28/2022 9:40	74.3	23.6	0.4	1.7	-0.53	69.9
0000AW02	12/28/2022 9:41	62.6	27.1	0.2	10.1	-0.97	65.8
0000EW103	12/28/2022 9:42	51.4	27.6	0.0	21.0	-1.03	65.4
0000AW21	12/28/2022 9:44	66.8	27.8	0.5	4.9	-0.99	67.0
0000AW20	12/28/2022 9:45	58.9	25.0	0.0	16.1	-0.96	65.2
0000EW102	12/28/2022 9:48	41.4	27.1	0.0	31.5	-1.21	64.6
0000EW101	12/28/2022 9:49	45.2	29.9	0.0	24.9	-1.24	62.9
0000EW100	12/28/2022 9:50	42.9	26.9	0.2	30.0	-1.47	61.2
0000AW29	12/28/2022 9:51	58.2	27.7	0.2	13.9	-1.23	64.9
0000AW01	12/28/2022 9:53	46.9	28.3	0.1	24.7	-1.21	64.0
0000EW104	12/28/2022 9:54	43.8	29.7	1.2	25.3	-1.06	65.8
0000AW35	12/28/2022 9:56	52.7	29.3	0.2	17.8	-1.18	61.5
0000AW36	12/28/2022 9:57	54.3	30.5	0.0	15.2	-1.04	63.3
0000EW105	12/28/2022 9:58	72.1	27.9	0.0	0.0	-1.04	61.2
0000AW27	12/28/2022 9:59	54.3	27.5	0.0	18.2	-0.92	63.5
0000AW09	12/28/2022 10:01	78.4	19.6	0.0	2.0	-2.00	62.9

## NORTH PARCEL - LANDFILL GAS COLLECTION WELLS

Name: J. ButlerDate: 12-28-22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
AW-03	✓		✓		✓		
AW-08	✓		✓		✓		
EW-107	✓		✓		✓		
EW-106	✓		✓		✓		
AW-9B	✓		✓		✓		
AW-04	✓		✓		✓		
EW-108	✓		✓		✓		
AW-12	✓		✓		✓		
EW-109	✓		✓		✓		
AW-25	✓		✓		✓		
EW-110	✓		✓		✓		
AW-28	✓		✓		✓		
AW-11	✓		✓		✓		
AW-10	✓		✓		✓		
AW-05	✓		✓		✓		
AW-22	✓		✓		✓		
AW-06	✓		✓		✓		
EW-111	✓		✓		✓		

## NORTH PARCEL - LANDFILL GAS COLLECTION WELLS

Name: J. ButcherDate: 12-28-22

WELL ID	Negative Pressure		Oxygen < 5%		Temp < 131 F		Comments
	Yes	No	Yes	No	Yes	No	
EW-112	✓		✓		✓		
EW-113	✓		✓		✓		
EW-114	✓		✗		✓		
AW-07	✓		✓		✓		
AW-23A	✓		✓		✓		
AW-23	✓		✓		✓		
AW-24	✓		✓		✓		
AW-02	✓		✓		✓		
EW-103	✓		✓		✓		
AW-21	✓		✓		✓		
AW-20	✓		✓		✓		
EW-102	✓		✓		✓		
EW-101	✓		✓		✓		
EW-100	✓		✓		✓		
AW-29	✓		✓		✓		
AW-01	✓		✓		✓		
EW-104	✓		✓		✓		
AW-35	✓		✓		✓		
AW-36	✓		✓		✓		
EW-105	✓		✓		✓		
AW-27	✓		✓		✓		
AW-09	✓		✓		✓		

## NORTH PARCEL - PERIMETER COLLECTORS

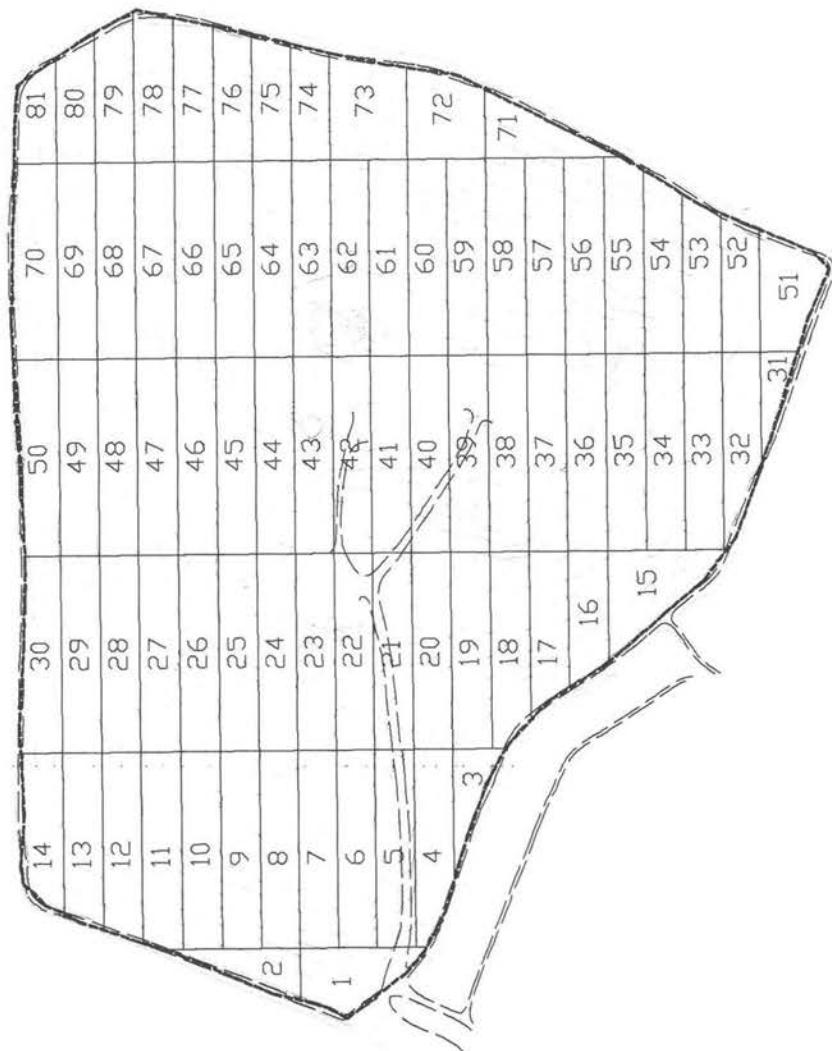
Date: 12-28-12

Name: J. Bofer

WELL ID	Gauge Reading		Time (24 hr)	COMMENTS
	(+)	(-)		
PC-18		1.0	1114	
PC-17		0.2	1115	
PC-16		0.2	1120	
PC-15		0.2	1121	
PC-14		0.2	1124	
PC-13		0.2	1125	
PC-01		0.4	1125	
PC-02		0.2	1127	
PC-03		0.2	1128	
PC-04		0.1	1129	
PC-05		0.1	1132	
PC-06		0.1	1134	
PC-07		1.8	1136	well is damaged
PC-08		1.0	1136	
PC-09		0.2	1139	
PC-10		0.2	1140	
PC-11		0.2	1143	
PC-12		3.6	1145	
PC-25		0.2	1108	
PC-24		3.2	1108	
PC-23		0.6	1109	
PC-22		0.6	1110	
PC-21		0.2	1110	
PC-20		0.2	1112	
PC-19		0.2	1112	

