Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Gas Recovery Systems, Inc.
Facility #B1670

Facility Address:
1804 Dixon Landing Road
San Jose, CA 95134

Mailing Address:
5717 Brisa Street
Livermore, CA 94550

Responsible Official	**Facility Contact**
Alan J. Purves, COO	Matthew Nourot, Environmental Manager
(925) 461-4400	(925) 606-3700

Type of Facility: Landfill Gas
Primary SIC: 4911
Product: Electrical Power

BAAQMD Permit Division Contact:
Hon Man

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Ellen Garvey
Ellen Garvey, Air Pollution Control Officer

July 15, 2002
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 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 8/27/99);
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 2/25/99);
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 2/25/99);
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 2/25/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 5/2/01).

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

1. This Major Facility Review Permit was issued on November 30, 2001 and expires on October 31, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than April 30, 2006 and no earlier than October 31, 2005. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** October 31, 2006. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any 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)

I. Standard Conditions

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which 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 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)

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 which 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

I. Standard Conditions

specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)

2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be November 30, 2001 to April 30, 2002. The report shall be submitted by May 31, 2002. Subsequent reports shall be for the following periods: May 1st through October 31st and November 1st through April 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 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, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be November 1st to October 31st. The certification shall be submitted by November 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 should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street

I. Standard Conditions

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)

II. EQUIPMENT

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
2	Internal Combustion Engine, rich burn, landfill gas fired; with Landfill Gas Condensate Injection/Oxidation System	Cooper-Superior, Rich Burn	8G825	750 HP 6.75 MM BTU/hour
3	Internal Combustion Engine, rich burn, landfill gas fired	Cooper-Superior, Rich Burn	8G825	750 HP 6.75 MM BTU/hour
4	Internal Combustion Engine, rich burn, landfill gas fired	Cooper-Superior, Rich Burn	8G825	750 HP 6.75 MM BTU/hour
5	Internal Combustion Engine, rich burn, landfill gas fired	Cooper-Superior, Rich Burn	8G825	750 HP 6.75 MM BTU/hour
8	Internal Combustion Engine, lean burn, landfill gas fired	Waukesha, Lean Burn	7042GL	1547 HP 13.5 MM BTU/hour
9	Internal Combustion Engine, lean burn, landfill gas fired	Waukesha, Lean Burn	7042GL	1547 HP 13.5 MM BTU/hour
11	Internal Combustion Engine, lean burn, landfill gas fired	Waukesha, Lean Burn	7042GL	1547 HP 13.5 MM BTU/hour
18	Solvent Disposal Tank, V-105	Fixed Roof		1,000 Gallons
21	Landfill Gas Condensate Storage Tank	Fixed Roof		21,000 Gallons

II. Equipment

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	Genstar Thermal Reactor	2	BAAQMD Condition # 347, Part 3 and Future BAAQMD Condition # 16669, Part 3		740 ppmv CO @ 15% O2
2	Genstar Thermal Reactor	3	BAAQMD Condition # 347, Part 3		740 ppmv CO @ 15% O2
3	Genstar Thermal Reactor	4	BAAQMD Condition # 347, Part 3		740 ppmv CO @ 15% O2
4	Genstar Thermal Reactor	5	BAAQMD Condition # 347, Part 3		740 ppmv CO @ 15% O2
5	Activated Carbon Adsorption System (Optional, not required by Regulation 8-5, Regulation 8-2 or NSR)	21	BAAQMD Condition # 16025, Part 5		95% Collection and Control of Organic Compounds

III. GENERALLY APPLICABLE REQUIREMENTS

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

The dates in parenthesis 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
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

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

NOTE:

There are differences between the current BAAQMD rule and the version of the rule 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 (8/27/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	N
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y

II. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (9/16/98)	N
SIP Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (12/9/94)	Y[1]
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 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N

1. 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.

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 parenthesis 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
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

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

Table IV – A
Source-specific Applicable Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/17/00)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	7/1/02
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	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Applicable	Regulation Title or Description of Requirement	Federally Enforceable	Future Effective
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	Recordkeeping Requirement	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y	Expires 7/1/02 (exp. date not in SIP)
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	
8-34-301.4b	Limits for Other Emission Control Systems	Y	7/1/02
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	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	7/1/02
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records (Permit holder is responsible only for collection system components that are owned by the permit holder)	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	7/1/02
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing (Permit holder is responsible only for collection system components that are owned by the permit holder)	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorded	Y	7/1/02

