



air pollution control district
SANTA BARBARA COUNTY

General Permit Application Form -01

Santa Barbara County Air Pollution Control District
260 N. San Antonio Road, Suite A
Santa Barbara, CA 93110-1315

1. APPLICATION TYPE (check all that apply):

- ☐ Authority to Construct (ATC) ☐ Transfer of Owner/Operator (use Form -01T)
☐ Permit to Operate (PTO) ☐ Emission Reduction Credits
☐ ATC Modification ☐ Increase in Production Rate or Throughput
☐ PTO Modification ☐ Decrease in Production Rate or Throughput
☒ Other (Specify) Change of Responsible Official

Previous ATC/PTO Number (if known) 14708

- ☐ Yes ☐ No Are Title 5 Minor Modification Forms Attached? (this applies to Title 5 sources only and applies to all application types except ATCs and Emission Reduction Credits). Complete Title 5 Form -1302 A1/A2, B, and M. Complete Title 5 Form -1302 C1/C2, D1/D2, E1/E2, F1/F2, G1/G2 as appropriate. <http://www.ourair.org/wp-content/uploads/t5-forms.pdf>

Mail or email the completed application to the APCD's Engineering Division at the address listed above or permits@sbcapcd.org.

2. FILING FEE:

A \$420 application filing fee must be included with each application. The application filing fee is COLA-adjusted every July 1st. Please ensure you are remitting the correct current fee (the current fee schedule is available on the APCD's webpage at: <http://www.ourair.org/district-fees>). This filing fee will not be refunded or applied to any subsequent application. Payment may also be made by credit card by submitting the Credit Card Authorization Form found here <https://www.ourair.org/wp-content/uploads/apcd-01c.pdf> via mail or calling 805-961-8823 to pay via phone.

Do not submit the Credit Card Authorization Form via email.

- 3. IS YOUR PROJECT'S PROPERTY BOUNDARY LOCATED OR PROPOSED TO BE LOCATED WITHIN 1,000 FEET FROM THE OUTER BOUNDARY OF A SCHOOL?** If yes, and the project results in an emissions increase, submit a completed Form -03 (School Summary Form) <http://www.ourair.org/wp-content/uploads/apcd-03.pdf> ☐ Yes ☐ No

If yes, provide the name of school(s)

Address of school(s)

City

Zip Code

- 4. DOES YOUR APPLICATION CONTAIN CONFIDENTIAL INFORMATION?** ☐ Yes ☐ No

If yes, please submit with a redacted duplicate application which shall be a public document. In order to be protected from disclosure to the public, all information claimed as confidential shall be submitted in accordance with APCD Policy & Procedure 6100-020 (Handling of Confidential Information): <http://www.ourair.org/wp-content/uploads/6100-020.pdf>, and meet the criteria of CA Govt Code Sec 6254.7. Failure to follow required procedures for submitting confidential information, or to declare it as confidential at the time of application, shall be deemed a waiver by the applicant of the right to protect such information from public disclosure. *Note: Part 70 permit applications may contain confidential information in accordance with the above procedures, however, the content of the permit documents must be public (no redactions).*

FOR APCD USE ONLY				DATE STAMP SBCAPCD
FID	8774	Permit No.	PT-70/Reeval 14708-R1	
Project Name	Lompoc Sanitary Landfill			
Filing Fee	\$420.00	202.E? YES / NO		

CC Form 7758 Keith Qinlan

5. COMPANY/CONTACT INFORMATION:

Owner Info		☐ Yes ☐ No	Use as Billing Contact?
Company Name	City of Lompoc		
Doing Business As			
Contact Name	Charles (C.J.) Berry	Position/Title	Utility Director
Mailing Address	100 Civic Center Plaza		
City	Lompoc	State	CA Zip Code 93436
Telephone	805-875-8299	Cell	
Email	C_berry@ci.lompoc.ca.us		

Operator Info		☐ Yes ☐ No	Use as Billing Contact?
Company Name	City of Lompoc Landfill		
Doing Business As			
Contact Name	Keith Quinlan	Position/Title	Solid Waste Superintendent
Mailing Address	1300 W Laurel Ave		
City	Lompoc	State	CA Zip Code 93436
Telephone	805-875-8023	Cell	
Email	k_quinlan@ci.lompoc.ca.us		

Authorized Agent Info*		☐ Yes ☐ No	Use as Billing Contact?
Company Name			
Doing Business As			
Contact Name		Position/Title	
Mailing Address			
City		State	
Zip Code			
Telephone		Cell	
Email			

*Use this section if the application is not submitted by the owner/operator. Complete APCD Form -01A (<http://www.ourair.org/wp-content/uploads/apcd-01a.pdf>). Owner/Operator information above is still required.

SEND PERMITTING CORRESPONDENCE TO (check all that apply):	
☒ Owner	☒ Operator
☒ Authorized Agent	☐ Other (attach mailing information)

6. GENERAL NATURE OF BUSINESS OR AGENCY:

Landfill

7. EQUIPMENT LOCATION (Address):

Specify the street address of the proposed or actual equipment location. If the location does not have a designated address, please specify the location by cross streets, or lease name, UTM coordinates, or township, range, and section.

Equipment Address	700 Avalon Street		
City	Lompoc	State	CA
		Zip Code	93436
Work Site Phone	8058758023		

☒ Incorporated (within city limits) ☐ Unincorporated (outside city limits) ☐ Used at Various Locations

Assessors Parcel No(s):

8. PROJECT DESCRIPTION:

(Describe the equipment to be constructed, modified and/or operated or the desired change in the existing permit. Attach a separate page if needed):

9. DO YOU REQUIRE A LAND USE PERMIT OR OTHER LEAD AGENCY PERMIT FOR THE PROJECT DESCRIBED IN THIS APPLICATION?: ☐ Yes ☒ No

A. If yes, please provide the following information

Agency Name	Permit #	Phone #	Permit Date

* The lead agency is the public agency that has the principal discretionary authority to approve a project. The lead agency is responsible for determining whether the project will have a significant effect on the environment and determines what environmental review and environmental document will be necessary. The lead agency will normally be a city or county planning agency or similar, rather than the Air Pollution Control District.

B. If yes, has the lead agency permit application been deemed complete and is a copy of their completeness letter attached?

☐ Yes ☐ No

Please note that the APCD will not deem your application complete until the lead agency application is deemed complete.

C. If the lead agency permit application has not been deemed complete, please explain.

D. A copy of the final lead agency permit or other discretionary approval by the lead agency may be requested by the APCD as part of our completeness review process.

10. PROJECT STATUS:

A. Date of Equipment Installation

B. Have you been issued a Notice of Violation (NOV) for not obtaining a permit for this equipment/modification *and/or* have you installed this equipment without the required APCD permit(s)?
If yes, the application filing is double per Rule 210.

☐ Yes ☐ No

C. Is this application being submitted due to the loss of a Rule 202 exemption?

☐ Yes ☐ No

D. Will this project be constructed in multiple phases? If yes, attach a separate description of the nature and extent of each project phase, including the associated timing, equipment and emissions.

☐ Yes ☐ No

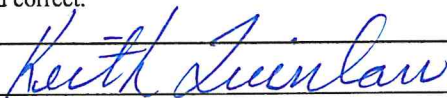
E. Is this application also for a change of owner/operator? If yes, please also include a completed APCD Form -01T.

☐ Yes ☐ No

11. APPLICANT/PREPARER STATEMENT:

The person who prepares the application also must sign the permit application. The preparer may be an employee of the owner/operator or an authorized agent (contractor/consultant) working on behalf of the owner/operator (an *Authorized Agent Form -01A* is required).

I certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct.


Signature of application preparer

02/22/21

Date

Keith Quinlan
Print name of application preparer

City of Lompoc
Employer name

12. APPLICATION CHECKLIST (check all that apply)

- ☐ Application Filing Fee (Fee = \$420. The application filing fee is COLA adjusted every July 1st. Please ensure you are remitting the current fee.) As a convenience to applicants, the APCD will accept credit card payments. If you wish to use this payment option, please complete a *Credit Card Form-01C* <https://www.ourair.org/wp-content/uploads/apcd-01c.pdf> and submit it via mail or call 805-961-8823 to pay over the phone. **Do not submit the Credit Card Form-01C via email.**
- ☐ Existing permitted sources may request that the filing fee be deducted from their current reimbursable deposits by checking this box. Please deduct the filing fee from my existing reimbursement account.
- ☐ Form -01T (*Transfer of Owner/Operator*) attached if this application also addresses a change in owner and/or operator status from what is listed on the current permit. <http://www.ourair.org/wp-content/uploads/apcd-01t.pdf>
- ☐ Form -03 (*School Summary Form*) attached if the project's property boundary is within 1,000 feet of the outer boundary of a school (k-12) and the project results in an emissions increase. <http://www.ourair.org/wp-content/uploads/apcd-03.pdf>
- ☐ Information required by the APCD for processing the application as identified in APCD Rule 204 (*Applications*), the APCD's *General APCD Information Requirements List* (<https://www.ourair.org/wp-content/uploads/gen-info.pdf>), and any of the APCD's Process/Equipment Summary Forms (<http://www.ourair.org/permit-applications>) that apply to the project.
- ☐ Form -01A (*Authorized Agent Form*) attached if this application was prepared by and/or if correspondence is requested to be sent to an Authorized Agent (e.g., contractor or consultant). This form must accompany each application. <http://www.ourair.org/wp-content/uploads/apcd-01a.pdf>
- ☐ Confidential Information submitted according to APCD Policy & Procedure 6100-020. (*Failure to follow Policy and Procedure 6100-020 is a waiver of right to claim information as confidential.*)

13. NOTICE OF CERTIFICATION:

All applicants must complete the following Notice of Certification. This certification must be signed by the Authorized Company Representative representing the owner/operator. Signatures by Authorized Agents will not be accepted.

NOTICE of CERTIFICATION

I, Charles (C.J.) Berry, am employed by or represent
Type or Print Name of Authorized Company Representative

City of Lompoc

Type or Print Name of Business, Corporation, Company, Individual, or Agency

(hereinafter referred to as the applicant), and certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct and the equipment listed herein complies or can be expected to comply with said rules and regulations when operated in the manner and under the circumstances proposed. If the project fees are required to be funded by the cost reimbursement basis, as the responsible person, I agree that I will pay the Santa Barbara County Air Pollution Control District the actual recorded cost, plus administrative cost, incurred by the APCD in the processing of the application within 30 days of the billing date. If I withdraw my application, I further understand that I shall inform the APCD in writing and I will be charged for all costs incurred through closure of the APCD files on the project.

For applications submitted for Authority to Construct, modifications to existing Authority to Construct, and Authority to Construct/Permit to Operate permits, I hereby certify that all major stationary sources in the state and all stationary sources in the air basin which are owned or operated by the applicant, or by an entity controlling, controlled by, or under common control with the applicant, are in compliance, or are on approved schedule for compliance with all applicable emission limitations and standards under the Clean Air Act (42 USC 7401 *et seq.*) and all applicable emission limitations and standards which are part of the State Implementation Plan approved by the Environmental Protection Agency.

Completed By: Keith Quinlan

Title: Solid Waste Superintendent

Date: 02-22-21

Phone: 805-875-8023

Signature of Authorized Company Representative

Charles J. Berry

**PLEASE NOTE THAT FAILURE TO COMPLETELY PROVIDE ALL REQUIRED INFORMATION OR FEES WILL
RESULT IN YOUR APPLICATION BEING RETURNED OR DEEMED INCOMPLETE.**

STATIONARY SOURCE SUMMARY (Form 1302-A1)

APCD: Santa Barbara County Air Pollution Control District

COMPANY NAME: CITY OF LOMPOC, LOMPOC LANDFILL

➤ APCD USE ONLY ◀

Application #:

Application Filing Fee*:

APCD IDS Processing ID:

Date Application Received:

Date Application Deemed Complete:

I. SOURCE IDENTIFICATION

1. Source Name: CITY OF LOMPOC, LOMPOC LANDFILL
2. Four digit SIC Code: USEPA AIRS Plant ID (for APCD use only):
3. Parent Company (if different than Source Name):
4. Mailing Address of Responsible Official:
5. Street Address of Source Location (include Zip Code):
6. UTM Coordinates (if required) (see instructions):
7. Source located within: 50 miles of the state line ☐ Yes ☐ No
50 miles of a Native American Nation ☐ Yes ☐ No ☐ Not Applicable
8. Type of Organization: ☐ Corporation ☐ Sole Ownership ☐ Government
☐ Partnership ☐ Utility Company
9. Legal Owner's Name: CITY OF LOMPOC
10. Owner's Agent Name (if any): Title: Telephone #:
11. Responsible Official: CHARLES (C.J.) BERRY Title: UTILITY DIRECTOR Telephone #: 805-875-8299
12. Plant Site Manager/Contact: KEITH QUINLAN Title: SOLID WASTE SUPERINTENDENT Telephone #: 805-875-8023
13. Type of facility: LANDFILL
14. General description of processes/products:

15. Does your facility store, or otherwise handle, greater than threshold quantities of any substance on the Section 112(r) List of Substances and their Thresholds (see Attachment A)? ☐ Yes ☒ No

16. Is a Federal Risk Management Plan [pursuant to Section 112(r)] required? ☐ Not Applicable ☐ Yes ☒ No
(If yes, attach verification that Risk Management Plan is registered with appropriate agency or description of status of Risk Management Plan submittal.)