## **Appendix G**

### **Landfill Surface Emission Monitoring Data**



**ACME FILL CORPORATION**  
950 Waterbird Way  
Martinez, California 94553

**SURFACE EMISSION MONITORING GRID**

East Parcel, Acme Landfill  
Contra Costa County, California

Figure 2

**Table 1**  
**INITIAL INTEGRATED RESULTS**  
**3Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION (ppmv)
MONITOR_ae_GRID_1_2022_Q3_Initial.csv	7/5/2022	1	0.1
MONITOR_ae_GRID_2_2022_Q3_Initial.csv	7/5/2022	2	0.4
MONITOR_ae_GRID_3_2022_Q3_Initial.csv	7/29/2022	3	0.2
MONITOR_ae_GRID_4_2022_Q3_Initial.csv	7/29/2022	4	0.3
MONITOR_ae_GRID_5_2022_Q3_Initial.csv	7/5/2022	5	0.3
MONITOR_ae_GRID_8_2022_Q3_Initial.csv	7/5/2022	8	0.1
MONITOR_ae_GRID_9_2022_Q3_Initial.csv	7/5/2022	9	0.1
MONITOR_ae_GRID_10_2022_Q3_Initial.csv	7/5/2022	10	0.2
MONITOR_ae_GRID_11_2022_Q3_Initial.csv	7/5/2022	11	0.1
MONITOR_ae_GRID_12_2022_Q3_Initial.csv	7/5/2022	12	0.2
MONITOR_ae_GRID_14_2022_Q3_Initial.csv	7/5/2022	14	0.2
MONITOR_ae_GRID_15_2022_Q3_Initial.csv	7/29/2022	15	0.1
MONITOR_ae_GRID_16_2022_Q3_Initial.csv	7/29/2022	16	0.3
MONITOR_ae_GRID_17_2022_Q3_Initial.csv	7/29/2022	17	0.2
MONITOR_ae_GRID_18_2022_Q3_Initial.csv	7/29/2022	18	0.1
MONITOR_ae_GRID_19_2022_Q3_Initial.csv	7/29/2022	19	0.2
MONITOR_ae_GRID_20_2022_Q3_Initial.csv	7/29/2022	20	0.8
MONITOR_ae_GRID_21_2022_Q3_Initial.csv	7/29/2022	21	0.1
MONITOR_ae_GRID_22_2022_Q3_Initial.csv	7/29/2022	22	0.3
MONITOR_ae_GRID_23_2022_Q3_Initial.csv	7/29/2022	23	0.2
MONITOR_ae_GRID_24_2022_Q3_Initial.csv	7/29/2022	24	1.2
MONITOR_ae_GRID_25_2022_Q3_Initial.csv	7/5/2022	25	0.7
MONITOR_ae_GRID_26_2022_Q3_Initial.csv	7/5/2022	26	0.1
MONITOR_ae_GRID_27_2022_Q3_Initial.csv	7/5/2022	27	0.2
MONITOR_ae_GRID_28_2022_Q3_Initial.csv	7/5/2022	28	0.1
MONITOR_ae_GRID_29_2022_Q3_Initial.csv	7/5/2022	29	0.0
MONITOR_ae_GRID_30_2022_Q3_Initial.csv	7/5/2022	30	0.1
MONITOR_ae_GRID_31_2022_Q3_Initial.csv	7/22/2022	31	0.3
MONITOR_ae_GRID_32_2022_Q3_Initial.csv	7/22/2022	32	0.3
MONITOR_ae_GRID_33_2022_Q3_Initial.csv	7/22/2022	33	0.4
MONITOR_ae_GRID_34_2022_Q3_Initial.csv	7/22/2022	34	0.1
MONITOR_ae_GRID_35_2022_Q3_Initial.csv	7/22/2022	35	0.3
MONITOR_ae_GRID_36_2022_Q3_Initial.csv	7/22/2022	36	0.2
MONITOR_ae_GRID_37_2022_Q3_Initial.csv	7/22/2022	37	0.4
MONITOR_ae_GRID_38_2022_Q3_Initial.csv	7/22/2022	38	1.1
MONITOR_ae_GRID_39_2022_Q3_Initial.csv	7/22/2022	39	0.3
MONITOR_ae_GRID_40_2022_Q3_Initial.csv	7/22/2022	40	0.4
MONITOR_ae_GRID_41_2022_Q3_Initial.csv	7/22/2022	41	0.4
MONITOR_ae_GRID_42_2022_Q3_Initial.csv	7/22/2022	42	0.4
MONITOR_ae_GRID_43_2022_Q3_Initial.csv	7/22/2022	43	0.6
MONITOR_ae_GRID_44_2022_Q3_Initial.csv	7/22/2022	44	0.3
MONITOR_ae_GRID_45_2022_Q3_Initial.csv	7/22/2022	45	0.4
MONITOR_ae_GRID_46_2022_Q3_Initial.csv	7/22/2022	46	0.2
MONITOR_ae_GRID_47_2022_Q3_Initial.csv	7/22/2022	47	0.4
MONITOR_ae_GRID_48_2022_Q3_Initial.csv	7/22/2022	48	0.4
MONITOR_ae_GRID_49_2022_Q3_Initial.csv	7/22/2022	49	0.2
MONITOR_ae_GRID_50_2022_Q3_Initial.csv	7/22/2022	50	0.3
MONITOR_ae_GRID_51_2022_Q3_Initial.csv	7/22/2022	51	0.4
MONITOR_ae_GRID_52_2022_Q3_Initial.csv	7/22/2022	52	0.1
MONITOR_ae_GRID_53_2022_Q3_Initial.csv	7/22/2022	53	0.1
MONITOR_ae_GRID_54_2022_Q3_Initial.csv	7/22/2022	54	0.4
MONITOR_ae_GRID_55_2022_Q3_Initial.csv	7/22/2022	55	0.2
MONITOR_ae_GRID_56_2022_Q3_Initial.csv	7/22/2022	56	0.5
MONITOR_ae_GRID_59_2022_Q3_Initial.csv	7/29/2022	59	0.2

**Table 1**  
**INITIAL INTEGRATED RESULTS**  
**3Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION (ppmv)
MONITOR_ae_GRID_60_2022_Q3_Initial.csv	7/29/2022	60	0.2
MONITOR_ae_GRID_61_2022_Q3_Initial.csv	7/29/2022	61	0.3
MONITOR_ae_GRID_62_2022_Q3_Initial.csv	7/29/2022	62	0.2
MONITOR_ae_GRID_63_2022_Q3_Initial.csv	7/29/2022	63	0.4
MONITOR_ae_GRID_64_2022_Q3_Initial.csv	7/29/2022	64	0.3
MONITOR_ae_GRID_65_2022_Q3_Initial.csv	7/29/2022	65	0.2
MONITOR_ae_GRID_66_2022_Q3_Initial.csv	7/29/2022	66	0.2
MONITOR_ae_GRID_67_2022_Q3_Initial.csv	7/29/2022	67	0.1
MONITOR_ae_GRID_68_2022_Q3_Initial.csv	7/29/2022	68	0.2
MONITOR_ae_GRID_69_2022_Q3_Initial.csv	7/29/2022	69	0.1
MONITOR_ae_GRID_70_2022_Q3_Initial.csv	7/29/2022	70	1.7
MONITOR_ae_GRID_71_2022_Q3_Initial.csv	7/29/2022	71	0.2
MONITOR_ae_GRID_72_2022_Q3_Initial.csv	7/29/2022	72	0.8
MONITOR_ae_GRID_81_2022_Q3_Initial.csv	7/29/2022	81	0.8

**Table 2**  
**INTEGRATED MONITORING RESULTS**  
**BETWEEN 200-499 PPMV**  
**3Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION PPMV
No instantaneous readings were recorded >200			

**Table 3**  
**INITIAL INTEGRATED MONITORING RESULTS**  
**≥ 500 PPMV**  
**3Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION (ppmv)
No instantaneous readings were recorded ≥ 500 ppmv			