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Applicable	Regulation Title or Description of Requirement	Federally Enforceable	Future Effective
8-34-508	Gas Flow Meter	Y	7/1/02
SIP Regulation 8, Rule 34	**Organic Compounds - Solid Waste Disposal Sites (6/15/94)**	Y	
8-34-113	Exemption, Inspection and Maintenance	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y[1]	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y[1]	
8-34-301.1	Collection and Control Systems Leak Limitations	Y[1]	
8-34-301.4	Continuous Operation	Y[1]	
8-34-501	Operating Records	Y[1]	
8-34-501.2	Emission Control System Downtime	Y[1]	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y[1]	
8-34-501.6	Records Retention	Y[1]	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)**		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.2	Rich-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Applicable	Regulation Title or Description of Requirement	Federally Enforceable	Future Effective
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/98)**		
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)	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 operating before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60, Subpart Cc	**Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)**		
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year (The permit holder is responsible only for its collection and control equipment)	Y	
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)**		
62.1115	Identification of Sources	Y	

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Applicable	Regulation Title or Description of Requirement	Federally Enforceable	Future Effective
BAAQMD Condition # 16669			
Part 1	Fuel restrictions (Cumulative Increase)	Y	
Part 2	Exhaust gas NO_x concentration limit (BACT and Regulation 9-8-302.2)	Y	
Part 3	Exhaust gas CO Concentration limit (BACT and Cumulative Increase)	Y	
Part 4	Annual source test (BACT, Cumulative Increase, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.2 and 9-8-302.3)	Y	
Part 5	Landfill gas sulfur content limit and monitoring requirements (Regulations 2-6-503 and 9-1-302)	Y	
Part 6	Heat input limits (Regulation 2-1-301)	Y	
Part 7	Record keeping requirements for Parts 5 and 6 (Regulations 2-1-301 and 2-6-501)	Y	
Part 8	POC emission limit for Condensate Injection/Oxidation System, calculation procedure, and record keeping requirements (Cumulative Increase)	Y	Upon startup of Condensate Injection/ Oxidation System at S-2
Part 9	Recording keeping requirements for landfill gas condensate flow rate (Cumulative Increase)	Y	Upon startup of Condensate Injection/ Oxidation System at S-2

IV. Source-specific Applicable Requirements

Table IV – A
Source-specific Applicable Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Applicable	Regulation Title or Description of Requirement	Federally Enforceable	Future Effective
Part 10	Testing and record keeping requirements for VOC concentration in landfill gas condensate (Cumulative Increase)	Y	Upon startup of Condensate Injection/ Oxidation System at S-2
Part 11	Initial source test for NMOC destruction efficiency achieved by the Condensate Injection/Oxidation System (Cumulative Increase)	Y	Upon startup of Condensate Injection/ Oxidation System at S-2
Part 12	Information for design plans and annual reports (Regulation 1-441)	Y	

1 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.

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/17/00)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	7/1/02
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, 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	Recordkeeping Requirement	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y	Expires 7/1/02 (exp. date not in SIP)
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	
8-34-301.4b	Limits for Other Emission Control Systems	Y	7/1/02
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	7/1/02
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records (Permit holder is responsible only for collection system components that are owned by the permit holder)	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	7/1/02
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing (Permit holder is responsible only for collection system components that are owned by the permit holder)	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorded	Y	7/1/02
8-34-508	Gas Flow Meter	Y	7/1/02
SIP Regulation 8, Rule 34	**Organic Compounds - Solid Waste Disposal Sites (6/15/94)**		
8-34-113	Exemption, Inspection and Maintenance	Y[1]	
8-34-113.2	Shutdown Time Limitation	Y[1]	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y[1]	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y[1]	
8-34-301.1	Collection and Control Systems Leak Limitations	Y[1]	
8-34-301.4	Continuous Operation	Y[1]	
8-34-501	Operating Records	Y[1]	
8-34-501.2	Emission Control System Downtime	Y[1]	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y[1]	
8-34-501.6	Records Retention	Y[1]	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)**		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.2	Rich-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/98)**		
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)	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 operating before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	

IV. Source-specific Applicable Requirements

Table IV – B
Source-specific Applicable Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60, Subpart Cc	**Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)**		
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions ≥ 50 MG/year	Y	
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)**		
62.1115	Identification of Sources	Y	
BAAQMD Condition # 347			
Part 1	Fuel restrictions (Cumulative Increase)	Y	
Part 2	Exhaust gas NO_x concentration limit (BACT and Regulation 9-8-302.2)	Y	
Part 3	Exhaust gas CO concentration limit (BACT and Cumulative Increase)	Y	
Part 4	Annual source test (BACT, Cumulative Increase, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.2 and 9-8-302.3)	Y	
Part 5	Landfill gas sulfur content limit and monitoring requirements (Regulations 2-6-503 and 9-1-302)	Y	
Part 6	Heat input limits (Regulation 2-1-301)	Y	
Part 7	Record keeping requirements for Parts 5 and 6 (Regulations 2-1-301 and 2-6-501)	Y	
Part 8	Information for design plans and annual reports (Regulation 1-441)	Y	

1. 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.

