

# Bay Area Air Quality Management District

939 Ellis Street  
San Francisco, CA 94109  
(415) 771-6000

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## Proposed

# MAJOR FACILITY REVIEW PERMIT

Issued To:  
**City of Mountain View (Shoreline)**  
**Facility #A2740**

**Facility Address:**  
2600 Shoreline Boulevard  
Mountain View, CA 94043

**Mailing Address:**  
P. O. Box 7540  
Mountain View, CA 94039

**Responsible Official**  
Kevin C. Duggan  
City Manager  
650-903-6301

**Facility Contact**  
John T. Welbourn  
Environmental Engineering Manager  
650-903-6219

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**Type of Facility:** Landfill  
**Primary SIC:** 4953  
**Product:** Closed Solid Waste Disposal Facility

BAAQMD Permit Division Contact:  
Carol S. Allen

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

\_\_\_\_\_  
William C. Norton, Executive Officer/Air Pollution Control Officer

\_\_\_\_\_  
Date

**Draft**

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Application # 2620  
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## I. STANDARD CONDITIONS

### A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

- BAAQMD Regulation 1 - General Provisions and Definitions  
(as amended by the District Board on 5/2/01);
- SIP Regulation 1 - General Provisions and Definitions  
(as approved by EPA through 6/28/99);
- BAAQMD Regulation 2, Rule 1 - Permits, General Requirements  
(as amended by the District Board on 8/1/01);
- SIP Regulation 2, Rule 1 - Permits, General Requirements  
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 2 - Permits, New Source Review  
(as amended by the District Board on 5/17/00);
- SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration  
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking  
(as amended by the District Board on 5/17/00);
- SIP Regulation 2, Rule 4 - Permits, Emissions Banking  
(as approved by EPA through 1/26/99); and
- BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review  
(as amended by the District Board on 5/2/01).

### B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on [ ] and expires on [when issued, enter 5<sup>th</sup> anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after [when issued, enter 5<sup>th</sup> anniversary of issue date].** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any

## I. Standard Conditions

- term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
  5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
  6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
  7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
  8. Any records required to be maintained pursuant to this permit that the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
  9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
  10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
  11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

## **I. Standard Conditions**

The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

### **C. Requirement to Pay Fees**

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

### **D. Inspection and Entry**

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment that is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

### **E. Records**

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

### **F. Monitoring Reports**

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [\_\_\_\_ 1st through \_\_\_\_ 30th or 31st] and [\_\_\_\_ 1st through \_\_\_\_ 30th or 31st], and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement  
Bay Area Air Quality Management District

## I. Standard Conditions

939 Ellis Street  
San Francisco, CA 94109  
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

### G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be \_\_\_\_\_ 1st to \_\_\_\_\_ 30th or 31st. The certification shall be submitted by \_\_\_\_\_ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division  
USEPA, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105  
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

### H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP

## **I. Standard Conditions**

Volume II, Part 3, §4.8)

3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

### **I. Severability**

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

### **J. Miscellaneous Conditions**

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

## II. EQUIPMENT

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-1	Landfill (includes the 544-acre Landfill, Crittenden Landfill and the major portion of the Vista Landfill)  Landfill Gas Collection System	Closed Solid Waste Disposal Site  Active		Maximum Design Capacity: 18,852,000 yd <sup>3</sup> (14,413,400 m <sup>3</sup> ); Maximum Cumulative Waste In Place: 12,725,000 tons; 7 horizontal collectors 264 vertical wells
S-11	Diesel Engine for Emergency Standby Generator	Cummins	6CTA8.3 G-2	207 bhp, 506 in <sup>3</sup> , 10.6 gallons/hour of diesel oil, 1.453 MM BTU/hour
S-12	Microturbine, landfill gas fired (not installed yet)	Ingersoll-Rand	70LM	71 kW nominal, 92 kW maximum at 0 °F, 1.27 MM BTU/hour
S-13	Microturbine, landfill gas fired (not installed yet)	Ingersoll-Rand	70LM	71 kW nominal, 92 kW maximum at 0 °F, 1.27 MM BTU/hour



## II. Equipment

**Table II B - Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-3	Landfill Gas Flare (33 MM BTU/hour)	S-1	BAAQMD 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of: 1400 °F (3-hour average), see also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH <sub>4</sub> , at 3% O <sub>2</sub> , dry
A-4	Landfill Gas Flare (48 MM BTU/hour)	S-1	BAAQMD 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of: 1400 °F (3-hour average), see also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH <sub>4</sub> , at 3% O <sub>2</sub> , dry
A-5	Landfill Gas Flare (48 MM BTU/hour)	S-1	BAAQMD 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of: 1400 °F (3-hour average), see also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH <sub>4</sub> , at 3% O <sub>2</sub> , dry

### III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9’s website. The address is included at the end of this permit.

**NOTE:**

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District’s revision of the regulation.

**Table III  
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N

### III. Generally Applicable Requirements

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	N
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (2/18/98)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02)	N
SIP Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/02)	N
SIP Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (12/9/94)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	Y
BAAQMD 8-40-116	Exemption, Small Volume	Y
BAAQMD 8-40-117	Exemption, Accidental Spills	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants - Asbestos Containing Serpentine (7/17/91)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N

### III. Generally Applicable Requirements

**Table III**  
**Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit. All other text may be found in the regulations themselves.