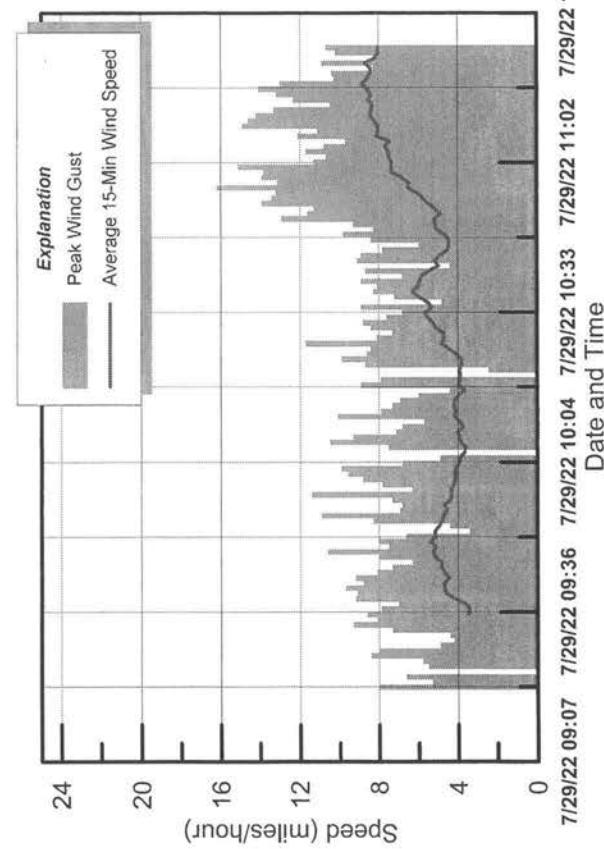
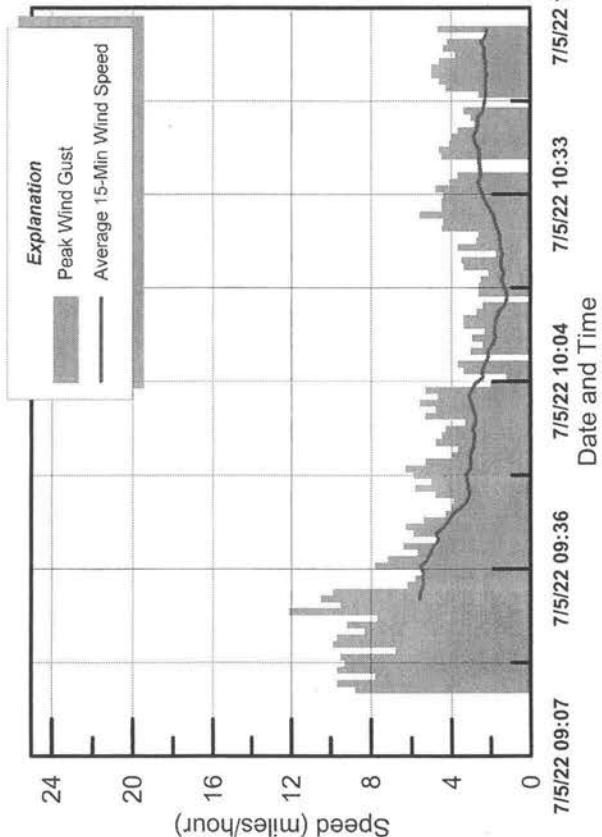
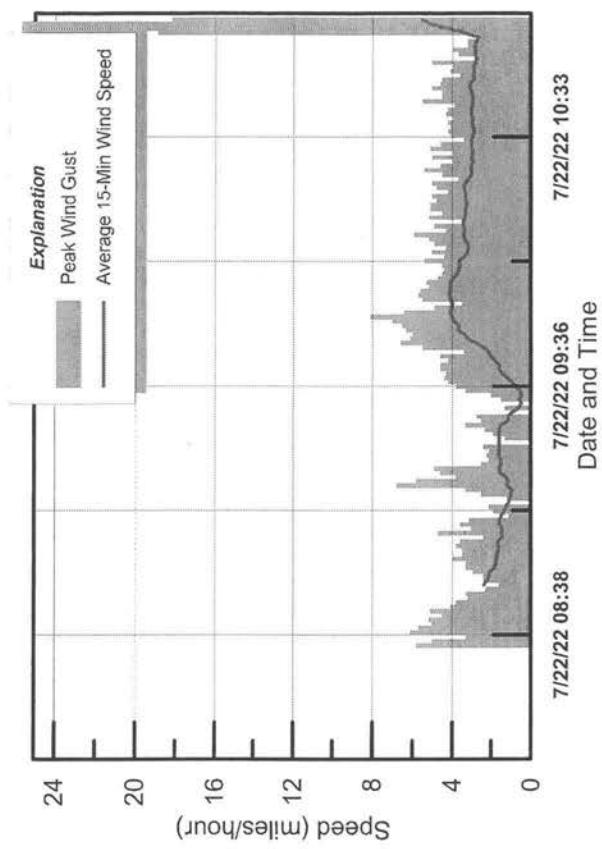


Figure 1  
WIND SPEED DURING MONITORING  
Acme Landfill East Parcel Third Quarter 2022

**Table 1**  
**INITIAL INTEGRATED RESULTS**  
**4Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION (ppmv)
MONITOR_ae_GRID_1_2022_Q4_Initial.csv	10/12/2022	1	0.1
MONITOR_ae_GRID_2_2022_Q4_Initial.csv	10/12/2022	2	1.4
MONITOR_ae_GRID_3_2022_Q4_Initial.csv	10/12/2022	3	0.3
MONITOR_ae_GRID_4_2022_Q4_Initial.csv	10/12/2022	4	0.3
MONITOR_ae_GRID_5_2022_Q4_Initial.csv	10/12/2022	5	0.8
MONITOR_ae_GRID_6_2022_Q4_Initial.csv	10/12/2022	6	0.3
MONITOR_ae_GRID_7_2022_Q4_Initial.csv	10/12/2022	7	0.5
MONITOR_ae_GRID_8_2022_Q4_Initial.csv	10/12/2022	8	0.4
MONITOR_ae_GRID_9_2022_Q4_Initial.csv	10/12/2022	9	0.4
MONITOR_ae_GRID_10_2022_Q4_Initial.csv	10/12/2022	10	0.1
MONITOR_ae_GRID_11_2022_Q4_Initial.csv	10/12/2022	11	0.1
MONITOR_ae_GRID_12_2022_Q4_Initial.csv	10/12/2022	12	0.1
MONITOR_ae_GRID_13_2022_Q4_Initial.csv	10/12/2022	13	0.1
MONITOR_ae_GRID_14_2022_Q4_Initial.csv	10/12/2022	14	0.2
MONITOR_ae_GRID_15_2022_Q4_Initial.csv	10/12/2022	15	0.2
MONITOR_ae_GRID_16_2022_Q4_Initial.csv	10/12/2022	16	0.3
MONITOR_ae_GRID_17_2022_Q4_Initial.csv	10/12/2022	17	0.3
MONITOR_ae_GRID_18_2022_Q4_Initial.csv	10/12/2022	18	0.9
MONITOR_ae_GRID_19_2022_Q4_Initial.csv	10/12/2022	19	0.1
MONITOR_ae_GRID_20_2022_Q4_Initial.csv	10/12/2022	20	0.3
MONITOR_ae_GRID_21_2022_Q4_Initial.csv	10/12/2022	21	0.2
MONITOR_ae_GRID_22_2022_Q4_Initial.csv	10/12/2022	22	0.1
MONITOR_ae_GRID_23_2022_Q4_Initial.csv	10/12/2022	23	0.0
MONITOR_ae_GRID_24_2022_Q4_Initial.csv	10/12/2022	24	0.6
MONITOR_ae_GRID_25_2022_Q4_Initial.csv	10/12/2022	25	0.5
MONITOR_ae_GRID_26_2022_Q4_Initial.csv	10/12/2022	26	0.2
MONITOR_ae_GRID_27_2022_Q4_Initial.csv	10/12/2022	27	0.1
MONITOR_ae_GRID_28_2022_Q4_Initial.csv	10/12/2022	28	0.2
MONITOR_ae_GRID_29_2022_Q4_Initial.csv	10/12/2022	29	0.2
MONITOR_ae_GRID_30_2022_Q4_Initial.csv	10/12/2022	30	0.2
MONITOR_ae_GRID_31_2022_Q4_Initial.csv	10/13/2022	31	0.2
MONITOR_ae_GRID_32_2022_Q4_Initial.csv	10/13/2022	32	0.2
MONITOR_ae_GRID_33_2022_Q4_Initial.csv	10/13/2022	33	0.2
MONITOR_ae_GRID_34_2022_Q4_Initial.csv	10/13/2022	34	0.2
MONITOR_ae_GRID_35_2022_Q4_Initial.csv	10/13/2022	35	0.2
MONITOR_ae_GRID_36_2022_Q4_Initial.csv	10/13/2022	36	1.5
MONITOR_ae_GRID_37_2022_Q4_Initial.csv	10/13/2022	37	0.5
MONITOR_ae_GRID_38_2022_Q4_Initial.csv	10/13/2022	38	1.4
MONITOR_ae_GRID_39_2022_Q4_Initial.csv	10/13/2022	39	0.4
MONITOR_ae_GRID_40_2022_Q4_Initial.csv	10/13/2022	40	0.2
MONITOR_ae_GRID_41_2022_Q4_Initial.csv	10/13/2022	41	0.4
MONITOR_ae_GRID_42_2022_Q4_Initial.csv	10/13/2022	42	0.3
MONITOR_ae_GRID_43_2022_Q4_Initial.csv	10/13/2022	43	0.4
MONITOR_ae_GRID_44_2022_Q4_Initial.csv	10/13/2022	44	0.3
MONITOR_ae_GRID_45_2022_Q4_Initial.csv	10/13/2022	45	0.3
MONITOR_ae_GRID_46_2022_Q4_Initial.csv	10/13/2022	46	0.3
MONITOR_ae_GRID_47_2022_Q4_Initial.csv	10/13/2022	47	0.4
MONITOR_ae_GRID_48_2022_Q4_Initial.csv	10/13/2022	48	0.5
MONITOR_ae_GRID_49_2022_Q4_Initial.csv	10/13/2022	49	0.2
MONITOR_ae_GRID_50_2022_Q4_Initial.csv	10/13/2022	50	0.3
MONITOR_ae_GRID_51_2022_Q4_Initial.csv	10/13/2022	51	0.2
MONITOR_ae_GRID_52_2022_Q4_Initial.csv	10/13/2022	52	0.1
MONITOR_ae_GRID_53_2022_Q4_Initial.csv	10/14/2022	53	0.1
MONITOR_ae_GRID_54_2022_Q4_Initial.csv	10/14/2022	54	0.7

