Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

City of Sunnyvale Water Pollution Control Facility #A0733

Facility Address:
1444 Borregas Ave.
Sunnyvale, CA 94089

Mailing Address:
P.O. Box 3707
Sunnyvale, CA 94088

Responsible Official	**Facility Contact**
Marvin A. Rose	John Addeo
Director of Public Works	Operations Manager
(408) 730-7441	(408) 730-7261

Type of Facility:	Public-Owned Treatment Works	BAAQMD Engineering Contact
Primary SIC:	4952	Hon-Ting Man
Product:	Municipal Wastewater Treatment Facility	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent _____ December 28, 2007____
Jack P. Broadbent, Executive Officer /Air Pollution Control Officer Date

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I. Standard Conditions

I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00),
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

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

This Major Facility Review Permit was issued on December 28, 2007 and expires on December 27, 2012. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 27, 2012 and no earlier than December 27, 2011. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** December 27, 2012**.** If the permit renewal has not been issued by December 27, 2012, 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)

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 reissuance, 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

I. Standard Conditions

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

I. Standard Conditions

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 entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

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

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

I. Standard Conditions

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)

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)

K. Accidental Release

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

XI. II. EQUIPMENT LIST

Table II-A

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

S-#	Description	Make or Type	Model	Capacity
S-14	Engine Generator (landfill gas, digester gas, natural gas) (Existing after 6/15/97)	Caterpillar	3516	8.2 MMbtu/hr, 1150 hp
S-15	Engine Generator (landfill gas, digester gas, natural gas) (Existing after 6/15/97)	Caterpillar	3516	8.2 MMbtu/hr, 1150 hp
S16	Influent pump #1 – IC Engine (Digester gas)	Waukesha	NKR 1905	2.52 MMbtu/hr, 224 HP, Displacement 1905 cubic inches
S-17	Influent pump #2 – IC Engine (Digester gas)	Waukesha	NKR 1905	2.52 MMbtu/hr, 224 HP, Displacement 1905 cubic inches
S-18	Influent pump #3 – IC Engine (Digester gas)	Waukesha	NKR 1905	2.52 MMbtu/hr, 224 HP, Displacement 1905 cubic inches
S-19	Emergency Natural Gas Standby Generator	Ford	LSG875	1.7 MMbtu/hr, 200 HP, Displacement 460 cubic inches
S-20	Parts Washer	Model I	52150	20 Gallons
S-100	Municipal Wastewater Treatment Plant	custom		
S-110	Preliminary Treatment	custom		29.5 MM gal/day
S-120	Primary Treatment	custom		29.5 MM gal/day
S-130	Secondary Treatment	custom		29.5 MM gal/day
S-140	Tertiary Treatment	custom		29.5 MM gal/day
S-150	Disinfection	custom		29.5 MM gal/day
S-161	Solids Dewatering System	custom		29.5 MM gal/day
S-170	Anaerobic Digesters	custom		29.5 MM gal/day

II. Equipment List

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-12	Waste Gas Burner, Pedestal Type, Digester gas	S-170	BAAQMD Regulation 8-2-30	None	15 lb/day or 300 PPM total carbon on a dry basis
A-13	Waste Gas Flare, Digester gas	S-170	BAAQMD Regulation 8-2-30	None	15 lb/day or 300 PPM total carbon on a dry basis

XII. 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 SIP requirements is on EPA Region 9's website. The address is http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1.

NOTE:

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

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD Regulation 2-1-429	Federal Emissions Statement (6/7/95)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	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 (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	N
SIP Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds-Solvent Cleaning Operation (9/16/98)	Y
SIP Regulation 8, Rule 16	Organic Compounds-Solvent Cleaning Operation (9/16/98)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/94)	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 (12/20/95)	N
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants-Sulfur Dioxide (3/15/95)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants-Hydrogen Sulfide (10/6/99)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	Y
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

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y

XIII. IV.SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is: http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1. All other text may be found in the regulations themselves.

