

Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Acme Fill Corporation
Facility #A1464

Facility Address:

950 Waterbird Way
Martinez, CA 94553

Mailing Address:

PO Box 1108
Martinez, CA 94553

Responsible Official

Nicholas J. Farros, P.E., Engineering Manager
(530) 676-5469

Facility Contact

Pat Lacey, Site Monitor
(925) 228-7099

Type of Facility: Landfill
Primary SIC: 4953
Product: Stored Municipal Waste

BAAQMD Permit Division Contact:
Judith Cutino, P.E.

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jeff McKay for Jack P. Broadbent _____
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

December 14, 2011
Date

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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 5/4/11);
- 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 3/4/09);
- 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 6/15/05);
- 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 12/21/04);
- SIP Regulation 2, Rule 4 – Permits, Emissions Banking
(as approved by EPA through 1/26/99);
- BAAQMD Regulation 2, Rule 5 – Permits, New Source Review of Toxic Air Contaminants
(as adopted by the District Board on 1/6/10);
- BAAQMD Regulation 2, Rule 6 – Permits, Major Facility Review
(as amended by the District Board on 4/16/03); and
- SIP Regulation 2, Rule 6 – Permits, Major Facility Review
(as approved by EPA through 6/23/95).

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

1. This Major Facility Review Permit was issued on December 14, 2011 and expires on December 13, 2016. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 13, 2016, and no earlier than December 13, 2015. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after December 13, 2016.** If the permit renewal has not been issued by December 13, 2016, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the district takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407 & 409.6; MOP Volume II, Part 3, §4.2)

I. Standard Conditions

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 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 2-6-409.7 & 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)

I. Standard Conditions

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. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)
12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

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, 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 April 17, 2003 to September 30, 2003. The report shall be submitted by October 31, 2003. Subsequent reports shall be for the following periods: October 1st through March 31st and April 1st through September 30th, 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

I. Standard Conditions

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

(Regulation 2-6-502, 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 April 1st through March 31st. The certification shall be submitted by April 30th 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 Volume II, Part 3, §4.8)

I. Standard Conditions

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

A. Permitted Source List

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.

Table II A – Permitted Sources

S-#	Description	Make or Type	Model	Capacity
1	Acme Landfill, Active Solid Waste Disposal Site with Active Gas Collection System Landfill Gas Collection System	Active solid waste disposal site. Types of waste accepted are clean fill materials including green waste, wood waste, and inert, commercial, and construction debris. Active		Max. Design Capacity = 22.522 E6 yd ³ (17.22 E6 m ³) Max. Cumulative Waste In Place = 11.348 MM tons in place Max. Acceptance Rate = 1,500 tons/day 70 vertical wells and 28 horizontal collectors
10	Waste Recycler	Track Mounted-Portable Peterson Pacific Corp.	HC5410	80 ton/hr
200	Leachate Treatment Facility	Flow Equalization Tank East Parcel Influent Tank Aeration Tanks (2) Secondary Clarifier NaOH Storage Tank	custom custom custom custom custom	23 gpm total capacity 13,000 gallons 16,000 gallons 13,000 gallons each 14,000 gallons 6,000 gallons
201	Emergency Standby Diesel Engine – Generator Set	John Deere 1995 Reciprocating Engine	4039D	80 hp @ 2500 rpm, 50 kW 239 in ³ displacement, 4.2 gal/hr of diesel oil, 0.6 MM BTU/hr

II. Equipment

B. Abatement Device List

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	Water Truck	S-1	BAAQMD Regulation 6-1-301	None	Ringelmann No. 1
2	Landfill Gas Flare	S-1	BAAQMD 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of 1400 °F, see also Table VII-A	98% destruction of NMOC or < 30 ppmv of NMOC, as CH ₄ , at 3% O ₂ , dry

C. Exempt Equipment List

Table II C – Exempt Equipment

S-#	Description	Make or Type	Model	Capacity	Exemption
9	IC Engine (powering S-10 Waste Recycler)	Caterpillar	3412E Model Year 2003	860 hp, 1649 in ³ displacement, 49.8 gal/hr of diesel oil, 6.8 MM BTU/hr,	Reg. 2-6-114 Non-road Engines

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. This section also contains provisions that may apply to temporary sources.

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 the SIP requirements are posted on the EPA Region 9 website. The address is:

<http://yosemite.epa.gov/R9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide-Provisions>

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 (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	Permits - General Requirements (3/4/09)	N
BAAQMD 2-1-429	Permits - Federal Emissions Statement (12/21/04)	N
SIP Regulation 2, Rule 1	Permits - General Requirements (1/26/99)	Y

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 2-1-429	Permits - Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 2, Rule 5	Permits - New Source Review of Toxic Air Contaminants (1/6/10)	N
BAAQMD Regulation 5	Open Burning (7/9/08)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter - General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
SIP Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95)	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 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)	Y

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	N
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants – Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	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 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
California Code of Regulations Title 17, Section 93105.	Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations (7/26/01)	N
California Code of Regulations Title 17, Section 93106.	Asbestos Airborne Toxic Control Measure for Asbestos Containing Serpentine (7/20/00)	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11)	N
California Health and Safety Code Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engine Rated at 50 Horsepower and Greater (2/19/11)	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants-General Provisions (9/3/10)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/04)	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 the SIP requirements are posted on the EPA Region 9 website. The address is:

<http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions>

All other text may be found in the regulations themselves.

**Table IV – A
 Source-Specific Applicable Requirements
 S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
 A-1 WATER TRUCK
 A-2 LANDFILL GAS FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)		
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	
SIP Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.5	Maintenance and Calibration	Y	
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (12/5/07)		
6-1-301	Ringlemann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to A-2 only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	Organic Compounds – Solid Waste Disposal Sites (6/15/05)		
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	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	
8-34-116.2	Limits on Number of Wells Shutdown	Y	
8-34-116.3	Shutdown Duration Limit	Y	
8-34-116.4	Capping Well Extensions	Y	
8-34-116.5	Well Disconnection Records	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	

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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	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	
8-34-304.2	Based on Waste Age For Active Areas	Y	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	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	Y	
8-34-305.3	Nitrogen < 20% or	Y	
8-34-305.4	Oxygen < 5%	Y	
8-34-404	Less than Continuous Operation Petition Contents	Y	
8-34-404.1	Landfill gas flow rates, methane concentrations	Y	
8-34-404.2	Collection system map with component locations	Y	
8-34-404.3	Operating, maintenance, and inspection schedule	Y	
8-34-404.4	APCO approval contents	Y	
8-34-404.5	Petition renewal every 3 years	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	

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
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	Y	
8-34-501.4	Testing	Y	
8-34-501.5	Monthly landfill gas flow rates and well concentrations for facilities subject to 8-34-404 (less than continuous operation)	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	

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Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorder	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations (applies to flare only)	Y	
9-1-302	General Emission Limitations (applies to flare only)	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide	N	
40 CFR Part 60, Subpart A	Standards of Performance for New Stationary Sources – General Provisions (6/13/07)		
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	
60.13(b)	Monitors shall be installed and operational before performing 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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 60, Subpart WWW	Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (9/21/06)		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to or greater than 2.5 million Mg and 2.5 million m ³ (Large Designated Facilities)	Y	
60.752(b)(2)	Comply with all requirements in Sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a Collection and Control System Design Plan	Y	
60.752 (b)(2)(i)(A)	The collection and control system in the Design Plan shall comply with 60.752(b)(2)(ii)	Y	
60.752 (b)(2)(i)(B)	Design Plan shall include all proposed alternatives to 60.753 through 60.758	Y	
60.752 (b)(2)(i)(C)	Design Plan shall conform to 60.759 (active collection system) or demonstrate sufficiency of proposed alternatives	Y	
60.752 (b)(2)(ii)	Install a collection and control system	Y	
60.752 (b)(2)(iii)	Route collected gases to a control system	Y	
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O ₂ , dry basis, as demonstrated by initial performance test within 180 days of start-up. (applies to flares only)	Y	
60.752 (b)(2)(iii)(C)	Process the collected gas for subsequent sale or use in a treatment system, where any atmospheric vents from this treatment system comply with paragraph (b)(2)(iii)(B) above.	Y	
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	
60.752(c)	Title V Operating Permit Requirements	Y	
60.752(c)(2)	90 days after modification commencement date	Y	
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(a)	Operate a Collection System in each area or cell in which:	Y	
60.753(a)(1)	Active Cell – solid waste in place for 5 years or more	Y	

