

ROUGH DRAFT

EASTERN KERN AIR POLLUTION CONTROL DISTRICT



MAJOR SOURCE PERMIT TO OPERATE

2700 "M" Street, Suite 302
Bakersfield, CA 93301-2370
Bakersfield: (661) 862-5250
Field Office: (661) 823-9264

Permittee: Ridgecrest Recycling and Sanitary Landfill

Location: 3301 Bowman Road, Ridgecrest

Permit No: 0027-V-2013

Mailing Address 2700 "M" Street, Suite 500
Bakersfield, CA 93301

Permit No: 0027-V-2013

Issuance Date: December XX, 2014

Expiration Date: December XX, 2019

Nature of Business: Landfill

This permit is issued pursuant to, and is conditioned upon, compliance with provisions of the Eastern Kern Air Pollution Control District Rules and Regulations as authorized by the California Health and Safety Code, Section 39002. This permit is subject to accuracy of all information submitted relating to the permit application and to conditions appended hereto. It is valid from date of issuance until date of expiration unless renewed and shall be made readily available for inspection at any reasonable time to any and all persons who may request to see it.

Pursuant to the Clean Air Act Amendments of 1990 (CAAA), all conditions of this permit are federally enforceable by U.S. EPA and Eastern Kern Air Pollution Control District. Those provisions which are not required by the CAAA are considered to be Eastern Kern provisions and are not federally enforceable by U.S. EPA.

By:

Glen E. Stephens
Air Pollution Control Officer

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General Permit Conditions

In accordance with California Health and Safety Code, Sections 39002 and 42301.10 through 42301.12 and all applicable Eastern Kern Air Pollution Control District (District) Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit:

	Federally Enforceable Conditions	Reg/Rule
1.	<u>Inspections</u> Inspections shall be made by the enforcement agency for the purpose of obtaining information necessary to determine whether air pollution sources are in compliance with applicable rules and regulations, including authority to require record keeping and to make inspections and conduct tests of air pollution sources.	Reg. I, Rule 107
2.	<u>Stack Monitoring</u> Upon the request of and as directed by the Control Officer, the owner shall provide, install, and operate continuous monitoring equipment on such operations as directed. The owner shall maintain, calibrate, and repair the equipment and shall keep the equipment operating at design capabilities.	Reg. I, Rule 108
3.	<u>Source Sampling</u> Upon the request of the Control Officer and as directed by him the owner of any source operation which emits or may emit air contaminants, for which emission limits have been established, shall provide the necessary and proper facilities for source sampling. The applicable test method, if not specified in the rule, shall be conducted in accordance with Title 40 Code of Federal Regulations (40 CFR), Subpart 60, Appendix A - Reference Methods, except particulate matter (PM ₁₀) for compliance with Rule 210.1 requirements shall be conducted in accordance with 40 CFR, Subpart 51, Appendix M, Method 201 or 201A. Where no test method exists in the preceding references for a source type source sampling shall be conducted in accordance with California Air Resources Board (CARB) approved methods.	Reg. I, Rule 108.1

	Federally Enforceable Conditions	Reg/Rule
4.	<u>Equipment Breakdown</u> An occurrence which constitutes a breakdown condition, and which persists only until the end of the production run or 24-hours, whichever is sooner (except for continuous monitoring equipment, for which the period shall be ninety-six (96) hours), shall constitute a violation of any applicable emission limitation or restriction prescribed by these Rules and Regulations; however, no enforcement action may be taken provided the owner or operator demonstrates to the Control Officer that a breakdown condition exists and the proper requirements are met.	Reg. I, Rule 111

5.	<u>Severability</u> If any provision, clause, sentence, paragraph, section or part of these Regulations or application thereof to any person or circumstance shall for any reason be adjudged by a court of competent jurisdiction to be unconstitutional or invalid, such judgment shall not affect or invalidate the remainder of this Regulation and the application of such provision to other persons or circumstances, but shall be confined in its operation to the provision, clause, sentence, paragraph, section or part thereof directly involved in the controversy in which such judgment shall have been rendered and to the person or circumstance involved, and it is hereby declared to be the intent of the Eastern Kern Air Pollution Control Board that these Regulations would have been adopted in any case had such invalid provision or provisions not been included.	Reg. I, Rule 114
6.	<u>Conditional Approval</u> The Control Officer shall issue an Authority to Construct or a Permit to Operate, subject to conditions to insure compliance of the operation of any article, machine, equipment or other contrivance within the standards of Rule 208 and 208.1, in which case the conditions shall be specified in writing. Commencing work under such Authority to Construct or operation under such Permit to Operate shall be deemed acceptance of all conditions so specified. The Control Officer shall issue an Authority to Construct or Permit to Operate with revised conditions upon receipt of a new application, if the applicant demonstrates the article, machine, equipment or other contrivance can be operated within the standards of Rule 208 and 208.1 under the revised conditions.	Reg. II, Rule 209