Table IV-A
Source-specific Applicable Requirements
S-14 Engine Generator
S-15 Engine Generator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-107	Combinations of Emissions	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of in-operation > 24 hours	Y	
1-523.2	Limit on duration of in operation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of in-operation, 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]	

IV. Source Specific Applicable Requirements

Table IV-A
Source-specific Applicable Requirements
S-14 Engine Generator
S-15 Engine Generator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-523.3	Reports of Violations	Y[1]	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8	**Organic Compounds**		
8-2-301	15 lb/day or 300 PPM total carbon on a dry basis	Y	
BAAQMD Regulation 8, Rule 34	**Organic Compounds – Solid Waste Disposal Sites (10/6/99)**		
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	Record keeping Requirement	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	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	

IV. Source Specific Applicable Requirements

Table IV-A
Source-specific Applicable Requirements
S-14 Engine Generator
S-15 Engine Generator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide (March 15, 1995)**		
9-1-301	Ground level of SO2 < 0.5 PPM for 3 consecutive minutes, or 0.25 PPM averaged over 60 consecutive minutes, or 0.05 PPM averaged over 24 hours	Y	
9-1-302	Concentration of SO2 at the outlet < 300 PPM (dry)	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants, Hydrogen Sulfide (October 6, 1999)**		
9-2-301	Ground level concentration of hydrogen sulfide < 0.03 PPM averaged over 60 consecutive minutes	Y	
BAAQMD Regulation 9 Rule 8	**NOx and CO requirements for Stationary Internal Combustion Engines (8/1/01)**	**Y**	
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.2	NOx Emission Limit for Lean Burn Engines	Y	
9-8-301.3	CO Emission Limit for Lean Burn Engines	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx Emission Limit for Lean Burn Engines	Y	
9-8-302.3	CO Emission Limit for Lean Burn Engines	Y	
BAAQMD Cond #10844			
Part 1	Fuel Restrictions (Offsets and Cumulative Increase)	Y	
Part 2	Heat Input Limits (Offsets and Cumulative Increase)	Y	
Part 3	Continuous operating requirement (Regulation 8-34-301.1)	Y	
Part 4	Emission rate Requirements for POC, CO and NOx (BACT, Offset)	Y	
Part 5	Gas flow meter and recorder requirement (Offsets and Cumulative Increase)	Y	

IV. Source Specific Applicable Requirements

Table IV-A
Source-specific Applicable Requirements
S-14 Engine Generator
S-15 Engine Generator

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	Annual source test requirement (BACT and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)	Y	
Part 7	Record keeping requirements (BACT, Offsets, Cumulative Increase, and Regulation 8-34-501)	Y	
Part 8	Establish air to fuel ratio setting range and exhaust gas oxygen content range, or other proposed key emission control system operating parameters to be approved by the APCO, and establish monitoring requirements	Y	
Part 9	Sulfur content limit of landfill gas and digester gas, and monitoring requirements (Regulation 9-1-302)	Y	

* This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation

Table IV – B
Source-specific Applicable Requirements
S-16 Influent Pump #1 – IC Engine
S-17 Influent Pump #2 – IC Engine
S-18 Influent Pump #3 – IC Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**	N	
1-107	Combination of Emissions	N	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions**	Y	
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible particles	Y	
6-310	Particulate weight limitation	Y	
6-401	Appearance of emissions	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S-16 Influent Pump #1 – IC Engine
S-17 Influent Pump #2 – IC Engine
S-18 Influent Pump #3 – IC Engine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8	**Organic Compounds**		
8-2-301	15 lb/day or 300 PPM total carbon on a dry basis	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide (March 15, 1995)**	Y	
9-1-301	Limitations on Ground Level Concentrations of sulfur dioxide	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants, Hydrogen Sulfide (October 6, 1999)**	Y	
9-2-301	Ground level concentration of hydrogen sulfide < 0.03 PPM averaged over 60 consecutive minutes	N	
BAAQMD Cond #19978			
Part 1	Visible emissions of particulate matter	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S-19 EMERGENCY NATURAL GAS FIRED STANDBY GENERATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (December 19, 1990)**	Y	
6-303	Ringelmann No. 2 Limitation	Y	
6-305	Shall not emit particles to cause annoyance to other person	Y	
6-310	Particulate matter < 343 mg per dscm of exhaust gas volume	Y	
6-401	Operator shall be able to know the appearance of the emission at all times	Y	
BAAQMD Regulation 9 Rule 1	**Inorganic Gaseous Pollutants, Sulfur Dioxide (March 15, 1995)**	Y	
9-1-301	Limitations on Ground Level Concentrations of sulfur dioxide	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9 Rule 8	**Inorganic Gaseous Pollutants, NOx and CO from IC engines (August 1, 2001)**	Y	
9-8-331	200 hours of operation limit on reliability-related activities	N	
9-8-530	Monitoring and recordkeeping requirements	N	
BAAQMD Cond #19929			
Part 1	Hours of operation limit on reliability-related activities (Basis: Regulation 9-8-331)	Y	
Part 2	Recording equipment (Basis: Regulation 9-8-530)	Y	
Part 3	Record of hours of operation (Basis: Regulation 9-8-530)	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-20 PARTS WASHERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 16	**Solvent Cleaning Operations (10/16/02)**	**Y**	
8-16-303	Cold Cleaner Requirements	Y	
8-16-501	Solvent Records	Y	
SIP Regulation 8, Rule 16	**Organic Compounds-Solvent Cleaning Operation (9/16/98)**	**Y**	
BAAQMD Cond #19929			
Part 1	Usage limit (Basis: Plant Cumulative Increase)	Y	
Part 2	Record keeping (Basis: Plant Cumulative Increase)	Y	