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Table IV – A
Source-Specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.753(a)(2)	Closed/Final Grade – solid waste in place for 2 years or more	Y	
60.753(b)	Operate each wellhead under negative pressure unless:	Y	
60.753(b)(1)	Fire or increased well temperature or to prevent fire	Y	
60.753(b)(2)	Use of geomembrane or synthetic cover (subject to alternative pressure limits)	Y	
60.753(b)(3)	Decommissioned well after approval received for shut-down	Y	
60.753(c)	Operate each wellhead at <55°C, and either <20% N ₂ or < than 5% O ₂ (or other approved alternative levels)	Y	
60.753(c)(1)	N ₂ determined by Method 3C	Y	
60.753(c)(2)	O ₂ determined by 3A and as described in (2)(i-v)	Y	
60.753(d)	Surface Leak Limit is less than 500 ppm methane above background at landfill surface. This section also describes some surface monitoring procedures.	Y	
60.753(e)	Vent all collected gases to control system complying with 60.752(b)(2)(iii). If collection or control system inoperable, shut down gas mover and close all vents within 1 hour.	Y	
60.753(f)	Operate the control system at all times when collected gas is routed to the control system (applies to flares only)	Y	
60.753(g)	If monitoring demonstrates that 60.753(b), (c), or (d) are not being met, corrective action must be taken.	Y	
60.754	Test Methods and Procedures	Y	
60.754(a)	NMOC Calculation Procedures for NMOC Emission Rate Reports and Comparison to 50 Mg/Year Standard	Y	
60.754(a)(1)	Calculate NMOC Emission Rate using either or both of the equations in 60.754(a)(1)(i-ii) with the listed default values	Y	
60.754(a)(1)(i)	Equation for known year-to-year waste acceptance rates	Y	
60.754(a)(1)(ii)	Equation for unknown year-to-year waste acceptance rate	Y	
60.754(a)(2)	Tier 1 – compare calculated NMOC emission rate to 50 Mg/year	Y	
60.754(a)(2)(ii)	If NMOC Emission Rate ≥50 Mg/year, comply with 60.752(b)(2) or determine a site-specific NMOC concentration and follow 60.754(a)(3).	Y	
60.754(a)(3)	Tier 2 – compare recalculated NMOC emission rate to 50 Mg/year	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.754(a)(4)	Tier 3 – compare recalculated NMOC emission rate to 50 Mg/year	Y	
60.754(c)	For PSD, NMOC emissions shall be calculated using AP-42 procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(a)	For Gas Collection Systems	Y	
60.755(a)(1)	Calculation procedures for maximum expected gas generation flow rate	Y	
60.755(a)(1)(i)	Equation for unknown year-to-year waste acceptance rate	Y	
60.755(a)(1)(ii)	Equation for known year-to-year waste acceptance rate	Y	
60.755(a)(2)	Vertical wells and horizontal collectors shall be of sufficient density to meet all performance specifications.	Y	
60.755(a)(3)	Measure wellhead pressure monthly. If pressure is positive, take corrective action (final corrective action = expand system within 120 days of initial positive pressure reading)	Y	
60.755(a)(4)	Expansion not required during first 180 days after startup.	Y	
60.755(a)(5)	Monitor wellheads monthly for temperature and either nitrogen or oxygen. If readings exceed limits, take corrective action up to expanding system within 120 days of first excess.	Y	
60.755(b)	Wells shall be placed in cells as described in Design Plan and no later than 60 days after:	Y	
60.755(b)(1)	Five years after initial waste placement in cell, for active cells	Y	
60.755(b)(2)	Two years after initial waste placement in cell, for closed/final grade cells.	Y	
60.755(c)	Procedures for complying with surface methane standard	Y	
60.755(c)(1)	Quarterly monitoring of surface and perimeter	Y	
60.755(c)(2)	Procedure for determining background concentration	Y	
60.755(c)(3)	Method 21 except probe inlet placed 5-10 cm above ground	Y	
60.755(c)(4)	Excess is any reading of 500 ppmv or more. Take corrective action indicated below (i-v).	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.755 (c)(4)(i)	Mark and record location of excess	Y	
60.755 (c)(4)(ii)	Repair cover or adjust vacuum. Re-monitor within 10 calendar days.	Y	
60.755 (c)(4)(iii)	If still exceeding 500 ppmv, take additional corrective action. Re-monitor within 10 calendar days of 2 nd excess.	Y	
60.755 (c)(4)(iv)	Re-monitor within 1 month of initial excess.	Y	
60.755 (c)(4)(v)	For any location with 3 monitored excesses in a quarter, additional collectors (or other approved collection system repairs) shall be operational within 120 days of 1 st excess.	Y	
60.755(c)(5)	Monitor cover integrity monthly and repair as needed.	Y	
60.755(d)	Instrumentation and procedures for complying with 60.755(c).	Y	
60.755(d)(1)	Portable analyzer meeting Method 21	Y	
60.755(d)(2)	Calibrated with methane diluted to 500 ppmv in air	Y	
60.755(d)(3)	Use Method 21, Section 4.4 instrument evaluation procedures	Y	
60.755(d)(4)	Calibrate per Method 21, Section 4.2 immediately before monitoring.	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems.	Y	
60.756	Monitoring of Operations	Y	
60.756(a)	For active collection systems, install wellhead sampling port	Y	
60.756(a)(1)	Measure gauge pressure in wellhead on a monthly basis	Y	
60.756(a)(2)	Measure nitrogen or oxygen concentration in wellhead gas on a monthly basis.	Y	
60.756(a)(3)	Measure temperature of wellhead gas on a monthly basis.	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	
60.756(b)(1)	Temperature monitor and continuous recorder (not required for boilers and process heaters with capacity > 44 MW)	Y	
60.756(b)(2)	Device that records flow to or bypass of the control device (i or ii below)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.756 (b)(2)(i)	Install, calibrate, and maintain a device that records flow to the control device at least every 15 minutes.	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.756(f)	Monitor surface on a quarterly basis.	Y	
60.757	Reporting Requirements	Y	
60.757(a)	Submit an Initial Design Capacity Report	Y	
60.757(a)(1)	Fulfills 60.7(a)(1)	Y	
60.757(a)(1) (ii)	Due date is 90 days after the date construction is commenced	Y	
60.757(a)(2)	Contents of Initial Design Capacity Report	Y	
60.757(a)(3)	Amended Design Capacity Report required within 90 days of receiving a permitted increase in design capacity or within 90 days of an annual density calculation that results in a design capacity over the thresholds.	Y	
60.757(b)	Submit Initial and Annual NMOC Emission Rate Report	Y	
60.757(b)(3)	Sites with collection and control systems operating in compliance with this subpart are exempt from (b)(1) and (b)(2) above.	Y	
60.757(c)	Submit a Collection and Control System Design Plan within 1 year of first NMOC emission rate report showing NMOC > 50 MG/year, except as follows	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1) through (f)(6)	Y	
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(a), (b) or (d)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.757(f)(4)	All periods when collection system was not operating for more than 5 days.	Y	
60.757(f)(5)	Location of each surface emission excess and all re-monitoring dates and concentrations.	Y	