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/2001)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (6/28/1999)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y <sup>1</sup>	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
1-523.3	Reports of Violations	Y <sup>1</sup>	
1-523.5	Maintenance and Calibration	Y <sup>1</sup>	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation (applies to A-3, A-4, and A-5 Flares only)	Y	
6-305	Visible Particles (applies to A-3, A-4, and A-5 Flares only)	Y	
6-310	Particle Weight Limitation (applies to A-3, A-4, and A-5 Flares only)	Y	
6-401	Appearance of Emissions (applies to A-3, A-4, and A-5 Flares only)	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds – Solid Waste Disposal Sites (10/6/1999)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-117	Limited Exemption, Gas Collection System Components	Y	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	Y	
8-34-117.2	New Components are Described in Collection and Control System Design Plan	Y	
8-34-117.3	Meets Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
8-34-118.1	Construction Plan	Y	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4	Emission Minimization Requirement	Y	
8-34-118.5	Excavated Refuse Requirements	Y	
8-34-118.6	Covering Requirements for Exposed Refuse	Y	
8-34-118.7	Installation Time Limit	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-118.8	Capping Required for New Components	Y	
8-34-118.9	Construction Activity Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares (applies to A-3, A-4, and A-5 Flares only)	Y	
8-34-303	Landfill Surface Requirements	Y	
8-34-304	Gas Collection System Installation Requirements	Y	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	Y	
8-34-304.4	Based on NMOC Emission Rate	Y	
8-34-305	Wellhead Requirements	Y	
8-34-305.1	Operate Under Vacuum	Y	
8-34-305.2	Temperature < 55 °C (except as specified in Condition # 16065, Part 5)	Y	
8-34-305.3	Nitrogen < 20% or (except as specified in Condition # 16065, Part 5)	Y	
8-34-305.4	Oxygen < 5% (except as specified in Condition # 16065, Part 5)	Y	
8-34-405	Design Capacity Reports	Y	
8-34-408	Collection and Control System Design Plans	Y	
8-34-408.2	Sites With Existing Collection and Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-414	Repair Schedule for Wellhead Excesses	Y	
8-34-414.1	Records of Excesses	Y	
8-34-414.2	Corrective Action	Y	
8-34-414.3	Collection System Expansion	Y	
8-34-414.4	Operational Due Date for Expansion	Y	
8-34-415	Repair Schedule for Surface Leak Excesses	Y	
8-34-415.1	Records of Excesses	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-415.2	Corrective Action	Y	
8-34-415.3	Re-monitor Excess Location Within 10 Days	Y	
8-34-415.4	Re-monitor Excess Location Within 1 Month	Y	
8-34-415.5	If No More Excesses, No Further Re-Monitoring	Y	
8-34-415.6	Additional Corrective Action	Y	
8-34-415.7	Re-monitor Second Excess Within 10 days	Y	
8-34-415.8	Re-monitor Second Excess Within 1 Month	Y	
8-34-415.9	If No More Excesses, No Further Re-monitoring	Y	
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	Y	
8-34-415.11	Operational Due Date for Expansion	Y	
8-34-416	Cover Repairs	Y	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors (applies to A-3, A-4, and A-5 Flares only)	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-506.1	Criteria for Annual Monitoring: Closed Landfill	Y	
8-34-506.2	Criteria for Annual Monitoring: No Excess in 3 Quarters	Y	



#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-506.3	Criteria for Annual Monitoring: Revert to Quarterly Monitoring if an Excess is Detected	Y	
8-34-507	Continuous Temperature Monitor and Recorder (applies to A-3, A-4, and A-5 Flares only)	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)</b>		
9-1-301	Limitations on Ground Level Concentrations (applies to A-3, A-4, and A-5 Flares only)	Y	
9-1-302	General Emission Limitations (applies to A-3, A-4, and A-5 Flares only)	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/1999)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/1998)</b>		
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.13(b)	Monitors shall be installed and operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/1999)</b>		
60.36c(a)	Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
<b>40 CFR Part 62</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)</b>		
62.1115	Identification of Sources	Y	
<b>40 CFR Part 63, Subpart A</b>	<b>National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/1994)</b>		
63.4	Prohibited activities and circumvention	Y	1/16/04
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	1/16/04
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	1/16/04
63.6(f)	Compliance with non-opacity emission standards	Y	1/16/04
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	1/16/04
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	1/16/04
<b>40 CFR Part 63, Subpart AAAA</b>	<b>National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/2003)</b>		

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	1/16/04
63.1955	What requirements must I meet?	Y	1/16/04
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	1/16/04
63.1960	How is compliance determined?	Y	1/16/04
63.1965	What is a deviation?	Y	1/16/04
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	1/16/04
63.1980	What records and reports must I keep and submit?	Y	1/16/04
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	1/16/04
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	1/16/04
<b>BAAQMD Condition # 16065</b>			
Part 1	Design capacity and waste acceptance limits (Regulation 2-1-301)	Y	
Part 2	Landfill gas control system requirements (Regulation 8-34-301)	Y	
Part 3	Landfill gas collection system operating requirements (Regulation 8-34-301.1)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 4	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, and 8-34-305)	Y	
Part 5	Alternative well head requirements limits for specific wells (Regulation 8-34-305)	Y	
Part 6	Alarm and equipment requirements for flares (Regulation 8-34-301)	Y	
Part 7	Combustion zone temperature limits for flares (Toxic Risk Management Policy and Regulations 8-34-301.3)	Y	
Part 8	Landfill gas flow rate limit for flares (Cumulative Increase)	Y	
Part 9	NOx emission limits for flares (Cumulative Increase)	Y	
Part 10	CO emission limits for flares (Cumulative Increase)	Y	
Part 11	Vinyl chloride emission limit for flares (Toxic Risk Management Policy)	N	
Part 12	Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302)	Y	
Part 13	Annual source test requirements (Cumulative Increase, Toxic Risk Management Policy, and Regulations 8-34-301.3 and 8-34-412)	Y	
Part 14	Annual landfill gas characterization analyses (Toxic Risk Management Policy and Regulation 8-34-412)	Y	
Part 15	Record keeping requirements (Cumulative Increase and Regulations 2-1-301, 2-6-501, 8-34-301, 8-34-303, 8-34-305, 8-34-412, 8-34-414, 8-34-415, 8-34-501, 8-34-503, 8-34-505, 8-34-506, and 9-1-302)	Y	
Part 16	Reporting periods and report submittal due dates for the Regulation 8, Rule 34 report (Regulation 8-34-411 and 40 CFR 63.1980(a))	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – B**  
**Source-Specific Applicable Requirements**  
**S-11 DIESEL ENGINE FOR EMERGENCY STANDBY GENERATOR**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-303	Ringelmann No. 2 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Liquid and Solid Fuels	Y	
<b>BAAQMD Regulation 9 Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/2001)</b>		
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	For Emergency Use	N	
9-8-330.2	For Reliability-Related Activities	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
9-8-530.1	Hours of Operation (total)	N	
9-8-530.2	Hours of Operation (emergency)	N	
9-8-530.3	Nature of Each Emergency Condition	N	
<b>BAAQMD Condition # 19210</b>			
Part 1	Hours of Operation Limitations (Regulation 9-8-330)	N	
Part 2	Definition of Emergency Conditions (Regulation 9-8-231)	N	
Part 3	Definition of Reliability-Related Activities (Regulation 9-8-232)	N	
Part 4	Meter Requirements (Regulation 9-8-530)	N	
Part 5	Records (Regulations 9-1-304 and 9-8-530)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/2001)</b>		Upon Initial Startup of S-12 or S-13
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (6/28/1999)</b>		Upon Initial Startup of S-12 or S-13
1-523	Parametric Monitoring and Recordkeeping Procedures	Y <sup>1</sup>	
1-523.3	Reports of Violations	Y <sup>1</sup>	
1-523.5	Maintenance and Calibration	Y <sup>1</sup>	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		Upon Initial Startup of S-12 or S-13
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds - Solid Waste Disposal Sites (10/6/99)</b>		Upon Initial Startup of S-12 or S-13
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameter Monitoring	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameter(s)	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)</b>		Upon Initial Startup of S-12 or S-13
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/1999)</b>		Upon Initial Startup of S-12 or S-13
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/1998)</b>		Upon Initial Startup of S-12 or S-13
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/1999)</b>		Upon Initial Startup of S-12 or S-13
60.36c(a)	Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
<b>40 CFR Part 62</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)</b>		Upon Initial Startup of S-12 or S-13
62.1115	Identification of Sources	Y	
<b>40 CFR Part 63, Subpart A</b>	<b>National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/1994)</b>		Upon Initial Startup of S-12 or S-13 or Date Noted Below for Individual Sections, Whichever is Later
63.4	Prohibited activities and circumvention	Y	1/16/04