	Federally Enforceable Conditions	Reg/Rule
7.	<p><u>Standards for Authority to Construct</u></p> <p>A. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:</p> <ol style="list-style-type: none"> 1) The Permittee has obtained all permits and approvals required by District Rules 201 and 210.1 (unless the change is exempt under District Rule 202); 2) The change is not subject to any requirements under Title IV of the Clean Air Act; 3) The change is not a Title I modification; and 4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of this permit. <p>B. For a change that qualified under this section, the Permittee shall provide contemporaneous written notice to the District and the U.S. EPA (except for a change that is exempt under District Rule 202). This written notice shall describe the change, including the date it was made, and shall contain other information as required to determine new applicable requirements of the Clean Air Act that apply as a result of the change;</p> <p>C. Upon satisfying the requirements of paragraph B above, the Permittee may make the proposed change;</p> <p>D. Changes that qualify under this section are not subject to the requirements for Part 70 revisions;</p> <p>E. The Permittee shall include each off-permit change made under this section in the application for renewal of this Part 70 permit; and</p> <p>F. The permit shield(s) provided in this permit do not apply to off-permit changes made under this section.</p>	Reg. II, Rule 210.1 Section IV. D.3
8.	<p><u>Prevention of Significant Deterioration (PSD)</u></p> <p>Facility may be subject to District Rule 210.4, Prevention of Significant Deterioration (PSD) if it undergoes major modification(s).</p>	Reg. II, Rule 210.4

	Federally Enforceable Conditions	Reg/Rule
9.	<p><u>Tailoring Rule Requirements</u></p> <p>Per the Tailoring Rule, a current permit application for an existing Title V facility includes facility-wide emissions of all air pollutants for which the source exceeds a Title V applicability threshold. If the facility has actual or potential emissions $\geq 75,000$ tpy GHGs, then GHG emissions must be included in the Title V permit application, as the facility exceeds the GHG applicability threshold for BACT for GHG.</p> <p>If actual or potential GHG emissions are $< 75,000$ tpy GHGs, no modification to the Title V permit application is necessary, as the facility is not a major source of GHG emissions. EPA has not established a deadline for submitting an updated Title V permit application to include GHG emissions; GHG emissions should be included when renewing or modifying a Title V permit application on or after January 2, 2011.</p> <p>Note: The international GHG reporting unit CO₂e is the sum of each GHG, multiplied by its global warming potential (GWP). The second threshold is the total GHG emissions from the facility in tpy, without considering the GWP.</p>	40 CFR Parts 51, 52, 70, and 71
10.	<p><u>Permit Fees</u></p> <p>Every applicant for an Authority to Construct or a Permit to Operate shall pay a filing fee. For issuance of an Authority to Construct, or an initial Permit to Operate, the applicant shall pay fees as prescribed in Rule 301. For issuance of an Authority to Construct, application processing fees shall also be paid as prescribed in Rule 303. The applicant shall receive credit for filing fees paid.</p> <p>Annually on the anniversary of issuance of a Permit to Operate, the permittee shall pay a renewal fee as prescribed in Rule 301. Fees collected pursuant to Rule 201.1, Section VII.A. shall supplement applicable Rules 301 and 301.3 fee requirements.</p>	Reg. III, Rule 301

	Federally Enforceable Conditions	Reg/Rule
11.	<p><u>Payment of Supplemental Fee</u> An owner or operator, or his designee, shall pay an annual supplemental fee for a permit to operate pursuant to this Rule as determined by the calculation method in Subsection C., to provide a District-wide fee rate of \$25 per ton of fee-based emissions (CPI-adjusted) for all facilities subject to Rule 201.1, unless Rule 201.1 VII.B. applies.</p>	Rule 201.1 Section VII. A.
12.	<p><u>Visible Emissions Limits</u> A person shall not discharge into the atmosphere, from any single source of emission whatsoever, any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:</p> <p>A. As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or</p> <p>B. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in Subsection A.</p>	Reg. IV, Rule 401
13.	<p><u>Particulate Matter Concentration - Desert Basin</u> A person shall not discharge into the atmosphere from any single source operation, in service on the date this Rule is adopted, particulate matter in excess of 0.1 grains per cubic foot of gas at standard conditions.</p>	Reg. IV, Rule 404.1
14.	<p><u>Sulfur Compounds</u> A person shall not discharge into the atmosphere sulfur compounds, which would exist as a liquid or gas at standard conditions, exceeding in concentration at the point of discharge: 0.2 percent by volume calculated as sulfur dioxide (SO₂).</p>	Reg. IV, Rule 407
15.	<p><u>Nuisance</u> A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property.</p>	Reg. IV, Rule 419
16.	<p><u>Federal New Source Performance Standards (NSPS)</u> Provisions of Part 60, Chapter 1, Title 40, Code of Federal Regulations, in effect July 1, 2010, are hereby adopted by reference and made a part hereof. All new and modified sources shall comply with standards, criteria and requirements therein.</p> <p>All applicable requirements of 40 CFR Part 60, Subparts A, Cc and WWW apply to this facility.</p>	Reg. IV, Rule 422

	Federally Enforceable Conditions	Reg/Rule
17.	<p><u>National Emission Standards for Hazardous Air Pollutants and Source Categories (NESHAPS)</u> Provisions of Title 40, Chapter 1, Parts 61 and 63, Code of Federal Regulations, in effect July 1, 2010, are hereby adopted by reference and made a part hereof. All sources of hazardous air pollution shall comply with applicable standards, criteria and requirements set forth herein.</p> <p>All applicable requirements of 40 CFR Part 63, Subparts A, and AAAA, apply to this facility.</p>	Reg. IV, Rule 423
18.	<p><u>Compliance Certification</u> The owner/operator shall comply with the following procedures for compliance certification:</p> <ul style="list-style-type: none"> A. Submittal of a compliance certification by the owner or operator to the U.S. EPA and copy to the APCO within 60 days after end of compliance certification period; B. Compliance certification period shall begin April 1 of each year and end March 31 of the following year; C. Such compliance certification shall identify the basis for each permit term or condition, e.g., specify the emissions limitation, standard or work practice, and a means of monitoring compliance with the term or condition; D. Such compliance certification shall include compliance status and method(s) used to determine compliance for the current time period and over entire reporting period; and E. Such compliance certification shall include any additional inspection, monitoring or entry requirement promulgated pursuant to Sections 114(a) and 504(b) of the CAA. 	40 CFR 70.5d