Table IV-E
Source-specific Applicable Requirements
S-100 Municipal Wastewater Treatment Plant
S-110 Preliminary Treatment
S-120 Primary Treatment
S-130 Secondary Treatment
S-140 Tertiary Treatment
S-150 Disinfection
S-161 Solids Dewatering System

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	**Organic Compounds-Miscellaneous Operation (6/15/94)**		
8-2-301	Miscellaneous Operations Standards	Y	

IV. Source Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S-170 Anaerobic Digesters

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	**Organic Compounds-Miscellaneous Operation (6/15/94)**	Y	
8-2-301	Miscellaneous Operations Standards	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants-Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations of Hydrogen Sulfide	N	

XIV. V. SCHEDULE OF COMPLIANCE

A. STANDARD 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.

B. CUSTOM SCHEDULE OF COMPLIANCE

The owner/operator is out of compliance with the requirements in BAAQMD Regulation 8, Rule 34, because Sources S-14 and S-15, Engines, are used to abate the landfill at Facility A5095, but the equipment is not in complete compliance.

The section with which the facility does not comply is 509. Therefore, the District is imposing the following Schedule of Compliance.

Milestones
Within three months of issuance of Title V renewal permit:

Submit a source test protocol to the Source Test Section at the District for determination of key emission control system operating parameters pursuant to BAAQMD Regulations 8-34-301.4 and 509 for Sources S-14 and S-15, Engines.

Within six months of issuance of Title V renewal permit:

Conduct source tests to determine key emission control system operating parameters pursuant to BAAQMD Regulations 8-34-301.4 and 509 for Sources S-14 and S-15, Engines.

Within seven months of issuance of Title V renewal permit:

Submit application for a revision of the District and Title V permits to include key emission control system operating parameters pursuant to BAAQMD Regulations 8-34-301.4 and 509 for Sources S-14 and S-15, Engines.

Within 3 months of approval of key emission control system operating parameters:

Purchase and/or install monitoring equipment to monitor key emission control system operating parameters pursuant to BAAQMD Regulations 8-34-301.4 and 509. Initiate recordkeeping for key emission control system operating parameters.

Reporting Requirements
Progress reports shall be submitted on the last day of every month to the Director of Enforcement until the above actions are completed. The progress reports shall contain the date by which the item in the custom schedule of compliance was achieved or an explanation of why the item was not achieved by the above date and any corrective measures adopted.

V. Schedule of Compliance

The period of non-compliance with these requirements is automatically terminated on the date that all items above are complete. Significant revision procedures will be used to delete the Custom Schedule of Compliance after completion.