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Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.757(f)(6)	Location and installation dates for any wells or collectors added as a result of corrective action for a monitored excess.	Y	
60.757(g)	Initial Performance Test Report Requirements (g)(1-6)	Y	
60.757(g)(1)	Diagram of collection system showing positions of all existing collectors, proposed positions for future collectors, and areas to be excluded from control.	Y	
60.757(g)(2)	Basis for collector positioning to meet sufficient density req.	Y	
60.757(g)(3)	Documentation supporting percentage of asbestos or non-degradable material claims for areas without a collection system.	Y	
60.757(g)(4)	For areas excluded from collection due to non-productivity, calculations and gas generation rates for each non-productive area and the sum for all nonproductive areas.	Y	
60.757(g)(5)	Provisions for increasing gas mover equipment if current system is inadequate to handle maximum projected gas flow rate.	Y	
60.757(g)(6)	Provisions for control of off-site migration	Y	
60.758	Recordkeeping Requirements	Y	
60.758(a)	Design Capacity and Waste Acceptance Records (retain 5 years)	Y	
60.758(b)	Collection and Control Equipment Records (retain for life of control equipment except 5 years for monitoring data)	Y	
60.758(b)(1)	Collection System Records	Y	
60.758 (b)(1)(i)	Maximum expected gas generation flow rate.	Y	
60.758 (b)(1)(ii)	Density of wells and collectors	Y	
60.758(b)(2)	Control System Records - enclosed combustors other than boilers or process heaters with heat input > 44 MW (applies to flares only)	Y	
60.758 (b)(2)(i)	Combustion temperature measured every 15 minutes and averaged over the same time period as the performance test (applies to flares only)	Y	
60.758 (b)(2)(ii)	Percent NMOC reduction achieved by the control device (applies to flares only)	Y	
60.758(c)	Records of parameters monitored pursuant to 60.756 and periods of operation when boundaries are exceeded (retain for 5 years).	Y	

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A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.758(c)(1)	Exceedances subject to record keeping are:	Y	
60.758(c)(1)(i)	All 3-hour periods when average combustion temperature was more than 28° C below the average combustion temperature during the most recent complying performance test (applies to flares only)	Y	
60.758(c)(2)	Records of continuous flow to control device or monthly inspection records if seal and lock for bypass valves	Y	
60.758(d)	Plot map showing location of all existing and planned collectors with a unique label for each collector (retain for life of collection system)	Y	
60.758(d)(1)	Installation date and location of all newly installed collectors	Y	
60.758(d)(2)	Records of nature, deposition date, amount, and location of asbestos or non-degradable waste excluded from control	Y	
60.758(e)	Records of any exceedance of 60.753, location of exceedance and re-monitoring dates and data (for wellheads and surface). Retain for 5 years.	Y	
60.759	Specifications for Active Collection Systems	Y	
60.759(a)	Active wells and collectors shall be at sufficient density	Y	
60.759(a)(1)	Collection System in refuse shall be certified by PE to achieve comprehensive control of surface gas emissions	Y	
60.759(a)(2)	Collection Systems (active or passive) outside of refuse shall address migration control	Y	
60.759(a)(3)	All gas producing areas shall be controlled except as described below (i-iii).	Y	
60.759(a)(3)(i)	Any segregated area of asbestos or non-degradable material only may be excluded, if documented adequately per 60.758(d).	Y	
60.759(a)(3)(ii)	Any non-productive areas may be excluded from control, provided total NMOC emissions from all excluded areas is < 1% of total NMOC emissions from landfill. Document amount, location, and age of waste and all calculations for each excluded area.	Y	

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Table IV – A
Source-Specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.759 (a)(3)(iii)	For calculating NMOC emissions, values for k and concentration of NMOC that have been previously approved shall be used or defaults if no values were approved. All non-degradable wastes that are being subtracted from total wastes for NMOC calculations must be documented adequately.	Y	
60.759(b)	Gas Collection System Components	Y	
60.759(b)(1)	Must be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved material and of suitable dimensions to convey projected gas amounts and withstand settling, traffic, etc.	Y	
60.759(b)(2)	Collectors shall not endanger liner, shall manage condensate and leachate, and shall prevent air intrusion and surface leaks.	Y	
60.759(b)(3)	Header connection assemblies shall include positive closing throttle valve, seals and couplings to prevent leaks, at least one sampling port, and shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved materials.	Y	
60.759(c)	Gas Mover Equipment shall be sized to handle maximum expected gas generation rate over the intended period of use.	Y	
60.759(c)(1)	For existing systems, flow data shall be used to project maximum flow rate.	Y	
60.759(c)(2)	For new systems, gas generation rate shall be calculated per 60.755(a)(1)	Y	
40 CFR Part 63, Subpart A	National Emission Standards for Hazardous Air Pollutants: General Provisions (12/22/08)		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Record keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of:	Y	

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Source-Specific Applicable Requirements
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63, Subpart AAAA	National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (4/20/06)		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)	Comply with either 63.1955(a)(1) or (a)(2)	Y	
63.1955(a)(1)	Comply with the requirements of 40 CFR, Part 60, Subpart WWW	Y	
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	
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	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
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	
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	
BAAQMD Condition # 19906			
Part 1	Design capacity and waste acceptance rate limits (Regulation 2-1-301)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Particulate emissions control measures (Regulations 2-1-403, 6-1-301, and 6-1-305)	Y	
Part 3	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	
Part 4	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-304, and 8-34-305)	Y	
Part 5	Landfill gas collection system operating requirements (Regulations 8-34-301.1 and 8-34-404)	Y	
Part 6	Flare heat input limits (Regulation 2-1-301)	Y	
Part 7	Flare temperature limit (Regulations 2-5-301, 2-5-302, and 8-34-301.3)	Y	
Part 8	Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302)	Y	
Part 9	Annual source test (Regulations 8-34-301.3 and 8-34-412)	Y	
Part 10	Annual landfill gas characterization test (AB-2588 Air Toxics Hot Spots Act and Regulations 2-5-302, 8-34-412, and 9-1-302)	Y	
Part 11	Record keeping requirements (Cumulative Increase, 2-1-301, 2-6-501, 6-1-301, 6-1-305, 8-34-301, 8-34-304, and 8-34-501)	Y	
Part 12	Annual Reports, Semi-Annual Submittals (Regulation 8-34-411 and 40 CFR Part 63.1980(a))	Y	

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-10 WASTE RECYCLER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (12/5/07)		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-311	General Operations: Emission Limit Based on Process Weight Rate	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-311	General Operations: Emission Limit Based on Process Weight Rate	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 21474			
Part 1	Operating Time Limitation (Cumulative Increase)	Y	
Part 2	Waste Processing Time Limitations (Regulation 1-301)	Y	
Part 3	Waste Storage Limit (Cumulative Increase and Regulations 1-301)	Y	
Part 5	Operating requirements for integral water spray system (Cumulative Increase and Regulation 2-1-403)	Y	
Part 6	Visible particulate and particulate fallout limitations (Regulations 1-301, 6-1-301, and 6-1-305)	Y	
Part 7	Emissions observation and corrective action requirements (Regulations 2-1-403 and 6-1-401)	Y	
Part 8 (a-c)	Record keeping requirements (Cumulative Increase and Regulations 1-441, 2-6-501, and 9-1-304)	Y	

IV. Source-Specific Applicable Requirements

**Table IV – D
 Source-Specific Applicable Requirements
 S-200 LEACHATE TREATMENT FACILITY**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds - Miscellaneous Operation (7/20/05)		
8-2-301	Miscellaneous Operations	Y	
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 19908			
Part 1	VOC and Benzene Emissions Limitations (Regulations 8-2-301 and 2-5-301)	Y	
Part 2	Influent and Effluent Monitoring Procedures (Regulation 1-441)	Y	
Part 3	Leachate Throughput Limitation (Cumulative Increase)	Y	
Part 4	Record Keeping Requirements (Regulation 1-441)	Y	