	Federally Enforceable Conditions	Reg/Rule
19.	<p>Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.</p> <p>U.S. EPA's Mailing Address: Director, Air Division 75 Hawthorne Street AIR-3 San Francisco, CA 94105</p>	40 CFR 70.5d
20.	<p><u>Compliance with Permit Conditions</u></p> <p>A. Permittee shall comply with all permit conditions;</p> <p>B. Permit does not convey any property rights or any exclusive privilege;</p> <p>C. Non-compliance with any permit condition shall be grounds for permit termination, revocation and reissuance, modification, enforcement action or denial of permit renewal;</p> <p>D. Permittee shall not use "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition;</p> <p>E. Pending permit action or notification of anticipated non-compliance does not stay any permit condition; and</p> <p>F. Within a reasonable time period, permittee shall furnish any information requested by the APCO, in writing, for purpose of determining: 1) compliance with the permit, or 2) whether or not cause exists for a permit or enforcement action.</p>	Reg. II, Rule 201.1

	Federally Enforceable Conditions	Reg/Rule
21.	<p><u>Emergency Provisions</u></p> <p>A. The permittee shall comply with the requirements of Rule 111 and the emergency provisions contained in all permit streamlining requirements imposed in accordance with Subsection V.J., Page 201.1-27, all District-only rules which apply in accordance with Subsection V.K.1., Page 201.1-28, and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules;</p> <p>B. Within two weeks of an emergency event, an owner or operator of the source shall submit to the District a properly signed, contemporaneous log or other relevant evidence which demonstrates that:</p> <ol style="list-style-type: none"> 1) An emergency occurred; 2) The permittee can identify the cause(s) of the emergency; 3) The facility was being properly operated at the time of the emergency; 4) All steps were taken to minimize the emissions resulting from the emergency; and 5) Within two working days of the emergency event, the permittee provided the District with a description of the emergency and any mitigating or corrective actions taken; <p>C. In any enforcement proceeding, the permittee has the burden of proof for establishing that an emergency occurred.</p>	Reg. II, Rule 201.1 Section VI. B.12
22.	<p><u>Record keeping</u></p> <p>A. Recording of maintenance of all monitoring and support information associated with all permit streamlining requirements imposed in accordance with Subsection V.J., all District-only rules which apply in accordance with Subsection V.K.1., and all applicable federal requirement not submitted by such permit streamlining requirement(s) or District-only rules, including:</p> <ol style="list-style-type: none"> 1) Date, place, and time of sampling; 2) Operating conditions at time of sampling; 3) Date, place, and method of analysis; and 4) Results of analysis; <p>B. Retention of records of all required monitoring data and support information for a period of at least five years from the date of sample collection, measurement, report, or application; and</p>	Reg. II, Rule 201.1