* Applications submitted without a filing fee will be returned to the applicant immediately as "improper" submittals

STATIONARY SOURCE SUMMARY (Form 1302-A2)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS Processing ID:
COMPANY NAME: CITY OF LOMPOC, LOMPOC LANDFILL	SOURCE NAME: LOMPOC LANDFILL

II. TYPE OF PERMIT ACTION

	CURRENT PERMIT (permit number)	EXPIRATION (date)
Initial SBCAPCD's Regulation XIII Application		
Permit Renewal	14708	6/1/21
Significant Permit Revision*	N/A	
Minor Permit Revision*	N/A	
Administrative Amendment	✓	

III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:

a: ☐ Portable Source
☐ Acid Rain Source
☐ Source Subject to MACT Requirements [Section 112]

☐ Voluntary Emissions Caps
☐ Alternative Operating Scenarios

b: ☒ None of the options in 1.a. are applicable

2. Is source operating under a Title V Program Compliance Schedule? ☐ Yes ☒ No

3. For permit modifications, provide a general description of the proposed permit modification:

Responsible Official (Name Change)

*Requires APCD-approved NSR permit prior to a permit revision submittal



Part 70 Operating Permit 14708 Renewal Application

City of Lompoc Landfill

Submitted to:

Aeron Arlin Genet

Air Pollution Control Officer
Santa Barbara County Air Pollution Control District
260 North San Antonio Road, Suite A
Santa Barbara, CA 93110

Submitted by:

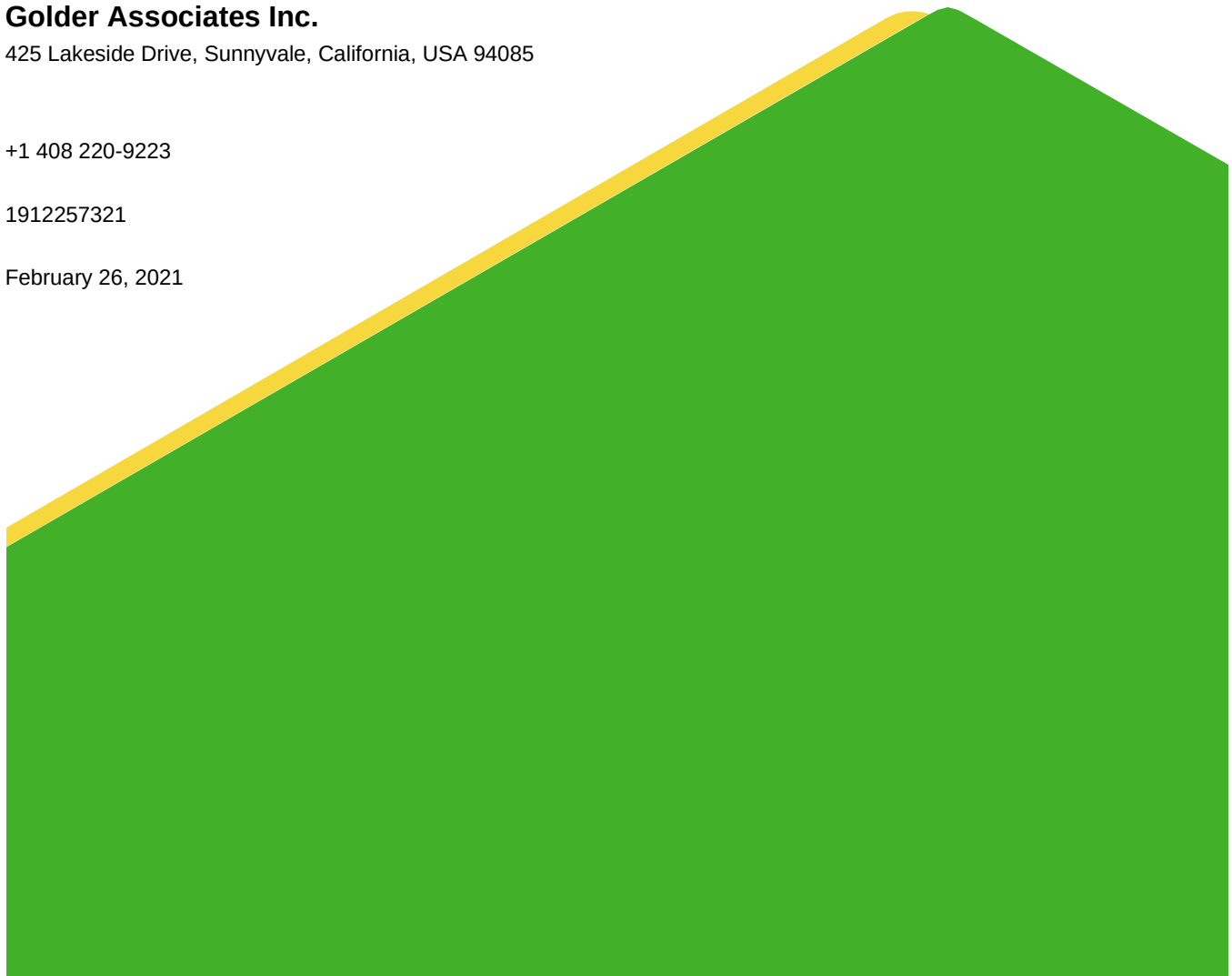
Golder Associates Inc.

425 Lakeside Drive, Sunnyvale, California, USA 94085

+1 408 220-9223

1912257321

February 26, 2021



Distribution List

Mr. Keith Quinlan, City of Lompoc

EPA Region IX

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1.0 INTRODUCTION

The City of Lompoc operates the Lompoc Sanitary Landfill in accordance with Part 70 Operating Permit 14708 issued by the Santa Barbara County Air Pollution Control District. The facility's SWIS ID Number is 42-AA-0017. The landfill is active and is located at the South End of Avalon Street, Lompoc, California 93436. The Permit expires on August 31, 2021 and a renewal application is due no later than February 28, 2021. Attached with this cover letter is the renewal application for the Permit. Required SBCAPCD forms are presented in Appendix A.

1.1 Process Description

The permitted name of the landfill is Lompoc Sanitary Landfill. The stationary source identification number is 8772. There is only one facility identification number and it is 8774. The device identification numbers for the facility are presented in Table 1.

Table 1: Device Identification Numbers

Device	Device Identification Number
Municipal Solid Waste Landfill	114827
Landfill Gas Collection Wells	390237
Landfill Gas Piping System	390241
Landfill Gas Blowers	390238
Condensate Knockout	390240
Enclosed Flare	390236
Waste Grinder Engine	114674
Solvent Usage (exempt)	114829
Used Oil Tanks (2) (exempt)	114828
Propane Tanks (2) (exempt)	390242
Water Storage Tank (exempt)	393005

The facility is located at the south end of Avalon Street in Lompoc, California. The physical address is 700 S. Avalon Street, Lompoc, California 93436. The most recent topographic map is presented in Appendix B.

1.2 Stationary Source Operations

The Lompoc Sanitary Landfill is a canyon-type municipal solid waste landfill that commenced operations in 1961. The facility covers 115.4 acres and the waste disposal footprint is 39 acres. As of January 1, 2019, the mass of the waste-in-place at the landfill is 2,314,993 tons. The maximum elevation of the site is 460 feet above the landfill and the maximum depth below grade surface is 90 feet. The design capacity of the landfill is 6.1 million cubic meters. The estimated closure date for the landfill is 2045.

The Lompoc Sanitary Landfill receives approximately 107 tons per day based upon the mass of waste received in 2018. The landfill operates under a Solid Waste Facility Permit issued by the Santa Barbara County Public Health Department Environmental Health Service Division, which allows the landfill to accept up to 400 tons per day of municipal waste and receive up to 6,000 vehicles per month. The facility includes various areas for recyclable waste including electronic waste. The landfill operations consist of a fill and cover with either clean soil or an alternative daily cover (ADC). Alternatives to clean soil include ground wood and green waste, ground construction and demolition materials and tarps. Cover materials are applied at the end of each day to control vectors, fires, odors, blowing litter and scavenging.

Waste is accepted and covered as previously described. Landfill gas (LFG) is produced by the anaerobic digestion of organic waste in the material deposited. Landfill gas is comprised largely of methane and carbon dioxide (CO₂) with smaller amounts of non-methane organic compounds (NMOC). Some NMOCs are also toxic air contaminants.

The LFG is collected through a series of pipes and wells with perforations and routed using blowers to an enclosed landfill gas flare. The collection system is estimated to collect 75 percent of the LFG generated through anaerobic digestion. The remaining 25 percent escapes from the landfill as fugitive emissions.

The flare destroys at least 98 percent of NMOCs and converts methane to CO₂. The flare must operate whenever LFG is being routed to it. The flare temperature is maintained at a high enough level to control the landfill gas emissions in accordance with the requirement for 98 percent destruction.

Green waste is also processed at the landfill. Wood and green waste brought in by self-haul customers is processed on site and used as ADC. Source separated green or wood waste material is diverted to a recycling area where the material is off-loaded by the customer. A portable grinder powered by a 630 bhp engine is used to grind the wood or green waste. The ground wood or green waste is also used as ADC.

The facility has designated areas for recycling metal and appliances, cardboard, tires, electronic waste, used oil and oil filters, concrete and topsoil.

Condensate is a liquid that is formed when the warm, moist landfill gas is transported through the collection system to the enclosed flare. The condensate is collected and periodically injected into the flare where it is converted in the combustion chamber into steam and any NMOCs that might be present are destroyed.

The site is accessed by a paved road. The site haul roads and dumping aprons are watered to maintain dust control. Ground roadway material is used in the winter to control dust in the pad area. The material is received at no charge at the landfill and spread out over the area and compacted. Nothing is added and no additional processing of the material is performed.

2.0 CURRENT TITLE V STATUS

Part 70 permits are required for sources with an applicable New Source Performance Standard. In 1997, the City of Lompoc submitted an initial design capacity report to SBCAPCD. Based on this filing, the design capacity of the landfill as 2.3 million tons (2.1 million Megagrams [Mg]). At that time, the facility was determined to be exempt from Subpart WWW requirements based on the reported design capacity. In 2012, the City of Lompoc submitted a revised design capacity report which increased the design capacity of the landfill to 6.1 million cubic meters (m³). Based on the revised landfill capacity, Lompoc Sanitary Landfill was required to comply with certain requirements of Subpart WWW. However, since the calculated landfill non-methane organic compounds (NMOC) emissions were below the Subpart WWW threshold of 55.1 TPY (50 Mg/yr), an LFG collection and control system was not required at that time.

The City of Lompoc submitted a *Landfill Gas Collection and Control System Plan* on September 7, 2012 to comply with the California Air Resources Board (CARB) California Regulation for Methane Emissions from Municipal Solid Waste Landfills. This regulation is applicable to all municipal solid waste landfills that received MSW after January 1, 1977 unless the landfill was currently closed or inactive with less than 450,00 tons of waste-in-place. When the plan was submitted, Lompoc Sanitary Landfill had more than 450,000 tons of waste-in-place and was receiving waste. Therefore, this regulation was applicable. The *Landfill Gas Collection and Control System Plan* was approved by the District on January 9, 2015. As part of the new regulation, Lompoc Sanitary Landfill was required to install a landfill gas collection and control system by July 9, 2016. Additional Subpart WWW requirements became applicable with the installation of the landfill gas collection and control system.

The Lompoc Sanitary Landfill is required to obtain and maintain a Title V permit because 40 CFR 60, Subpart WWW, a New Source Performance Standard is applicable to the landfill. The forms required by SBCAPCD are attached to this letter. No changes in operations or emission increases are requested with this renewal. The completed the forms reflect the current emission limitations and requirements of the Part 70 Permit to Operate 14708.

3.0 INSIGNIFICANT ACTIVITIES

Form 1302-H attached in Appendix A with this cover letter summarizes insignificant activities at the Facility. These activities are approved in the current Permit. This renewal application does not request any change to the existing insignificant activities.

4.0 REQUESTED CHANGES IN THE PERMIT

The City of Lompoc is requesting additional language regarding the enclosed landfill gas flare. The City of Lompoc requests that permit condition 9.C.3.b.v be changed to read as follows:

“The enclosed flare shall be operated within the parameter ranges established during the most recent source test. Except for startup and shutdown periods, the enclosed flare combustion temperature shall not operate less than 28 °C below the average combustion temperature during the most recent source test for any three-hour block monitoring period when condensate is not being injected. During condensate injection the combustion temperature must be maintained above 1,421 °F.”

In the most recent source test conducted for the enclosed flare, the required NMOC destruction efficiency of 98% was demonstrated at this temperature. Therefore, the lower temperature will not result in any excess or additional emissions from the control device.

5.0 NEWLY APPLICABLE REQUIREMENTS

There were no new requirements that were promulgated after the Permit was issued that became applicable to any emission unit at the Facility.

6.0 CLOSING

The City of Lompoc respectfully submits this Part 70 permit renewal application package to SBCAPCD. If there are questions, please contact Keith Quinlan at k_quinlan@ci.lompoc.ca.us or Carrie MacDougall at cmacdougall@golder.com.

Signature Page

Golder Associates Inc.



Carrie MacDougall
Air Quality Practice Leader

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c:\users\cmacdougall\documents\lompoc title v renewal 20210225_signed.docx

APPENDIX A

Application Forms

STATIONARY SOURCE SUMMARY (Form 1302-A1)

APCD: Santa Barbara County Air Pollution Control District

COMPANY NAME: City of Lompoc

➤ APCD USE ONLY ◀

APCD IDS Processing ID:

Application #:

Date Application Received:

Application Filing Fee*:

Date Application Deemed Complete:

I. SOURCE IDENTIFICATION

1. Source Name: Lompoc Sanitary Landfill
2. Four digit SIC Code: 4953 USEPA AIRS Plant ID (for APCD use only):
3. Parent Company (if different than Source Name): City of Lompoc
4. Mailing Address of Responsible Official: 100 Civic Center Plaza, Lompoc, CA, 93436
5. Street Address of Source Location (include Zip Code): South End of Avalon St. Lompoc, CA 93436
6. UTM Coordinates (if required) (see instructions):
7. Source located within: 50 miles of the state line ☐ Yes ☒ No
50 miles of a Native American Nation ☐ Yes ☒ No ☐ Not Applicable
8. Type of Organization: ☐ Corporation ☐ Sole Ownership ☒ Government
☐ Partnership ☐ Utility Company
9. Legal Owner's Name: City of Lompoc
10. Owner's Agent Name (if any): Carrie MacDougall Title: Air Quality Practice Leader Telephone #: 702-499-2880
11. Responsible Official: Charles (C.J.) Berry Title: Utility Director Telephone #: 805-875-8299
12. Plant Site Manager/Contact: Keith Quinlan Title: Solid Waste Superintendent Telephone #: 805-875-8023
13. Type of facility: Sanitary Landfill
14. General description of processes/products: Landfill and Recycling Activities
15. Does your facility store, or otherwise handle, greater than threshold quantities of any substance on the Section 112(r) List of Substances and their Thresholds (see Attachment A)? ☐ Yes ☒ No
16. Is a Federal Risk Management Plan [pursuant to Section 112(r)] required? ☐ Not Applicable ☐ Yes ☒ No
(If yes, attach verification that Risk Management Plan is registered with appropriate agency or description of status of Risk Management Plan submittal.)