VI. PERMIT CONDITIONS

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

Condition 10844
For Sources S-14 and S-15, Engine Generators

1. The Engine Generators (S-14 and S-15) shall be fired on landfill gas, digester gas and natural gas exclusively. (Basis: Offsets and Cumulative Increase)

2. The heat input to S-14 and S-15 shall not exceed 200 million BTUs per day per generator nor 72,000 million BTUs per generator during any consecutive 12-month period. (Basis: Offsets and Cumulative Increase)

3. S-14 and S-15 shall operate continuously during all times that landfill gas and digester gas are vented to them. (Basis: Regulation 8-34-301.1)

4. The emission rates from the Engine Generator No. 4 (S-14) and Engine Generator No. 5 (S-15) shall not exceed:
   a. 0.3 gram/bhp-hr for POC,
   b. 2.5 gram/bhp-hr for CO; and
   c. 1.5 gram/bhp-hr for NOx. (Basis: BACT, Offsets)

5. In order to demonstrate compliance with part 2, S-14 and S-15 shall be equipped with gas flow meters and recorders that record the gas flow rates of landfill gas, digester gas and natural gas at least every 15 minutes. (Basis: Offsets and Cumulative Increase)

6. In order to demonstrate compliance with part 4 above and Regulations 8-2-301, 8-34-301.4, 9-8-302.1, and 9-8-302.3, the Permit Holder shall ensure that a District approved source test is conducted annually on S-14 and S-15. Source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They 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 of the District within 45 days of the test date. The report shall include the following information:

   a. landfill gas and digester gas flow rates to S-14 and S-15 (dry basis);
   b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), and non-methane organic compounds (NMOC) in the landfill gas and digester gas;
   c. exhaust gas flow rates from S-14 and S-15 (dry basis);

VI. Permit Conditions

d. concentrations (dry basis) of NO_x, CO, NMOC, and O_2 in the exhaust gas from S-14 and S-15;
e. the NMOC destruction efficiency achieved by S-14 and S-15; and
f. the average air to fuel ratio setting range and exhaust gas oxygen content range, or other proposed key emission control system operating parameters approved by the APCO, for S-14 and S-15 that is required to maintain compliance with part 4 above and Regulation 8-34-301.4.

(Basis: BACT, and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)

8. The Permit Holder shall maintain the following records:

a. Records of all start up and shut down dates and times and the reason for any shut downs for S-14 and S-15.
b. Records of landfill gas, digester gas and natural gas throughputs to S-14 and S-15.
c. On a monthly basis calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentrations in the landfill gas and digester gas (as measured during the most recent source test), a high heating value for methane of 1013 BTU/ft^3 at 60 degrees F, and the amounts of landfill gas and digester gas burned in each generator.
d. Records of all compliance demonstration test data.

All records shall be retained on site for a minimum of 5 years and shall be made available to District staff upon request. (Basis: BACT, Offsets, Cumulative Increase, and Regulation 8-34-501)

9. Within 3 months of renewal of the MFR Permit, the permit holder of S-14 and S-15 shall submit a source test protocol to the District to establish the air to fuel ratio setting range and exhaust gas oxygen content range, or other proposed key emission control system operating parameters to be approved by the APCO, that S-14 and S-15 shall be operated at to demonstrate compliance with Regulation 8-34-301.4 NMOC reduction efficiency. Within 3 months, the permit holder shall identify monitoring equipment, procedures and monitoring frequency for those agreed key parameter measurements. The Engineering Division and Source Test Section of the District shall review and approve these key parameters, source test protocols, and monitoring requirements.

Within 3 months of receiving the APCO's approval of the above, the permit holder shall conduct source tests to determine source specific ranges for the key parameters and shall submit test results within 60 days of conducting source test. The Source Test Section of the District shall review and approve test results. The Engineering Division of the District shall modify permit conditions to include the source key parameters, operating ranges/limits, and the final monitoring

VI. Permit Conditions

procedures and frequency using minor permit revision procedures in accordance with BAAQMD Regulation 2-6-414. The MFR Permit shall be modified to reflect these condition revisions.