**Table 1**  
**INITIAL INTEGRATED RESULTS**  
**4Q2022 Acme East Landfill**

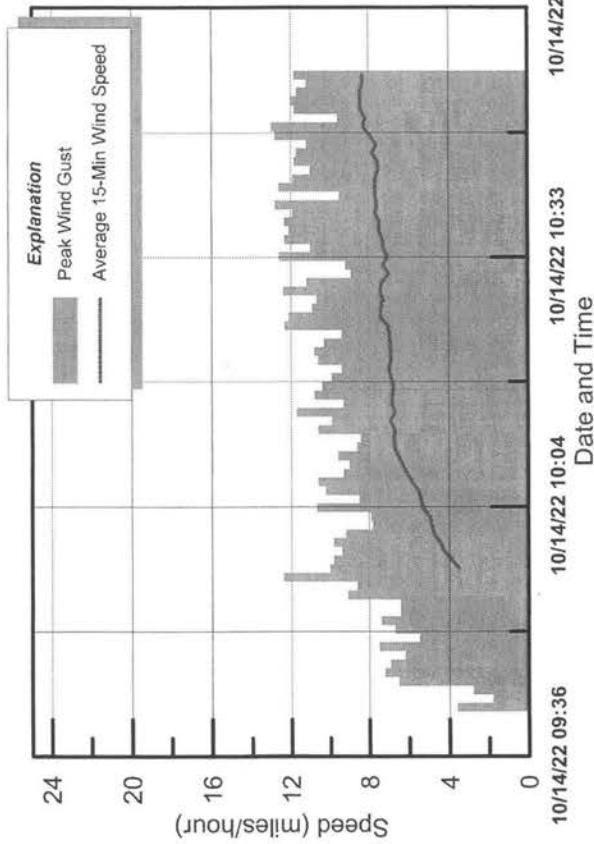
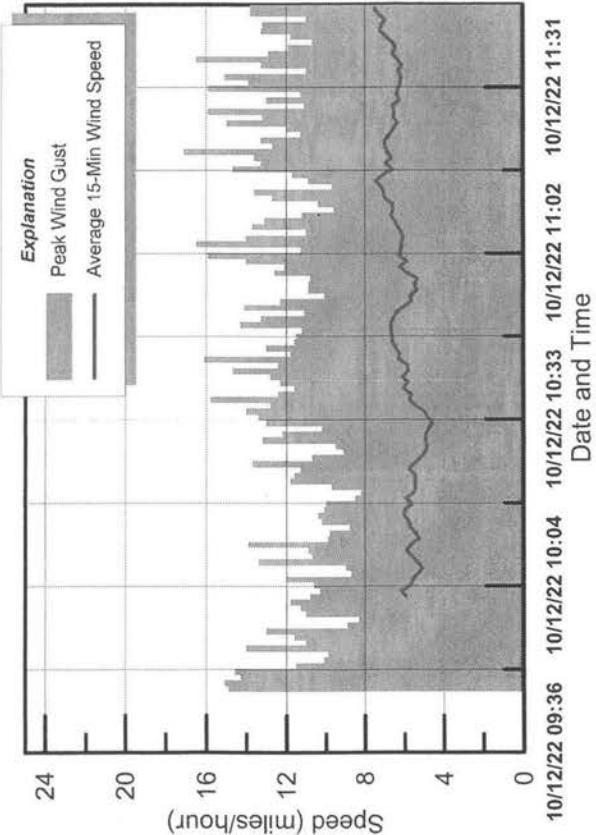
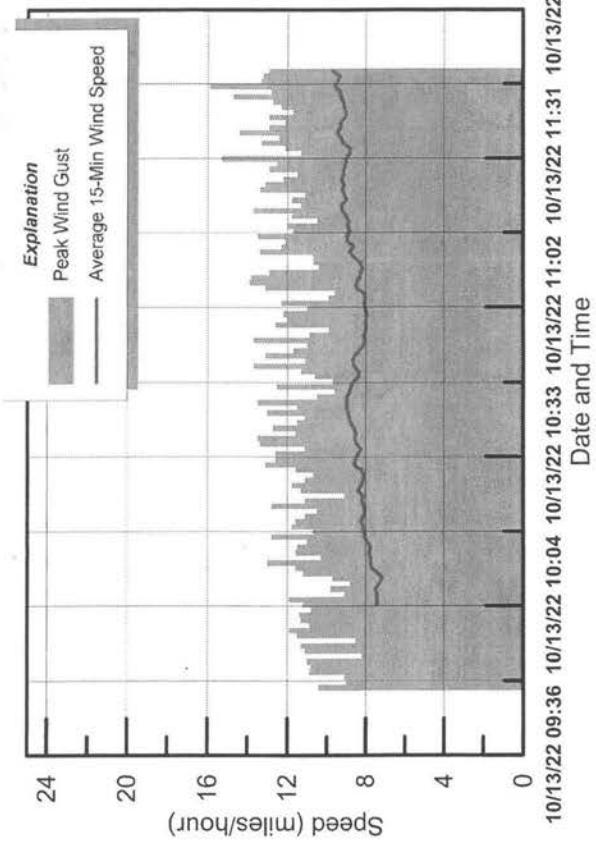
FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION (ppmv)
MONITOR_ae_GRID_55_2022_Q4_Initial.csv	10/14/2022	55	0.2
MONITOR_ae_GRID_56_2022_Q4_Initial.csv	10/14/2022	56	0.2
MONITOR_ae_GRID_57_2022_Q4_Initial.csv	10/14/2022	57	0.1
MONITOR_ae_GRID_58_2022_Q4_Initial.csv	10/14/2022	58	0.2
MONITOR_ae_GRID_59_2022_Q4_Initial.csv	10/14/2022	59	0.4
MONITOR_ae_GRID_60_2022_Q4_Initial.csv	10/14/2022	60	0.4
MONITOR_ae_GRID_61_2022_Q4_Initial.csv	10/14/2022	61	0.4
MONITOR_ae_GRID_62_2022_Q4_Initial.csv	10/14/2022	62	1.2
MONITOR_ae_GRID_63_2022_Q4_Initial.csv	10/14/2022	63	0.5
MONITOR_ae_GRID_64_2022_Q4_Initial.csv	10/14/2022	64	0.3
MONITOR_ae_GRID_65_2022_Q4_Initial.csv	10/14/2022	65	0.3
MONITOR_ae_GRID_66_2022_Q4_Initial.csv	10/14/2022	66	0.3
MONITOR_ae_GRID_67_2022_Q4_Initial.csv	10/14/2022	67	0.3
MONITOR_ae_GRID_68_2022_Q4_Initial.csv	10/14/2022	68	0.3
MONITOR_ae_GRID_69_2022_Q4_Initial.csv	10/14/2022	69	0.8
MONITOR_ae_GRID_70_2022_Q4_Initial.csv	10/14/2022	70	3.1
MONITOR_ae_GRID_71_2022_Q4_Initial.csv	10/13/2022	71	0.1
MONITOR_ae_GRID_72_2022_Q4_Initial.csv	10/13/2022	72	0.4
MONITOR_ae_GRID_73_2022_Q4_Initial.csv	10/13/2022	73	0.2
MONITOR_ae_GRID_74_2022_Q4_Initial.csv	10/13/2022	74	0.3
MONITOR_ae_GRID_75_2022_Q4_Initial.csv	10/14/2022	75	0.6
MONITOR_ae_GRID_76_2022_Q4_Initial.csv	10/14/2022	76	0.6
MONITOR_ae_GRID_77_2022_Q4_Initial.csv	10/14/2022	77	0.5
MONITOR_ae_GRID_78_2022_Q4_Initial.csv	10/14/2022	78	0.6
MONITOR_ae_GRID_79_2022_Q4_Initial.csv	10/14/2022	79	0.3
MONITOR_ae_GRID_80_2022_Q4_Initial.csv	10/14/2022	80	0.1