* Applications submitted without a filing fee will be returned to the applicant immediately as "improper" submittals

STATIONARY SOURCE SUMMARY (Form 1302-A2)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

II. TYPE OF PERMIT ACTION

	CURRENT PERMIT (permit number)	EXPIRATION (date)
Initial SBCAPCD's Regulation XIII Application		
X Permit Renewal	PT-70 14708	August, 2021
Significant Permit Revision*		
Minor Permit Revision*		
Administrative Amendment		

III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:

a: ☐ Portable Source
 ☐ Acid Rain Source
 ☐ Source Subject to MACT Requirements [Section 112]

☐ Voluntary Emissions Caps
☐ Alternative Operating Scenarios

b: ☒ None of the options in 1.a. are applicable

2. Is source operating under a Title V Program Compliance Schedule? ☐ Yes ☒ No

3. For permit modifications, provide a general description of the proposed permit modification:

The City of Lompoc requests that permit condition 9.C.3.b.v be changed to read as follows:
 "The enclosed flare shall be operated within the parameter ranges established during the most recent source test. Except for startup and shutdown periods, the enclosed flare combustion temperature shall not operate less than 28 °C below the average combustion temperature during the most recent source test for any three-hour block monitoring period when condensate is not being injected. During condensate injection the combustion temperature must be maintained above 1,421 degrees Fahrenheit. [Ref: ATC 14708; 40 CFR Subpart WWW §60.758(c)(1)(i); CCR Subchapter 10, Article 4, Subarticle 6 §95470(a)(1)(K)1]

*Requires APCD-approved NSR permit prior to a permit revision submittal

TOTAL STATIONARY SOURCE EMISSIONS (Form 1302-B)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. TOTAL STATIONARY SOURCE EMISSIONS

Provide a brief description of operating scenario: Municipal solid waste is disposed in the landfill. Maximum landfill gas (LFG) generation is 400 scfm, including methane and NMOC. Landfill gas emissions are collected and combusted in an enclosed flare. One diesel-fired engine is used to grind green waste and is limited to operating up to 8 hours per workday.

POLLUTANT * (name)	EMISSIONS (tons per year)	PRE-MODIFICATION EMISSIONS (tons per year)	EMISSIONS CHANGE (tons per year)
NOx	4.71		
CO	12.79		
ROC	2.77		
PM	1.07		
SO2	4.41		
HAP	19.0		
Formaldehyde	1.63		
Naphthalene	3.36		
Toluene	10.4		
Acetaldehyde			
Acetonitrile			

* Emissions for all pollutants for which the source is major and for all NSPS/MACT-regulated air pollutants must be reported. HAP emissions must be determined, and those exceeding one ton per year from any emission unit category must also be quantified; if less than one ton per year, just list the HAPs emitted by name.

City of Lompoc Landfill Title V Emissions

Total Stationary Source Emissions Form 1302-B

Continued

Hazardous Air Pollutant	CAS No.
1,1,1-Trichloroethane (methyl chloroform)	71556
1,1,2,2-Tetrachloroethane	79345
1,1-Dichloroethane (ethylidene dichloride)	75343
1,1-Dichloroethene (vinylidene chloride)	75354
1,1,2-Trichloroethane	79005
1,2-Dichloroethane (ethylene dichloride)	107062
1,2-Dichloropropane (propylene dichloride)	78875
1,3-Butadiene	106990
1,3-Dichloropropene	542756
2-Methylnaphthalene	91576
2,2,4-Trimethylpentane	540841
Acrolein	107028
Acrylonitrile	107131
Arsenic	-
Acenaphthene	83329
Acenaphthylene	208968
Benzene	71432
Benzo(b)fluoranthene	205992
Benzo(e)pyrene	192972
Benzyl Chloride	100447
Biphenyl	92524
Benzyl Chloride	100447
Bromomethane	74839
Cadmium	-
Carbon disulfide	75150
Carbon tetrachloride	56235
Carbonyl sulfide	463581
Chlorobenzene	108907
Chlorodifluoromethane	75456
Chloroethane (ethyl chloride)	75003
Chloroform	67663
Chloromethane	74873
Chromium	-
Chrysene	218019
Dichlorobenzene	25321226
Dichloromethane (methylene chloride)	75092
1,4-Dioxane	123911
Ethyl benzene	100414
Ethylene dibromide	106934
Fluoranthene	206440
Fluorene	86737
Hexachlorobutadiene	87683
Hexane (n)	110543
Isopropylbenzene	98828
Lead	-
Manganese	-
Mercury	-
Methanol	67561
Methyl ethyl ketone	78933
Methyl isobutyl ketone	108101
Methyl tert butyl ether	1634044
Methylene Chloride	75092
Nickel	-
PAH	-
Phenanthrene	85018
Phenol	108952
Perchloroethylene (tetrachloroethylene)	127184
Propylene oxide	75569

Pyrene	129000
Selenium	-
Tetrachloroethylene	127184
Styrene	100425
Tetrachloroethylene	127184
Tribromomethane	75252
1,2,4 - Trichlorobenzene	120821
Trichloroethylene (trichloroethene)	76016
Vinyl Acetate	108054
Vinyl chloride	75014
Xylenes (mixed)	1330207
Hydrogen Chloride	7647010
Hydrogen Fluoride	73602616
Hydrogen Sulfide	7783064

Lompoc Sanitary Landfill - PT-70 14708
Landfill Fugitive Potential to Emit

Date Landfill Opened 1961
 Current Year 2018

Uncontrolled Landfill Fugitive Emission Formula per AP-42

$$M_{\text{NMOC}} = 2L_0R(e^{-kc} - e^{-kt})(C_{\text{NMOC}})(3.6 \times 10^{-9})$$

Name	Variable	Value	Units
Refuse methane generation potential ²	L _o	100	m ³ /Mg
Average annual acceptance (as of December 31, 2017) ³	R	35,589.73	Mg/yr
Methane generation constant ²	k	0.02	1/yr
Years since closure	c	0	yrs
Age of landfill	t	57	yrs
Concentration of NMOC ⁴	C _{NMOC}	13.1	ppmv (as hexane)
Conversion factor	--	3.60E-09	--

Uncontrolled NMOC Emissions, Mg/yr	0.23	Mg NMOC/yr
Uncontrolled NMOC Emissions, tons/yr	0.25	tons NMOC/year
Amount of NMOC Collected, tons/yr ⁵	0.15	tons NMOC/year
Fugitive NMOC Emissions to Atmosphere, tons/yr	0.10	tons NMOC/year
Fugitive ROC ⁶ Emissions to Atmosphere, tons/yr	0.09	tons ROC/year
Fugitive ROC Emissions to Atmosphere, lb/day	0.52	lb ROC/day

Notes:

1. Mass Conversion from Mg to ton= 1.1024
2. Reference: AP-42 Section 2.4 for Municipal Solid Waste Landfills (October 2008)
3. Calculated using current waste in place and age of landfill from 2017 annual report.
4. Reference: City of Lompoc and Golder Associates: 2015 Tier 2 NMOC Generation Rate Report.
5. See Table 5.2-2 for calculation.
6. ROC/NMOC = 0.93 (ref: SBCAPCD Rule 341, Staff Report September 18, 1997)

Lompoc Sanitary Landfill - PT-70 14708
Captured Landfill Gas

Month	Gas Collected (scf) ¹
July	4,392,148
August	8,729,045
September	8,446,117
October	8,618,631
November	8,392,631
December	8,792,776
Total	47,371,348
Daily Average ²	277,025

Conversion and Captured Gas Calculation

277,025	scf/day of captured landfill gas
7,844	m ³ /day of captured landfill gas ³
0.10	m ³ /day of captured NMOC ⁴
0.37	kg/day of captured NMOC ⁵
0.14	Mg/year of captured NMOC
0.15	TPY of captured NMOC ⁶

Notes:

1. Monthly gas collected volumes are from 2017 annual report.
Note that operations began on July 14, 2017.
2. Days in reporting period is 171 days.
3. 1 m³ is equal to 35.3147 cubic feet
4. NMOC concentration based on City of Lompoc and Golder Associates: 2015 Tier 2 NMOC Generation Rate Report.
5. 1 kg NMOC is equal to 0.2749304 m³ NMOC (see the administrative file of this permit for calculations)
6. 1 Mg is equal to 1.1024 tons.

Convert NMOC m ³ to kg
379.62 scf/lbmol
0.30 m/ft
86.20 lb/lb-mol
0.45 kg/lb
0.274930 m³/kg NMOC

Lompoc Sanitary Landfill – PT-70 14708
Combustion Equipment Information

No.	Make/Model	Device ID	Flare Use	Specifications			Operating Limitations			Fuel Properties			
				Burner Type	Fuel Type	Unit Rating (MMBtu/hr)	Fuel Flow Rate (scf/hr)	On-Line		Heat Input Limit per year	HHV ¹ (Btu/scf)	Total Sulfur ² (ppmv)	
								hr/day	hr/year				
1	LFG Specialties EF62516	390236	LFG Combustion	Gas	LFG	12,010	21,562	24	8,760	288,240	105,207,600	557	260

No.	Make/Model	Device ID	Engine Use	Horsepower Rating	Operating Limitations	
					hr/day	hr/year
2	Caterpillar C18	114674	Waste Grinder	630	8	1,000

Notes:

- 1. 557 Btu/scf is a representative heating value, the actual heat value of the gas varies throughout the year.
- 2. The 260 ppmv total sulfur value represents a worst case value.

Lompoc Sanitary Landfill - PT-70 14708
Combustion Equipment Emission Factors

No.	NO _x	ROC	CO	SO _x	PM	PM ₁₀	PM _{2.5}	Units	References
1	0.060	0.048	0.200	0.084	0.020	0.020	0.020	lb/MMBtu	NO _x and CO are manufacturer's guaranteed values. ROC is a calculated value based on 20 ppmv (as hexane) and the formula in Note 1 below. SO _x is a calculated value based on sulfur content and higher heating value of the LFG. PM, PM ₁₀ , and PM _{2.5} factors are based on District default values for flares.
	47	20	256	--	--	--	--	ppmvd @ 3% O ₂	NO _x and CO are calculated based on the lb/MMBtu values above and the formula in Note 1. ROC is a manufacturer's guaranteed value (as hexane).
2	2.000	0.190	3.500	--	0.020	0.020	0.020	g/kW-hr	NO _x , ROC, CO, and PM values are Tier 4 Interim emission factors for engines rated 120<=kW<=560 as specified in Caterpillar's CARB Executive Order U-R-001-0415 certification. PM ₁₀ and PM _{2.5} are assumed to be equal to the PM factor.
	2.239	0.213	3.265	0.0055	0.022	0.022	0.022	g/bhp-hr with NTE factors ^{2,3}	NO _x , ROC, CO, PM, PM ₁₀ , and PM _{2.5} values were converted from g/kW-hr to g/bhp-hr and Not to Exceed (NTE) factors were applied. The NTE factor for NO _x , ROC, PM, PM ₁₀ , and PM _{2.5} is 1.50 and CO has a Not to Exceed factor of 1.25. SO _x is based on the CARB diesel sulfur content of 0.0015% by weight.
	190	10	454	--	--	--	--	ppmvd @ 15% O ₂	NO _x , ROC (as hexane), and CO are calculated based on the g/bhp-hr values above and the formula in Note 4.

Notes:

1. Conversion between lb/MMBtu and ppmv used the following equation:

$$ppmv = \frac{lb}{MMBtu} * Molar Volume * 10^6 * \frac{(20.9 - \%O_2)}{20.9} * \frac{1}{Molar Weight} * \frac{1}{F_d}$$

Where:

Molar Volume = 385.3 dscf/lb-mol for LFG based on ATC 14708 application material.

O₂ = 3% for the flare.

Molar Weight = 46.01 lb/lb-mol for NO_x, 86.18 lb/lb-mol for ROC (as hexane), and 28.01 lb/lb-mol for CO.

F_d = 9.210 dscf/MMBtu based on ATC 14708 application material.

2. Conversion factor: 1 kW = 1.34 bhp

3. The NTE factors were determined based on the engine family of BCPXL18. IHPA, the NO_x being certified to 1.27 g/bhp-hr, and the PM being certified to 0.001 g/bhp-hr.

4. Conversion between g/bhp-hr and ppmv used the following equation:

$$ppmv = \frac{\frac{g}{bhp-hr} * MV * 10^{12}}{F_d * \frac{20.9}{20.9 - O_2} * BSFC * Molar Weight * \frac{g}{lb}}$$

Where:

Molar Volume = 379.7 dscf/lb-mol at 1 atm and 60 °F.

F_d = 9.080 dscf/MMBtu at 60 °F per SBCAPCD TRD Table 5.

O₂ = 15% for the engine.

BSFC = 6.676.03 Btu/bhp-hr based 137,000 Btu/gal heating value for diesel and 30.7 gal/min fuel consumption.

Molar Weight = 46.01 lb/lb-mol for NO_x, 86.18 lb/lb-mol for ROC (as hexane), and 28.01 lb/lb-mol for CO.