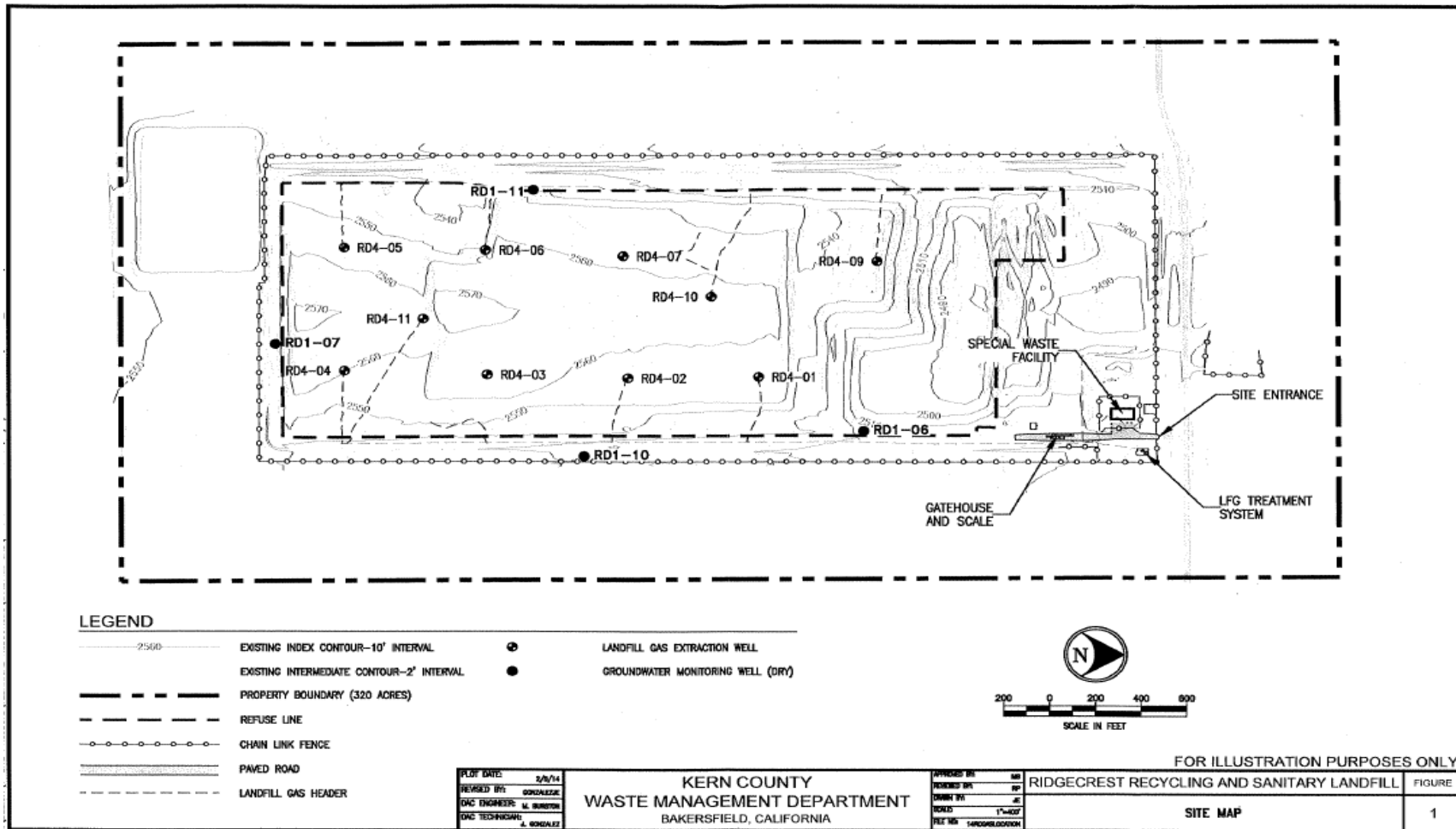
	<p>C. Any other record keeping deemed necessary by the APCO to ensure compliance with all permit streamlining requirements imposed in accordance with Subsection V.J., all District-only rules which apply in accordance with Subsection V.K.1., and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules.</p>	
23.	<p><u>Reporting</u></p> <p>A. Any non-conformance with permit requirements, including any attributable to emergency conditions (as defined in the permit) shall be promptly reported to the APCO and in accordance with Rule 111;</p> <p>B. Monitoring report shall be submitted at least every six months identifying any non-conformance with permit requirements, including any previously reported to the APCO;</p> <p>C. All reports of non-conformance with permit requirements shall include probable cause of non-conformance and any preventative or corrective action taken;</p> <p>D. Progress report shall be made on a compliance schedule at least semi-annually and including:</p> <ol style="list-style-type: none"> 1) Date when compliance will be achieved, 2) Explanation of why compliance was not, or will not be achieved by the scheduled date, and 3) Log of any preventative or corrective action taken; and <p>E. Each monitoring report shall be accompanied by a written statement from the responsible official certifying the truth, accuracy, and completeness of the report.</p> <p>F. Facility is subject to Greenhouse Gas (GHG) reporting requirements if actual or potential GHG emissions are <100,000 tpy CO₂e or <100 tpy GHGs as of January 2, 2011.</p>	Reg. II, Rule 201.1
24.	<p><u>Referencing of District and Applicable Requirements</u></p> <p>Pursuant to Rule 201.1.VI.c. District hereby references the following documents which are clearly identified and available to the District and to the public:</p> <p>A. Plant modernization project 1980; and</p> <p>B. Each Authority to Construct file for new equipment and each Authority to Construct file to modify existing equipment.</p> <p>These files contain title, document number, applicant, and date received. Also included in these files are rule citations, engineering evaluations, and final documents all related to the existing permit conditions and emissions limits set forth in this permit.</p>	Reg. II, Rule 201.1