9. Total reduced sulfur compounds in the collected landfill gas and digester gas shall be monitored as a surrogate for monitoring sulfur dioxide in control system's exhaust. The concentrations of total reduced sulfur compounds in the collected landfill gas and digester gas shall not exceed 1300 ppmv (dry). In order to demonstrate compliance with this part, the permit holder shall measure the total sulfur content in collected landfill gas and digester gas on a quarterly basis using a Draeger Tube. The samples of landfill gas and digester gas shall be taken from their respective main gas headers. The permit holder shall follow the manufacturer's recommended procedures for using the Draeger Tube and interpreting the results. The permit holder shall conduct the first Draeger Tube test no later than 3 months after the renewal date of the MFR Permit and quarterly thereafter. (Basis: Regulation 9-1-302)

Condition 19929

S-19 Emergency Natural Gas Fired Standby Generator

REQUIREMENTS FOR ESSENTIAL EMERGENCY ENGINES: An essential emergency engine is one that is used in the service of an essential public service. An essential public service is defined in Reg. 9-8-233 as: a sewage treatment facility, and associated collection system, which is publicly owned and operated; water treatment and delivery operations; public transit; police or fire fighting facility; airport runway lights; or a hospital or other medical emergency facility.

1. Hours of Operation: The owner/operator shall operate the emergency standby engine(s) only to mitigate emergency conditions or for reliability- related activities. Operating while mitigating emergency conditions is unlimited. Operating for reliability-related activities is limited to 200 hours per any calendar year. [Basis: Reg. 9-8-331]

   "Emergency Conditions" is defined as any of the following:
   a. Loss of regular natural gas supply.
   b. Failure of regular electric power supply.
   c. Flood mitigation.
   d. Sewage overflow mitigation.
   e. Fire.
   f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor.

   [Basis: Reg. 9-8-231]

VI. Permit Conditions

"Reliability-related activities" is defined as any of the following:
a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
b. Operation of an emergency standby engine during maintenance of a primary motor.
[Basis: Reg. 9-8-232]

2. The owner/operator shall equip the emergency standby engine(s) with either:
   a. non-resettable totalizing meter that measures and records the hours of operation for the engine.
   b. a non-resettable fuel usage meter.

   [Basis: Reg. 9-8-530]

3. Records: The owner/operator shall maintain the following monthly records in a District-approved log for at least 5 years and shall make the log available for District inspection upon request:
   a. Hours of operation (total).
   b. Hours of operation (emergency).
   c. For each emergency, the nature of the emergency condition.

   [Basis: Reg. 9-8-530]

Condition 19930

S-20 Parts Washer, Model I-52150, 20 Gallons

1. The net solvent usage at the Parts Washer (S-20) shall not exceed 50 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]

2. To demonstrate compliance with Part #1, the monthly net usage of solvent shall be maintained in a District approved log. These usage records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made.

   [Basis: Plant Cumulative Increase]

Condition 19978
S-16 Influent Pump: Digester Gas Engine, Make: Waukesha, Model: NKR 1905, Horsepower Rating: 224 HP.
S-17 Influent Pump: Digester Gas Engine, Make: Waukesha, Model: NKR 1905, Horsepower Rating: 224 HP.

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S-18 Influent Pump: Digester Gas Engine, Make: Waukesha, Model: NKR 1905, Horsepower Rating: 224 HP.

1. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour that is as dark or darker than Ringelmann 1 or equivalent to 20% opacity. [Regulation 6]

2. Total reduced sulfur compounds in the collected digester gas shall be monitored as a surrogate for monitoring sulfur dioxide in control system's exhaust. The concentrations of total reduced sulfur compounds in the collected digester gas shall not exceed 1300 ppmv (dry). In order to demonstrate compliance with this part, the permit holder shall measure the total sulfur content in collected digester gas on a quarterly basis using a Draeger Tube. The samples of digester gas shall be taken from their respective main gas headers. The permit holder shall follow the manufacturer's recommended procedures for using the Draeger Tube and interpreting the results. The permit holder shall conduct the first Draeger Tube test no later than 3 months after the renewal date of the MFR Permit and quarterly thereafter. (Basis: Regulation 9-1-302)

XI. VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only 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), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-14 Engine Generator
S-15 Engine Generator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1.0 for < 3 minutes in any hour	N	N	N
FP	BAAQMD 6-310	Y		0.15 gr/dscf	N	N	N
NOX	BAAQMD 9-8-301.2	Y		140 ppmv @ 15% O2, dry	BAAQMD cond #10844, part ~~4~~ 6	P/A	Source test
	BAAQMD 9-8-302.1	Y		140 ppmv @ 15% O2, dry	BAAQMD cond #10844, part ~~4~~ 6	P/A	Source test
	BAAQMD cond #10844, part ~~1~~ 4c	Y		1.5 gram/bhp-hr	BAAQMD cond #10844, part ~~4~~ 6	P/A	Source test
CO	BAAQMD 9-8-301.3	Y		2000 ppmv @ 15% O2, dry	BAAQMD cond #10844, part ~~4~~ 6	P/A	Source test