Lompoc Sanitary Landfill - PT-70 14708
Combustion Equipment Potential to Emit

No.	NO _x		ROC		CO		SO _x		PM		PM ₁₀		PM _{2.5}	
	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY
1	17.29	3.16	13.84	2.52	57.65	10.52	24.16	4.41	5.76	1.05	5.76	1.05	5.76	1.05
2	24.88	1.55	2.36	0.15	36.28	2.27	0.06	0.00	0.24	0.02	0.24	0.02	0.24	0.02
Total	42.17	4.71	16.20	2.67	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07

Table 5.3
Lompoc Sanitary Landfill - PT-70 14708
Facility Potential to Emit (FID: 08774)

Facility Potential to Emit														
Equipment	NO _x		ROC		CO		SO _x		PM		PM ₁₀		PM _{2.5}	
	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY
Landfill Fugitives			0.52	0.09										
Combustion Equipment	42.17	4.71	16.20	2.67	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07
Total Emissions	42.17	4.71	16.71	2.77	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07

Lompoc Sanitary Landfill - PT-70 14708
Federal Potential to Emit (FID: 08774)

Federal Potential to Emit														
Equipment Category	NO _x		ROC		CO		SO _x		PM		PM ₁₀		PM _{2.5}	
	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY
Landfill Fugitives			--	--										
Combustion Equipment	42.17	4.71	16.20	2.67	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07
Total Emissions	42.17	4.71	16.20	2.67	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07

Lompoc Sanitary Landfill - PT-70 14708
Stationary Source Potential to Emit (SSID: 03707)

Stationary Source Potential to Emit														
Facility	NO _x		ROC		CO		SO _x		PM		PM ₁₀		PM _{2.5}	
	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY	lb/day	TPY
Lompoc Sanitary Landfill (FID: 08744)	42.17	4.71	16.71	2.77	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07
Total Emissions	42.17	4.71	16.71	2.77	93.92	12.79	24.22	4.41	6.01	1.07	6.01	1.07	6.01	1.07

Lompoc Sanitary Landfill: PT-70 14708
Hazardous Air Pollutant Emission Factors

Equipment Description	Acetylene	Acrolein	Acrylonitrile	Asaric	Benzene	Benzyl chloride	Bromobenzene	1,3-Butadiene	Cadmium	Carbon disulfide	Carbon tetrachloride	Cyanoyl sulfide	Chlorobenzene	Chlorofluoromethane	Chloroform	Chlorobenzene	Chromium	Dichlorobenzene	1,4-Dioxane	Ethylbenzene	Ethylene dibromide	Ethylene dichloride	Ethylene oxide	Formaldehyde	Heptachlorobenzene	Heptane	
Landfill Fugitives	7.74E-02	5.56E-01	--	3.00E-01	--	5.09E-01	1.81E-02	2.10E-02	1.66E-01	--	2.00E-01	4.00E-03	1.22E-01	7.96E-01	9.10E-02	4.00E-02	2.44E-01	--	6.47E-01	6.00E-02	8.29E-03	5.28E-03	4.80E-03	6.00E-02	1.17E-02	3.49E-03	3.10E+00
Flare	1.17E-03	1.43E-02	1.68E-04	1.00E-05	1.31E-04	1.54E-03	--	--	3.17E-06	--	6.75E-05	--	1.56E-03	--	1.01E-04	--	1.03E-05	--	1.01E-05	--	7.85E-04	2.42E-03	--	6.79E-04	--	--	--
IC Engine	7.83E-01	--	3.39E-02	--	1.60E-03	1.86E-01	--	--	2.17E-01	1.50E-03	--	--	2.00E-04	--	--	--	6.00E-04	--	--	1.09E-02	--	--	--	1.73E+00	--	2.69E-02	--

References:

- A1 - Tijuana Landfill fugitives source test (2009/2013)
A2 - USEPA's AReD draft Table 2, for Default Concentrations for LFG Constituents for Landfills with Wastes in Place on or after 1992 (October 2008)
B1 - AEA Santa Maria Minam Medical LFG-draft flare source test (September 4-11, 2010)
B2 - CARB's CATT for LFG-draft flares
B3 - HHV of S57 BTU/scf from Table 5.24 of this permit
C - NCAPCDs, AP 2888 Combustion Emission Factors • Diesel Combustion Factors (internal combustion) (May 2001)

	Hydrogen chloride	Isopropylbenzene	Lead	Manganese	Mercury	Methyl chloroform	Methyl ethyl ketone	Methyl isobutyl ketone	Methyl tert butyl ether	Methylbenzene	Naphthalene	Nickel	PAHs (not incl. naphthalene)	Propylene dichloride	Selenium	Syrene	1,1,2,2-Tetrachloroethane	Tetrachloroethylene	1,1,2-Trichloroethane	Toluene	Triphenylmethane	1,2,4-Trichlorobenzene	Trichloroethylene	2,2,4-Trimethylpentane	Vinyl acetate	Vinyl chloride	Vinylidene chloride	Xylenes	References	Units	
	--	4.30E-01	--	--	1.22E-04	4.00E-02	5.44E+00	8.83E-01	1.18E-01	--	1.07E-01	--	5.20E-02	--	4.11E-01	6.00E-02	1.57E-01	6.00E-02	3.90E+00	1.24E-02	5.51E-03	8.50E-03	6.14E-01	2.48E-01	1.33E-01	6.00E-02	1.47E-01		A	ppm	
3.30E-06	8.13E-04	--	--	6.47E-06	--	6.05E-04	--	--	1.69E-02	6.36E-02	3.17E-06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.37E-04	--	1.43E-03	lb/MMBtu	B	
1.86E-01	--	--	8.30E-03	3.10E-03	2.00E-03	--	--	--	--	1.97E-02	3.90E-03	3.62E-02	--	2.20E-03	--	--	--	--	--	--	1.03E-01	--	--	--	--	--	--	4.24E-02	lb/1000 gal	C	

Lompoc Sanitary Landfill: PT-70 14708
Permit Hazardous Air Pollution Emissions (TPY)

Equipment Description	Acetaldehyde	Acrolein	Acrylonitrile	Asene	Benzene	Benzyl chloride	Bromobenzene	1,3-Butadiene	Calcium	Carbon disulfide	Carbon tetrachloride	Carboxyl sulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cinnamyl	Dichlorobenzene	Dichloroethane	1,4-Dioxane	Ethylbenzene	Ethylone dibromide	Ethylone dichloride	Ethylone dichloride	Formaldehyde	Heptachlorobenzene	Hexane		
Landfill Fugitives ¹	2.00E+08	1.34E+07	--	9.35E+08	--	2.34E+07	1.35E+08	1.17E+08	5.27E+08	--	8.94E+08	3.61E+08	4.76E+08	4.00E+07	3.45E+08	2.80E+08	7.24E+08	--	5.59E+07	2.99E+08	4.29E+09	3.29E+06	5.30E+09	3.49E+08	3.49E+08	2.06E+09	5.35E+09	1.57E+06	
Flare	6.17E+02	7.52E+01	8.81E+03	5.26E+04	6.89E+03	8.11E+02	--	--	1.67E+04	--	3.55E+03	--	8.21E+02	--	5.29E+03	--	5.42E+04	--	5.42E+04	--	5.31E+04	--	4.13E+02	1.27E+01	--	3.57E+02	--	--	
IC Engine ²	7.21E+01	--	3.12E+02	--	1.47E+03	1.72E+01	--	--	2.00E+01	1.38E+03	--	--	1.84E+04	--	--	--	5.53E+04	--	5.53E+04	--	--	1.00E+02	--	--	--	1.59E+00	--	2.48E+02	
	7.83E+01	7.52E+01	4.00E+02	5.26E+04	8.36E+03	2.53E+01	1.35E+08	1.17E+08	2.00E+01	1.55E+03	8.94E+08	3.55E+03	4.30E+08	8.23E+02	4.04E+07	3.45E+08	5.29E+03	7.24E+08	1.09E+03	5.59E+07	2.99E+08	5.31E+04	1.00E+02	4.13E+02	1.27E+01	3.49E+08	1.63E+00	5.35E+09	2.48E+02

Notes:
1. Emissions were calculated by multiplying the concentration in ppm by the molecular weight of each HAP in lb/bmol, dividing by the molecular weight of ROC (assumed to be equal to CH₄, 16.04 lb/bmol, based on Subpart W.W.W) and multiplying by the fugitive ROC emissions in ton/yr.

2. Fuel consumption of 30.7 gal/min for this engine comes from Table 5.2a of this permit.

3. These are estimates only, and are not intended to represent emission limits.

--	--	3.04E-07	--	--	1.44E+10	3.13E+08	2.30E+06	5.19E+07	6.11E+08	--	8.06E+08	--	3.45E+08	--	2.51E+07	5.92E+08	1.53E+07	4.70E+08	2.11E+06	1.84E+08	5.87E+09	6.56E+08	4.12E+07	1.25E+07	4.88E+08	3.42E+08	9.17E+06
1.74E+04	4.28E+02	--	--	3.40E+04	--	3.18E+02	--	--	8.89E+01	3.34E+00	1.67E+04	--	--	--	--	--	--	--	1.03E+01	--	--	--	--	--	7.22E+03	--	7.52E+02
1.72E+01	--	--	7.64E+03	2.86E+03	1.84E+03	--	--	--	1.81E+02	3.59E+03	3.33E+02	--	2.03E+03	--	--	--	--	--	9.71E+02	--	--	--	--	--	--	--	3.91E+02
72E+01	4.28E+02	3.04E+07	7.64E+03	3.20E+03	1.84E+03	3.18E+02	2.30E+06	5.19E+07	6.11E+08	8.89E+01	3.36E+00	3.33E+02	3.45E+08	2.03E+03	2.51E+07	5.92E+08	1.53E+07	4.70E+08	1.04E+01	1.84E+08	5.87E+09	6.56E+08	4.12E+07	1.25E+07	7.22E+03	3.42E+08	1.14E+01

COMBUSTION EMISSION UNIT

(Form 1302-C1)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. EMISSION UNIT DESCRIPTION

1. Equipment type: Enclosed ground flare ATC/PTO Number: 14708
2. Equipment description: The enclosed flare is 6 feet diameter and 25 feet tall, with fuel flow meter, automated combustion and temperature control.
3. For piston ICEs: ☐ 2-stroke ☐ 4-stroke ☒ NA
4. Equipment make, model & serial number: LFG Specialties, Model EF62516, Serial No. 2541.
5. Maximum design process rate or maximum power input/output: 400 scfm LFG, 12.01 MMBtu/hr LHV
6. Primary use: LFG Emission Control Unit
7. Burner(s) design, operating temperature and capacity: Naturally aspirated, 1400-1700 F, 12.01 MMBtu/hr
8. Control device(s) type and description (if any): NA

II. OPERATIONAL INFORMATION

1. Operating schedule: 24 hours/day 8760 hours/year
2. Exhaust gas properties (temperature, SCFM, %H₂O, %O₂ or %CO₂, % excess air): From 11/4/20 test: 1,421 F, 3,257 DSCFM, 12.84 % O₂, 7.35% CO₂. Everything measured as dry. Gas heat value of 480.3 Btu/scf.
3. Fuel specifications: Total sulfur content calculated as H₂S at standard conditions of 260 ppmvd.

FUEL TYPE (name)	MAX ANNUAL USAGE** (ft ³ /yr, lb/yr, gal/yr)	HEATING VALUE (BTU/lb or BTU/gal)	SULFUR (%)
Landfill Gas	188.88 MMscf/yr	557 BTU/scf, representative value as actual value will vary throughout the year.	260 ppmvd

* Equipment may be grouped on a single form if it is of the same type and if the emissions are calculated the same way.
 ** List only if there is a permit restriction limiting annual fuel use below the theoretical maximum usage.

COMBUSTION EMISSION UNIT (Form 1302-C2)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

4. Emissions for Emission Units described on page(s):

CRITERIA POLLUTANT EMISSIONS (tons per year)					
POLLUTANTS	NOx	CO	ROC	PM	SO2
A. Emissions	3.16	10.52	2.52	1.05	4.41
B. Pre-Modification Emissions¹	NA	NA	NA	NA	NA
C. Emission Change²					
D. Emission Limit³	47 ppmv @ 3% O ₂	256 ppmvd @ 3% O ₂	20 ppmvd @ 3% O ₂		
OTHER REGULATED AIR POLLUTANT EMISSIONS (tons/year)					
POLLUTANTS	HAP	Methane	Naphthalene	Toluene	
A. Emissions	15.89	12	3.36	10.3	
B. Pre-Modification Emissions¹					
C. Emission Change²					
D. Emission Limit³					

¹ For permit revisions only; emissions prior to project modification.

² Difference between Pre-Modification Emissions (Section B.) and Emissions (Section A.).

³ For voluntary emissions cap and emission limits [i.e. expressed as parts per million (ppm) corrected for dilution air, pounds per hour (lbs/hr), pounds per million BTU (lb/MMBTU, etc.) required by any applicable federal requirement.

⁴ HAP emissions must be determined, and those exceeding one ton per year from any emission unit category must also be quantified; if less than one ton per year, just list the HAPs emitted by name.

City of Lompoc Landfill Title V Emissions

Total Stationary Source Emissions Form 1302-C2 Flare
Continued

Hazardous Air Pollutant	CAS No.
1,1,1-Trichloroethane (methyl chloroform)	71556
1,2-Dichloroethane (ethylene dichloride)	107062
Acetaldehyde	75070
Acetonitrile	75058
Acrolein	107028
Acrylonitrile	107131
Arsenic	-
Benzene	71432
Cadmium	-
Carbon tetrachloride	56235
Chlorobenzene	108907
Chloroform	67663
Chromium	-
1,4 Dioxane	123911
Ethylene dibromide	106934
Formaldehyde	50000
Hydrogen Chloride	7647010
Hydrogen Fluoride	73602616
Manganese	-
Methylene Chloride	75092
Nickel	-
Vinyl chloride	75014
Xylenes (mixed)	1330207

COMBUSTION EMISSION UNIT (Form 1302-C1)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. EMISSION UNIT DESCRIPTION

1. Equipment type: Diesel IC Engine ATC/PTO Number: 14708
2. Equipment description: Diesel IC Engine
3. For piston ICEs: ☐ 2-stroke ☒ 4-stroke ☐ NA
4. Equipment make, model & serial number: Caterpillar Model C18, Serial No. BDN00136
5. Maximum design process rate or maximum power input/output: 630 bhp
6. Primary use: Greenwaste grinder
7. Burner(s) design, operating temperature and capacity: 18.1 Liter Internal Combustion Engine
8. Control device(s) type and description (if any):

II. OPERATIONAL INFORMATION

1. Operating schedule: 8 hours/day 1000 hours/year
2. Exhaust gas properties (temperature, SCFM, %H₂O, %O₂ or %CO₂, % excess air):
3. Fuel specifications:

FUEL TYPE (name)	MAX ANNUAL USAGE** (ft ³ /yr, lb/yr, gal/yr)	HEATING VALUE (BTU/lb or BTU/gal)	SULFUR (%)
CARB Diesel	30,700 gal/yr	137,000 BTU/gal	15 ppm

* Equipment may be grouped on a single form if it is of the same type and if the emissions are calculated the same way.
 ** List only if there is a permit restriction limiting annual fuel use below the theoretical maximum usage.