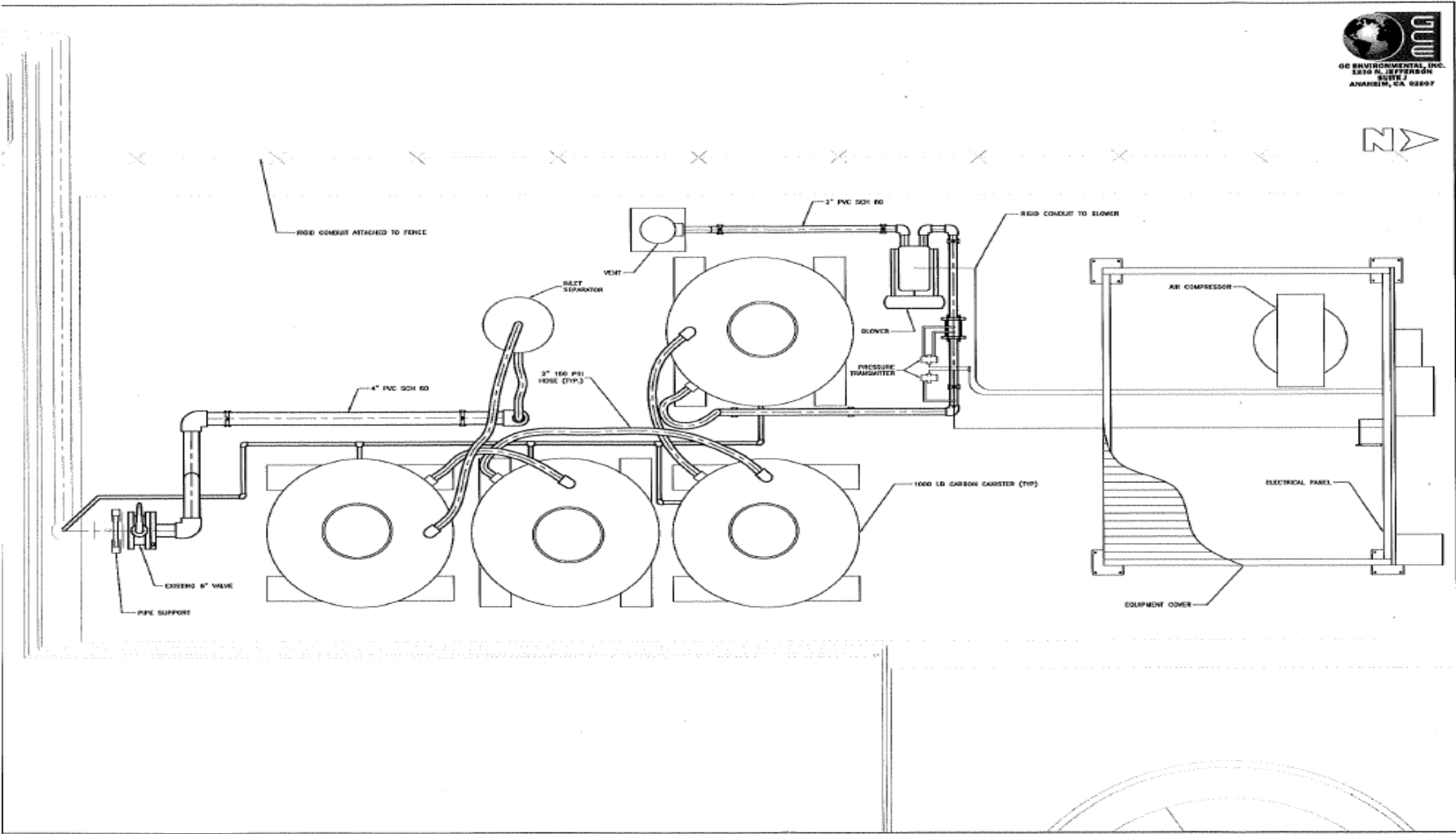
	Federally Enforceable Conditions	Reg/Rule
25.	<p><u>Right of Entry</u></p> <p>The source shall allow entry of District, CARB, or U.S. EPA officials for purpose of inspection and sampling, including:</p> <ul style="list-style-type: none"> A. Inspection of the stationary source, including equipment, work practices, operations, and emission-related activity; B. Inspection and duplication of records required by the permit to operate; and C. Source sampling or other monitoring activities. 	Reg. III, Rule 201.1
26.	<p><u>Permit Life</u></p> <p>The life of this permit shall be five years from the date of issuance.</p>	Reg. II, Rule 201.1 Section VI. B.15
27.	<p><u>Administrative Permit Amendment and Minor Permit Modification</u></p> <p>Administrative Permit Amendment and Minor Permit Modification are those actions taken by the District as defined in Rule 201.1.</p>	Reg. II, Rule 201.1
28.	<p><u>Applicability of Federally Enforceable Conditions</u></p> <p>Federally Enforceable Conditions <u>do not apply</u> to the following permit sections: Equipment Descriptions, and any Design Conditions, Operational Conditions, Special Conditions, or Compliance Testing Requirements designated as District only. Federally Enforceable Conditions <u>shall apply</u> to Design Conditions, Operational Conditions, Special Conditions, Compliance Testing Requirements, and Emission Limits except as noted above.</p>	Reg. II, Rule 201.1
29.	<p><u>Periodic Monitoring Non-Point</u></p> <p>Ridgecrest Recycling and Sanitary Landfill shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 for all non-point sources. This testing will be the basis for determining compliance with the visible emission standard in District Rule 401.</p> <p>If no emissions are observed utilizing Method 22, the non-point source shall be deemed to be in compliance with the visible emission standard. If emissions are observed from any non-point source and that source is not operating under breakdown condition as defined in and allowed for in District Rule 111, Ridgecrest Recycling and Sanitary Landfill shall conduct testing on that non-point source within 24 hours of the Method 22 testing in accordance with EPA Method 9 to verify compliance with the visible emission standard.</p>	

	NOTE: This requirement does not apply to fugitive emissions resulting from activities not covered by a permit to operate unless the source is subject to District Rule 210.1 (NSR) requirements.	
30.	<p><u>Periodic Monitoring Point</u></p> <p>Ridgecrest Recycling shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 for all point sources. This testing will be the basis for determining compliance with the visible emission standard in District Rule 401. If no emissions are observed utilizing Method 22, the point source shall be deemed to be in compliance with the visible emission standard. If emissions are observed from any point source and that point source is not operating under breakdown condition as defined in and allowed for in District Rule 111, Ridgecrest Recycling shall conduct testing on that point source:</p> <ul style="list-style-type: none"> A. Within 24 hours of the Method 22 testing in accordance with EPA Method 9 to verify compliance with the visible emission standard. If compliance is not documented: B. Within 30 days of the Method 9 testing in accordance with EPA Method 5 or 5D to verify compliance with the requirements of District Rules 404.1, 405, and/or 210.1. <p><u>Additional Monitoring</u></p> <p>All control equipment shall be inspected annually for proper operation. Ridgecrest Recycling shall maintain all records of control equipment maintenance for a period of five years.</p> <p>Monitoring shall be the responsibility of the source; however, a visible emissions inspection or Method 9 conducted by a District inspector may be counted as meeting the requirement for the source to conduct same if the information and records generated by the inspector meets the requirements of the permit and a copy of the records are maintained by the source for a period of five years.</p> <p>Record keeping provisions associated with all monitoring requirements shall include the following information:</p> <ul style="list-style-type: none"> A. Identification of stack or emission point being monitored; B. Operational conditions at the time of monitoring; 	