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S8, S9, AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/17/00)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	7/1/02
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	7/1/02
1-523.2	Limit on duration of inoperation	Y	7/1/02
1-523.3	Reporting requirement for violations of any applicable limits	Y	7/1/02
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	7/1/02
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, 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	Recordkeeping Requirement	Y	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y	Expires 7/1/02 (exp. date not in SIP)
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	
8-34-301.4b	Limits for Other Emission Control Systems	Y	7/1/02
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S8, S9, AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	7/1/02
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records (Permit holder is responsible only for collection system components that are owned by the permit holder)	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	7/1/02
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing (Permit holder is responsible only for collection system components that are owned by the permit holder)	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-507	Continuous Temperature Monitor and Recorded	Y	7/1/02
8-34-508	Gas Flow Meter	Y	7/1/02
SIP Regulation 8, Rule 34	**Organic Compounds - Solid Waste Disposal Sites (6/15/94)**		
8-34-113	Exemption, Inspection and Maintenance	Y[1]	
8-34-113.2	Shutdown Time Limitation	Y[1]	
8-34-114	Limited Exemption, Energy Recovery Device and Emission Control System	Y[1]	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y[1]	
8-34-301.1	Collection and Control Systems Leak Limitations	Y[1]	
8-34-301.4	Continuous Operation	Y[1]	
8-34-501	Operating Records	Y[1]	
8-34-501.2	Emission Control System Downtime	Y[1]	
8-34-501.4	Records of Testing for Compliance with 8-34-111.3 or 301	Y[1]	
8-34-501.6	Records Retention	Y[1]	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S8, S9, AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)**		
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/98)**		
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)	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 operating before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	

IV. Source-specific Applicable Requirements

Table IV – C
Source-specific Applicable Requirements
S8, S9, AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60, Subpart Cc	**Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)**		
60.36c(a)	Collection and Control Systems in Compliance by 30 months After Initial NMOC Emission Rate Report Shows NMOC Emissions ≥ 50 MG/year	Y	
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)**		
62.1115	Identification of Sources	Y	
BAAQMD Condition # 3017			
Part 1	Fuel restrictions (Cumulative Increase)	Y	
Part 2	Exhaust gas NOx concentration limit (BACT and PSD)	Y	
Part 3	Exhaust gas CO concentration limit (BACT and PSD)	Y	
Part 4	Exhaust gas NMOC concentration limit (Cumulative Increase)	Y	
Part 5	Annual source test (BACT, PSD, Cumulative Increase, and Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.1 and 9-8-302.3)	Y	
Part 6	Landfill gas sulfur content limit and monitoring requirements (Regulations 2-6-503 and 9-1-302)	Y	
Part 7	Heat input limits (Regulation 2-1-301)	Y	
Part 8	Record keeping requirements for Parts 5 and 6 (Regulations 2-1-301 and 2-6-501)	Y	
Part 9	Information for design plans and annual reports (Regulation 1-441)	Y	

1 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.

IV. Source-specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S18 - SOLVENT DISPOSAL TANK, V-105, 1000 GALLONS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 5	**Storage of Organic Liquids (12/15/99)**	Y	
8-5-301	Storage Tanks Smaller Than 150 m^3	Y	
8-5-329	Ozone Excess Day Prohibition	Y	
8-5-501	Records	Y	
BAAQMD Condition # 10713			
Part 1	Annual solvent throughput limit (Cumulative Increase)	Y	
Part 2	Record keeping for waste solvent throughput (Cumulative Increase)	Y	

IV. Source-specific Applicable Requirements

Table IV – E
Source-specific Applicable Requirements
S21 - LANDFILL GAS CONDENSATE STORAGE TANK, 21000 GALLONS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	**Organic Compounds – Miscellaneous Operations (6/15/94)**		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 16025			
Part 1	Annual condensate throughput limit (Cumulative Increase)	Y	
Part 2	Daily condensate throughput limit (Cumulative Increase)	Y	
Part 3	Restriction on materials stored in S-21 (Cumulative Increase)	Y	
Part 4	Limit on toxic compound emissions (Toxic Risk Management Policy)	Y	
Part 5	Notify the District if the maximum true vapor pressure exceeds 27.6 kPa (4.0 psia) (NSPS, Subpart Kb, 60.116b(d))	Y	
Part 6	Record keeping requirements (Cumulative Increase and Regulation 2-6-501)	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply on a timely basis 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.