**Table Z**  
**INTEGRATED MONITORING RESULTS**  
**BETWEEN 200-499 PPMV**  
**4Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION PPMV
No instantaneous readings were recorded >200			

**INITIAL INTEGRATED MONITORING RESULTS**  
 **$\geq 500 \text{ PPMV}$**   
**4Q2022 Acme East Landfill**

FILE NAME	DATE	GRID NO.	INTEGRATED METHANE CONCENTRATION (ppmv)
No instantaneous readings were recorded $\geq 500 \text{ ppmv}$			



**Figure 1**  
**WIND SPEED DURING MONITORING**  
Acme Landfill East Parcel Fourth Quarter 2022

## **Appendix H**

### **Leachate Treatment Plant Flow Data**

**LEACHATE TREATMENT PLANT  
AIR EMISSIONS CALCULATION SHEET**

The Bay Area Air Quality Management District Permit to Operate for the leachate treatment plant (Source 200) states that the following discharge limits to the atmosphere should not be exceeded:

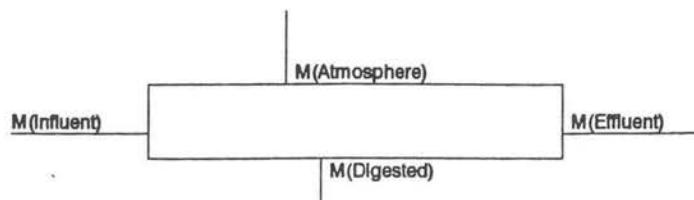
- (1) 0.63 pounds of volatile organic compounds (VOCs) in any consecutive 24-hour period; or
- (2) 0.05 pounds of benzene in any consecutive 24-hour period.

The following worksheet should be used to calculate the total VOC and benzene discharge to the atmosphere.

**MASS BALANCE:**

Values:

M = Mass Flow Rate  
Q = Flow  
C = Concentration  
E = Efficiency



Unknown:

M(Atmosphere)

Known:

$$\begin{aligned} E &= 0.75 \text{ (per original study)} \\ Q(\text{Influent}) &= Q(\text{Effluent}) = Q \\ M(\text{Influent}) &= Q(\text{Influent}) \times C(\text{Influent}) = Q \times C(\text{Influent}) \\ M(\text{Effluent}) &= Q(\text{Effluent}) \times C(\text{Effluent}) = Q \times C(\text{Effluent}) \\ M(\text{Digested}) &= E \times [ Q(\text{Influent}) \times C(\text{Influent}) ] = 0.75 \times [ Q \times C(\text{Influent}) ] \end{aligned}$$

Mass Balance:

$$\begin{aligned} M(\text{Atmosphere}) &= M(\text{Influent}) - M(\text{Effluent}) - M(\text{Digested}) \\ &= [ Q \times C(\text{Influent}) ] - [ Q \times C(\text{Effluent}) ] - \{ 0.75 \times [ Q \times C(\text{Influent}) ] \} \\ &= Q \times \{ [ C(\text{Influent}) \times (1 - 0.75) ] - C(\text{Effluent}) \} \\ &= Q \times \{ [ 0.25 \times C(\text{Influent}) ] - C(\text{Effluent}) \} \end{aligned}$$

**FOR VOLATILE ORGANIC COMPOUNDS:**

Determine the following values or Volatile Organic Compounds:

$$Q = [ 1440 \text{ gallons/minute} ] \times [ 1440 \text{ minutes/day} ] \times [ 3.785 \text{ liters/gallon} ] = 54,731 \text{ liters/day}$$

$$C(\text{Influent}) = [ 0 \text{ milligrams/liter} ] \times [ 0.001 \text{ grams/milligrams} ] \times [ (1/454) \text{ lbs/gram} ] = 0 \text{ lbs/liter}$$

$$C(\text{Effluent}) = [ 0 \text{ milligrams/liter} ] \times [ 0.001 \text{ grams/milligrams} ] \times [ (1/454) \text{ lbs/gram} ] = 0 \text{ lbs/liter}$$

$$\text{Therefore, } M(\text{Atmosphere}) = Q \times \{ [ 0.25 \times C(\text{Influent}) ] - C(\text{Effluent}) \}$$

$$= [ \text{_____ liters/day} ] \times \{ [ 0.25 \times ( 0 \text{ lbs/liter} ) ] - ( 0 \text{ lbs/liter} ) \}$$

$$= \boxed{0} \text{ lbs/day} \quad \text{The maximum allowable Mass Flow Rate for VOCs is 0.63 lbs/day.}$$

**FOR BENZENE:**

Determine the following values or Benzene:

$$Q = [ 1440 \text{ gallons/minute} ] \times [ 1440 \text{ minutes/day} ] \times [ 3.785 \text{ liters/gallon} ] = 54,731 \text{ liters/day}$$

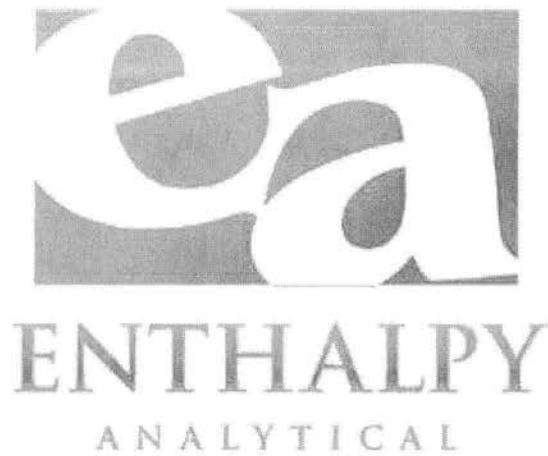
$$C(\text{Influent}) = [ 0 \text{ milligrams/liter} ] \times [ 0.001 \text{ grams/milligrams} ] \times [ (1/454) \text{ lbs/gram} ] = 0 \text{ lbs/liter}$$

$$C(\text{Effluent}) = [ 0 \text{ milligrams/liter} ] \times [ 0.001 \text{ grams/milligrams} ] \times [ (1/454) \text{ lbs/gram} ] = 0 \text{ lbs/liter}$$

$$\text{Therefore, } M(\text{Atmosphere}) = Q \times \{ [ 0.25 \times C(\text{Influent}) ] - C(\text{Effluent}) \}$$

$$= [ \text{_____ liters/day} ] \times \{ [ 0.25 \times ( 0 \text{ lbs/liter} ) ] - ( 0 \text{ lbs/liter} ) \}$$

$$= \boxed{0} \text{ lbs/day} \quad \text{The maximum allowable Mass Flow Rate for Benzene is 0.05 lbs/day.}$$