COMBUSTION EMISSION UNIT (Form 1302-C2)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

4. Emissions for Emission Units described on page(s):

CRITERIA POLLUTANT EMISSIONS (tons per year)					
POLLUTANTS	SO ₂	NO _x	CO	NMOC	PM
A. Emissions	0.004	1.55	2.27	0.15	0.02
B. Pre-Modification Emissions¹					
C. Emission Change²					
D. Emission Limit³	15 ppm in fuel	1.5 g/bhp-hr	2.6 g/bhp-hr	0.15 g/bhp-hr	0.015 g/bhp-hr
OTHER REGULATED AIR POLLUTANT EMISSIONS (tons per year) ⁴					
POLLUTANTS	Formaldehyde				
A. Emissions	1.59				
B. Pre-Modification Emissions¹					
C. Emission Change²					
D. Emission Limit³					

¹ For permit revisions only; emissions prior to project modification.

² Difference between Pre-Modification Emissions (Section B.) and Emissions (Section A.).

³ For voluntary emissions cap and emission limits [i.e. expressed as parts per million (ppm) corrected for dilution air, pounds per hour (lbs/hr), pounds per million BTU (lb/MMBTU, etc.) required by any applicable federal requirement.

⁴ HAP emissions must be determined, and those exceeding one ton per year from any emission unit category must also be quantified; if less than one ton per year, just list the HAPs emitted by name.

City of Lompoc Landfill Title V Emissions

Total Stationary Source Emissions Form 1302-C2 IC Engine
Continued

Hazardous Air Pollutant	CAS No.
1,1,1-Trichloroethane (methyl chloroform)	71556
1,2-Dichloroethane (ethylene dichloride)	107062
1,2-Dichloropropane (propylene dichloride)	78875
Acetaldehyde	75070
Acrolein	107028
Arsenic	-
Benzene	71432
1, 3 Butadiene	106990
Cadmium	-
Chlorobenzene	108907
Chromium	-
Ethylbenzene	100414
Hexane (n)	110543
Hydrogen Chloride	7647010
Lead	-
Manganese	-
Mercury	-
Naphthalene	91203
Nickel	-
PAHs	-
Selenium	-
Toluene	108883
Vinyl chloride	75014
Xylenes (mixed)	1330207

GENERAL EMISSION UNIT (Form 1302-F1)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. EMISSION UNIT DESCRIPTION

1. General process description: Municipal Solid Waste Landfill with landfill gas collection system
2. Equipment type*: NA
3. Equipment description*: NA ATC/PTO Number:
4. Equipment make, model & serial number: NA
5. Maximum design process rate or throughput: Input: 400 tons/day (tpd) of municipal solid waste is located at the landfill;
Output: 400 scfm landfill gas (LFG)
6. Control device(s) type and description (if any): 12.010 MMBtu/hr enclosed LFG Flare, 6 feet in diameter and 25 feet tall

II. OPERATIONAL INFORMATION

1. Operating schedule: 24 hours/day 365 hours/year
2. Exhaust gas flow rate: 400 SCFM @ 3 %H₂O
3. Raw products used and finished products produced:

RAW PRODUCT USED (name)	FEED RATE or CONSUMPTION RATE or OTHER PARAMETER**	FINISHED PRODUCTS PRODUCED (name)	PRODUCTION RATE* (lbs/hr, gal/hr, etc.)
Municipal Solid Waste	400 tpd	NA	NA

* Equipment may be grouped on a single form if it is of the same type and if the emissions are calculated the same way.

** Choose parameters to allow determination of applicability of federal requirements (e.g. lbs/hr, gallons/hr, tons/yr)

GENERAL EMISSION UNIT (Form 1302-F2)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

4. Emissions for Emission Units described on page(s):

CRITERIA POLLUTANT EMISSIONS (tons per year)					
POLLUTANTS	ROC	NMOC			
A. Emissions	0.09	0.10			
B. Pre-Modification Emissions¹	NA	NA			
C. Emission Change²					
D. Emission Limit³	0.09	0.10			
OTHER REGULATED AIR POLLUTANT EMISSIONS (tons per year) ⁴					
POLLUTANTS					
A. Emissions					
B. Pre-Modification Emissions¹					
C. Emission Change²					
D. Emission Limit³					
¹ For permit revisions only; emissions prior to project modification. ² Difference between Pre-Modification Emissions (Section B.) and Emissions (Section A.). ³ For voluntary emissions cap and emission limits [i.e. expressed as parts per million (ppm) corrected for dilution air, pounds per hour (lbs/hr), pounds per million BTU (lb/MMBTU, etc.) required by any applicable federal requirement. ⁴ HAP emissions must be determined, and those exceeding one ton per year from any emission unit category must also be quantified; if less than one ton per year, just list the HAPs emitted by name.					

City of Lompoc Landfill Title V Emissions

Total Stationary Source Emissions Form 1302-F2

Continued

Hazardous Air Pollutant	CAS No.
1,1,1-Trichloroethane (methyl chloroform)	71556
1,1,2,2-Tetrachloroethane	79345
1,1-Dichloroethane (ethylidene dichloride)	75343
1,1-Dichloroethene (vinylidene chloride)	75354
1,1,2-Trichloroethane	79005
1,2-Dichloroethane (ethylene dichloride)	107062
1,2-Dichloropropane (propylene dichloride)	78875
2,2,4-Trimethylpentane	540841
Acetaldehyde	75070
Acetonitrile	75058
Acrylonitrile	107131
Benzene	71432
Benzyl Chloride	100447
Bromomethane	74839
1, 3 Butadiene	106990
Carbon disulfide	75150
Carbon tetrachloride	56235
Carbonyl sulfide	463581
Chlorobenzene	108907
Chlorodifluoromethane	75456
Chloroethane (ethyl chloride)	75003
Chloroform	67663
Chloromethane	74873
Dichlorobenzene	25321226
Dichloromethane (methylene chloride)	75092
1,4-Dioxane	123911
Ethyl benzene	100414
Ethylene dibromide	106934
Formaldehyde	50000
Hexachlorobutadiene	87683
Hexane (n)	110543
Isopropylbenzene	98828
Mercury	-
Methyl ethyl ketone	78933
Methyl isobutyl ketone	108101
Methyl tert butyl ether	1634044
Naphthalene	91203
Styrene	100425
Toluene	108883
Tetrachloroethylene	127184
Tribromomethane	75252
1,2,4 - Trichlorobenzene	120821
Trichloroethylene (trichloroethene)	76016
Vinyl Acetate	108054
Vinyl chloride	75014
Xylenes (mixed)	1330207
Hydrogen Sulfide	7783064

EMISSION CONTROL UNIT (Form 1302-G1)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. EQUIPMENT DESCRIPTION

- | | | |
|----|--|---|
| 1. | General process description: | Landfill Gas Collection and Control System to collect and destroy methane and NMOC emissions from the landfill using an enclosed flare as control device. |
| 2. | Equipment type: | Enclosed ground flare ATC/PTO Number: 14708 |
| 3. | Equipment description: | Enclosed flare is 6 feet in diameter and 25 feet tall. The enclosed flare is equipped with an automatic shutdown device, flame arrestor to prevent flashback, propane pilot, and thermocouples that monitor combustion temperature. |
| 4. | Equipment make, model & serial number: | LFG Specialties, model EF62516, serial No. 2541 |
| 5. | Emission unit(s) served by this equipment: | Landfill Gas |
| 6. | Maximum design or rated capacity: | 12.010 MMBtu/Hour, max flow of gas 400 scf/min, max condensate injection 130 gallon per day |

II. EQUIPMENT DESIGN INFORMATION (Exhaust data from 10/27/2020 source test except design temperature maximum)

- | | | |
|--|---|--|
| 1. Exhaust gas: | Temperature: <u>2000</u> °F | Flow Rate: <u>2295</u> SCFM |
| | Moisture: _____ % | Oxygen: <u>11.9</u> % |
| | CO ₂ : <u>8.6</u> % | |
| 2. General: | Manufacturer: <u>LFG Specialties</u> | Pressure Drop: _____ in-Hg |
| | Inlet Temp.: _____ °F | Outlet Temp.: _____ °F |
| 3. Catalyst data: | Catalyst Type/Material: _____ | |
| | Catalyst Life: _____ years | Volume: _____ Ft ³ |
| | Space Velocity: _____ Ft ³ /Ft | NH ₃ inj. Rate: _____ gal/hr |
| | NH ₃ Inj. Temp.: _____ °F | |
| 4. Baghouse data: | Design: [] Positive Pressure | [] Negative Pressure |
| | Cleaning Method: | |
| | Fabric Material: | |
| | Flow Rate: _____ SCFM | Air/Cloth Ratio: |
| 5. ESP data: | Number of fields: | Cleaning Method: |
| | Power Input: | |
| 6. Scrubber data: | Type/design: | Sorbent Type: |
| 7. Other Control Devices (include design information adequate to verify efficiency): | | |

EMISSION CONTROL UNIT (Form 1302-G2)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

III. OPERATIONAL INFORMATION

1. Operating schedule: 24 hours/day 8760 hours/year
2. Raw products used by control device:
3. Operating information:

[illegible]

EXEMPT EMISSIONS UNITS (Form 1302-H)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

Are you claiming any emitting activities to be insignificant? (See definition at bottom of page)

YES X NO

I. ACTIVITIES CLAIMED TO BE INSIGNIFICANT (Attach supporting calculations)

Activity	Description of Activity/Emission Units	Potential to Emit for each Pollutant
Landfill gas condensate storage	50 gal condensate storage tank	Negligible
Used Oil Storage Tanks	2 - 400 gal used oil storage tanks	Negligible
Propane Tanks	2 - 5 gal propane tanks	Negligible
Water Storage Tank	10,000 gal water storage tank	Negligible

Insignificant activities are defined in APCD Rule 1301 (definitions). For an activity to be considered insignificant emissions cannot exceed 2 tons per year potential to emit (PTE) any criteria pollutants, and 0.5 tons per year for any regulated HAP.

Note: Insignificant activities are not exempt from Part 70 requirements/permits.

COMPLIANCE PLAN (Form 1302-I1)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. PROCEDURE FOR USING FORM 1302-I

- ☞ This form shall be submitted as part of the SBCAPCD's Regulation XIII Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 1302-I), a Responsible Official shall identify whether the source identified in the SBCAPCD's Regulation XIII Application currently operates in compliance with all applicable federal requirements.

II. APPLICABLE FEDERAL REQUIREMENTS

Applicable Federal Requirement ¹		Affected Emission Unit	In compliance? (yes/no/exempt ³)	Effective Date ⁴
Regulatory Reference ²	Regulation Title ²			
See Attached				
1 Review APCD SIP Rules, NSPS, NESHAPS, and MACTs . 2 Regulatory Reference is the abbreviated citation (e.g. 40 CFR 60 Subpart OOO, APCD Rule 325.H) and Title is the prosaic title (e.g. NSPS Standards of Performance for Nonmetallic Mineral Processing Plants, Crude Oil Production and Separation, Inspection) 3 If exempt from applicable federal requirement, include explanation for exemption. 4 Indicate the date during the permit term that the applicable federal requirement will become effective for the emission unit.				

Other Applicable Federal Requirements ⁵	Affected Emission Unit	In compliance?	Effective Date
See Attached			
5 All environmentally significant permit conditions -- such as emission, operation, and throughput limitations or compliance monitoring conditions associated with such limitations -- listed in all authority to construct (ATC) permits issued to the Part 70 source are also applicable requirements.			

*** If more than one page is used, please ensure that "Santa Barbara APCD", stationary source name and "Form 1302-I1" appear on each page. ***

COMPLIANCE PLAN (Form 1302-I1)

APCD: Santa Barbara County Air Pollution Control District	APCD USE ONLY APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. PROCEDURE FOR USING FORM 1302-I

This form shall be submitted as part of the SBCAPCD's Regulation XIII Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 1302-I), a Responsible Official shall identify whether the source identified in the SBCAPCD's Regulation XIII Application currently operates in compliance with all applicable federal requirements.

II. APPLICABLE FEDERAL REQUIREMENTS

Applicable Federal Requirement ¹		Affected Emission Unit	In compliance? (yes/no/exempt ³)	Effective Date ⁴
Regulatory Reference ²	Regulation Title ²			
40 CFR Part 60, Subpart WWW, §60.752(b)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.752(b)(2)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.752 (b)(2)(i)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.752 (b)(2)(ii)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.752 (b)(2)(iii)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.752 (b)(2)(iv)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(a)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(b)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(c)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(d)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(e)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(t)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.753(g)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.754	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(a)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010

40 CFR Part 60, Subpart WWW, §60.755(a)(1)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(a)(2)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(a)(3)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(a)(5)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(b)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(c)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(d)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.755(e)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.756	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(a)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(b)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(c)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(d)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(e)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(t)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.757(g)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.758	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.758(a)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.758(b)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.758(c)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.758(d)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.758(e)	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
40 CFR Part 60, Subpart WWW, §60.759	NSPS for Municipal Solid Waste Landfills (9/21/2006)	Landfill Surface	yes	10/30/2010
1 Review APCD SIP Rules, NSPS, NESHAPS, and MACTs . 2 Regulatory Reference is the abbreviated citation (e.g. 40 CFR 60 Subpart OOO, APCD Rule 325.H) and Title is the prosaic title (e.g. NSPS Standards of Performance for Nonmetallic Mineral Processing Plants, Crude Oil Production and Separation, Inspection) 3 If exempt from applicable federal requirement, include explanation for exemption. 4 Indicate the date during the permit term that the applicable federal requirement will become effective for the emission unit.				