IV. Source-Specific Applicable Requirements

Table IV – E
Source-Specific Applicable Requirements
S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (12/5/07)		
6-1-303	Ringelmann No. 2 Limitation	N	
6-1-303.1	For Internal Combustion Engines Less Than 1500 in ³ Displacement, or For Standby Engines	N	
6-1-305	Visible Particles	N	
6-1-310	Particulate Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)		
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	For Internal Combustion Engines Less Than 1500 in ³ Displacement, or For Standby Engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9 Rule 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)		
9-8-110	Exemptions	N	
9-8-110.1	For <250 hp Engines	N	Expires 1/1/12
9-8-110.3	For Liquid Fuel Fired Engines	N	Expires 1/1/12
9-8-110.5	For Emergency Standby Engines	N	
9-8-330	Emergency Standby Engines, Hours of Operation	N	
9-8-330.1	For Emergency Use	N	

IV. Source-Specific Applicable Requirements

Table IV – E
Source-Specific Applicable Requirements
S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-330.2	For Reliability-Related Activities	N	Expires 1/1/12
9-8-330.3	For Reliability-Related Activities	N	1/1/12
9-8-502	Recordkeeping	N	
9-8-502.1	For Exempt Engines	N	
9-8-530	Emergency Standby Engines and Low Usage 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	
40 CFR Part 63, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.8	Monitoring requirements	Y	
63.10	Record keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(c)	Additional record keeping requirements for sources with continuous monitoring systems	Y	
63.10(d)	General reporting requirements	Y	
63.10(e)	Additional reporting requirements for sources with continuous monitoring systems	Y	
40 CFR Part 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (3/10/2010)		
63.6585	Applicability	Y	
63.6585(a)	Applicable to stationary RICE	Y	
63.6585(c)	Applicable to area source of HAPs	Y	
63.6590(a)	Affected source	Y	
63.6590(a)(1)(iii)	Threshold Date for Existing stationary RICE	Y	
63.6595(a)	Compliance Date for affected sources	Y	5/3/2013

IV. Source-Specific Applicable Requirements

Table IV – E
Source-Specific Applicable Requirements
S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.6603(a)	Operating limitations for existing stationary RICE located at an area source of HAP emissions	Y	5/3/2013
63.6625(h)	Minimize engine idle time, not to exceed 30 minutes	Y	5/3/2013
63.6640(f)	Requirements for emergency stationary RICE	Y	5/3/2013
63.6640(f)(1)(i)	No time limit on use during emergency situations	Y	5/3/2013
63.6640(f)(1)(ii)	Maintenance checks and readiness testing annual hour limit	Y	5/3/2013
63.6640(f)(1)(iii)	Non-emergency operation annual hour limit	Y	5/3/2013
63.6645(a)(5)	Notification requirements do not apply to this source	Y	
63.6655	What Records must I keep?	Y	5/3/2013
63.6655(e)(2)	Maintenance	Y	5/3/2013
63.6655(f)(2)	Hours of operation	Y	5/3/2013
63.6660	Record retention and form of records	Y	
Table 2d to Subpart ZZZZ	Requirements for existing Stationary RICE Located at Area Sources of HAP Emissions	Y	5/3/2013
Table 2d 4.a.	Schedule for oil and filter change	Y	5/3/2013
Table 2d 4.b.	Schedule for air cleaner inspection	Y	5/3/2013
Table 2d 4.c.	Schedule for hose and belt inspection	Y	5/3/2013
Table 6 to Subpart ZZZZ	Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices	Y	5/3/2013
Table 6 9.a.	Work or Management Practices	Y	5/3/2013
CCR, Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11)		
§93115.5	Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater Than (>50 bhp)	N	
§93115.5(b)	For In-Use Emergency Standby CI Engines	N	
§93115.6	Emergency Standby Diesel-Fueled CI Engine (>50 bhp) Operating Requirements and Emission Standards	N	
§93115.6(b)	For In-Use Emergency Standby Diesel Fueled CI Engines	N	
§93115.6(b)(3)	Emission Standards and Operating Requirements	N	
§93115.6(b)(3)(A)	Diesel PM Standards and Hours of Operation Limitations	N	
§93115.6(b)(3)(A)(1)	General Requirements	N	

IV. Source-Specific Applicable Requirements

Table IV – E
Source-Specific Applicable Requirements
S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
§93115.6 (b)(3)(A)(1)(a)	For Engines That Emit Diesel PM Greater Than or Equal to 0.40 g/bhp-hr: Operating Hour Limit for Reliability Related Activities (Note that HC, NOx, NMHC+NOx, and CO are not limited for this engine)	N	
§93115.10	Recordkeeping, Reporting and Monitoring Requirements	N	
§93115.10(d)	Monitoring Equipment	N	
§93115.10(d)(1)	Non-Resetable Hour Meter	N	
§93115.10(f)	Reporting Requirements for Emergency Standby-Engines	N	
§93115.10(f)(1)	Records and Monthly Summary	N	
§93115.10(f)(2)	Records Retention and Availability	N	
BAAQMD Condition # 24451			
Part 1	Operating Time Limitation for Reliability-Related Testing (CCR Title 17, Section 93115.6(b)(3)(A)(1)(a))	N	
Part 2	Operating Restrictions (CCR Title 17, Section 93115.6(b)(3)(A)(1)(a) and Regulation 9-8-330)	N	
Part 3	Hour Meter Monitoring Requirement (CCR Title 17, Section 93115.10(d)(1) and Regulation 9-8-530)	N	
Part 4	Records (CCR Title 17, Section 93115.10(f)(1) and Regulations 2-6-501 and 9-8-530)	Y	
Part 5	Emissions observation and corrective action requirements (Regulations 2-1-403 and 6-1-401)	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 # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

1. The permit holder shall comply with the following waste acceptance and disposal limits and shall obtain the appropriate New Source Review permit, if one of the following limits is exceeded:
 - a. Total waste accepted and placed at the landfill shall not exceed 1,500 tons in any single day. (basis: Regulation 2-1-301)
 - b. The total cumulative amount of all wastes placed in the landfill shall not exceed 11.348 million tons. Exceedance of the cumulative tonnage limit is not a violation of the permit and does not trigger the requirement to obtain a New Source Review permit, if the operator can, within 30 days of the date of discovery of the exceedance, provide documentation to the District demonstrating, in accordance with BAAQMD Regulation 2-1-234.2, that the limit should be higher. (basis: Regulation 2-1-301)
 - c. The maximum design capacity of the landfill (total volume of all wastes and cover materials placed in the landfill, excluding final cover) shall not exceed 22.522 million cubic yards. (basis: Regulation 2-1-301)
2. Water and/or dust suppressants shall be applied to all unpaved roadways and active soil removal and fill areas associated with this landfill as necessary to prevent visible particulate emissions. Paved roadways at the facility shall be kept sufficiently clear of dirt and debris as necessary to prevent visible particulate emissions from vehicle traffic or wind. (basis: Regulations 2-1-403, 6-1-301, and 6-1-305)

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

3. All collected landfill gas shall be vented to the properly operating Landfill Gas Flare (A-2) and/or to any of the following sources:
 - a. S-1, S-2, S-3, S-4, microturbine generators at Bulldog Gas & Power (BAAQMD Plant 13782).
 - b. S-7 boiler, S-8 boiler, S-9 Sewage Sludge Incinerator, S-10 Sewage Sludge Incinerator or S-188 cogeneration turbine at Central Contra Costa Sanitary District (BAAQMD Plant 907).

Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to 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)

4. The permit holder shall apply for and receive a Change of Conditions before altering the landfill gas collection system described below. Increasing or decreasing the number of gas collection system components and changing the locations of these components are considered to be alterations that are subject to this requirement. (basis: Regulations 2-1-301, 8-34-301.1, 8-34-304, 8-34-305)
 - a. The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below. Component locations, depths, and lengths are described in detail in Permit Application # 2273 and #23071. The Authorized number of landfill gas collection system components is the baseline count listed below plus any components installed pursuant to Part 4b, as evidenced by start-up notification letters submitted to the District

Baseline Required Components

Total Number of Vertical Wells:	60
Total Number of Horizontal Collectors:	28

- b. The Permit Holder has been authorized to perform the landfill gas collection system alterations listed below pursuant to Permit Application #23071. At least three days prior to initiating operation of a new component, the Permit Holder shall submit a start-up notice to the district that contains the component ID number and the anticipated initial start-up date for each new component.
 - Install up to 10 New Vertical Wells

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

5. The vertical well portion of the landfill gas collection system described in Part 4a shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the District, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34 Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)
The horizontal collector system may be operated on a non-continuous basis subject to the following criteria:
 - a. ACME Fill shall install and maintain a District-approved vacuum/pressure gauge on each leg of the horizontal collector system.
 - b. ACME Fill shall monitor and record the pressure of each horizontal leg at a frequency of at least one time every calendar month.
 - c. When a positive pressure in a horizontal collector leg is noted, the isolation valve shall be opened, and the vapor depleted until the oxygen content at the collector leg increases to at least 5 percent or when the collector leg methane content decreases to 20 percent or less. Upon reaching either of these levels, the horizontal collector leg may be isolated from the vacuum system. (basis: Regulation 8-34-404)
 - d. ACME Fill shall renew the non-continuous operation petition at a frequency of at least once every 3 years. (basis: Regulation 8-34-404.5)

6. The Heat Input to the A-2 Landfill Gas Flare shall not exceed 1375 million BTU per day nor 412,560 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the flare based on the landfill gas flow rate recorded pursuant to Part 10, the average methane concentration in the landfill gas based on the most recent source test, and a high heating value for methane of 1013 BTU/scf. (basis: Regulation 2-1-301)

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

7. The combustion zone temperature of A-2 shall be maintained at a minimum of 1400 degrees Fahrenheit, averaged over any 3-hour period. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO will revise this minimum temperature limit in accordance with the administrative permit amendment procedures of Regulation 2-6-416 such that the minimum combustion zone temperature is equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature is not less than 1400 degrees F. (basis: Regulations 2-5-301, 2-5-302, and 8-34-301.3)
8. Hydrogen sulfide in the collected landfill gas shall be monitored as a surrogate for sulfur dioxide in the control system exhaust. The concentration of hydrogen sulfide 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 hydrogen sulfide content in collected landfill gas on a quarterly basis using a District-approved analyzer. 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 analyzer and interpreting the results. The Permit Holder shall conduct the first analyzer test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (basis: Regulation 9-1-302)
9. In order to demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-2). The annual source test shall determine the following:
 - a. Landfill gas flow rate to the flare (dry basis).
 - b. Concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), methane (CH₄), 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 CH₄, NMOC, and O₂ in the flare stack gas.
 - e. The NMOC destruction efficiency achieved by the flare.
 - f. The average combustion zone temperature in the flare during the test period.

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

Each annual source test shall be conducted no later than 12 months after the previous 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: Regulations 8-34-301.3 and 8-34-412)

10. The Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by Part 9 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in Part 9b, the landfill gas shall be analyzed for the following compounds:

- Carbon disulfide
- Chlorobenzene
- 1,4 Dichlorobenzene
- 1,1 Dichlorobenzene
- Dichloromethane (Methylene Chloride)
- Ethyl Benzene
- Hexane
- Hydrogen sulfide
- Isopropyl alcohol (2-Propanone)
- 2-Butanone (MEK)
- MiBK
- Tetrachloroethylene (Perchloroethylene)
- Trichloroethylene
- Vinyl Chloride
- Toluene
- Benzene
- m,p-Xylene
- o-Xylene

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

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 for 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: AB-2588 Air Toxics Hot Spots Act and Regulations 2-5-302, 8-34-412, and 9-1-302)

11. In order to demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in a District approved logbook.
 - a. Record of the total amount of waste received at S-1 on a daily basis. Summarize the daily waste acceptance records for each calendar month.
 - b. For each area or cell that is not controlled by a landfill gas collection system, maintain a record of the date that waste was initially placed in the area or cell. Record the cumulative amount of waste placed in each uncontrolled area or cell on a monthly basis.
 - c. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
 - d. Record of the dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. Record the dates, locations, and type of any dust suppressant applications. Record the dates and description of all paved roadway cleaning activities. All records shall be summarized on a monthly basis.
 - e. Record the initial operation date for each new landfill gas well and collector.
 - f. 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 5. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least once a year to indicate changes in refuse boundaries and to include any newly installed wells and collectors.

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM; A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

- g. Record the operating times and the landfill gas flow rate to the A-2 Landfill Gas Flare on a daily basis. Summarize these records on a monthly basis. Calculate and record the heat input to A-2, pursuant to Part 6.
- h. On a monthly basis, record the pressures of all horizontal collector legs and the date and time the gauge readings were taken.
- i. Horizontal collector operation: Record the dates and times of commencement or discontinuation of landfill gas production from a respective collector leg and the basis for the action.
- j. Maintain continuous records of the combustion zone temperature for the A-2 Landfill Gas Flare during all hours of operation.
- k. Maintain records of all test dates and test results performed to maintain compliance with Parts 8, 9, and 10, above or to maintain compliance with any applicable rule or regulation.

All records shall be maintained on site 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: Regulations 2-1-301, 2-6-501, 6-1-301, 6-1-305, 8-34-301, 8-34-304, and 8-34-501)

- 12. The permit holder shall submit to the APCO annual reports 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 December 1, 2002 through September 30, 2003. 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 # 19908

FOR: S-200 LEACHATE TREATMENT FACILITY

1. Emissions from this source shall not exceed the following limits:
 - a. 0.63 pounds of volatile organic compounds in any consecutive 24 hour period, (Basis: Regulation 8-2-301); and
 - b. 0.05 pounds of benzene in any consecutive 24-hour period. (Basis: Regulation 2-5-301)

2. To determine compliance with Part 1, above, the following procedures shall apply:
 - a. Influent and effluent leachate samples shall be collected and analyzed semiannually for benzene and total VOC concentrations according to the following source test methods: (Basis: Regulation 1-441)

Stream Name	VOC Test Method	Benzene Test Method
Leachate Influent	EPA SW 8240	EPA SW 8020
Leachate Effluent	EPA SW 8240	EPA SW 8020

- b. Emissions shall be calculated by applying 75% biodegradation efficiency (as demonstrated in startup source tests of July 20, 21, 22, 1993) to influent VOC and benzene concentrations.
 - c. If after 3 years of semi-annual monitoring, the emissions from S-200 are less than 80% of the emission limits in Part 1, then the monitoring frequency in Part 2a shall change to annually, and the annual test shall occur during the season with the highest historical concentrations.

3. The leachate influent flow rate to S-200 shall not exceed 72,000 gallons per day. (Basis: Cumulative Increase)

VI. Permit Conditions

Condition # 19908

FOR: S-200 LEACHATE TREATMENT FACILITY

4. To demonstrate compliance with the above Parts , the following records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record was made. (Basis: Regulation 1-441)

DAILY OPERATING RECORDS

- a. The days of operation
- b. The influent leachate flow rate
- c. The airflow rate to each aeration tank

MONITORING RECORDS

- d. Calculated emissions for benzene and Total VOC's expressed as pounds per day.