Enthalpy Analytical  
931 West Barkley Ave  
Orange, CA 92868  
(714) 771-6900

[enthalpy.com](http://enthalpy.com)

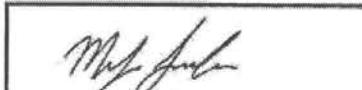
Lab Job Number: 466608  
Report Level: II  
Report Date: 08/09/2022

**Analytical Report prepared for:**

Chris Charrette  
Acme Fill Corporation  
P.O. Box 1108  
Martinez, CA 94553

Project: ACME ANNUAL - INFLUENT annual for PAT

**Authorized for release by:**



Miguel Gamboa, Project Coordinator  
[miguel.gamboa@enthalpy.com](mailto:miguel.gamboa@enthalpy.com)

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105



## Sample Summary

---

Chris Charrette	Lab Job #:	466608
Acme Fill Corporation	Project No:	ACME ANNUAL
P.O. Box 1108	Location:	INFLUENT annual for PAT
Martinez, CA 94553	Date Received:	08/02/22

---

Sample ID	Lab ID	Collected	Matrix
INFLUENT GRAB	466608-001	08/02/22 09:00	Water

## Case Narrative

Acme Fill Corporation  
P.O. Box 1108  
Martinez, CA 94553  
Chris Charrette

Lab Job Number: 466608  
Project No: ACME ANNUAL  
Location: INFLUENT annual for PAT  
Date Received: 08/02/22

This data package contains sample and QC results for one water sample, requested for the above referenced project on 08/02/22. The sample was received cold and intact.

### Volatile Organics by GC/MS (EPA 624.1):

- High response was observed for bromomethane in the ICV analyzed 08/07/22 20:29; affected data was qualified with "b".
- Low response was observed for bromoform in the CCV analyzed 08/08/22 12:28; this analyte met minimum response criteria, and affected data was qualified with "b".
- Low recovery was observed for bromoform in the BS for batch 294552; the associated RPD was within limits.
- INFLUENT GRAB (lab # 466608-001) was diluted due to foaming.
- No other analytical problems were encountered.

Enthalpy Analytical

2323 Fifth Street  
Berkeley, CA 94710  
(510)486-0900 Phone  
(510)486-0532 Fax

CHAIN CUSTODY

C&T LOGIN # 466608

**Chain of Custody #:**

Analysis

## SAMPLE RECEIPT CHECKLIST

Section 1: Login # 466608  
 Date Received: 8/2/22

Client: ACME  
 Project: \_\_\_\_\_



## Section 2: Shipping info (if applicable)

Are custody seals present?  No, or  Yes. If yes, where?  on cooler,  on samples,  on package

Date: \_\_\_\_\_ How many \_\_\_\_\_  Signature,  Initials,  None

Were custody seals intact upon arrival?  Yes  No  N/A

Samples received in a cooler?  Yes, how many? 2  No (skip Section 3 below)

If no cooler Sample Temp (°C): \_\_\_\_\_ using IR Gun #  B, or  C

Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 8/2/22 By (print) mg (sign) [Signature]

Section 3: *Important: Notify PM if temperature exceeds 6°C or arrive frozen.*

Packing in cooler: (if other, describe)

Bubble Wrap,  Foam blocks,  Bags,  None,  Cloth material,  Cardboard,  Styrofoam,  Paper towels

Samples received on ice directly from the field. Cooling process had begun

Type of ice used:  Wet,  Blue/Gel,  None

Temperature blank(s) included?  Yes,  No

Temperature measured using  Thermometer ID: \_\_\_\_\_, or IR Gun #  B  C

Cooler Temp (°C): #1: 4.3, #2: 2.2, #3: \_\_\_\_\_, #4: \_\_\_\_\_, #5: \_\_\_\_\_, #6: \_\_\_\_\_, #7: \_\_\_\_\_

## Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?		/	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?			
Was the client contacted concerning this sample delivery?			

If YES, who was called? By \_\_\_\_\_ Date: \_\_\_\_\_

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# \_\_\_\_\_, pH strip lot# \_\_\_\_\_, pH strip lot# \_\_\_\_\_

Preservative added:

<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> lot# _____	added to samples _____	on/at _____
<input type="checkbox"/> HCl lot# _____	added to samples _____	on/at _____
<input type="checkbox"/> HNO <sub>3</sub> lot# _____	added to samples _____	on/at _____
<input type="checkbox"/> NaOH lot# _____	added to samples _____	on/at _____

## Section 6:

Explanations/Comments: \_\_\_\_\_

Date Logged In 8/2/22  
 Date Labeled 8/2/22

By (print) mg (sign) [Signature]  
 By (print) mg (sign) [Signature]


**ENTHALPY**  
ANALYTICAL  
SAMPLE ACCEPTANCE CHECKLIST
**Section 1**Client: Acme Fill CorporationProject: Influent arrival for P&RDate Received: 8/3/2022Sampler's Name Present:  Yes  No**Section 2**Sample(s) received in a cooler?  Yes, How many? 1  No (skip section 2)

Sample Temp (°C)

(No Cooler): \_\_\_\_\_

Sample Temp (°C), One from each cooler: #1: 3.1 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_

(Acceptance range is &lt; 6°C but not frozen (for Microbiology samples, acceptance range is &lt; 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Greyhound**Section 3**Was the cooler packed with:  Ice  Ice Packs  Bubble Wrap  Styrofoam Paper  None  Other \_\_\_\_\_Cooler Temp (°C): #1: 1.6 #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_**Section 4**

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?		✓	
Was a sufficient amount of sample submitted for the requested tests?	✓		

**Section 5 Explanations/Comments****Section 6**For discrepancies, how was the Project Manager notified?  Verbal PM Initials: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Email (email sent to/on): \_\_\_\_\_ / \_\_\_\_\_

Project Manager's response:

Completed By: Janita Date: 8/3/2022Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.  
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209[www.enthalpy.com/socal](http://www.enthalpy.com/socal)

Sample Acceptance Checklist – Rev 4, 8/8/2017



16 / 3.1

## Analysis Results for 466608

Chris Charrette  
 Acme Fill Corporation  
 P.O. Box 1108  
 Martinez, CA 94553

Lab Job #: 466608  
 Project No: ACME ANNUAL  
 Location: INFLUENT annual for PAT  
 Date Received: 08/02/22

<b>Sample ID:</b> INFLUENT GRAB	<b>Lab ID:</b> 466608-001	<b>Collected:</b> 08/02/22 09:00
<b>Matrix:</b> Water		

466608-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 624.1									
Prep Method: EPA 624.1									
Chloromethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Vinyl Chloride	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Bromomethane	ND		ug/L	10	10	294552	08/08/22	08/08/22	ILK
Chloroethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,1-Dichloroethene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Methylene Chloride	ND		ug/L	20	10	294552	08/08/22	08/08/22	ILK
trans-1,2-Dichloroethene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,1-Dichloroethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Chloroform	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,1,1-Trichloroethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Carbon Tetrachloride	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,2-Dichloroethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Benzene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Trichloroethene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,2-Dichloropropane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Bromodichloromethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
cis-1,3-Dichloropropene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Toluene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
trans-1,3-Dichloropropene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,1,2-Trichloroethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Tetrachloroethene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Dibromochloromethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Chlorobenzene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Ethylbenzene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Styrene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
Bromoform	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,3-Dichlorobenzene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,4-Dichlorobenzene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
1,2-Dichlorobenzene	ND		ug/L	5.0	10	294552	08/08/22	08/08/22	ILK
<b>Surrogates</b>		<b>Limits</b>							
Dibromofluoromethane	101%	%REC	70-140	10	294552	08/08/22	08/08/22	ILK	
1,2-Dichloroethane-d4	103%	%REC	70-140	10	294552	08/08/22	08/08/22	ILK	
Toluene-d8	101%	%REC	70-140	10	294552	08/08/22	08/08/22	ILK	
Bromofluorobenzene	99%	%REC	70-140	10	294552	08/08/22	08/08/22	ILK	