#### IV. Source-Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	1/16/04
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	1/16/04
63.6(f)	Compliance with non-opacity emission standards	Y	1/16/04
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	1/16/04
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	1/16/04
<b>40 CFR Part 63, Subpart AAAAA</b>	<b>National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/2003)</b>		Upon Initial Startup of S-12 or S-13 or Date Noted Below for Individual Sections, Whichever is Later
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	1/16/04
63.1955	What requirements must I meet?	Y	1/16/04
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	1/16/04
63.1960	How is compliance determined?	Y	1/16/04
63.1965	What is a deviation?	Y	1/16/04
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	1/16/04
63.1980	What records and reports must I keep and submit?	Y	1/16/04

#### IV. Source-Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	1/16/04
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	1/16/04
<b>BAAQMD Condition # 20297</b>			Upon Initial Startup of S-12 or S-13
Part 1	Landfill Gas Flow Rate Limit and Monitoring Requirements (Cumulative Increase, Offsets, and 2-1-301)	Y	
Part 2	NOx Emissions Limit (Offsets)	Y	
Part 3	CO Emissions Limit (Cumulative Increase)	Y	
Part 4	NMOC Emissions Limit (Offsets and Regulation 8-34-301.4)	Y	
Part 5	Temperature Monitoring Device Requirement (Regulation 8-34-509)	Y	
Part 6	Source Testing Requirements (Cumulative Increase, Offsets, and Regulations 8-34-301.4 and 8-34-412)	Y	
Part 7	Temperature Limit and Monitoring Requirements (Regulation 8-34-509)	Y	
Part 8	Records (Regulations 2-6-501, 8-34-301.4, 8-34-412, 8-34-501.11, and 8-34-501.12)	Y	

## **V. SCHEDULE OF COMPLIANCE**

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

## VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

#### ——— Conditions for S-1

1. The S-1 Landfill is closed. The Permit Holder shall apply for and receive a Change of Permit Conditions before accepting any solid waste for disposal at S-1. The total cumulative amount of all wastes placed in the landfill areas controlled by the Permit Holder shall not exceed 12,725,000 tons. The maximum design capacity of the landfill (total volume of all wastes and cover materials placed in the landfill area controlled by the Permit Holder, excluding final cover) shall not exceed 18,852,000 cubic yards. (Basis: Regulation 2-1-301)
- ~~12.~~ All landfill gas collected by the Landfill Gas Collection Systems for S-1 shall be abated by the Landfill Gas Flares (A-3, A-4, or A-5). Upon installation of the S-12 or S-13 Microturbines, landfill gas may be vented to S-12 or S-13 in addition to A-3, A-4, or A-5. Raw or untreated landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair (which is performed in compliance with Regulation 8, Rule 34, Sections 113, 117, and/or , 118) and inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (Basis: Regulation 8-34-301)
- ~~23.~~ The landfill gas collection system described below in Part ~~3-a-4a~~ shall be operated continuously, as defined in Regulation 8-34-219. Wells and adjustment valves shall not be disconnected, or removed, nor shall isolation or adjustment valves be or completely closed, without prior written authorization from the District, unless the Permit Holder Complies with all applicable provisions of Regulation 8, Rule 34, Sections 113, 117, and 118. (Basis: Regulation 8-34-301.1)
- ~~34.~~ The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described in Part ~~3-a-4a~~ below. Increasing or decreasing the number of wells or collectors, ~~or significantly~~ changing the length of collectors, or changing the locations of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.

## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

- a. The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in Permit Application # 1009.

<u>Area Description</u>	<u>Required Components</u>
544 Acre Site	140 vertical wells
544 Acre Site	6 horizontal collectors
Vista Site	88 vertical wells
Vista Site	1 horizontal collector
Crittenden Site	36 vertical wells

(Basis: Regulations 8-34-301.1, and 8-34-303, 8-34-304, and 8-34-305)

5. The gas collection system operating requirements listed below shall replace the well head requirements identified in Regulation 8-34-305.2 through 8-34-305.4 for the specified wells and collectors. All wells and collectors remain subject to the Regulation 8-34-305.1 requirement to maintain vacuum on each well head. In addition, part 5c clarifies the applicable limits for vaults containing gas collection system components. (Basis: Regulations 8-34-301.2, 8-34-303, and 8-34-305)

- a. The Regulation 8-34-305.2 temperature limit shall not apply to the wells listed below. The landfill gas temperature in each of the wells listed below shall not exceed 140 degrees F.

Vista Landfill: VE-6, VE-9, VF-3, VF-11, VG-3, VG-3A, VG-4, VH-4, VH-5, VH-10, VJ-3, and VJ-4 (12 wells)

- b. The Regulation 8-34-305.3 nitrogen concentration limit and the Regulation 8-34-305.4 oxygen concentration limit shall not apply to the wells listed below, provided that the oxygen concentration in the landfill gas at the main header does not exceed 5% O<sub>2</sub> by volume (dry basis) and the methane concentration in the landfill gas at the main header is not less than 35% CH<sub>4</sub> by volume (dry basis). The permit holder shall monitor the landfill gas from the main header for oxygen and methane on a monthly to demonstrate compliance with this part.

Crittenden Landfill: CRA-1, CRA-2R, CRA-3, CRA-4, CRA-5R, CRA-6, CRA-7, CRA-8, CRA-9, CRA-10, CRA-13, CRB-1, CRB-2, CRB-3, CRB-4, CRB-5, CRB-6, CRB-7R, CRB-8, CRD-1, CRD-3, CRD-5, CRD-8, CRD-9, CRD-10, and CRD-11 (26 vertical wells)

## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

Vista Landfill: VA-HZ, VA-1, VA-01A, VA-2, VA-3, VA-3A, VA-4, VB-1, VB-2R, VB-3A, VB-4, VB-5R, VB-5A, VB-6, VB-7, VB-8, VC-1, VC-2, VC-3, VC-5, VC-6, VC-7, VC-8, VE-1, VE-4R, VE-5, VE-6, VE-7, VE-8, VE-9, VE-10, VF-1, VF-2, VF-4, VF-5R, VF-7, VF-8R, VH-3, VJ-2R, VJ-3R, VJ-4A, VJ-4R, VJ-5R, VJ-6, VJ-7R, VJ-8R, VJ-9R, VJ-10, VJ-11R, VK-3, VK-4, VK-5 (1 horizontal collector and 51 vertical wells)