VI. Permit Conditions

Condition # 21474

FOR: S-9 IC ENGINE, DIESEL, 860 HP, 1649 CUBIC INCH (POWERING S-10 WASTE RECYCLER)
S-10 WASTE RECYCLER, TRACK MOUNTED-PORTABLE, PETERSON PACIFIC HC 5410, 80 TON/HR NOMINAL

1. The total hours of operation of the S-9 IC Engine and the S-10 Waste Recycler shall not exceed 1,200 hours during any consecutive 12-month period. (Basis: Cumulative Increase)
2. All incoming green waste (i.e. yard trimmings, green leaves, tree limbs, brush) shall be processed within 14 days, unless an odor nuisance is created. If an odor nuisance is created, the incoming green waste shall be processed within 72 hours from the time it is received to prevent wood decomposition and odors. (Basis: Regulations 1-301)
3. The total volume of green waste on-site at any one time shall not exceed 1500 cubic yards. (Basis: Cumulative Increase and Regulation 1-301)
4. The exhaust of S-9 IC Engine shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the Permit Holder shall take necessary corrective action to stop the emissions. (Basis: Regulations 2-1-403 and 6-1-401)
5. S-10 Waste Recycler shall not operate unless the integral water spray system and/or water spray truck A-1 is operated as needed to prevent visible dust emissions. (Basis: Cumulative Increase and Regulation 2-1-403)
6. Visible particulate emissions from S-10 shall not exceed Ringelmann 1.0 during any consecutive 3 minutes in any hour or result in fallout on adjacent property in such quantities as to cause a public nuisance. (Basis: Regulations 1-301, 6-1-301, and 6-1-305)
7. Continuous observation of S-10 Waste Recycler for visible emissions is required during all periods of operation. If visible emissions exceeding Ringelmann 1.0 are detected, the operator of the source shall take the necessary corrective action to stop the emissions. (Basis: Regulations 2-1-403 and 6-1-401)

VI. Permit Conditions

Condition # 21474

FOR: S-9 IC ENGINE, DIESEL, 860 HP, 1649 CUBIC INCH (POWERING S-10 WASTE RECYCLER)
S-10 WASTE RECYCLER, TRACK MOUNTED-PORTABLE, PETERSON PACIFIC HC 5410, 80 TON/HR NOMINAL

8. To demonstrate compliance with Parts 1-3, the Permit Holder shall maintain the following records in a District-approved logbook. The logbook shall be kept on-site and made available for District inspection for a period of at least 5 years from the date on which the record was made. (Basis: Cumulative Increase and Regulations 1-441, 2-6-501, and 9-1-304)
 - a. Daily records showing the hours of operation for S-9 and S-10. These records shall be summarized on a monthly basis.
 - b. Records of waste receipts (date and volume).
 - c. Records of processed waste removal (date and volume).
 - d. CARB emissions certification documentation for S-9.
 - e. Diesel fuel purchase records.
 - f. Monthly records of diesel fuel usage at S-9.

VI. Permit Conditions

Condition # 24451

FOR: S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

1. The owner/operator shall not exceed 20 hours per year per engine for reliability-related testing. [Basis: “Stationary Diesel Engine ATCM” Title 17, CA Code of Regulations, Section 93115.6(b)(3)(A)(1)(a) and Regulation 9-8-330]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, State or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, State or Federal emission limits is not limited. [Basis: “Stationary Diesel Engine ATCM” Title 17, CA Code of Regulations, Section 93115.6(b)(3)(A)(1)(a) and Regulation 9-8-330]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: “Stationary Diesel Engine ATCM” Title 17, CA Code of Regulations, Section 93115.10(d)(1) and Regulation 9-8-530]
4. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 60 months from the date of entry. Log entries shall be retained on-site, either at a central location or at the engine’s location, and made immediately available to the District staff upon request.
 - a. Hours of operation for reliability-related activities (maintenance and testing).
 - b. Hours of operation for emission testing to show compliance with emission limits.
 - c. Hours of operation (emergency).
 - d. For each emergency, the nature of the emergency condition.
 - e. Fuel usage for each engine.[Basis: “Stationary Diesel Engine ATCM” Title 17, CA Code of Regulations, Section 93115.10(f)(1), Regulation 2-6-501 and 9-8-530.]
5. The exhaust from the engine shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the Permit Holder shall take necessary corrective action to stop the emissions. (Basis: Regulations 2-1-403 and 6-1-401)

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.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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
Collection System Installation Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E	Records
Collection System Installation Dates	BAAQMD 8-34-304.2	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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
Collection System Installation Dates	BAAQMD 8-34-304.3	Y		For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E	Records
Collection System Installation Dates	40 CFR 60.753 (a)(2) and 60.755 (b)(2)	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2), and 60.759(a)(3)	P/E	Records
Collection System Installation Dates	40 CFR 60.753 (a)(1) and 60.755 (b)(1)	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2)	P/E	Records
Gas Flow	BAAQMD Condition # 19906, Parts 3, 4, 5	Y		70 Verticalwells, 28 horizontal collectors; All collected landfill gas shall be vented to a properly operating control system	BAAQMD Condition # 19906, Parts 11e- i	C, P/D	Gas Flow Meter and Recorder, and Records
Gas Flow	BAAQMD Condition # 19906, Part 5	Y		Vertical wells shall operate continuously. Horizontal collectors may operate intermittently.	BAAQMD Condition # 19906, Parts 5a-d and 11e-i	C, P/M, P/E	Gas Flow Meter and Recorder, Wellhead Pressure, Oxygen, and Methane, and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes), Records
Gas Flow	BAAQMD 8-34-404	Y		Specified landfill gas collection system components may operate less than continuously	BAAQMD 8-34-404.1-5 and BAAQMD Condition # 19906, Part 5	P/M	Wellhead Pressure, Oxygen, and Methane, Gas Flow, and Records
Gas Flow	40 CFR 60.752 (b)(2)(iii) and 40 CFR 60.753(a) and (e)	Y		Operate a collection system in each area or cell, vent all collected gases to a properly operating control system, and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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
Collection and Control Systems Startup Shutdown or Malfunction	40 CFR 60.755(e)	Y		For Collection System: < 5 days per event and For Control System: < 1 hour per event	40 CFR 60.7(b), 60.757(f) (2-4)	P/D	Operating Records (all occurrences and duration of each)
Startup Shutdown or Malfunction Procedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		< 15 consecutive days per incident and ≤ 30 calendar days per 12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig (applies to all wells or collectors that are connected to the vacuum system)	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly Inspection and Records
Wellhead Pressure	40 CFR 60.753(b)	Y		< 0 psig (Applies to all wells or collectors that are connected to the vacuum system)	40 CFR 60.755(a)(3), 60.756(a)(1), and 60.758(c) and (e)	P/M	Monthly Inspection and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 °C (Applies to all wells or collectors that are connected to the vacuum system)	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records
Temperature of Gas at Wellhead	40 CFR 60.753(c)	Y		< 55 °C (Applies to all wells or collectors that are connected to the vacuum system)	40 CFR 60.755(a)(5), 60.756(a)(3), and 60.758(c) and (e)	P/M	Monthly Inspection and Records
Gas Concentrations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y		N ₂ < 20% OR O ₂ < 5% (Applies to all wells or collectors that are connected to the vacuum system)	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records
Gas Concentrations at Wellhead	40 CFR 60.753(c)	Y		N ₂ < 20% OR O ₂ < 5% (Applies to all wells or collectors that are connected to the vacuum system)	40 CFR 60.755(a)(5), 60.756(a)(2), and 60.758(c) and (e)	P/M	Monthly Inspection and Records
Well Shutdown Limits	BAAQMD 8-34-116.2	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-116.3	Y		≤ 24 hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.4	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.5	Y		≤ 24 hours per well or ≤ 5 days per well for component replacements	BAAQMD 8-34-117.6 and 501.1	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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 (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with portable analyzer and Records
TOC	BAAQMD 8-34-303	Y		Surface Leak Limit: ≤ 500 ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection of surface with portable analyzer, Various Reinspection Times for Leaking Areas, and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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	40 CFR 60.753(d)	Y		Surface Leak Limit: ≤ 500 ppmv as methane at 5-10 cm from surface	40 CFR 60.755(c)(1), (4) and (5), 60.756(f), and 60.758(c) and (e)	P/M, Q and E	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas, and Records
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3	Y		≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% O ₂ , expressed as methane (applies to flare only)	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 19906, Part 9	P/A	Initial and Annual Source Tests and Records
NMOC	40 CFR 60.752(b)(2)(iii)(B)	Y		≥ 98% removal by weight OR < 20 ppmvd @ 3% O ₂ , expressed as hexane (applies to flare only)	40 CFR 60.8 and 60.752(b)(2)(iii)(B) and 60.758(b)(2)(ii)	P/E	Initial Source Test and Records
Temperature of Combustion Zone (CT)	BAAQMD Condition # 19906, Part 7	Y		CT ≥ 1400 °F, averaged over any 3-hour period (applies to flare only)	BAAQMD 8-34-501.3 and 507, and BAAQMD Condition # 19906, Part 11j	C	Temperature Sensor and Recorder (continuous)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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
Temperature of Combustion Zone (CT)	40 CFR 60.758 (c)(1)(i)	Y		CT (3-hour average) $\geq (CT_{PF} - 28 \text{ }^\circ\text{C})$, where CT_{PF} is the average combustion temperature during the most recent complying performance test (applies to flare only)	40 CFR 60.756(b)(1) and 60.758 (b)(2)(i)	C	Temperature Sensor and Recorder (measured every 15 minutes and averaged over performance test time period and 3-hours)
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to S-1 Landfill Operations)	BAAQMD Condition # 19906, Part 11d	P/E, M	Records of all site watering and road cleaning events
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to flare)	None	N	NA
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 grains/dscf (applies to flare only)	None	N	NA
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	NA
SO ₂	BAAQMD 9-1-302	Y		<u>Exhaust Gas From Flare:</u> ≤ 300 ppm (dry basis)	BAAQMD Condition # 19906, Part 8	P/Q	Sulfur analysis of landfill gas and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 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
Hydrogen Sulfide Content in Landfill Gas	BAAQMD Condition # 19906, Part 8	Y		≤ 1300 ppmv	BAAQMD Condition # 19906, Part 8 and 10.	P/Q	H ₂ S Analysis of Landfill Gas and Records
H ₂ 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
Amount of Waste Accepted	BAAQMD Condition # 19906, Part 1	Y		≤ 1500 tons/day and ≤ 11,348,000 tons (cumulative amount of all wastes) and ≤ 22,522,000 yd ³ (cumulative amount of all wastes and cover materials)	BAAQMD Condition # 19906, Part 11a	P/D	Records
Heat Input	BAAQMD Condition # 19906, Part 6	Y		≤ 1375 MM BTU per day and ≤ 412,560 MM BTU per year	BAAQMD Condition # 19906, Part 6	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII -C
 Applicable Limits and Compliance Monitoring Requirements
 S-10 WASTE RECYCLER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Operating Time	BAAQMD Condition # 21474, Part 1	Y		≤ 1200 hours during any consecutive 12-month period	BAAQMD Condition # 21474, Part 8a	P/D	Daily Record of Operating Hours
Waste Storage Time	BAAQMD Condition # 21474, Part 2	Y		≤ 14 days from time of receipt, provided waste is not odorous; AND ≤ 72 hours from time of receipt, if waste is or becomes odorous;	BAAQMD Condition # 21474, Part 8b-c	P/E	Records
Waste Storage Limit	BAAQMD Condition # 21474, Part 3	Y		<u>Cumulative Volume of Green Waste:</u> ≤ 1500 yd ³ <u>on-site at any one time</u>	BAAQMD Condition # 21474, Part 8b-c	P/E	Records
Opacity	BAAQMD 6-1-301 and SIP 6-301	Y		≤ Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 21474, Part 7	P/E	Observation of Source in Operation
Opacity	BAAQMD Condition # 21474, Part 6	Y		≤ Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 21474, Part 7	P/E	Observation of Source in Operation
FP	BAAQMD 6-1-311 and SIP 6-311	Y		$E = 0.026(P)^{0.67}$ where: E = Allowable Emission Rate (lb/hr); and P = Process Weight Rate (lb/hr) Maximum Allowable Emission Rate = 40 lb/hr For P > 57,320 lb/hr	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-200 LEACHATE TREATMENT FACILITY