VII. Applicable Limits & Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-14 Engine Generator
S-15 Engine Generator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD 9-8-302.3	Y		2000 ppmv @ 15% O2, dry	BAAQMD cond #10844, part ~~4~~ 6	P/A	Source test
	BAAQMD cond #10844, part ~~1~~ 4b	Y		2.5 gram/bhp-hr	BAAQMD cond #10844, part ~~4~~ 6	P/A	Source test
POC	BAAQMD cond #10844, part ~~1~~ 4a	Y		0.3 gram/bhp-hr	BAAQMD cond #10844, part 6	~~N~~ P/A	Source test
POC	BAAQMD 8-2-301	Y		15 lb/day or 300 PPM total carbon (dry basis)	BAAQMD cond #10844, part 6	P/A	Source test
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4	Y		> 98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 10844, Part 6	P/A	Initial and Annual Source Tests and Records
TOC (Total Organic Com-pounds Plus Methane)	BAAQMD 8-34-301.2	Y		< 1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 8-34-503	P/Q	Quarterly Inspection and Records

VII. Applicable Limits & Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-14 Engine Generator
S-15 Engine Generator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 10844, Part 9	Y		< 1300 ppmv	BAAQMD Condition # 10844, Part 9	P/Q	Sulfur analysis of landfill gas
Total Sulfur Content in Digester Gas	BAAQMD Condition # 10844, Part 9	Y		< 1300 ppmv	BAAQMD Condition # 10844, Part 9	P/Q	Sulfur analysis of landfill gas
H_2S	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
SO2	BAAQMD 9-1-301	Y		Ground level concentration of 0.5 ppm continuously for 3 consecutive minutes, or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours	N	N	N
SO2	BAAQMD 9-1-302	Y		SO2 shall not exceed 300 ppm (dry)	BAAQMD Condition # 10844, part 9	P/Q	Sulfur analysis of landfill gas and digester gas
Reduced sulfur	BAAQMD Condition # 10844, Part 9	Y		1300 ppmv (dry) total reduced sulfur	BAAQMD Condition # 10844, Part 9	P/Q	Reduced sulfur analysis

VII. Applicable Limits & Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-14 Engine Generator
S-15 Engine Generator

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat Input	BAAQMD Condition # 10844, Part 2	Y		< 200 MM BTU per generator per day and < 72,000 MM BTU per generator per consecutive 12-month period	BAAQMD Condition # 10844, part 5	C	Gas Flow Meter and Recorder and Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		< 240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 10844, Part 7a	P/D	Records
Air to fuel ratio setting	BAAQMD Condition # 10844, Part 8	Y		To be established during first source test conducted after permit issuance	BAAQMD 8-34-507 and 8-34-509	P/D	Inspection and record keeping
exhaust O2 content	BAAQMD Condition # 10844, Part 8	Y		To be established during first source test conducted after permit issuance	BAAQMD 8-34-507 and 8-34-509	C	O2 meter
Periods of Inopera-tion for Para-metric 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	Records of occurrence and duration

VII. Applicable Limits & Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-16 Influent Pump #1 – IC Engine, 224 HP
S-17 Influent Pump #2 – IC Engine, 224 HP
S-18 Influent Pump #3 – IC Engine, 224 HP

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		No. 1 on Ringelmann Chart for 3 minutes in any hour	N	N	N
Opacity	BAAQMD cond #19978, part 1	Y		No. 1 on Ringelmann Chart or 20% opacity for 3 minutes in any hour	N	N	N
FP	BAAQMD 6-310	Y		0.15 gr/dscf	N	N	
POC	BAAQMD 8-2-301	Y		15 lb/day or 300 PPM total carbon (dry basis)	N	N	N
SO2	BAAQMD 9-1-301	Y		Ground level concentration of 0.5 ppm continuously for 3 consecutive minutes, or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours	N	N	N
SO2	BAAQMD 9-1-302	Y		300 ppm in the gas stream	BAAQMD Condition 19978 Part 2	P/Q	Sulfur analysis of digester gas