## Analysis Results for 466608

ND Not Detected

## Batch QC

Type: Blank	Lab ID: QC1005233	Batch: 294552
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1005233 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Chloromethane	ND		ug/L	0.5	08/08/22	08/08/22
Vinyl Chloride	ND		ug/L	0.5	08/08/22	08/08/22
Bromomethane	ND		ug/L	1.0	08/08/22	08/08/22
Chloroethane	ND		ug/L	0.5	08/08/22	08/08/22
1,1-Dichloroethene	ND		ug/L	0.5	08/08/22	08/08/22
Methylene Chloride	ND		ug/L	2.0	08/08/22	08/08/22
trans-1,2-Dichloroethene	ND		ug/L	0.5	08/08/22	08/08/22
1,1-Dichloroethane	ND		ug/L	0.5	08/08/22	08/08/22
Chloroform	ND		ug/L	0.5	08/08/22	08/08/22
1,1,1-Trichloroethane	ND		ug/L	0.5	08/08/22	08/08/22
Carbon Tetrachloride	ND		ug/L	0.5	08/08/22	08/08/22
1,2-Dichloroethane	ND		ug/L	0.5	08/08/22	08/08/22
Benzene	ND		ug/L	0.5	08/08/22	08/08/22
Trichloroethene	ND		ug/L	0.5	08/08/22	08/08/22
1,2-Dichloropropane	ND		ug/L	0.5	08/08/22	08/08/22
Bromodichloromethane	ND		ug/L	0.5	08/08/22	08/08/22
cis-1,3-Dichloropropene	ND		ug/L	0.5	08/08/22	08/08/22
Toluene	ND		ug/L	0.5	08/08/22	08/08/22
trans-1,3-Dichloropropene	ND		ug/L	0.5	08/08/22	08/08/22
1,1,2-Trichloroethane	ND		ug/L	0.5	08/08/22	08/08/22
Tetrachloroethene	ND		ug/L	0.5	08/08/22	08/08/22
Dibromochloromethane	ND		ug/L	0.5	08/08/22	08/08/22
Chlorobenzene	ND		ug/L	0.5	08/08/22	08/08/22
Ethylbenzene	ND		ug/L	0.5	08/08/22	08/08/22
Styrene	ND		ug/L	0.5	08/08/22	08/08/22
Bromoform	ND		ug/L	0.5	08/08/22	08/08/22
1,1,2,2-Tetrachloroethane	ND		ug/L	0.5	08/08/22	08/08/22
1,3-Dichlorobenzene	ND		ug/L	0.5	08/08/22	08/08/22
1,4-Dichlorobenzene	ND		ug/L	0.5	08/08/22	08/08/22
1,2-Dichlorobenzene	ND		ug/L	0.5	08/08/22	08/08/22
<b>Surrogates</b>				<b>Limits</b>		
Dibromofluoromethane	103%		%REC	70-140	08/08/22	08/08/22
1,2-Dichloroethane-d4	101%		%REC	70-140	08/08/22	08/08/22
Toluene-d8	99%		%REC	70-140	08/08/22	08/08/22
Bromofluorobenzene	101%		%REC	70-140	08/08/22	08/08/22

## Batch QC

Type: Lab Control Sample	Lab ID: QC1005235	Batch: 294552
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1005235 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloromethane	38.81	50.00	ug/L	78%		65-130
Vinyl Chloride	42.63	50.00	ug/L	85%		70-130
Bromomethane	45.48	50.00	ug/L	91%	b	63-130
Chloroethane	43.95	50.00	ug/L	88%		61-130
1,1-Dichloroethene	43.82	50.00	ug/L	88%		70-135
Methylene Chloride	40.12	50.00	ug/L	80%		69-130
trans-1,2-Dichloroethene	44.19	50.00	ug/L	88%		70-130
1,1-Dichloroethane	44.30	50.00	ug/L	89%		70-130
Chloroform	44.27	50.00	ug/L	89%		70-130
1,1,1-Trichloroethane	42.99	50.00	ug/L	86%		70-130
Carbon Tetrachloride	42.91	50.00	ug/L	86%		70-130
1,2-Dichloroethane	42.97	50.00	ug/L	86%		70-130
Benzene	43.48	50.00	ug/L	87%		70-130
Trichloroethene	44.12	50.00	ug/L	88%		70-130
1,2-Dichloropropane	44.01	50.00	ug/L	88%		70-130
Bromodichloromethane	44.21	50.00	ug/L	88%		70-130
cis-1,3-Dichloropropene	38.10	50.00	ug/L	76%		70-130
Toluene	42.49	50.00	ug/L	85%		70-130
trans-1,3-Dichloropropene	38.54	50.00	ug/L	77%		70-130
1,1,2-Trichloroethane	43.21	50.00	ug/L	86%		70-130
Tetrachloroethene	43.16	50.00	ug/L	86%		63-130
Dibromochloromethane	37.08	50.00	ug/L	74%		70-130
Chlorobenzene	42.82	50.00	ug/L	86%		70-130
Ethylbenzene	44.04	50.00	ug/L	88%		70-130
Styrene	39.20	50.00	ug/L	78%		70-130
Bromoform	34.44	50.00	ug/L	69%	b,*	70-130
1,1,2,2-Tetrachloroethane	47.95	50.00	ug/L	96%		70-130
1,3-Dichlorobenzene	47.34	50.00	ug/L	95%		70-130
1,4-Dichlorobenzene	45.50	50.00	ug/L	91%		70-130
1,2-Dichlorobenzene	47.47	50.00	ug/L	95%		70-130
<b>Surrogates</b>						
Dibromofluoromethane	50.52	50.00	ug/L	101%		70-140
1,2-Dichloroethane-d4	46.40	50.00	ug/L	93%		70-140
Toluene-d8	50.74	50.00	ug/L	101%		70-140
Bromofluorobenzene	52.37	50.00	ug/L	105%		70-140

## Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1005236	Batch: 294552
Matrix: Water	Method: EPA 624.1	Prep Method: EPA 624.1

QC1005236 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Chloromethane	45.96	50.00	ug/L	92%		65-130	17	30
Vinyl Chloride	49.10	50.00	ug/L	98%		70-130	14	30
Bromomethane	55.61	50.00	ug/L	111%	b	63-130	20	30
Chloroethane	51.71	50.00	ug/L	103%		61-130	16	30
1,1-Dichloroethene	50.09	50.00	ug/L	100%		70-135	13	30
Methylene Chloride	47.64	50.00	ug/L	95%		69-130	17	30
trans-1,2-Dichloroethene	50.35	50.00	ug/L	101%		70-130	13	30
1,1-Dichloroethane	51.14	50.00	ug/L	102%		70-130	14	30
Chloroform	51.65	50.00	ug/L	103%		70-130	15	30
1,1,1-Trichloroethane	49.90	50.00	ug/L	100%		70-130	15	30
Carbon Tetrachloride	49.86	50.00	ug/L	100%		70-130	15	30
1,2-Dichloroethane	50.43	50.00	ug/L	101%		70-130	16	30
Benzene	50.45	50.00	ug/L	101%		70-130	15	30
Trichloroethene	50.36	50.00	ug/L	101%		70-130	13	30
1,2-Dichloropropane	51.01	50.00	ug/L	102%		70-130	15	30
Bromodichloromethane	51.52	50.00	ug/L	103%		70-130	15	30
cis-1,3-Dichloropropene	44.60	50.00	ug/L	89%		70-130	16	30
Toluene	48.61	50.00	ug/L	97%		70-130	13	30
trans-1,3-Dichloropropene	45.05	50.00	ug/L	90%		70-130	16	30
1,1,2-Trichloroethane	50.03	50.00	ug/L	100%		70-130	15	30
Tetrachloroethene	49.28	50.00	ug/L	99%		63-130	13	30
Dibromochloromethane	43.87	50.00	ug/L	88%		70-130	17	30
Chlorobenzene	49.16	50.00	ug/L	98%		70-130	14	30
Ethylbenzene	50.72	50.00	ug/L	101%		70-130	14	30
Styrene	45.35	50.00	ug/L	91%		70-130	15	30
Bromoform	41.71	50.00	ug/L	83%	b	70-130	19	30
1,1,2,2-Tetrachloroethane	52.52	50.00	ug/L	105%		70-130	9	30
1,3-Dichlorobenzene	49.97	50.00	ug/L	100%		70-130	5	30
1,4-Dichlorobenzene	47.87	50.00	ug/L	96%		70-130	5	30
1,2-Dichlorobenzene	50.59	50.00	ug/L	101%		70-130	6	30
<b>Surrogates</b>								
Dibromofluoromethane	50.68	50.00	ug/L	101%		70-140		
1,2-Dichloroethane-d4	50.74	50.00	ug/L	101%		70-140		
Toluene-d8	49.46	50.00	ug/L	99%		70-140		
Bromofluorobenzene	49.69	50.00	ug/L	99%		70-140		