544-Acre Landfill: WA-1, WA-5, WA-6, WA-8, WA-9, WA-13, WA-14, WA-16, WA-18, WA-20, WA-21, WA-22, WA-25, WA-26, WA-27, WA-28, WA-29, WB-1, WB-2, WB-3, WB-4, WB-5, WB-5A, WB-6, WB-6A, WB-7, WB-7A, WB-8, WB-9, WB-10, WB-11, WB-12, WB12-A, WB-16, WB-17, WD-3, WN-1, WN-2, WN-3R, WN-4, WN-4A, WN-5, WN-6, WN-7, WN-8, WN-9, WN-10, WN-11, WN-12, WN-13 (50 vertical wells)  
A-16, B-2, B-3, B-20, B-24, B-28, Y-01, Y-02, Y-03, Y-04, Y-05, Y-06, LE-1, LE-2, LE-3, LE-4, FHZ-1, FHZ-2, FHZ-3, FHZ-4, FHZ-5, and MPHZ (6 horizontal collectors and 16 vertical wells)  
NEA-01, NEA-02, NEA-03, NEA-04, NEA-05, NEA-06, NEA-07, NEA-09, NEA-11, NEA-13, NEA-15, NEA-16, NEB-01, NEB-02, NEB-03, NEB-04, NEB-05, NEB-06, NEB-08, NEB-10, NEB-11, NEB-12, NEB-13, NEC-01, NEC-02, NEC-03, NEE-02, NEE-03, NEE-04, and NEE-05 (30 vertical wells)

- c. This subpart applies to vaults containing gas collection system equipment, where the top of the vault is located at or near the surface of the landfill. The vault shall be monitored at both 1 cm from the vault (for comparison to the component leak limit of Regulation 8-34-301.2) and 2 inches above the vault (for comparison to the surface leak limit of Regulation 8-34-303).

## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

- i. If during an inspection the District's monitored readings show compliance with both the component leak limit and the surface leak limit, the vault and components within shall be deemed to be in compliance with Regulations 8-34-301.2 and 8-34-303. No further testing is necessary.
- ii. If the District's monitored readings show an excess of either the component leak limit or the surface leak limit, the operator shall comply with the Regulation 8-34-415 Repair Schedule for Landfill Surface Leak Excesses, until the source of the leak can be identified. The vault shall be opened and allowed to air out for at least 10 minutes. The collection system components within the vault shall be re-monitored at 1 cm from the components and the landfill surface surrounding the vault shall be re-monitored at 2 inches above the surface.
- iii. If the re-monitoring (after airing the vault for 10 minutes) shows no component leaks and no surface leaks, the vault and components within shall be deemed to be in compliance with Regulations 8-34-301.2 and 8-34-303.
- iv. If the re-monitoring shows a component leak, or the operator's further evaluation determines that the source of the emissions excess was a collection system component, then a violation of 8-34-301.2 shall be deemed to have occurred; and the operator shall take all necessary corrective action and shall comply with all applicable reporting requirements.
- v. If the re-monitoring shows a surface leak but not a component leak, the operator shall continue to comply with all applicable provisions of the Regulation 8-34-415 Repair Schedule for Landfill Surface Leak Excesses.

~~Conditions for A-3, A-4, and A-5~~

1. ~~Under no circumstances shall raw landfill gas be vented to the atmosphere.  
(Basis: 8-34-301)~~

## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

- ~~2. A temperature monitor with readout display and continuous recorder shall be installed and maintained on each flare (A-3, A-4, and A-5). One or more thermocouples shall be placed in the primary combustion zone of the flares and shall accurately indicate flare combustion temperature at all times. (Basis: Toxic Risk Management Policy and 8-34-507)~~
76. Each flare shall be equipped with auto restart capability and both local and remote alarm systems. (Basis: 8-34-301.1)
37. The combustion zone temperature of the each flares (A-3, A-4, and A-5) shall be maintained at a minimum of 1400 degrees F with a residence time of at least 0.3 seconds, averaged over any three-hour period. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO will revise the minimum combustion zone temperature limit in accordance with the procedures identified in Regulation 2-6-406 and the following criteria. The minimum combustion zone temperature for a flare shall be equal to the average combustion zone temperature measured during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature shall not be less than 1400 degrees F. (Basis: Toxic Risk Management Policy and Regulation 8-34-301.3)
- ~~4. Each flare (A-3, A-4, and A-5) shall maintain a destruction efficiency of at least 98% by weight for organic compounds and methane. (Basis: 8-34-301.3)~~
- ~~5. A flow meter to measure gas flow into the flares shall be installed and maintained in good working condition. (Basis: 8-34-301)~~
68. The total gas flow rate to the flares shall not exceed 4200 cfm, averaged over any calendar day. (Basis: Cumulative Increase)
9. Nitrogen oxide (NOx) emissions from the flares shall not exceed the concentration limits listed below. (Basis: Cumulative Increase)
  - a. For A-3: 33 ppmv of NOx, corrected to 15% oxygen, dry basis.
  - b. For A-4: 15 ppmv of NOx, corrected to 15% oxygen, dry basis.
  - c. For A-5: 15 ppmv of NOx, corrected to 15% oxygen, dry basis.



## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

10. Carbon monoxide (CO) emissions from the flares shall not exceed the concentration limits listed below. (Basis: Cumulative Increase)
  - a. For A-3: 21 ppmv of CO, corrected to 15% oxygen, dry basis.
  - b. For A-4: 83 ppmv of CO, corrected to 15% oxygen, dry basis.
  - c. For A-5: 83 ppmv of CO, corrected to 15% oxygen, dry basis.
  
- ~~8. The concentration of total chlorinated hydrocarbons at any flare stack shall not exceed 8 ppmv. (Basis: Toxic Risk Management Policy)~~
  
- ~~9\*11.~~ If the vinyl chloride concentration at any flare stack exceeds 48,000 ~~ppbv~~ ppmv, the ~~owner/operator~~ Permit Holder shall submit a request to the District for a Change of Permit Conditions within 30 days of receipt of the source test results. (Basis: Toxic Risk Management Policy)
  
12. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in control system's exhaust. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry). In order to demonstrate compliance with this part, the Permit Holder shall measure the total sulfur content as hydrogen sulfide in collected landfill gas on a quarterly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (Basis: Regulation 9-1-302)
  
13. In order to demonstrate compliance with Parts 7-11 above and Regulation 8, Rule 34, Sections 301.3 and 412, the Permit Holder shall ensure that a District approved source test is conducted annually on each flare (A-3, A-4, and A-5). Each annual source test shall determine the following:
  - a. landfill gas flow rate to the flare (dry basis);
  - b. concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), total hydrocarbons (THC), methane (CH<sub>4</sub>), and total non-methane organic compounds (NMOC) in the landfill gas;
  - c. stack gas flow rate from the flare (dry basis);
  - d. concentrations (dry basis) of NO<sub>x</sub>, CO, THC, CH<sub>4</sub>, NMOC, vinyl chloride, and O<sub>2</sub> in the flare stack gas;

## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

- e. the NMOC destruction efficiency achieved by the flare; and
- f. the average combustion zone temperature in the flare during the test period.