[illegible]

Ridgecrest Recycling and Sanitary Landfill





Ridgecrest Recycling and Sanitary Landfill

Emission Unit 004 Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
0027	004	Class III Sanitary Landfill

Emission Unit Equipment Description/Permit Conditions

Federally Enforceable Conditions

EQUIPMENT DESCRIPTION: Class III Sanitary Landfill (Ridgecrest), including following equipment:

- A. Landfill cells;
- B. Access roads;
- C. Borrow pits and/or dirt stockpiles;
- D. Earth moving equipment (permit exempt); and
- E. Gas monitoring probe.

Emission Unit 004 Permit Conditions

OPERATIONAL CONDITIONS:

- 1. Visible emissions at property line shall be less than 20% opacity except for, not more than three minutes in any one hour. (Rule 401)
- 2. during periods when reasonably available control measures cannot be employed, or are employed but are not effective. (Rule 401)
- 3. No emission shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any persons or have natural tendency to cause injury or damage to business or property. (CH&SC, Sec 41700 & Rule 419)
- 4. Category I and II asbestos containing material in good condition may be received and disposed, provided material is covered with at least 6 inches of non-asbestos containing cover prior to compaction activities. (Rule 423 and 40 CFR 61, Subpart M)
- 5. Landfill cover material shall be clean dirt unless alternative is approved by District prior to use. Clean dirt is defined as dirt that is free of contaminants, rocks, wood and trash. (Rule 210.1)
- 6. Landfill operation shall be subject to District PM₁₀ Fugitive Dust policy. (93-01)
- 7. Conformity with CCR 20540 and 20800 of Title 27 shall be maintained to maintain exemption provided in Rule 402. (Rule 402)

COMPLIANCE TESTING REQUIREMENTS:

Should visible emissions indicate non-compliance with dust collector emission limits, compliance with hourly and concentration emission limits for particulates shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request. (Rule 108.1)

Ridgecrest Recycling and Sanitary Landfill

Emission Unit 005C Permit Conditions

<u>Facility Number</u>	<u>Emissions Unit</u>	<u>Description of Source</u>
0027	005C	Landfill Gas Extraction and Disposal System

Emission Unit Equipment Description/Permit Conditions

Federally Enforceable Conditions

EQUIPMENT DESCRIPTION: Landfill Gas Extraction and Disposal System, including the following equipment:

Landfill Gas Extraction and Disposal System including:

- A. Landfill Gas (LFG) collection system,
- B. 3,000 gallon capacity blow-down water tank,
- C. Activated carbon adsorption VOC control system including 250 scfm regenerative blower with 5 hp motor and exhaust stack.

OPERATIONAL CONDITIONS:

1. Carbon canisters volume shall not be less than 8,600 cubic feet. (Rule 210.1 BACT Requirement)
2. Carbon canisters shall be equipped with non-condensable gas volumetric flow meter. (Rule 210.1)
3. Exhaust stack shall be equipped with adequate provisions for collection of samples consistent with EPA test methods (e.g. capped sample port in assessable location of uniform flow, etc.). (Rule 108.1)
4. Visible emissions from carbon canisters shall not equal or exceed 0% opacity for more than 5 minutes in any two hour period. (Rule 210.1 BACT Requirement)
5. Exhaust gas particulate matter concentration shall not exceed 0.1 grains/ft³ of gas at standard conditions. (Rule 404.1)
6. Condensate collected by LFG collection wells shall be disposed by transport to waste treatment facility or recycled into carbon canisters. (Rule 210.1)
7. VOC concentration from carbon canisters exhaust shall not exceed 4.4 ppmv (as hexane). (Rule 210.1)
8. Hydrogen sulfide (H₂S) concentration from carbon canisters exhaust shall not exceed 5 ppmv. (Rule 210.1)
9. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. (Rule 210.1 and Rule 209)
10. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 209)
11. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health or safety of any considerable number of persons or public. (Rule 419 and CH&SC 41700)

Ridgecrest Recycling and Sanitary Landfill

12. Landfill gas to carbon canisters shall not exceed 150 standard cubic feet per minute (scfm). (Rule 210.1)
13. Ridgecrest Sanitary Landfill current design capacity is 2.42 million megagrams. Kern County Waste Management Department (KCWMD) shall immediately notify EKAPCD if design capacity increases to 2.5 million megagrams. (Rule 422, Subparts Cc, and WWW)

STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

COMPLIANCE TESTING REQUIREMENTS:

Should inspection reveal conditions indicative of non-compliance, compliance with fabric collector emission limitations shall be verified, within 60 days of District request. (Rule 108.1)

EMISSION LIMITS:

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

Emission Unit 005 Permit Conditions

Carbon Canisters Exhaust :

<u>Volatile Organic Compounds (VOC):</u>	0.02	lb/hr
	0.36	lb/day
	0.07	tons/yr
<u>Hydrogen Sulfide (H₂S):</u>	0.01	lb/hr
	0.14	lb/day
	0.03	tons/yr