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

VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII -E
 Applicable Limits and Compliance Monitoring Requirements
 S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-303 and SIP 6-303	Y		≤ Ringelmann 2.0 for 3 minutes in any hour	BAAQMD Condition # 24451, Part 5	P/E	Observation of Source in Operation
FP	BAAQMD 6-1-310 and SIP 6-310	Y		≤ 0.15 gr/dscf	None	N	NA
SO ₂	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 minutes and ≤ 0.05 ppm for 24 hours	None	N	NA
Liquid Fuel Sulfur Content	BAAQMD 9-1-304	Y		≤ 0.5% sulfur by weight	CCR, Title 13, section 2281(a) (2 and 5), CCR, Title 17, Sections 93115.5 and 93115.10, and BAAQMD Conditions # 24175, Part 8e-f, and # 24551, Part 4e	P/E	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -E
Applicable Limits and Compliance Monitoring Requirements
S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Liquid Fuel Sulfur Content	CCR, Title 17, Section 93115.5 (b) and CCR, Title 13, section 2281(a) (2 and 5)	N		Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: ≤ 15 ppmw of S (for fuel sold after 6/1/06)	CCR, Title 17, Sections 93115.5 and 93115.10 and BAAQMD Conditions # 24175, Part 8e-f, and # 24551, Part 4e	P/E	CARB Diesel Fuel Sulfur Content Limits, Sales Restrictions, Usage Requirements, and Records
Operating Hours	CCR, Title 17, Section 93115.6 (b)(3)(A) (1)(a)	N		Operating Hours for Reliability-Related Activities: ≤ 20 hours in a calendar year (for engines emitting ≥ 0.40 g/bhp-hr of diesel PM)	CCR, Title 17, Section 93115.10 (d)(1) and (f)(1)	P/C & P/M	Hour Meter and Records
Operating Hours	BAAQMD 9-8-330.2	N	expires 1/1/12	Operating Hours for Reliability-Related Activities: ≤ 100 hours in a calendar year	BAAQMD 9-8-530	P/C & P/M	Hour Meter and Records
Operating Hours	BAAQMD 9-8-330.3	N	1/1/12	Operating Hours for Reliability-Related Activities: ≤ 20 hours in a calendar year	BAAQMD 9-8-530 and BAAQMD Condition # 24451, Part 4	P/C & P/M	Hour Meter and Records
Hours of Operation	40 CFR 63.6640 (f)(1)(ii)	Y	5/3/13	≤ 100 hours each per calendar year for maintenance checks and readiness testing	40 CFR 63.6625(f) and 63.6655(f)(2)	C and P/M	Totalizing meter for hours of operation and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -E
Applicable Limits and Compliance Monitoring Requirements
S-201 EMERGENCY STANDBY DIESEL ENGINE – GENERATOR SET

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

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-1-301 and SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-303 and SIP 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions; or EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-310 and SIP 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; EPA Reference Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-1-311 and SIP 6-311	Process Weight Rate Based Emissions Limits	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or EPA Reference Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 8-2-301 and SIP 8-2-301	Total Organic Compound (TOC) Mass and Concentration Limitations for Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling; or EPA Reference Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, or EPA Reference Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer
BAAQMD 8-34-301.2	Collection and Control System Component Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.3	NMOC Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; 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	Wellhead Gauge Pressure	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**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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 ₂)	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO ₂)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling
BAAQMD 9-1-304	Liquid Fuel Sulfur Content Limit	Manual of Procedures, Volume III, Method 10, Determination of Sulfur Content Fuel Oil, or ASTM D2622-94 CARB Approved Equivalent
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
CCR Title 13, Section 2281 (a)(2 and 5)	Liquid Fuel Sulfur Content Limit	ASTM D2622-94 or CARB Approved Equivalent
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
40 CFR 60.752 (b)(2)(iii)(B)	NMOC Outlet Concentration and Destruction Efficiency Limits	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
40 CFR 60.753(b)	Wellhead Pressure Limit	APCO Approved Device
40 CFR 60.753(c)	Temperature, N ₂ , and O ₂ Concentration Limits in Wellhead Gas	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
40 CFR 60.753(d)	Methane Limit at Landfill Surface	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks

VIII. Test Methods

**Table VIII
 Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60.758 (c)(1)(i)	Flare Combustion Zone Temperature Limit	Temperature Monitor and continuous recorder meeting the requirements of 40 CFR Part 60.756(b)(1)
BAAQMD Condition # 19906, Part 6	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 19906, Parts 6 and 10
BAAQMD Condition # 19906, Part 7	Flare Combustion Zone Temperature Limit	APCO Approved Device
BAAQMD Condition # 19906, Part 8	Hydrogen Sulfide Limit in Landfill Gas	Manual of Procedures, Volume III, Method 5 Determination of Total Mercaptans in Effluents and Method 25 Determination of Hydrogen Sulfide in Effluents, or Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods; and Portable H ₂ S analyzer used in accordance with manufacturer's recommended procedures
BAAQMD Condition #19906, Part 9	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 # 19906, Part 10	Characterization of landfill gas	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; and Manual of Procedures, Volume III, Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods
BAAQMD Condition # 19908, Part 1a	VOC Limits	EPA SW 8240 and calculation procedure described in BAAQMD Condition # 19908, Part 2b
BAAQMD Condition # 19908, Part 1b	Benzene Limits	EPA SW 8020 and calculation procedure described in BAAQMD Condition # 19908, Part 2b

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition 21474, Part 6	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions

IX. PERMIT SHIELD

No permit shield has been requested or is applicable.