VII. Applicable Limits & Compliance Monitoring Requirements

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-19 EMERGENCY NATURAL GAS FIRED STANDBY GENERATOR

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	6-303	Y		No. 2 on Ringelmann Chart for 3 minutes in any hour	N	N	N
FP	BAAQMD 6-310	Y		0.15 gr/dscf	N	N	N
SO2	BAAQMD 9-1-301	Y		Ground level concentration of 0.5 ppm continuously for 3 consecutive minutes, or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours		N	
SO2	BAAQMD 9-1-302	Y		300 ppm in the gas stream	N	N	N

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-20 PARTS WASHERS

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD cond #19930, part 1	Y		50 gallons of solvent a year	BAAQMD cond #19930, part 2	Monthly	Record keeping

VII. Applicable Limits & Compliance Monitoring Requirements

Table VII-E
Applicable Limits and Compliance Monitoring Requirements
S-100 Municipal Wastewater Treatment Plant
S-110 Preliminary Treatment
S-120 Primary Treatment
S-130 Secondary Treatment
S-140 Tertiary Treatment
S-150 Disinfection
S-161 Solids Dewatering System

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-2-301	Y		15 lb/day & 300 ppm total carbon on dry basis	N	N	N

Table VII-F
Applicable Limits and Compliance Monitoring Requirements
S-170 Anaerobic Digesters

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-2-301	Y		Emissions may not exceed 300 ppm total carbon, dry, and 15 lb/day/source	None	N	None
Odors	None	N		None	None	P/E	Records
H_2S	BAAQMD Regulation 9-2-301	N		0.06 ppm H2S over 3 min or 0.03 ppm H2S over 60 min	None	N	None

XII. 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 Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling; or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 6-311	Process Weight Rate Based Emissions Limits	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or Calculate Emissions in Accordance with EPA AP-42 Procedures
BAAQMD 7-303	Limit on Odorous Compounds	Manual of Procedures, Volume IV, ST-1, ST-8, ST-11, ST-16, ST-22, Sampling of Odorous Compounds
BAAQMD 8-2-301	Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A.
BAAQMD 8-34-301.2	Collection and Control System Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.4	Limits for Other Emission Control Systems	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 8-34-412	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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-1-304	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-8-301.2	NO_X Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-301.3	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.1	NO_X Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling Limit on Odorous Compounds and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.30	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition #10844, Part 4c	NO_X Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition #10844, Part 4b	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition #10844, Part 4a	POC Limit	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A.
BAAQMD Condition # 10844, Part 2	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 10844, Part 7c
BAAQMD Condition # 10844, Part 6	Engine Source Test	Outlet: 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; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 10844, Part 8	Air to fuel ratio setting and exhaust O2 content	APCO Approved O2 meter
BAAQMD Condition # 10844, Part 9	Landfill Gas Sulfur Content Limit	Draeger Tube: used in accordance with manufacturer's recommended procedures, or Manual of Procedures, Volume III, Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods, or ASTM D 1072-80 or 90, D 3031-81, D 4084-82 or 94, or D 3246-81, 92, or 96

IX REVISION HISTORY

Initial Issuance Title V Permit	February 24, 2000
Renewal Title V Permit (3931)	December 28, 2007

X. GLOSSARY

ACT
Federal Clean Air Act

BAAQMD
Bay Area Air Quality Management District

Basis
The underlying authority that allows the District to impose requirements.

CO
Carbon Monoxide

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

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District Regulations.

FE, Federally Enforceable,
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 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations 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.

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.

Major Facility
A facility with potential emissions of regulated air pollutants greater than 100 tons per year, greater than 10 tons per year of any single hazardous air pollutant, and/or greater than 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

X. Glossary

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

MOP
The District's Manual of Procedures.

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).

NOx
Oxides of nitrogen.

NSR
New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

POC
Precursor Organic Compounds

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
Sulfur dioxide

THC
Total Hydrocarbons includes all NMHC plus methane (same as TOC).

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 includes all NMOC plus methane (same as THC).

TRMP

X. Glossary

Toxic Risk Management Policy.

TSP
Total Suspended Particulate

VOC
Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m^2	=	square meter
min	=	minute
mm	=	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
scfm	=	standard cubic feet per minute
yr	=	year