Other Applicable Federal Requirements ⁵	Affected Emission Unit	In compliance?	Effective Date
RULE 101: Compliance by Existing Installations	All emission units	yes	6/21/2012
RULE 102: Definitions	All emission units	yes	8/25/2016

RULE 103: Severability	All emission units	yes	10/30/2010
RULE 201: Permits Required	All emission units	yes	10/30/2010
RULE 202: Exemptions to Rule 201	Applicable emission units	yes	8/25/2016
RULE 203: Transfer	All emission units	yes	10/30/2010
RULE 204: Applications	All emission units	yes	8/25/2016
RULE 205: Standards for Granting Permits	All emission units	yes	10/30/2010
RULE 206: Conditional Approval of Authority to Construct or Permit to Operate	All emission units	yes	10/30/2010
RULE 207: Denial of Applications	All emission units	yes	10/30/2010
RULE 208: Action on Applications - Time Limits	All emission units. Not applicable to Part 70 permit applications.	yes	10/30/2010
RULE 212: Emission Statements	All emission units	yes	10/30/2010
RULE 301: Circumvention	All emission units	yes	10/30/2010
RULE 302: Visible Emissions	All emission units	yes	10/30/2010
RULE 303: Nuisance	All emission units	yes	10/30/2010
RULE 304: PM Concentration - Northern Zone	Each PM source	yes	10/30/2010
RULE 306: Dust and Fumes - Northern Zone	Each PM source	yes	10/30/2010
RULE 309: Specific Contaminants	All emission units	yes	10/30/2010
RULE 311: Sulfur Content of Fuel	All combustion units	yes	10/30/2010
RULE 317: Organic Solvents	Emission units using solvents	yes	10/30/2010
RULE 321: Solvent Cleaning Operations	Emission units using solvents	yes	6/21/2012
RULE 322: Metal Surface Coating Thinner and Reducer	Emission units using solvents	yes	10/30/2010
RULE 323: Architectural Coatings	Paints used in maintenance and surface coating activities	yes	10/30/2010
RULE 323.1: Architectural Coatings	Paints used in maintenance and surface coating activities.	yes	1/1/2015
RULE 324: Disposal and Evaporation of Solvents	Emission units using solvents	yes	10/30/2010
RULE 333: Control of emissions from Reciprocating Internal Combustion Engines	Waste Grinder Engine	yes	5/11/2012
RULE 353: Adhesives and Sealants	Emission units using adhesives and sealants	yes	6/21/2012
RULE 505: Breakdown Conditions	All emission units	yes	10/30/2010
REGULATION VIII (RULES 801-809): New Source Review	All emission units	yes	6/20/2013
REGULATION VIII (RULE 810): Federal Prevention of Significant Deterioration	All emission units	yes	10/30/2010
REGULATION IX (RULE 901): New Source Performance Standards	Landfill Surface	yes	10/30/2010
REGULATION XIII (RULES 1301-1305): Part 70 Operating Permits	All emission units	no	10/30/2010
5 All environmentally significant permit conditions -- such as emission, operation, and throughput limitations or compliance monitoring conditions associated with such limitations -- listed in all authority to construct (ATC) permits issued to the Part 70 source are also applicable requirements.			

COMPLIANCE PLAN (Form 1302-I2)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

III. COMPLIANCE CERTIFICATION

Under penalty of perjury, I certify the following:

- X **Based on information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) with which the source is in compliance identified in form 1302-I1;**

Based on information and belief formed after reasonable inquiry, the source identified in this application will comply with the future-effective applicable federal requirement(s) identified in form 1302-I1, on a timely basis¹;

Based on information and belief formed after reasonable inquiry, the source identified in this application is not in compliance with the applicable federal requirement(s), identified in form 1302-I1, and I have attached a compliance plan schedule.²

Signature of Responsible Official

Date

1. Unless a more detailed schedule is expressly required by the applicable federal requirement.
2. At the time of expected permit issuance, if the source expects to be out of compliance with an applicable federal requirement, the applicant is required to provide a compliance schedule with this application, with the following exception. A source which is operating under a variance that is effective for less than 90 days need not submit a Compliance Schedule. For sources operating under a variance, which is in effect for more than 90 days, the Compliance Schedule is the schedule that was approved as part of the variance granted by the hearing board.

The compliance schedule shall contain a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with this applicable federal requirement. For sources operating under a variance, the compliance schedule is part of the variance granted by the hearing board. The compliance schedule shall resemble, and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. For sources not operating under a variance, consult the Air Pollution Control Officer regarding procedures for obtaining a compliance schedule.

COMPLIANCE PLAN CERTIFICATION (Form 1302-J1)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. CERTIFICATION STATUS

1. Indicate the dates the applicant intends to submit the **COMPLIANCE CERTIFICATION REPORT** to the district during the entire permit term. The district federal operating permits rule requires the applicant to submit this report at least annually.

Twice a year, the City shall submit a Compliance Certification Report to the District. Each report will verify compliance with the prior two calendar quarters. The first report will cover calendar quarters 1 and 2 (January through June) and will be submitted no later than September 1st. The second report will cover calendar quarters 3 and 4 (July through December) and will be submitted no later than March 1st. E

2. For sources required to have a schedule of compliance to remedy a violation, indicate the dates the applicant intends to submit **CERTIFIED PROGRESS REPORTS** to the district during the permit term. The district federal operating permits rule requires the applicant to submit this report at least semiannually.

The source is currently out of compliance with permit condition 9.C.3.c.i. In accordance with federal regulation the landfill gas flow to the flare is monitored and there is no by-pass. However, the data recorder is not recording the data in accordance with the permit condition. The City of Lompoc has committed to correcting the action by April 15, 2021. A certified progress report will be submitted by April 1, 2021.

3. Describe the compliance status of the source with respect to applicable enhanced monitoring, and compliance certification requirements of Section 114(a)(3) of the Clean Air Act:

Though the flare qualifies as a control device, Part 64.2(b)(1)(i) exempts sources from CAM requirements when the sources are regulated by NSPS proposed after November 15, 1990 (e.g. 40 CFR 60 Subpart WWW).

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II. CERTIFICATION INFORMATION See Attachment

EMISSION UNIT:

Applicable Federal
Requirement & its Title: _____
—

Method	Description or Reference Method
Monitoring	
Reporting	
Record Keeping	
Test Methods	

EMISSION UNIT:

Applicable Federal
Requirement & its Title: _____
—

Method	Description of Reference Method
Monitoring	
Reporting	
Record Keeping	
Test Methods	

***** If more than one page is used, please ensure that “Santa Barbara APCD”, source name and “Form 1302-J2” appear on each page. *****

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II. CERTIFICATION INFORMATION

Emission Unit: Landfill

Applicable Federal Requirement & its Title: NSPS for Municipal Solid Waste Landfills (9/21/2006)

Method	Description or Reference Method
Monitoring	Waste Values: The permittee shall monitor current amount of solid waste-in- place and the year-by-year waste acceptance rate for Lompoc Sanitary Landfill. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(a); CCR Subchapter /0, Article 4, Sub article 6 §95470(a)(l)(F)] Asbestos and Non-Degradable Waste: The permittee shall monitor the nature, date of deposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as well as any nonproductive areas excluded from collection. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(d); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(J)(G)] Instantaneous Surface Emissions Monitoring. The permittee shall conduct instantaneous surface monitoring of the landfill surface on a quarterly basis. If the provisions identified in Condition 9.C.1.c.vii have been fulfilled, monitoring may be conducted on an annual basis. A reading found by the permittee exceeding the limit specified in Condition 9.C.1.a.i shall be recorded as an exceedance but will not be considered a violation of this permit if the actions specified below are taken. A reading found by a District inspector during a compliance inspection exceeding the limit specified in Condition 9.C.1 .a.i shall be considered a violation of this permit unless the permittee had previously discovered the exceedance and is in the progress of correcting the exceedance per the actions listed below. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(l); CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(l); CARB Implementation Guidance Document for the Regulation to Reduce Methane Emissions from Municipal Solid Waste Landfills. Section II, Subsection E, Question 2, Page II-13]: 1. First Exceedance: Within ten calendar days of a measured exceedance, corrective action shall be taken by the permittee such as, but not limited to cover maintenance or repair, or well vacuum adjustments; and the location shall be re-monitored. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(4)(ii); CCR Subchapter JO, Article 4, Sub article 6 §95469(a)(J)(B)] 2. Second Exceedance: If the re-monitoring of the exceedance location shows a second exceedance, additional corrective action shall be taken, and the location shall be re-monitored again no later than ten calendar days after the second exceedance. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(4)(iii); CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(l)(B)J] a. Second Exceedance Re-Monitoring: If the re-monitoring of the location does not show a second exceedance, the location shall be re-monitored one month from the initial exceedance. If the one-month re-monitoring shows compliance with Condition 9.C.1 .a.i, no further monitoring of that location is required until the next quarterly monitoring period. However, if the one-month re-monitoring shows an exceedance, corrective actions shall be taken. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(4)(iv); CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(J)(B)l] 3. Third Exceedance: If the re-monitoring shows a third exceedance, the permittee shall install a new or replacement well as determined to achieve compliance no later than 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as

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	upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the District for approval [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(4)(v); CCR Subchapter JO, Article 4, Sub article 6 §95469(a)(l)(B)2] Integrated Surface Emissions Monitoring. The permittee shall conduct integrated surface monitoring of the landfill surface on a quarterly basis. If the provisions identified in Condition 9.C.1.c.viii have been fulfilled, monitoring shall be conducted on an annual basis. Integrated surface readings shall be recorded and then averaged for each grid. A reading found by the permittee exceeding the limit specified in Condition 9.C. 1.a.ii shall be recorded as an exceedance, but not be considered a violation of this permit if the actions specified below are taken. A reading found by a District inspector during a compliance inspection exceeding the limit specified in Condition 9.C. 1.a.ii shall be considered a violation of this permit unless the permittee had previously discovered the exceedance and is in the progress of correcting the exceedance per the actions listed below. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(2); CARE Implementation Guidance Document for the Regulation to Reduce Methane Emissions from Municipal Solid Waste Landfills. Section II, Subsection E, Question 2, Page 11-13] 1. First Exceedance: Within ten calendar days of a measured exceedance, corrective action shall be taken by the permittee such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the grid shall be re-monitored. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(2)(B)] 2. Second Exceedance: If the re-monitoring of the grid shows a second exceedance, additional corrective action shall be taken and the grid shall be re-monitored again no later than ten calendar days after the second exceedance. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(2)(B)] a. Second Exceedance Re-Monitoring: If the re-monitoring of the grid shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than ten calendar days after the second exceedance. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(2)(B)1] 3. Third Exceedance: If the re-monitoring in the grid shows a third exceedance, the permittee shall install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95469(a)(2)(B)2] Monitoring Spacing: The permittee shall conduct instantaneous and integrated surface emissions monitoring in a walking pattern of no more than a 25-foot intervals. These intervals shall traverse each monitoring grid for both the instantaneous and integrated surface emissions monitoring. If the permittee has no exceedances of the limits after any four consecutive quarterly monitoring periods or can demonstrate that in the past three years that there were no measured exceedances of the limits, the walking pattern spacing may be increased to 100-foot intervals. The permittee shall submit an updated SMMR Plan prior to the implementation of any spacing increase. The permittee shall return to a 25-foot spacing interval upon any exceedances of the limits specified in Condition 9.C.1.a.i or 9.C.1.a.ii that cannot be remediated within ten calendar days or upon any exceedances detected during a compliance inspection. [Ref ATC 14708; 40 CFR Subpart WWW §60.753(d); 40 CFR Subpart WWW §60.755(c)(1); CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(1)(B)1; CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(l)(B)2] Monitoring Grids: The permittee shall monitor the landfill surface based on a topographic map of the MSW landfill drawn to scale. This map shall divide the entire landfill surface into
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	individually identified 50,000 square foot grids with the location of the grids and the LFG collection system clearly marked and identified. The grids shall be used for instantaneous and integrated surface emissions monitoring. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(l)(B)2] Instantaneous Monitoring Frequency: Any closed or inactive landfill, or any closed or inactive areas on an active landfill that have no instantaneous surface monitoring exceedances of the permitted limits, found by a District inspector or the permittee, after four consecutive quarterly monitoring periods may be monitored annually. The permittee shall submit an updated SMMR Plan prior to the implementation of any monitoring frequency changes Any exceedances of the permitted limits specified in Condition 9.C.1.a.i during the annual monitoring. that cannot be remediated within ten calendar days will result in a return to quarterly integrated surface monitoring of the landfill. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(!); CCR Subchapter JO, Article 4, Sub article 6 §95469(a)(J)(C); CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(l)(D); CARE Implementation Guidance Document for the Regulation to Reduce Methane Emissions from Municipal Solid Waste Landfills. Section 11, Subsection E, Question 2, Page 11-13] Integrated Monitoring Frequency: Any closed or inactive landfill, or any closed or inactive areas on an active landfill that have no integrated surface monitoring exceedances of the permitted limits, found by a District inspector or the permittee, after four consecutive quarterly monitoring periods may be monitored annually. The permittee shall submit an updated SMMR Plan prior to the implementation of any monitoring frequency changes Any exceedances of the permitted limits specified in Condition 9.C.1.a.ii during the annual monitoring that cannot be remediated within ten calendar days will result in a return to quarterly integrated surface monitoring of the landfill. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(2)(C); CCR Subchapter 10, Article 4, Sub article 6 §95469(a)(2)(D); CARE Implementation Guidance Document for the Regulation to Reduce Methane Emissions from Municipal Solid Waste Landfills. Section 11, Subsection E, Question 2, Page 11-13] Monitoring Areas: Instantaneous and integrated surface emissions monitoring shall be conducted where visual observations indicate elevated concentrations of LPG, such as distressed vegetation and cracks or seeps in the cover. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. [Ref ATC 14708; 40 CFR Subpart WWW §60.753(d); CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(2)(D)] Wind Speeds: Instantaneous and integrated surface emission monitoring shall be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds ten miles per hour. Average onsite wind speed shall also be determined in an open area at 15-minute intervals using an on-site anemometer with a continuous recorder and data logger for the entire duration of the monitoring event. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(J)(C)] Meteorological Conditions: Instantaneous and integrated surface emission monitoring shall be conducted only when there has been no measurable precipitation in the preceding 72 hours and shall be performed during typical meteorological conditions. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(3); CCR Subchapter I 0, Article 4, Sub article 6 §95471(c)(l)(D)] Portable Analyzer Calibration Requirements: The portable analyzer used for the federal and state surface emission monitoring shall adhere to the following requirements [Ref ATC 14708; 40 CFR Subpart WWW §60.755(d)(l); CCR Subchapter I 0, Article 4, Sub article 6 §95471(a)]: 1. Calibration Method: The portable analyzer shall meet the calibration, performance, and instrument specifications provided in EPA Method 21, except that methane shall replace
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	all references to VOC. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(d)(I); CCR Subchapter JO, Article 4, Sub article 6 §95471(a); CCR Subchapter I 0, Article 4, Sub article 6 §95471(a)(J)] 2. Calibration Gas: The calibration gas shall be methane, diluted to a nominal concentration of 500 ppmv in air. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(d)(2); CCR Subchapter 10, Article 4, Sub article 6 §95471(a)(2)] Portable Analyzer Requirements During Monitoring Events: 1. Background Concentration: The background concentration shall be determined by moving the probe inlet upwind and downwind at least 30 meters from the waste mass boundary of the landfill. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(2)] 2. Probe Height from Ground: The probe inlet shall be placed within five to ten centimeters of the ground while conducting surface emissions monitoring. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(c)(3); CCR Subchapter I 0, Article 4, Sub article 6 § (c)(J)(A)] Calibration and Maintenance Logs: Calibration and maintenance of the portable analyzers shall be maintained, including the results of each calibration. [Ref ATC 14708]
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by Condition 9.C.8 of Part 70 Permit (PT-70) No. 14708 for the Landfill.
Record Keeping	Waste Values: The current amount of solid waste in-place and the year-by-year waste acceptance rate. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(a); CCR Subchapter 10, Article 4, Sub article 6 §95470(a)(J)(F)] Asbestos and Non-Degradable Waste: Records detailing the nature, date of deposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as well as any nonproductive areas excluded from collection. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(d)(2); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(J)(G)] Instantaneous Surface Emissions Monitoring Recordkeeping: 1. The concentration date, time, and location of each instantaneous monitoring readings in excess of 200 ppmv and 500 ppmv (measured as methane). [Ref ATC 14708; 40 CFR Subpart WWW §60.757(/)(5); CCR Subchapter 10, Article 4, Sub article 6 §95470(a)(I)(D)] 2. The concentration of the re-monitoring events for each location with a measured concentration greater than 200 ppmv and 500 ppmv and if the re-monitoring event showed compliance. [Ref ATC 14708; 40 CFR Subpart WWW §60.757(/)(5); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(I)(D)] 3. Corrective actions taken to repair the leaks as a result of measured exceedances and dates of repair. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95470(a)(I)(D)] 4. Wind speed during state instantaneous surface sampling. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(I)(D)] Integrated Surface Emissions Monitoring Recordkeeping: 1. The concentration, date, time, and location of the affected grid of each integrated monitoring reading in excess of 25 ppmv (measured as methane). [Ref ATC 14708;