The District has provided comments in italicized text following each condition number. These comments describe the rationale behind the proposed condition changes identified in this section by strikeout and underline formatting. All italicized text will be deleted from the final permit conditions.

Condition # 347
FOR S3, S4, AND S5, INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

1. The Internal Combustion Engines (S-3, S-4, and S-5) shall be fired on landfill gas exclusively. (Basis: Cumulative Increase)

2. Nitrogen Oxide (NO_x) emissions from each Internal Combustion Engine (S-3, S-4, and S-5) shall not exceed 210 ppmv, expressed as NO_2, dry basis, corrected to 15% O_2. (Basis: BACT and Regulation 9-8-302.2)

3. Carbon Monoxide (CO) emissions from each Internal Combustion Engine (S-3, S-4, and S-5) shall not exceed 740 ppmv, dry basis, corrected to 15% O_2. (Basis: BACT and Cumulative Increase)

4. In order to demonstrate compliance with Parts 2 and 3 above; Regulation 8, Rule 34, Sections 114, 301.4, and 412; and Regulation 9, Rule 8, Sections 302.2 and 302.3; the Permit Holder shall ensure that a District approved source test is conducted annually on each Internal Combustion Engine (S-3, S-4, and S-5). Each annual source test shall determine the following:
   a. landfill gas flow rate to each engine (dry basis);
   b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), total non-methane organic compounds (NMOC), and total hydrocarbons (THC) in the landfill gas;
   c. exhaust gas flow rate from each engine (dry basis);

Condition # 347

VI. Permit Conditions

FOR S3, S4, AND S5, INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

d. concentrations (dry basis) of NO_x, CO, CH_4, NMOC, THC, and O_2 in the exhaust gas from each engine;
e. the CH_4, NMOC, and THC destruction efficiencies achieved by each engine; and
f. the combustion temperature of each engine during the test period.

The first annual source test for each engine shall be conducted by no later than October 1, 2002 or no later than 12 months after the issue date of the MFR Permit, whichever date occurs first. Subsequent source tests for each engine 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 its 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 within 45 days of the test date. (Basis: BACT, Cumulative Increase, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.2, and 9-8-302.3)

5. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in the exhaust from the Internal Combustion Engines. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry), reported as hydrogen sulfide (H_2S). In order to demonstrate compliance with this Part, the Permit Holder shall measure the total sulfur content in collected landfill gas on a quarterly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (Basis: Regulation 2-6-503 and 9-1-302)

6. The heat input to each Internal Combustion Engine (S-3, S-4, or S-5) shall not exceed 162 million BTU during any one day. The combined heat input to the three Internal Combustion Engines (S-3, S-4, and S-5) shall not exceed 177,390 million BTU during any rolling consecutive 12-month period. (Basis: Regulation 2-1-301)

VI. Permit Conditions

Condition # 347
FOR S3, S4, AND S5, INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

7. In order to demonstrate compliance with Parts 5 and 6 above, the Permit Holder shall maintain the following records in a District approved log.
   a. Daily records of operating hours for each engine (S-3, S-4, and S-5), summarized on a monthly basis,
   b. Monthly records of the combined consumption of landfill gas at all engines (S-3, S-4, and S-5),
   c. Monthly records of the average methane content of the landfill gas burned in the engines (S-3, S-4, and S-5),
   d. Monthly records of the average high heat value of the landfill gas calculated by multiplying the methane content recorded pursuant to subpart c times the high heat value of methane (1013 BTU/scf), and
   e. Monthly records of the combined heat input to the engines (S-3, S-4, and S-5) calculated by multiplying the landfill gas consumption recorded pursuant to subpart b times the average high heat value of the landfill gas determined pursuant to subpart d.

   Both these records and records of H_2S data shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made. (Basis: Regulation 2-1-301 and 2-6-501)

8. The permit holder shall supply any information required by BAAQMD Regulation 8-34-408 and 8-34-411 to the permit holder of the Newby Island Landfill and to the District within 30 days of a request from said landfill. (Basis: Regulation 1-441)

VI. Permit Conditions

Condition # 3017
FOR S8, S9, AND S-11, INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

1. The Internal Combustion Engines (S-8, S-9 and S-11) shall be fired on landfill gas exclusively. (Basis: Cumulative Increase)

2. Nitrogen Oxide (NO_x) emissions, from each Internal Combustion Engine (S-8, S-9 and S-11) shall not exceed 53 ppmv, expressed as NO_2, dry basis, corrected to 15% O_2. (Basis: BACT and PSD)