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209 and 210.1)

Appendix A

Facility is subject to the following subparts of the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart A and Subpart WWW, National Emissions Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR Part 61, Subpart M, 40 CFR Part 63, Subpart A and State Permit requirements as required by 40 CFR 70.5d. All requirements are listed in this Appendix Below:

- A. 40 CFR Part 60, Subpart A** (General Provisions of NSPS) – Provides definitions to be utilized in other parts of 40 CFR Part 60. Additionally, delegation status for NSPS for Eastern Kern County APCD is listed. No specific requirements for the facility are this Subpart. Ridgecrest Recycling is in compliance with 40 CFR Part 60, Subpart A.
- B. 40 CFR Part 60, Subpart WWW** (Standards of Performance for Municipal Solid Waste Landfills) – that commences construction, reconstruction or modification on or after May 30, 1991.
1. The provisions of this subpart apply to each municipal solid waste landfill that commenced construction, reconstruction or modification on or after May 30, 1991. Physical or operational changes made to an existing MSW landfill solely to comply with subpart Cc of this part are not considered construction, reconstruction, or modification for the purposes of this section.
 2. Each owner or operator of an MSW landfill having a design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume shall submit an initial design capacity report to the Administrator as provided in §60.757(a). The landfill may calculate design capacity in either megagrams or cubic meters for comparison with the exemption values. Any density conversions shall be documented and submitted with the report. Submittal of the initial design capacity report shall fulfill the requirements of this subpart except as provided for in paragraphs (a)(1) and (a)(2) of this section.
 - a. If the calculated NMOC emission rate is less than 50 megagrams per year, the owner or operator shall:
 - i. Submit an annual emission report to the Administrator, except as provided for in §60.757(b)(1)(ii); and
 - ii. Recalculate the NMOC emission rate annually using the procedures specified in §60.754(a)(1) until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.
 1. If the NMOC emission rate, upon recalculation required in paragraph (b)(1)(ii) of this section, is equal to or greater than 50 megagrams per year, the owner or operator shall install a collection and control system in compliance with paragraph (b)(2) of this section.
 2. If the landfill is permanently closed, a closure notification shall be submitted to the Administrator as provided for in §60.757(d).
 - iii. If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:
 1. Submit a collection and control system design plan prepared by a professional engineer to the Administrator within 1 year:

- a. The collection and control system as described in the plan shall meet the design requirements of paragraph (b)(2)(ii) of this section.
 - b. The collection and control system design plan shall include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of §§60.753 through 60.758 proposed by the owner or operator.
 - c. The collection and control system design plan shall either conform with specifications for active collection systems in §60.759 or include a demonstration to the Administrator's satisfaction of the sufficiency of the alternative provisions to §60.759.
 - d. The Administrator shall review the information submitted under paragraphs (b)(2)(i) (A),(B) and (C) of this section and either approve it, disapprove it, or request that additional information be submitted. Because of the many site-specific factors involved with landfill gas system design, alternative systems may be necessary. A wide variety of system designs are possible, such as vertical wells, combination horizontal and vertical collection systems, or horizontal trenches only, leachate collection components, and passive systems.
- iv. Install a collection and control system that captures the gas generated within the landfill as required by paragraphs (b)(2)(ii)(A) or (B) and (b)(2)(iii) of this section within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, as specified in §60.757(c)(1) or (2).
1. An active collection system shall:
 - a. Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;
 - b. Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of:
 - i. 5 years or more if active; or
 - ii. 2 years or more if closed or at final grade.
 - c. Collect gas at a sufficient extraction rate;
 - d. Be designed to minimize off-site migration of subsurface gas.
 2. A passive collection system shall:
 - a. Comply with the provisions specified in paragraphs (b)(2)(ii)(A)(1), (2), and (2)(ii)(A)(4) of this section.
 - b. Be installed with liners on the bottom and all sides in all areas in which gas is to be collected. The liners shall be installed as required under §258.40.

- v. Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.
 - 1. An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e);
 - 2. A control system designed and operated to reduce NMOC by 98 weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen. The reduction efficiency or parts per million by volume shall be established by an initial performance test to be completed no later than 180 days after the initial startup of the approved control system using the test methods specified in §60.754(d).
 - a. If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone.
 - b. The control device shall be operated within the parameter ranges established during the initial or most recent performance test. The operating parameters to be monitored are specified in §60.756;
 - i. Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.
 - vi. Operate the collection and control device installed to comply with this subpart in accordance with the provisions of §§60.753, 60.755 and 60.756.
 - vii. The collection and control system may be capped or removed provided that all the conditions of paragraphs (b)(2)(v) (A), (B), and (C) of this section are met:
 - 1. The landfill shall be a closed landfill as defined in §60.751 of this subpart. A closure report shall be submitted to the Administrator as provided in §60.757(d);
 - 2. The collection and control system shall have been in operation a minimum of 15 years; and
 - 3. Following the procedures specified in §60.754(b) of this subpart, the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.
3. For purposes of obtaining an operating permit under title V of the Act, the owner or operator of a MSW landfill subject to this subpart with a design capacity less than 2.5 million megagrams or 2.5 million cubic meters is not subject to the requirement to obtain an operating permit for the landfill under part 70 or 71 of this chapter, unless the landfill is otherwise subject to either part 70 or 71. For purposes of submitting a timely application for an operating permit under part 70 or 71, the owner or operator of a MSW landfill subject to this subpart with a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters, and not otherwise subject to either part 70 or 71, becomes subject to the requirements of §70.5(a)(1)(i) or