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	CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(3)(B)] 2. The concentration of the re-monitoring events for each grid with a measured concentration greater than 25 ppmv and if the re-monitoring event showed compliance. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(3)(B)] 3. Description of the corrective actions taken to repair the leaks as a result of measured exceedances and dates of repair. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(3)(B)] 4. Wind speed during integrated surface sampling. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95471(c)(3)(C)] Calibration and Maintenance: Records of calibration and maintenance of the portable analyzers, including the results of each calibration. [Ref ATC 14708] Landfill Information: MSW landfill name, owner and operator, address, solid waste information system (SWIS) identification number, and status (active, inactive, closed). [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95470(b)(3)(A)] Flow Rate: The expected gas generation flow rate determined as prescribed in the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories, Chapter 3 using a recovery rate of 75%. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(l)(C)]
Test Methods	Methane concentrations by portable analyzer quarterly. Wind speed by anemometer quarterly.

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Emission Unit: Landfill Gas Collection System

Applicable Federal Requirement & its Title: NSPS for Municipal Solid Waste Landfills (9/21/2006)

Method	Description or Reference Method
Monitoring	LFG Collected: The annual quantity (in set) of LFG collected (downstream of the condensate knockout) shall be continuously monitored by a District-approved device. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(b)(3)(B)] Cover Integrity: Monitor the landfill cover integrity on a monthly basis and implement repairs as necessary. [Ref ATC 14708; 40 CFR Subpart WWW §60.753©(5)] Wellhead Pressure: Measure gauge pressure in the LFG collection header at each individual well on a monthly basis. If there is any positive pressure reading, the permittee shall take the following actions: [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(I); CCR Subchapter I 0, Article 4, Sub article 6 §95469(c)] Initial Corrective Action: The permittee shall initiate corrective action within five calendar days of the positive pressure measurement except under conditions indicative of a fire, use of a geomembrane or synthetic cover, or decommissioned well. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(a)(3); CCR Subchapter JO, Article 4, Sub article 6 §95469(c)(I)] Further Corrective Actions: If negative pressure cannot be achieved without excess air infiltration within fifteen calendar days of the first measurement, the permittee must initiate further action, including, but not limited to, any necessary expansion of the gas collection system. Corrective action, including any expansion of the gas collection and control system, must be completed and any new wells must be operating within 120 calendar days of the date the positive pressure was first measured. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval. [Ref ATC 14708; 40 CFR Subpart WW §60.755(a)(3); CCR Subchapter JO, Article 4, Sub article 6 §95469(c)(2); CCR Subchapter JO, Article 4, Sub article 6 §95469(c)(3)] Wellhead Nitrogen or Oxygen, and Temperature: For the purposes of identifying whether excess air infiltration into the landfill is occurring, each well shall be monitored monthly for temperature, and nitrogen or oxygen. If a well exceeds one of these operating parameters, the permittee shall take the following actions: [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(2); 40 CFR Subpart WWW §60.756(a)(3)] 1. Initial Corrective Action: The permittee shall initiate corrective action within five calendar days of the measured exceedance. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(a)(5)] 2. Further Corrective Actions: If a correction of the exceedance cannot be achieved within fifteen calendar days of the first measurement, the permittee shall expand of the gas collection system within 120 calendar days of the initial exceedance. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval. [Ref ATC 14708; 40 CFR Subpart WWW §60.755(a)(5)] Wellheads and Collection System Analyzer Methods and Requirements: 1. Oxygen Concentration: The wellhead oxygen concentration shall be determined by an oxygen meter using Method 3A, Method 3C, or ASTM D6522-11. For all three methodologies, the span shall be set between 20% and 50% of the span, a data recorder is not required, only two calibration gases are required: a zero and span, a calibration error check is not required, and the allowable sample bias, zero drift, and calibration drift

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	are plus or minus(±) 10%. An alternative test method may be used if approved by the District. [Ref ATC 14708; 40 CFR Subpart WWW §60.753©(2)] 2. Nitrogen Concentration: The nitrogen level shall be determined using Method 3C. An alternative test method may be used if approved by the District. [Ref ATC 14708; 40 CFR Subpart WWW §60.753©(1)] Positive Pressure Components: Components containing LFG and under positive pressure shall be monitored quarterly for leaks using a portable analyzer meeting the requirements of Condition 9.C.1.c.xii. Any component leak shall be tagged and repaired within ten calendar days. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95469(b)(3)] Construction Activities: The permittee maintains a log of construction activities at the landfill including a description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, any LFG collection system components that will be affected by these actions, and if these construction activities are part of a LFG collection system expansion. This log shall also include the construction start and finish dates, projected equipment installation dates, and projected shut down times for individual LFG collection system components; and a description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(J)(J)] Calibration and Maintenance Logs: Calibration and maintenance of the LFG collection system's monitoring devices and meters, including the results of each calibration. [Ref ATC 14708] Downtimes: Date and duration of all periods when the entire collection system is not operating in excess of five days, including individual well shutdown and disconnection times, and the reason for the downtime. [Ref ATC 14708; 40 CFR Subpart WWW §60.757(/)(4); CCR Subchapter 10, Article 4, Sub article 6 §95470(a)(J)(A)] Well Density: The density of wells, horizontal collectors, surface collectors, or other LFG extraction devices. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(b)(J)(ii)] Quarterly LFG Sampling: On a quarterly basis, a sample of the LFG shall be extracted downstream of the collection system blower and analyzed for methane (% by volume) and carbon dioxide (% by volume) using a District approved portable gas analyzer or appropriate ASTM method. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(b)(3)(C)]
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by Condition 9.C.8 of Part 70 Permit (PT-70) No. 14708 for the Landfill.
Record Keeping	LFG Collected: The annual volume of collected LFG (in scf). [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(b)(3)(B)] Cover Integrity: Records of the monthly cover integrity monitoring events, including the dates of the monitoring events, if repairs were necessary, and any corrective actions taken due to the monitoring events. [Ref ATC 14708; 40 CFR Subpart WWW §60.753©(5)] Wellhead Recordkeeping: 1. Records of the monthly wellhead gauge pressure measurements including the dates of the measurements. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(l); CCR

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	Subchapter 10, Article 4, Sub article 6 §95470(a)(J)©] 2. Location and well identification number of gauge pressure exceedances including the dates and results of re-monitoring events, and whether or not the second reading is an exceedance. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(I); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(I)©] 3. Records of the monthly measurement of nitrogen or oxygen concentration in the LFG including the dates of the measurements. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(2)] 4. Location and well identification number of nitrogen or oxygen concentration exceedances including the dates and results of re-monitoring events, and whether or not the second reading is an exceedance. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(2)] 5. Records of the monthly wellhead temperature measurements including the dates of the measurements. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(3)] 6. Location and well identification number of temperature exceedances including the dates and results of re-monitoring events, and whether or not the second reading is an exceedance. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a)(3)] 7. Description of the corrective actions taken as a result of measured exceedances and dates of repair. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(a); CCR Subchapter I O, Article 4, Sub article 6 §95470(a)(J)©] Positive Pressure Components: Results of the quarterly inspections for components containing LFG and under positive pressure. The permittee shall record the dates of the inspections, concentration of any components exceeding the permitted limit, description of any corrective actions taken, and dates of the corrective actions. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95469(b)(3)] Construction Activities: Records of any construction activities including a description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, any LFG collection system components that will be affected by these actions, and if these construction activities are part of a LFG collection system expansion. Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual LFG collection system components; and a description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(J)(J)] Calibration and Maintenance: Records of calibration and maintenance of the LFG collection system's monitoring devices and meters, including the results of each calibration. [Ref ATC 14708] Downtimes: Periods when the entire collection system is not operating in excess of five days, including individual well shutdown and disconnection times, and the reason for the downtime. [Ref ATC 14708; 40 CFR Subpart WWW §60.757(J)(4); CCR Subchapter JO, Article 4, Sub
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	article 6 95470(a)(J)(A)] Well Density: The density of wells, horizontal collectors, surface collectors, or other LFG extraction devices. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(b)(J)(ii)] Quarterly LFG Sampling: Results of the quarterly measurements of the LPG for methane (% by volume) and carbon dioxide (% by volume). [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95470(b)(3)(C)] Plot Map: Most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface, each existing and planned collector in the system, and providing a unique identification location label for each collector [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(b)(3)(1)]
Test Methods	Oxygen by portable analyzer quarterly. Pressure by manometer or magnehelic quarterly. Temperature by thermocouple or thermometer quarterly. LFG flow by flow meter continuously. LFG components by portable analyzer quarterly.

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Emission Unit: Enclosed Flare

Applicable Federal Requirement & its Title: NSPS for Municipal Solid Waste Landfills (9/21/2006)

Method	Description or Reference Method
Monitoring	LFG Volume: The permittee shall continuously monitor the daily and annual volume of LFG combusted in the enclosed flare (in units of scf). The enclosed flare shall be equipped with at least one gas flow rate measuring device which records the flow to the device at least every 15 minutes. The data recorder and continuous monitoring device shall be installed, calibrated, maintained, and operated according to the manufacturer's specifications. A valid hour of data must have measured values for at least three 15-minute monitoring periods during that hour. [Ref ATC 14708; 40 CFR Subpart WWW §60.756(b)(2)(i); CCR Subchapter 10, Article 4, Sub article 6 §95469(b)(J)(B)] Operational Temperature: The enclosed flare combustion temperature data shall be monitored at least every fifteen minutes with a temperature monitoring device with a continuous recorder, which has an accuracy of± 1% of the temperature being measured expressed in °C or °F. This equipment shall be installed, calibrated, maintained, and operated according to the manufacturer's specifications. The temperature data shall be averaged for three continuous hourly periods (block average) to assess the required compliance with flare temperature limits. The three-hour data must comprise of three consecutive hours of valid data and each valid hour of data shall have measured values for at least three 15 minute monitoring periods during that hour. The enclosed flare's set point temperature and selected thermocouples shall be marked and logged whenever it is changed as allowed under this permit. [Ref ATC 14708; 40 CFR Subpart WWW §60.758(b)(2)(i); CCR Subchapter JO, Article 4, Sub article 6 §95469(b)(J)(A)] Flare Flame: The presence of a flame in each flare shall be continuously monitored by a flame detector. [Ref ATC 14708] Annual LFG Sampling: On an annual basis, a sample of the LFG shall be extracted downstream of the collection system blowers and analyzed for total sulfur content (ppmv) and HHV (Btu/set) using appropriate ASTM sampling and analysis techniques. If any annual sulfur content measurement exceeds 208 ppmv, future sulfur content measurements shall be conducted on a quarterly basis. [Ref ATC 14708] Shutdown: The date, time, and cause of each instance of flare shutdown exceeding one hour and the date and time of restart shall be documented by the operator. Any corrective actions taken shall also be monitored. [Ref ATC 14708; 40 CFR Subpart WWW §60.757(/)(3); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(l)(B)] Positive Pressure Components: Components containing LFG and under positive pressure shall be monitored quarterly for leaks using a portable analyzer meeting the requirements of Condition 9.C. l.c.xii. Any component leak shall be tagged and repaired within ten calendar days. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95469(b)(3)] Propane: The volume of propane delivered, and the date of each delivery shall be recorded. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95470(b)(3)(G)] Calibration and Maintenance Logs: Calibration and maintenance of the enclosed flare's monitoring devices and meters, including the results of each calibration. [Ref ATC 14708] Source Testing: The permittee shall perform source testing of the emissions and process parameters listed in Table 4.3. The permittee shall adhere to the requirements of Condition 9.C.9. [Ref ATC 14708; 40 CFR Subpart WWW §60.754(d); CCR Subchapter 10, Article 4, Sub article 6 §95464(b)(4)]