Each annual source test shall be conducted no earlier than 9 months and no later than 12 months after the previous annual source test. The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and the Source Test Section within 45 days of the test date.  
(Basis: Cumulative Increase, Toxic Risk Management Policy, and Regulations 8-34-301.3 and 8-34-412)

- 14. The Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by Part 13 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in Part 13b, the landfill gas shall be analyzed for all the organic compounds listed in the most recent version of EPA's AP-42 Table 2.4-1. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. After conducting three annual landfill gas characterization tests, the Permit Holder may request to remove specific compounds from the list of compounds to be tested, if the compounds have not been detected, have no significant impact on the cancer risk determination for the site, and have no significant impact on the hazard index determination for the site. (Basis: Toxic Risk Management Policy and Regulation 8-34-412)
- ~~10. The owner/operator of the Flares (A-3, A-4, A-5) shall maintain records landfill gas flow rate, gas characterization analyses, emission rate and destruction efficiency tests, flare combustion temperatures, and the dates, times, and durations of all emission control system shutdowns. These records shall be kept on site for a minimum of two years and shall be made available to District personnel upon request. (Basis: Cumulative Increase, Toxic Risk Management Policy, and 8-34-501)~~

## VI. Permit Conditions

### Condition # 16065

**FOR: S-1, LANDFILL AND GAS COLLECTION SYSTEM; A-3, LANDFILL GAS FLARE;  
A-4, LANDFILL GAS FLARE; AND A-5, LANDFILL GAS FLARE;**

15. In order to demonstrate compliance with the above conditions, the Permit Holder shall:

- a. Maintain an accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to Part 4a;
- b. Record the initial startup date for any wells or collectors installed in accordance with 4b-c;
- c. Maintain records of all test dates and test results performed to maintain compliance with Parts 12-14 above, Regulations 8-34-301, 8-34-303, 8-34-305, 8-34-412, 8-34-414, and 8-34-415, or any other applicable rule or regulation.

All records shall be maintained on site in an APCO approved logbook or shall be made readily available to District staff upon request for a period of at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations. (Basis: Cumulative Increase and Regulations 2-1-301, 2-6-501, 8-34-301, 8-34-303, 8-34-305, 8-34-412, 8-34-414, 8-34-415, 8-34-501, 8-34-503, 8-34-505, 8-34-506, and 9-1-302)

16. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments. The reporting period for the first increment of the Regulation 8-34-411 annual report that is submitted subsequent to the issuance of the MFR Permit for this site shall be from December 1, 2002 through [last day of the month that is 6 months after MFR Permit issuance date]. This first increment report shall be submitted by [last day of the month following the end of the reporting period]. The reporting periods and report submittal due dates for all subsequent increments of the Regulation 8-34-411 report shall be synchronized with the reporting periods and report submittal due dates for the semi-annual MFR Permit monitoring reports that are required by Section I.F. of the MFR Permit for this site. (Basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

## VI. Permit Conditions

### Condition # 19210

#### FOR: S-11, DIESEL ENGINE FOR EMERGENCY STANDBY GENERATOR;

- \*1. Hours of Operation: The emergency standby generator, S-11, shall only be operated for emergency use or for reliability-related activities. ~~No time limit is imposed on the operation for reliability-related activities for S-11.~~ In accordance with Regulation 9-8-330.2, S-11 shall not be operated for more than 100 hours in a calendar year for reliability-related activities. Operation for emergency use is unlimited. (Basis: Regulation 9-8-330 and ~~district~~ Toxic Risk Management Policy)
- \*2. Emergency use is defined as the use of an emergency standby engine during any of the following: (Basis: Regulation 9-8-231)
- In the event of loss of regular natural gas supply;
  - In the event of failure of regular electric power supply;
  - Flood mitigation;
  - Sewage overflow mitigation;
  - Fire;
  - Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.
- \*3. Reliability-related activities ~~is~~ are defined as the use of an emergency standby engine during any of the following: (Basis: Regulation 9-8-232)
- Operation of an emergency standby engine to test its ability to perform for an emergency use;
  - Operation of an emergency standby engine during maintenance of a primary motor.
- \*4. Monitoring: Each emergency standby engine shall be equipped with either: (Basis: Regulation 9-8-530)
- A non-resettable totalizing meter that measures and records hours of operation.
  - A non-resettable fuel usage meter
- ~~5. Record keeping: All records shall be kept for at least two years, and shall be available for inspection by District staff upon request. The operator shall keep a monthly log of usage that shall indicate the following: (Basis: 9-8-530, 1-441)~~
- ~~Hours of operation (total)~~
  - ~~Hours of operation (emergency) and the nature of the emergency condition.~~

## VI. Permit Conditions

### Condition # 19210

#### FOR: S-11, DIESEL ENGINE FOR EMERGENCY STANDBY GENERATOR;

5. Records: The Permit Holder shall maintain the following records in an APCO-approved log:
- \*a. Monthly records of the total hours of operation for this engine.
  - \*b. Monthly records of any hours of operation for emergency conditions.
  - \*c. For each emergency, describe the nature of the emergency condition.
  - d. Records of the vendor-certified sulfur content for all fuels burned in this engine.

All records shall be kept on site for at least five years from the date of entry and shall be made available for District inspection upon request. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations. (Basis: Regulations 9-1-304 and 9-8-530)

## VI. Permit Conditions

### Condition # 20297

#### FOR: S-12, MICROTURBINE AND S-13, MICROTURBINE;

1. The landfill gas flow rate to each Microturbine (S-12 and S-13) shall not exceed 76,200 cubic feet per day. To demonstrate compliance with this part, the Permit Holder shall either:
  - a. monitor and record landfill gas flow rate to each microturbine using a gas flow meter and recorder meeting the requirements of Regulation 8-34-508,  
or
  - b. calculate and record, on a monthly basis, the maximum daily landfill gas flow rate to each microturbine using the landfill gas flow rate records for the entire gas collection system and daily records of operating time and operating rate for each device that is burning landfill gas. If this monitoring method will be used, the Permit Holder shall obtain APCO approval (prior to startup of S-12 or S-13) for the specific operating rates for which records will be maintained and for all calculation procedures that will be used to determine the maximum daily landfill gas flow rate to each microturbine.  
(Basis: Cumulative Increase, Offsets, and Regulation 2-1-301)
- ~~12.~~ The nitrogen oxide (NOx) emissions from each Microturbine (S-12 and S-13) shall not exceed 10.0 pounds per day calculated as NO<sub>2</sub>. Compliance with this emission limit may be demonstrated by having no emissions exceeding 78 ppmv of NO<sub>x</sub> at 15% oxygen, dry basis. (Basis: Offsets)
- ~~23.~~ The carbon monoxide (CO) emissions from each Microturbine (S-12 and S-13) shall not exceed 10.0 pounds per day. Compliance with this emission limit may be demonstrated by having no emissions exceeding 128 ppmv of CO at 15% oxygen, dry basis. (Basis: Cumulative increase)
- ~~34.~~ Emissions of non-methane organic compounds (NMOC) from each Microturbine (S-12 and S-13) shall not exceed 120 ppmv of NMOC (expressed as methane) at 3% oxygen, dry basis. (Basis: Offsets and Regulation 8-34-301.4)
- ~~45.~~ The Permit Holder shall install and operate one or more thermocouples that will accurately measure the combustion zone temperature (or other APCO approved monitor for an alternative APCO approved key emission control system operating parameter) at each Microturbine (S-12 and S-13). (Basis: Regulation ~~8-34-507~~ or 8-34-509)