71.5(a)(1)(i) of this chapter, regardless of when the design capacity report is actually submitted, no later than:

- a. June 10, 1996 for MSW landfills that commenced construction, modification, or reconstruction on or after May 30, 1991 but before March 12, 1996;
 - b. Ninety days after the date of commenced construction, modification, or reconstruction for MSW landfills that commence construction, modification, or reconstruction on or after March 12, 1996.
4. When a MSW landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if either of the following conditions are met:
- a. The landfill was never subject to the requirement for a control system under paragraph (b)(2) of this section; or
 - b. The owner or operator meets the conditions for control system removal specified in paragraph (b)(2)(v) of this section.

F. 40 CFR Part 63, Subpart A (General Provisions of NESHAPs) – Provides applicability and definitions utilized in other parts of 40 CFR Part 63. No specific requirements for the facility are this Subpart. Ridgecrest Recycling and Sanitary Landfill is in compliance with 40 CFR Part 63, Subpart A.

G. 40 CFR Part 63, Subpart AAAA National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste – This subpart establishes national emissions standards for hazardous air pollutants for existing and new municipal (MSW) landfills.

1. This subpart requires all landfills to meet the requirements of 40 CFR part 60, subpart Cc or WWW and requires timely control of bioreactors. This subpart also requires such landfills to meet the startup, shutdown, and malfunction (SSM) requirements of the general provisions of this part and provides that compliance with the operating conditions shall be demonstrated by parameter monitoring results that are within the specified ranges. It also includes additional reporting requirements.
 - a. You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section:
 - i. Your MSW landfill is a major source as defined in 40 CFR 63.2 of subpart A.
 - ii. Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of subpart A.
 - iii. Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to §60.754(a) of the MSW landfills new source performance standards in 40 CFR part 60, subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan that applies to your landfill.
 - b. You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition, that includes a bioreactor, as defined in §63.1990, and that meets any one of the criteria in paragraphs (b)(1) through (3) of this section:

Ridgecrest Recycling and Sanitary Landfill

- i. Your MSW landfill is a major source as defined in 40 CFR 63.2 of subpart A.
 - ii. Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of subpart A.
 - iii. Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million Mg and 2.5 million m³ and that is not permanently closed as of January 16, 2003.
 - c. You are no longer required to comply with the requirements of this subpart when you are no longer required to apply controls as specified in 40 CFR 60.752(b)(2)(v) of subpart WWW, or the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR part 60, subpart Cc, whichever applies to your landfill.
 - d. You must fulfill one of the following requirements:
 - i. Comply with the requirements of 40 CFR part 60, subpart WWW.
 - ii. Comply with the requirements of the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR part 60, subpart Cc.
- I. **40 CFR 70.5d** (State Operating Permit Program) – Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Agency Notifications

All correspondence as required by this Approval to Construct/Modify shall be forwarded to:

- A. Director, Air Division (Attn: AIR-3)
U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105
- B. Chief, Stationary Source Division
California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812
- C. Air Pollution Control Officer
Eastern Kern Air Pollution Control District
2700 M Street, Suite 302
Bakersfield, CA 93301

Appendix B**Compliance Air Monitoring (CAM)**

In accordance with 40 CFR Part 64 Section 64.2,(b)(i), landfill and scrubber are emissions units not subject to Section 112 (National Emission Standards for Hazardous Air Pollutants) of the Clean Air Act proposed after 1990. Therefore, a CAM plan is not required and the following is added as reference.

Emissions Unit Equipment No.	0027004	
Equipment Description	Landfill Gas Collection System	
Uncontrolled Emissions	Pollutant	Potential to Emit (tons/year)
	VOC	3.5
Control Equipment	Scrubber	
Controlled Emissions	Pollutant	Potential to Emit (tons/year)
	VOC	0.07
Monitoring Procedures	EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills)	

Emissions Unit Equipment No.	0027005C	
Equipment Description	Landfill Gas Collection Control System	
Uncontrolled Emissions	Pollutant	Potential to Emit (tons/year)
	H ₂ S	0.3
Control Equipment	Fabric Collectors	
Controlled Emissions	Pollutant	Potential to Emit (tons/year)
	H ₂ S	0.3
Monitoring Procedures	EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills)	

Appendix C

Greenhouse Gas Facility Wide Reporting

Greenhouse Gases:

Carbon dioxide (CO₂),
Nitrous oxide (N₂O),
Methane (CH₄),
Hydrofluorocarbons (HFCs),
Perfluorocarbons (PFCs), and
Sulfur Hexafluoride (SF₆).

Reported for the year 2009

GHG EMISSIONS (short tons per year)							
Pollutants:	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	Total
Emissions (tpy):	0	121	0	0	0	0	
*GWP:	1	21	310	**	**	23,900	
CO ₂ e (tpy):	0	2,667	0	0	0	0	2,667

*Global Warming Potential (GWP): The capacity to heat the atmosphere, calculated as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram (kg) of a substance relative to that of 1 kg of CO₂. GWP shall be calculated according to the factors for a 100-year time horizon, as stated in 40 CFR Part 98 Subpart A Table A-1 (Global Warming Potentials).

** GWP varies based on each pollutant.

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