COMPLIANCE PLAN CERTIFICATION

(Form 1302-J2)

APCD: Santa Barbara County Air Pollution Control District	APCD USE ONLY APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by Condition 9.C.8 of Part 70 Permit (PT-70) No. 14708 for the Landfill.
Record Keeping	LFG Volume: Records of the daily and annual volume of LFG combusted in the enclosed flare (in units of set). [Ref ATC 14708; 40 CFR Subpart WWW §60.756(b)(2)(i); CCR Subchapter 10, Article 4, Sub article 6 §95469(b)(l)(B)] Operational Temperature: All block three-hour periods of operation during which the average temperature difference was more than 28 °C below the average combustion temperature during the most recent source test. Records shall include the flare set point temperature from the most recent source test and the date and time of any changes to the set point temperature. [Ref ATC 14708. 40 CFR Subpart WWW §60.758(I (i)); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(l)(K)I] Flare Flame: The date and time whenever the flame detector indicates the loss of a flame in the enclosed flare, the corrective actions taken, and the date and time when the flare was restarted. [Ref ATC 14708] Annual LFG Sampling: Results of the annual measurements of the LFG for total sulfur content (ppmv) and HHV (Btu/scf). [Ref ATC 14708] Shutdown: Records of the date, time, and cause of each instance of enclosed flare shutdown in excess of one hour and the date and time of restart, and any corrective actions taken shall be retained in an operator's log. [Ref ATC 14708; 40 CFR Subpart WWW §60.757(/)(3); CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(J)(B)] Positive Pressure Components: Results of the quarterly inspections for components containing LFG and under positive pressure. The permittee shall record the dates of the inspections, concentration of any components exceeding the permitted limit, description of any corrective actions taken, and dates of the corrective actions. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95469(b)(3)] Propane: Records of the date and volume of each propane delivery and the total volume delivered for the year. [Ref ATC 14708; CCR Subchapter 10, Article 4, Sub article 6 §95470(b)(3)(G)] Calibration and Maintenance: Records of calibration and maintenance of the enclosed flare monitoring devices and meters, including the results of each calibration. [Ref ATC 14708] Source Test Results: Results of any source tests conducted including NMOC outlet concentration or destruction efficiency, average combustion temperature measured at least every 15 minutes, and average temperature over the course of the source test. [Ref ATC 14708; 40 CFR Subpart WWW §60.754(d); 40 CFR Subpart WWW §60.758(b)(2)(ii); CCR Subchapter 10, Article 4, Sub article 6 §95470(a)(J)(H)] Control Device Parameters: The permittee shall maintain the following records of each LFG control device: LFG control device type, year of installation, rating, fuel type, and the total amount of LFG combusted in the control device. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(b)(3)(D)] Control Device Life Records: The permittee shall maintain the following records, whether in paper, electronic, or other format, for the life of each LFG control device: the control device vendor specifications, expected gas generation flow rate, and % reduction of methane achieved during the initial source test or compliance determination. [Ref ATC 14708; CCR Subchapter JO, Article 4, Sub article 6 §95470(a)(2)]

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J2)

APCD: Santa Barbara County Air Pollution Control District	APCD USE ONLY APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

Test Methods	LFG flow by flow meter continuously. LFG condensate flow by flow meter continuously. Combustion temperature by thermocouple or thermometer quarterly. LFG components by portable analyzer quarterly.
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DEVIATION REPORT (Form 1302-L)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

I. DEVIATION INFORMATION

1. Permit number(s) of emission unit or control unit affected: Part 70 Permit to Operate 14708 - Enclosed Flare

2. Description of deviation: Data recorder for the landfill gas flow to the flare not recording the flow rates properly. Flow meter is operating correctly. The data is not being recorded properly

3. Description and identification of permit condition(s) deviated: Permit Condition 9.C.3.c.i
No excess emissions have occurred.

4. Associated equipment and equipment operation (if any): Enclosed flare.landfill gas flow meter.

5. Date and time when deviation was discovered: January of 2020

6. Date, time and duration of deviations January, 2020 to present.

7. Probable cause of deviation: The flow meter is operating properly as is the digital display. The data recorder is not recording the value properly. Several professionals have been to the site to repair the problem. To date, none have been able to. The likely cause is somewhere in the wiring but no one has been able to determine the exact problem yet.

8. Preventive or corrective action taken: Landfill staff check the digital display on a regular basis. The landfill gas flows have been below permitted limits throughout the time period and the flare has been source tested. No excess emissions have occurred. The City of Lompoc is now reaching out to the flare manufacturer and installer to determine if they have a professional who can repair the data recorder link.

Note: Excess emissions, if any, should also be noted under Item #3 above. If excess emissions are less than or equal than one pound per day, then a minor emissions violation (MIN) may apply if all 11 criterion in APCD Policy and Procedure 3100.VII.A.7 1999 are satisfied. The operator must provide the required documentation to be eligible for a MIN within seven days of detection of the violation.

CERTIFICATION STATEMENT (Form 1302-M)
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APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS PROCESSING ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

Identify, by checking off below, the forms and attachments that are part of your application. If the application contains forms or attachments that are not identified below, please identify these attachments in the blank space provided below. Review the instructions if you are unsure of the forms and attachments that need to be included in a complete application.

Forms included with application	Attachments included with application
☒ Stationary Source Summary Form ☒ Total Stationary Source Emission For ☒ Compliance Plan Form ☒ Compliance Plan Certification Form ☒ Exempt Equipment Form ☒ Certification Statement Form List other forms or attachments Combustion Emission Unit Form General Emission Unit Form Emission Control Unit Form	☒ Description of Operating Scenarios ☒ Sample emission calculations ☒ Fugitive emission estimates ☒ List of Applicable requirements ☒ Discussion of units out of compliance with applicable federal requirements and, if required, submit a schedule of Compliance Facility schematic showing emission points NSR Permit PSD Permit Compliance Assurance monitoring protocols Risk management verification per 112(r)
[] check here if additional forms listed on back	

I certify under penalty of law, based on information and belief formed after reasonable inquiry, that the information contained in this application, composed of the forms and attachments identified above, are true, accurate, and complete.

I certify that I am the responsible official, as defined in SBCAPCD's Regulation XIII, Rule 1301 or USEPA's 40 CFR Part 70.

Signature of Responsible Official **Date**

Print Name of Responsible Official B Charles (C. J.) Berry

Title of Responsible Official and Company Name: Utility Director

CERTIFICATION STATEMENT (Form 1302-M continued)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS PROCESSING ID:
COMPANY NAME: City of Lompoc Landfill	SOURCE NAME: Lompoc Sanitary Landfill

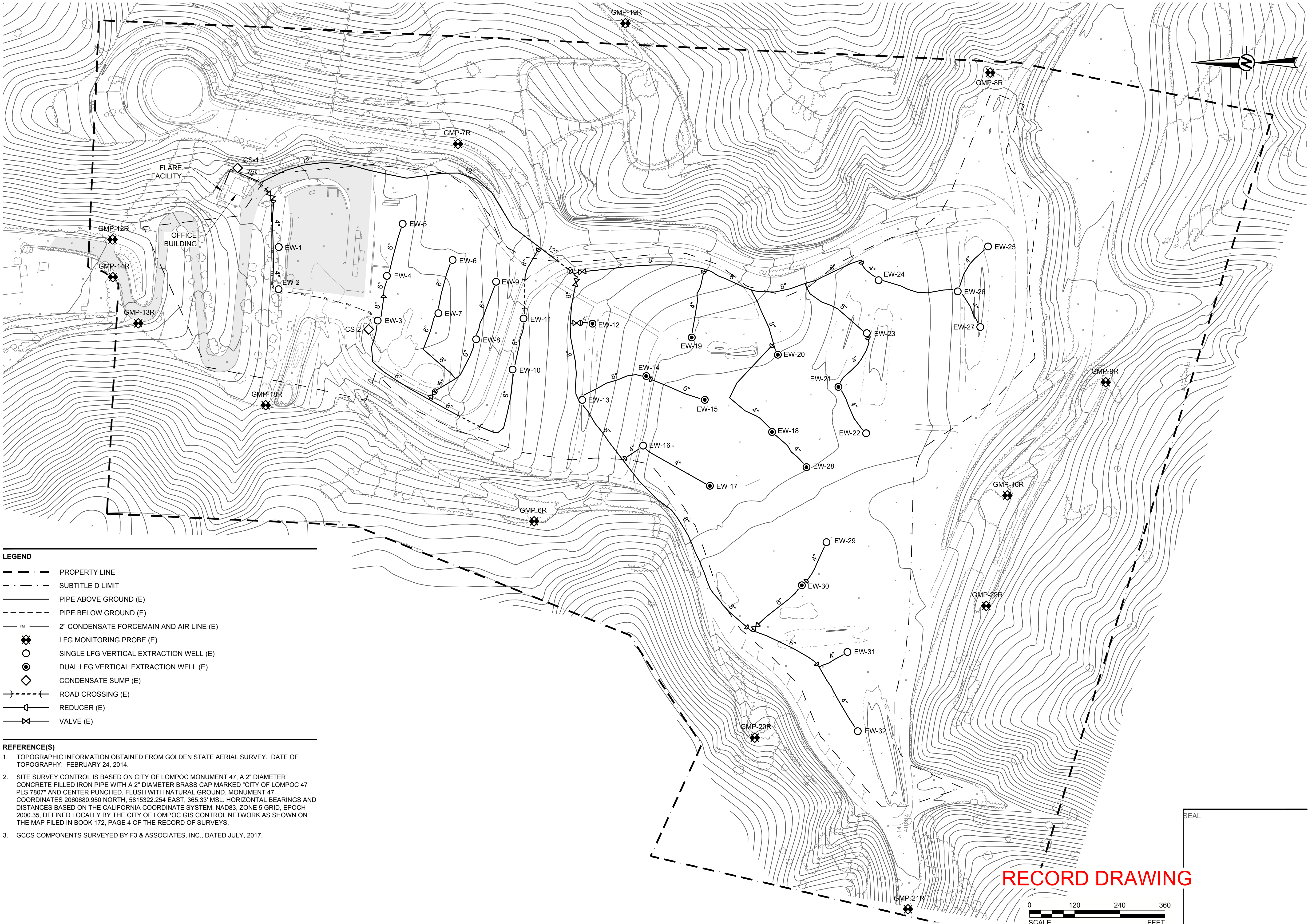
List Other Forms or Attachments (cont.)

Most Recent Topographic Map

APPENDIX B

Topographic Map

Path: \\nasarament\cadd\Site\Lompoc LFC\3D\2017 GCCS Expansion As-Built.dwg | File Name: 173536_2017 GCCS Expansion As-Built.dwg | Last Edited By: mikasade Date: 2017-09-26 Time: 8:07:27 AM | Printed By: Chiewenhu Date: 2019-02-15 Time: 9:58:32 AM



- LEGEND**
- PROPERTY LINE
 - . - . - SUBTITLE D LIMIT
 - PIPE ABOVE GROUND (E)
 - PIPE BELOW GROUND (E)
 - FM — 2" CONDENSATE FORCEMAIN AND AIR LINE (E)
 - ✱ LFG MONITORING PROBE (E)
 - SINGLE LFG VERTICAL EXTRACTION WELL (E)
 - ⊙ DUAL LFG VERTICAL EXTRACTION WELL (E)
 - ◇ CONDENSATE SUMP (E)
 - - - - ← ROAD CROSSING (E)
 - ∇ — REDUCER (E)
 - X — VALVE (E)

- REFERENCE(S)**
1. TOPOGRAPHIC INFORMATION OBTAINED FROM GOLDEN STATE AERIAL SURVEY. DATE OF TOPOGRAPHY: FEBRUARY 24, 2014.
 2. SITE SURVEY CONTROL IS BASED ON CITY OF LOMPOC MONUMENT 47, A 2" DIAMETER CONCRETE FILLED IRON PIPE WITH A 2" DIAMETER BRASS CAP MARKED "CITY OF LOMPOC 47 PLS 7807" AND CENTER PUNCHED, FLUSH WITH NATURAL GROUND. MONUMENT 47 COORDINATES 2060680.950 NORTH, 5815322.254 EAST, 365.33' MSL. HORIZONTAL BEARINGS AND DISTANCES BASED ON THE CALIFORNIA COORDINATE SYSTEM, NAD83, ZONE 5 GRID, EPOCH 2000.35, DEFINED LOCALLY BY THE CITY OF LOMPOC GIS CONTROL NETWORK AS SHOWN ON THE MAP FILED IN BOOK 172, PAGE 4 OF THE RECORD OF SURVEYS.
 3. GCCS COMPONENTS SURVEYED BY F3 & ASSOCIATES, INC., DATED JULY, 2017.

RECORD DRAWING



SEAL

PROJECT CITY OF LOMPOC LANDFILL	CLIENT CITY OF LOMPOC LOMPOC, CALIFORNIA	CONSULTANT GOLDER SUNNYVALE 425 LAKESIDE DRIVE SUNNYVALE, CALIFORNIA USA [+1] 408-220-9223 www.golder.com	TITLE LFG COLLECTION AND CONTROL SYSTEM	PROJECT NO. 1669190	REV. 0	of	FIGURE 1	REV. 0	2017-09-22	RECORD DRAWING	SN	MAL	APW	RVW	DESIGNED	PREPARED	REVIEWED	APPROVED

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM A3/D



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