## VI. Permit Conditions

### Condition # 20297

#### FOR: S-12, MICROTURBINE AND S-13, MICROTURBINE;

56. To demonstrate compliance with Parts 1-35 above and Regulation 8, Rule 34, Sections 301.4 and 412, the Permit Holder shall conduct an initial compliance demonstration test on the S-12 and S-13 Microturbines within 60 days of the initial start-up date for each microturbine and annually thereafter. The source tests shall determine the following:
- landfill gas flow rate (dry basis) and heat input rate to the microturbine (~~dry basis~~);
  - concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), total hydrocarbons (THC), methane (CH<sub>4</sub>), non-methane organic compounds (NMOC) in the landfill gas;
  - stack gas flow rate from the microturbine (dry basis);
  - concentrations (dry basis) of NO<sub>x</sub>, CO, THC, CH<sub>4</sub>, NMOC, and O<sub>2</sub> in the stack gas,
  - NMOC destruction efficiency achieved by the microturbine;
  - the average combustion zone temperature in the microturbine (or other appropriate key emission control system operating parameter) during the test period.

The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and the Source Test Section within 45 days of the test date. If the Permit Holder is proposing to monitor a key emission control system operating parameter other than combustion zone temperature, the Permit Holder shall describe the following in the source test procedures: the proposed key emission control system operating parameter; how this operating parameter will affect NO<sub>x</sub>, CO, and NMOC outlet concentration or NMOC destruction efficiency; the monitoring method for the proposed parameter; and the proposed monitoring frequency. The source test report shall identify the key emission control system operating parameter readings measured during the source test and shall propose appropriate minimum and/or maximum operating parameters or ranges that will ensure compliance with the emission limits in Parts 1-32-4. (Basis: Cumulative Increase, Offsets, and Regulations 8-34-301.4 and 8-34-412)

## VI. Permit Conditions

### Condition # 20297

#### FOR: S-12, MICROTURBINE AND S-13, MICROTURBINE;

67. Within 105 days of the initial start-up date, the Permit Holder shall maintain the combustion zone temperature of S-12 and S-13 at a minimum of [insert the temperature limit established during the initial compliance demonstration source test, which shall be 50 degrees F below the average combustion zone temperature measured during the source test] degrees F, averaged over any 3-hour period. The Permit Holder shall continuously monitor and record the combustion zone temperature to demonstrate compliance with this limit. Alternatively, upon receiving APCO approval for the use of a key emission control system operating parameter other than combustion zone temperature, the Permit Holder shall maintain one or more key emission control system operating parameters within the minimum and maximum ranges established during the initial compliance demonstration tests. The Permit Holder shall monitor and record any key emission control system operating parameters that have been approved by the APCO on the monitoring schedule approved by the APCO, provided that monitoring shall be no less frequent than once per month. The temperature limit or other key emission control system operating parameters will be added to this part in accordance with the procedures identified in Regulation 2-6-406. (Basis: Regulation ~~8-34-507~~ or 8-34-509)
78. The Permit Holder shall maintain all monitoring records and records of all test dates and test results for any tests that are conducted to demonstrate compliance with these conditions or any other applicable rule or regulation. All records shall be maintained on site in an APCO approved logbook or shall be made readily available to District staff upon request for a period of at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations. (Basis: Cumulative Increase, Offsets, and Regulations 2-6-501, 8-34-301.4, 8-34-412, ~~8-34-501.3~~ or 8-34-501.11, and 8-34-501.12)



## VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Amount of Waste Accepted	BAAQMD Condition # 16065, Part 1	Y		0 tons/day and $\leq 12,725,000$ tons (cumulative amount of all wastes) and $\leq 18,852,000$ yd <sup>3</sup> (cumulative amount of all wastes and cover materials)	BAAQMD 8-34-501.7	P/A	Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD Condition # 16065, Parts 2-3	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.1, 501.2, 501.10, and 508 and BAAQMD Condition # 16065, Part 6	C,P/E	Gas Flow Meter, Flare Alarms, and Records of Collection and Control Systems Downtime
Landfill Gas Through-put	BAAQMD Condition # 16065, Part 8	Y		≤ 4200 cfm, averaged over any calendar day (total limit for all flares)	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Collection System Installation Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 16065, Parts 15a-b	P/E	Records
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year and 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating Records
Startup Shutdown or Mal-function Procedures	40 CFR 63.6(e)	Y	1/16/04	Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors (for gas flow and temperature monitors)
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors (for gas flow and temperature monitors)
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig	BAAQMD 8-34-414, 501.9, and 505.1	P/M	Monthly Inspection and Records
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 °C (131 °F) (Wells listed in BAAQMD Condition # 16065, Part 5a are excluded from this limit.)	BAAQMD 8-34-414, 501.9 and 505.2 and	P/M	Monthly Inspection and Records
Temperature of Gas at Wellhead	BAAQMD Condition # 16065, Part 5a	Y		≤ 140 °F (This limit applies only to wells listed in BAAQMD Condition # 16065, Part 5a)	BAAQMD 8-34-414, 501.9 and 505.2 and	P/M	Monthly Inspection and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Concentrations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y		N <sub>2</sub> < 20% <b>OR</b> O <sub>2</sub> < 5% (Wells listed in BAAQMD Condition # 16065, Part 5b are excluded from these limits.)	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records
Gas Concentrations at Header	BAAQMD Condition # 16065, Part 5b	Y		O <sub>2</sub> ≤ 5% by volume, dry basis <b>AND</b> CH <sub>4</sub> ≥ 35% by volume, dry basis	BAAQMD Condition # 16065, Part 5b	P/M	Monthly Inspection and Records
Well Shutdown Limits	BAAQMD 8-34-117.4	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.5	Y		24 hours per well	BAAQMD 8-34-117.6 and 501.1	P/D	Records
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: 1000 ppmv as methane at 1 cm from component (see BAAQMD Condition # 16065, Part 5c for clarifications about vaults)	BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 16065, Part 15c	P/Q	Quarterly Inspection of collection and control system components with Portable Analyzer and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	BAAQMD 8-34-303	Y		Surface Leak Limit: 500 ppmv as methane at 2 inches above surface (see BAAQMD Condition # 16065, Part 5c for clarifications about vaults)	BAAQMD 8-34-415, 416, 501.6, 506 and 510 and BAAQMD Condition # 16065, Part 15c	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection of Surface with Portable Analyzer, Reinspections as Needed, and Records
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3	Y		98% removal by weight OR < 30 ppmv, dry basis @ 3% O <sub>2</sub> , expressed as methane (applies to flares only)	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 16065, Parts 13 and 15c	P/A	Source Tests and Records
Temperature of Combustion Zone (CT)	BAAQMD Condition # 16065, Part 7	Y		CT ≥ 1400 °F, averaged over any 3-hour period (applies to each flare, A-3, A-4, and A-5)	BAAQMD 8-34-501.3 and 507	C	Temperature Sensor and Recorder
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hour (applies to flares only)	None	N	NA
FP	BAAQMD 6-310	Y		≤ 0.15 grains/dscf (applies to flares only)	None	N	NA