X. REVISION HISTORY

Title V Initial Permit Issuance (Application # 3071)

April 17, 2003

Title V Permit Renewal (Application #16969)

December 14, 2011

- Correct the Table of Contents: add Section X Revision History, renumber the Glossary to Section XI, and remove Section XI Applicable State Implementation Plan.
- Correct and update regulatory amendment dates in Section I.
- Add and revise text in Section I, III, IV, VII, and VIII to conform to current standard text.
- In Section II, Table II-A, remove sources S-4 and S-5, and add sources S-10, and S-201.
- Add Section II, Table II-C, Exempt Sources, S-9.
- Update regulatory amendment dates, remove obsolete SIP citations, and add additional applicable requirements to Table III.
- Remove Tables IV-B and VII-B for S-4 IC Engine (powering S-5).
- Remove Tables IV-C and VII-C for S-5 Green Waste Tub Grinder.
- Add Tables IV-C and VII-C for S-10 Waste Recycler.
- Add Tables IV-E and VII-E for S-201 Emergency Standby Diesel Engine – Generator Set
- Update regulatory amendment dates and descriptions, add SIP provisions, and delete unnecessary future effective dates in Tables IV-A, IV-D, VII-A, VII-D, and VIII.
- In Tables IV-A and VII-A, delete provisions of 40 CFR Part 60, Subpart CC, and add provisions of 40 CFR Part 60, Subpart WWW. The NSPS provisions were triggered with the application to increase the total landfill height, Application #5630, issued September 17, 2002.
- In Section VI, Condition 19906, Part 1 and Table VII-A, correct the total cumulative amount of wastes in place limit.
- In Condition 19906, Part 2, correct the regulatory citations in the basis.
- In Condition 19906, Part 4 and Table VII-A, increase the number of allowed new vertical wells, and add start-up notice provision.

X. Revision History

- In Condition 19906, Part 8 (and in Tables VII-A and VIII), change the Draeger Tube monitoring requirement to a District-approved analyzer.
- In Condition 19906, Part 9, remove total hydrocarbons from list of compounds to test and correct source testing text to conform with standard procedures.
- In Condition 19906, Part 10, specify list of compounds in the landfill gas to be analyzed and correct basis.
- In Section VI, Condition 19908, Part 2 and Table VII-D, decrease the sampling frequency for influent and effluent leachate from quarterly to semiannually and add an allowance to reduce sampling frequency to an annual basis after 3 years if emissions are less than 80% of limits.
- In Condition 19908, Part 3 and Table VII-D, increase the maximum leachate inflow rate to 72,000 gallons/day to accommodate increase leachate seepage during winter wet weather. The maximum allowed emissions in Part 1 will not change with this change in leachate flow rate.
- In Section VI, remove Condition # 19911 for S-4 and S-5.
- In Section VI, add Condition # 21474 for S-9 and S-10.
- In Section VI, add Condition # 24451 for S-201.
- In Section VII, add symbols (\leq and \geq) to clarify applicable limits in Tables VII-A-E.
- In Section VIII, add several missing EPA reference methods to Table VIII.
- In Table VIII, add test methods and calculation procedures for CARB diesel fuel sulfur limits and CARB diesel PM emission limits for stationary and portable diesel fired IC engines.
- In Table VIII, add test methods for new permit conditions that have emission limits.
- In Section X, update the revision history by adding descriptions of permit revisions.
- In Section XI, add numerous terms to the glossary.
- Remove Section XII (formerly Section XI) Applicable State Implementation Plan to conform to current standard MFR permit format.

XI. GLOSSARY

ACT

Federal Clean Air Act

AP-42

An EPA Document “Compilation of Air Pollution Emission Factors” that is used to estimate emissions from numerous source types. It is available electronically from EPA’s web site at: <http://www.epa.gov/ttn/chief/ap42/index.html>

APCO

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

ARB

Air Resources Board

ASTM

American Society for Testing and Materials

ATC

Authority to Construct

ATCM

Airborne Toxic Control Measure

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority that allows the District to impose requirements.

C1

An organic chemical compound with one carbon atom, for example: methane

C3

An organic chemical compound with three carbon atoms, for example: propane

XI. Glossary

C5

An organic chemical compound with five carbon atoms, for example: pentane

C6

An organic chemical compound with six carbon atoms, for example: hexane

C₆H₆

Benzene

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)

CCR

California Code of Regulations

CEC

California Energy Commission

CEQA

California Environmental Quality Act

CEM

A “continuous emission monitor” is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NO_x concentration) in an exhaust stream.

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.

CH₄ or CH₄

Methane

XI. Glossary

CI
Compression Ignition

CIWMB
California Integrated Waste Management Board

CO
Carbon Monoxide

CO₂ or CO₂
Carbon Dioxide

CT
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

E6, E9, E12
Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53E6 equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EG
Emission Guidelines

EO
Executive Order

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District regulations.

XI. Glossary

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.

FR

Federal Register

GLM

Ground Level Monitor

Grains

1/7000 of a pound

H₂S or H₂S

Hydrogen Sulfide

H₂SO₄ or H₂SO₄

Sulfuric Acid

H&SC

Health and Safety Code

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.

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

XI. Glossary

LFG

Landfill gas

LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60°F.

Long ton

2200 pounds

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.

MSDS

Material Safety Data Sheet

MSW

Municipal solid waste

MW

Molecular weight

N2 or N₂

Nitrogen

XI. Glossary

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NaOH

Sodium Hydroxide

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)

NO₂ or NO₂

Nitrogen Dioxide

NO_x or NO_x

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.)

O₂ or O₂

Oxygen

XI. Glossary

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, NOx, PM10, and SO2.

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

PM10 or PM₁₀

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

PSD

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.

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

RMP

Risk Management Plan

RWQCB

Regional Water Quality Control Board

S

Sulfur

XI. Glossary

SCR

A “selective catalytic reduction” unit is an abatement device that reduces NOx concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates within a specific temperature range, and injected ammonia to promote the conversion of NOx compounds to nitrogen gas.

Short ton

2000 pounds

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.

SO₂ or SO₂

Sulfur dioxide

SO₃ or SO₃

Sulfur trioxide

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.

TAC

Toxic Air Contaminant (as identified by CARB)

THC

Total Hydrocarbons (NMHC + Methane)

therm

100,000 British Thermal Units

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)

XI. Glossary

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Policy

TRS

Total Reduced Sulfur, which is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VMT

Vehicle Miles Traveled

VOC

Volatile Organic Compounds

Symbols:

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

Units of Measure:

atm	=	atmospheres
bbl	=	barrel of liquid (42 gallons)
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 ³	=	cubic feet

XI. Glossary

g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour
lb	=	pound
lbmol	=	pound-mole
in	=	inches
kW	=	kilowatts
m ²	=	square meter
m ³	=	cubic meters
min	=	minute
mm	=	million
MM	=	million
MM BTU	=	million BTU
M cf	=	one thousand cubic feet
MMcf	=	million cubic feet
Mg	=	mega grams
MW	=	megawatts
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 ³	=	cubic yards
yr	=	year