\* Value is outside QC limits

ND Not Detected

b See narrative

Table D-1

## Operations Monitoring Data Summary - July 2022

### Acme Fill Corporation Leachate Treatment Plant

Table D-1 (continued)

## Operations Monitoring Data Summary - July 2022

Table D-1

**Operations Monitoring Data Summary - August 2022**  
**Acme Fill Corporation Leachate Treatment Plant**

Day	FLOW			INFLUENT			AERATION BASIN # 1					
	Influent GPD	Influent GPM	Effluent GPD	Effluent GPM	GPD Potable	NH <sub>3</sub> mg/L	TSS mg/L	DO mg/L	TSS mg/L	NO <sub>x</sub> mg/L	pH	60 min Settability
1	12,700	8.82	14,060	9.76	0	-	-	0.0	0	0	-	0
2	12,780	8.88	12,798	8.89	0	-	-	0.0	0	0	0.00	0
3	12,760	8.86	12,861	8.93	0	-	-	0.0	0.00	0	0.00	0
4	12,860	8.93	12,933	8.98	0	-	-	0.0	0	0	0.00	0
5	12,790	8.88	12,788	8.88	0	-	-	0.0	0	0	0.00	0
6	12,820	8.90	12,808	8.89	20	-	-	0.0	0.00	0	0.00	0
7	12,790	8.88	12,690	8.81	0	-	-	0.0	0.00	0	0.00	0
8	12,770	8.87	12,753	8.86	0	-	-	0.0	0	0	0.00	0
9	12,810	8.90	12,897	8.96	0	-	-	0.0	0	0	0.00	0
10	12,690	8.81	12,726	8.84	0	-	-	0.0	0	0	0.00	0
11	13,090	9.09	13,158	9.14	0	-	-	0.0	0	0	0.00	0
12	13,200	9.17	13,203	9.17	0	-	-	0.0	0	0	0.00	0
13	13,630	9.47	13,518	9.39	0	-	-	0.0	0	0	0.00	0
14	13,610	9.45	13,887	9.64	0	-	-	0.0	0	0	0.00	0
15	13,610	9.45	13,608	9.45	0	-	-	0.0	0.00	0	0.00	0
16	13,615	9.45	13,657	9.48	50	-	-	0.0	0	0	0.00	0
17	13,615	9.45	13,658	9.48	0	-	-	0.0	0	0	0.00	0
18	13,560	9.42	13,482	9.36	0	-	-	0.0	0	0	0.00	0
19	13,500	9.38	13,698	9.51	0	-	-	0.0	0	0	0.00	0
20	13,760	9.56	13,662	9.49	0	-	-	0.0	0	0	0.00	0
21	13,600	9.44	13,581	9.43	0	-	-	0.0	0	0	0.00	0
22	13,590	9.44	13,455	9.34	0	-	-	0.0	0	0	0.00	0
23	13,390	9.30	13,302	9.24	0	-	-	0.0	0.00	0	0.00	0
24	12,960	9.00	12,744	8.85	0	-	-	0.0	0	0	0.00	0
25	12,360	8.58	12,780	8.88	50	-	-	0.0	0.00	0	0.00	0
26	12,490	8.67	12,510	8.69	0	-	-	0.0	0.00	0	0.00	0
27	12,280	8.53	12,087	8.39	0	-	-	0.0	0.00	0	0.00	0
28	12,330	8.56	12,627	8.77	0	-	-	0.0	0.00	0	0.00	0
29	12,280	8.53	12,564	8.73	0	-	-	0.0	0.00	0	0.00	0
30	12,370	8.59	12,348	8.58	0	-	-	0.0	0.00	0	0.00	0
31	12,360	8.58	12,393	8.61	0	-	-	0.0	0.00	0	0.00	0
Avg.	12,999	9.03	13,072	9.08	4	0	0	0.00	0	0	0.00	0
Total	402,970				405,236							

Table D-1 (continued)

Operations Monitoring Data Summary - August 2022

AERATION BASIN # 2										RAS				EFFLUENT				EAST PARCEL		INVENTORY	
NH <sub>3</sub> mg/L	DO mg/L	TSS mg/L	NO <sub>3</sub> mg/L	NO <sub>2</sub> mg/L	pH	TSS mg/L	NH <sub>3</sub> mg/L	TURBIDITY	NO <sub>3</sub> mg/L	NO <sub>2</sub> mg/L	pH	GPD					Core TSS	Clarifier Solids (lbs)			
-	0.00	-	-	0	0.00	0	0.0	-	-	-	0.00	0	5.830	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.850	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.910	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.890	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.860	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.810	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.660	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	6.010	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.880	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	6.850	0	#VALUE!	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	4.880	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.850	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.820	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.930	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.850	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.890	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.860	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.890	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.870	0	0	0	0	0			
0.0	0.00	-	-	0	0.00	0	0.0	-	0.0	-	0.00	0	5.860	0	0	0	0	0			
0	0.00	0	0	0	0.00	0	0.0	0	0.0	0	0.00	0	5.866	0	0	0	2	2			

Table D-1

## Operations Monitoring Data Summary - September 2022

### Acme Fill Corporation Leachate Treatment Plant

Table D-1 (continued)

## **Operations Monitoring Data Summary - September 2022**

Table D-1 (continued)

## Operations Monitoring Data Summary - October 2022

### Acme Fill Corporation Leachate Treatment Plant

Table D-1

## Operations Monitoring Data Summary - November 2022

### Acme Fill Corporation Leachate Treatment Plant

Table D-1 (continued)

**Operations Monitoring Data Summary - November 2022**

**Acme Fill Corporation Leachate Treatment Plant**

NH <sub>3</sub>	DO	TSS	NO <sub>3</sub>	NO <sub>2</sub>	pH	Settledibility 60 min	RAS			EFFLUENT			EAST PARCEL		INVENTORY	
							TSS	NH <sub>3</sub>	TURBIDITY	NO <sub>3</sub>	NO <sub>2</sub>	pH	GPD	Clarifier TSS (lbs)	Total Solids (lbs)	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,380	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,380	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,420	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,400	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,400	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,400	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,660	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,400	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,400	0	
1.0	0.00	9,090	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,450	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	909		
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,370	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,400	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,410	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,410	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	6,410	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	8,280	0	
0.0	0.00	9,090	-	0	0.00	0	21,690	0.0	-	0	0.00	0	0.00	6,730	0	
0.0	0.00	-	-	0	0.00	0	15,580	0.0	-	0	0.00	0	0.00	6,910	0	
0.0	0.00	-	-	0	0.00	0	15,520	0.0	-	0	0.00	0	0.00	7,270	0	
0.0	0.00	-	-	0	0.00	0	13,590	0.0	-	0	0.00	0	0.00	7,260	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	7,190	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	7,140	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	7,150	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	8,470	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	5,830	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	7,140	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	7,150	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	5,170	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	4,270	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	4,270	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	4,380	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	4,850	0	
0.0	0.00	-	-	0	0.00	0	-	0.0	-	-	-	0	0.00	4,880	0	
0.0	0.00	568	0	0.00	0.00	0	2,793	0.0	0	0	0.00	0	0.00	6,468	0	
														194,050		

Table D-1

## Operations Monitoring Data Summary - December 2022

### Acme Fill Corporation Leachate Treatment Plant

Table D-1 (continued)

Operations Monitoring Data Summary - December 2022

Acme Fill Corporation Leachate Treatment Plant