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours (applies to flares only)	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-302	Y		≤ 300 ppm (dry basis) (applies to flares only)	BAAQMD Condition # 16065, Parts 12 and 15c	P/Q	Sulfur Analysis of Landfill Gas and Records
Landfill Gas Sulfur Content	BAAQMD Condition # 16065, Part 12	Y		≤ 1300 ppmv, expressed as H <sub>2</sub> S	BAAQMD Condition # 16065, Parts 12 and 15c	P/Q	Sulfur Analysis of Landfill Gas and Records
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	NA
NO <sub>x</sub>	BAAQMD Condition # 16065, Part 9a	Y		≤ 33 ppmv, at 15% O <sub>2</sub> , dry basis (applies to A-3 Flare only)	BAAQMD Condition # 16065, Parts 13 and 15c	P/A	Source Tests and Records
NO <sub>x</sub>	BAAQMD Condition # 16065, Part 9b-c	Y		≤ 15 ppmv, at 15% O <sub>2</sub> , dry basis (applies to A-4 and A-5 Flares only)	BAAQMD Condition # 16065, Parts 13 and 15c	P/A	Source Tests and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LANDFILL AND GAS COLLECTION SYSTEM,**  
**A-3 LANDFILL GAS FLARE,**  
**A-4 LANDFILL GAS FLARE, AND**  
**A-5 LANDFILL GAS FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 16065, Part 10a	Y		≤ 21 ppmv, at 15% O <sub>2</sub> , dry basis (applies to A-3 Flare only)	BAAQMD Condition # 16065, Parts 13 and 15c	P/A	Source Tests and Records
CO	BAAQMD Condition # 16065, Part 10b-c	Y		≤ 83 ppmv, at 15% O <sub>2</sub> , dry basis (applies to A-4 and A-5 Flares only)	BAAQMD Condition # 16065, Parts 13 and 15c	P/A	Source Tests and Records
Vinyl Chloride	BAAQMD Condition # 16065, Part 11	Y		≤ 48 ppmv, at each flare stack	BAAQMD Condition # 16065, Parts 13 and 15c	P/A	Source Tests and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-11 DIESEL ENGINE FOR EMERGENCY STANDBY GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-303	Y		Ringelmann No. 2 for < 3 minutes/hour	None	N	NA
FP	BAAQMD Regulation 6-310	Y		≤ 0.15 grains/dscf	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-304	Y		Fuel Sulfur Limit: 0.5%	BAAQMD Condition # 19210, Part 5d	P/E	Vendor Certification
Operating Hours	BAAQMD Regulation 9-8-330.2 and BAAQMD Condition # 19210, Part 1	N		Operating Hours for Reliability-Related Activities: ≤ 100 hours in a calendar year	BAAQMD Regulation 9-8-530 and BAAQMD Condition # 19210, Parts 4 and 5a-c	P/C, M	Meter to Record either Operating Hours or Fuel Usage and Records



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Landfill Gas Through-put	BAAQMD Condition # 20297, Part 1	Y	upon initial startup of S-12 or S-13	≤ 76,200 ft <sup>3</sup> per day	BAAQMD 8-34-501.10 and 508 and BAAQMD Condition # 20297, Part 1a or 1b	C, P/M	Gas Flow Meter and Recorder (every 15 minutes) and Records
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y	upon initial startup of S-12 or S-13	240 hours/year and 5 consecutive days	BAAQMD 8-34-501.2	P/D	Operating Records
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y	1/16/04 or upon initial startup of S-12 or S-13, which ever is later	Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y	upon initial startup of S-12 or S-13	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
Contin-uous Monitors	40 CFR 60.13(e)	Y	upon initial startup of S-12 or S-13	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y	upon initial startup of S-12 or S-13	1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 16065, Part 15c	P/Q	Quarterly Inspection of control system components with Portable Analyzer and Records
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.4 and BAAQMD Condition # 20297, Part 4	Y	upon initial startup of S-12 or S-13	98% removal by weight OR < 120 ppmv, dry basis @ 3% O <sub>2</sub> , expressed as methane	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 20297, Parts 6 and 8	P/A	Source Tests and Records
Temperature of Combustion Zone (CT) or Other APCO-Approved Parameter	BAAQMD Condition # 20297, Part 7	Y	105 days after initial startup of S-12 or S-13	CT ≥ [to be established by initial source test] °F, averaged over any 3-hour period; or other alternative parameter limits approved by APCO	BAAQMD 8-34-501.11 and 509 and BAAQMD Condition # 20297, Part 5	C or P/M	Temperature Sensor and Recorder or other APCO-Approved Monitor
Opacity	BAAQMD 6-301	Y	upon initial startup of S-12 or S-13	Ringelmann No. 1 for < 3 minutes/hour	None	N	NA
FP	BAAQMD 6-310	Y	upon initial startup of S-12 or S-13	≤ 0.15 grains/dscf	None	N	NA

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-12 MICROTURBINE AND S-13 MICROTURBINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO <sub>2</sub>	BAAQMD 9-1-301	Y	upon initial startup of S-12 or S-13	Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours (applies to flares only)	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-302	Y	upon initial startup of S-12 or S-13	≤ 300 ppm (dry basis) (applies to flares only)	BAAQMD Condition # 16065, Parts 12 and 15c	P/Q	Sulfur Analysis of Landfill Gas and Records
H <sub>2</sub> S	BAAQMD 9-2-301	N	upon initial startup of S-12 or S-13	Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	NA
NO <sub>x</sub>	BAAQMD Condition # 20297, Part 2	Y	upon initial startup of S-12 or S-13	≤ 10 pounds per day or ≤ 78 ppmv, at 15% O <sub>2</sub> , dry basis	BAAQMD Condition # 20297, Parts 6 and 8	P/A	Source Tests and Records
CO	BAAQMD Condition # 20297, Part 3	Y	upon initial startup of S-12 or S-13	≤ 10 pounds per day or ≤ 128 ppmv, at 15% O <sub>2</sub> , dry basis	BAAQMD Condition # 20297, Parts 6 and 8	P/A	Source Tests and Records

## VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
BAAQMD 8-34-301.2	Collection and Control System Leak Limit	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.3	NMOC Emission Limits for Flares	Manual of Procedures, Volume IV, ST-14, Oxygen, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-301.4	NMOC Emission Limits for Other Emission Control Systems	Manual of Procedures, Volume IV, ST-14, Oxygen, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-303	Landfill Surface Leak Limit	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-305.1	Gauge Pressure Limit at Wellheads	APCO Approved Device
BAAQMD 8-34-305.2	Temperature Limit for Gas at Wellheads	APCO Approved Device
BAAQMD 8-34-305.3	Nitrogen Concentration in Gas at Wellheads	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-305.4	Oxygen Concentration in Gas at Wellheads	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 8-34-412	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD 9-1-301	Limitations on Ground Level Concentrations (SO <sub>2</sub> )	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO <sub>2</sub> )	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD 9-1-304	Fuel Sulfur Content Limit	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD Condition # 16065, Part 5a	Temperature Limit for Gas at Wellheads	APCO Approved Device
BAAQMD Condition # 16065, Part 5b	Oxygen Concentration Limit for Landfill Gas at Main Header	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD Condition # 16065, Part 5b	Methane Concentration Limit for Landfill Gas at Main Header	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD Condition # 16065, Part 7	Combustion Zone Temperature Limits for Flares	APCO Approved Device

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Condition # 16065, Part 8	Landfill Gas Throughput Limit for Flares	APCO Approved Gas Flow Meter and Recorder
BAAQMD Condition # 16065, Part 9	NO <sub>x</sub> Emission Limits for Flares	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 16065, Part 10	CO Emission Limits for Flares	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 16065, Part 11	Vinyl Chloride Limit for Flares	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography; or Manual of Procedures, Volume IV, ST-29, Vinyl Chloride
BAAQMD Condition # 16065, Part 12	Landfill Gas Sulfur Content Limit	Draeger Tube measuring H <sub>2</sub> S: used in accordance with manufacturer's recommended procedures
BAAQMD Condition # 16065, Part 13	Compliance Demonstration Test	Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C
BAAQMD Condition # 16065, Part 14	Gas Characterization Analyses	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
BAAQMD Condition # 20297, Part 1	Landfill Gas Throughput Limit for Microturbines	APCO Approved Gas Flow Meter and Recorder and Operating Records
BAAQMD Condition # 20297, Part 2	NO <sub>x</sub> Emission Limits for Microturbines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 20297, Part 3	CO Emission Limits for Microturbines	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Condition # 20297, Part 4	NMOC Emission Limits for Microturbines	Manual of Procedures, Volume IV, ST-14, Oxygen, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD Condition # 20297, Part 6	Compliance Demonstration Test	Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C
BAAQMD Condition # 20297, Part 7	Combustion Zone Temperature Limit for Microturbines	APCO Approved Device

**IX. PERMIT SHIELD**

**Not applicable**



## **X. GLOSSARY**

**ACT**

Federal Clean Air Act

**APCO**

Air Pollution Control Officer: Head of Bay Area Air Quality Management District

**ARB**

Air Resources Board

**BAAQMD**

Bay Area Air Quality Management District

**BACT**

Best Available Control Technology

**Basis**

The underlying authority that allows the District to impose requirements.

**CAA**

The federal Clean Air Act

**CAAQS**

California Ambient Air Quality Standards

**CAPCOA**

California Air Pollution Control Officers Association

**CARB**

California Air Resources Board (same as ARB)

**CEQA**

California Environmental Quality Act

**CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

**CH<sub>4</sub> or CH<sub>4</sub>**

Methane

**CO**

Carbon Monoxide

**CT**

## X. Glossary

Combustion Zone Temperature

### **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

### **District**

The Bay Area Air Quality Management District

### **EG**

Emission Guidelines

### **EO**

Executive Order

### **EPA**

The federal Environmental Protection Agency.

### **Excluded**

Not subject to any District regulations.

### **Federally Enforceable, FE**

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (MACT), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **FP**

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

### **GDF**

Gasoline Dispensing Facility

### **H<sub>2</sub>S or H<sub>2</sub>S**

Hydrogen Sulfide

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

### **HHV**

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where

## **X. Glossary**

the combustion products are cooled to 60F and all water vapor is condensed to liquid.

### **LFG**

Landfill gas

### **Major Facility**

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

### **MAX or Max.**

Maximum

### **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

### **MIN or Min.**

Minimum

### **MOP**

The District's Manual of Procedures.

### **MSW**

Municipal solid waste

### **MW**

Molecular weight

### **N2 or N<sub>2</sub>**

Nitrogen

### **NA**

Not Applicable

### **NAAQS**

National Ambient Air Quality Standards

## **X. Glossary**

### **NESHAPS**

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63.

### **NMHC**

Non-methane Hydrocarbons (Same as NMOC)

### **NMOC**

Non-methane Organic Compounds (Same as NMHC)

### **NO<sub>x</sub> or NO<sub>x</sub>**

Oxides of nitrogen.

### **NSPS**

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

### **NSR**

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **O<sub>2</sub> or O<sub>2</sub>**

Oxygen

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Particulate Matter

### **PM<sub>10</sub> or PM<sub>10</sub>**

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

### **PSD**

## **X. Glossary**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

### **PV or P/V Valve**

Pressure / Vacuum Valve

### **RMP**

Risk Management Plan

### **S**

Sulfur

### **SIP**

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

### **SO<sub>2</sub> or SO<sub>2</sub>**

Sulfur dioxide

### **SSM**

Startup, Shutdown, or Malfunction

### **SSM Plan**

A plan, which states the procedures that will be followed during a startup, shutdown, or malfunction, that is prepared in accordance with the general NESHAP provisions (40 CFR Part 63, Subpart A) and maintained on site at the facility.

### **THC**

Total Hydrocarbons (NMHC + Methane)

### **Title V**

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

### **TOC**

Total Organic Compounds (NMOC + Methane, Same as THC)

## X. Glossary

### **TPH**

Total Petroleum Hydrocarbons

### **TRMP**

Toxic Risk Management Policy

### **TRS**

Total Reduced Sulfur

### **TSP**

Total Suspended Particulate

### **VOC**

Volatile Organic Compounds

### **Symbols:**

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

### **Units of Measure:**

bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft <sup>3</sup>	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour
lb	=	pound
lbmol	=	pound-mole
in	=	inches
m <sup>2</sup>	=	square meter
m <sup>3</sup>	=	cubic meters

## X. Glossary

min	=	minute
mm	=	million
MM	=	million
MM BTU	=	million BTU
MMcf	=	million cubic feet
Mg	=	mega grams
ppb	=	parts per billion
ppbv	=	parts per billion, by volume
ppm	=	parts per million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
sdcf	=	standard dry cubic feet
sdcfm	=	standard dry cubic feet per minute
yd	=	yard
yd <sup>3</sup>	=	cubic yards
yr	=	year

## **XI. APPLICABLE STATE IMPLEMENTATION PLAN**

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>