3. Carbon Monoxide (CO) emissions from each Internal Combustion Engine (S-8, S-9 and S-11) shall not exceed 289 ppmv, dry basis, corrected to 15% O_2. (Basis: BACT and PSD)

4. Total non-methane organic compounds (NMOC) emissions, from the S-11 Internal Combustion Engine shall not exceed 533 ppmv, expressed methane, dry basis, corrected to 3% O_2. Effective July 1, 2002, this limit shall be replaced by the NMOC limits listed in Regulation 8-34-301.4. (Basis: Cumulative Increase)

5. In order to demonstrate compliance with Parts 2, 3 and 4 above; Regulation 8, Rule 34, Sections 114, 301.4, and 412; Regulation 9, Rule 8, Sections 302.1 and 302.3; the Permit Holder shall ensure that a District approved source test is conducted annually on each Internal Combustion Engine (S-8, S-9 and S-11). Each annual source test shall determine the following:
   a. landfill gas flow rate to each engine (dry basis);
   b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), total non-methane organic compounds (NMOC), and total hydrocarbons (THC) in the landfill gas;
   c. exhaust gas flow rate from each engine (dry basis);
   d. concentrations (dry basis) of NO_x, CO, CH_4, NMOC, THC, and O_2 in the exhaust gas from each engine;
   e. the CH_4, NMOC, and THC destruction efficiencies achieved by each engine; and
   f. the combustion temperature of each engine during the test period.

VI. Permit Conditions

Condition # 3017
FOR S8, S9, AND S-11, INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

The first annual source test for each engine shall be conducted by no later than October 1, 2002 or no later than 12 months after the issue date of the MFR Permit, whichever date occurs first. Subsequent source tests for each engine 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 its 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 within 45 days of the test date. (Basis: BACT, PSD, Cumulative Increase, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)

6. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in the exhaust from the Internal Combustion Engines. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry), reported as hydrogen sulfide (H_2S). In order to demonstrate compliance with this Part, the Permit Holder shall measure the total sulfur content in collected landfill gas on a quarterly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (Basis: Regulation 2-6-503 and 9-1-302)

7. The heat input to each Internal Combustion Engine (S-8, S-9 and S-11) shall not exceed 324 million BTU during any one day. The combined heat input to the three Internal Combustion Engines (S-8, S-9 and S-11) shall not exceed 354,780 million BTU during any rolling consecutive 12-month period. (Basis: Regulation 2-1-301)

VI. Permit Conditions

Condition # 3017
FOR S8, S9, AND S-11, INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

8. In order to demonstrate compliance with Parts 6 and 7 above, the Permit Holder shall maintain the following records in a District approved log.
   a. Daily records of operating hours for each engine (S-8, S-9 and S-11), summarized on a monthly basis,
   b. Monthly records of the combined consumption of landfill gas at all engines (S-8, S-9 and S-11),
   c. Monthly records of the average methane content of the landfill gas burned in the engines (S-8, S-9 and S-11),
   d. Monthly records of the average high heat value of the landfill gas calculated by multiplying the methane content recorded pursuant to subpart c times the high heat value of methane (1013 BTU/scf), and
   e. Monthly records of the combined heat input to the engines (S-8, S-9 and S-11) calculated by multiplying the landfill gas consumption recorded pursuant to subpart b times the average high heat value of the landfill gas determined pursuant to subpart d.

   Both these records and records of H_2S data shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made. (Basis: Regulation 2-1-301 and 2-6-501)

9. The permit holder shall supply any information required by BAAQMD Regulation 8-34-408 and 8-34-411 to the permit holder of the Newby Island Landfill and to the District within 30 days of a request from said landfill. (Basis: Regulation 1-441)

VI. Permit Conditions

Condition # 10713
For S18, SOLVENT DISPOSAL TANK, V-105

1. The total throughput of waste solvent shall not exceed 7,300 gallons in any consecutive 12 month period. (Basis: Cumulative Increase)

2. Throughput of waste solvent shall be recorded quarterly in a District approved logbook. These records shall be retained for a period of at least two years from the date of entry. The logs shall be kept on site and made readily available to District staff upon request. (Basis: Cumulative Increase)

VI. Permit Conditions

Condition # 16025
For S21, LANDFILL GAS CONDENSATE STORAGE TANK, 21000 GALLONS

1. Total liquid throughput at S-21, Landfill Gas Condensate Storage Tank, shall not exceed 357,000 gallons during any consecutive 12-month period. (Basis: Cumulative Increase)

2. Total liquid throughput for S-21 shall not exceed 5,000 gallons during any calendar day. (Basis: Cumulative Increase)

3. Only landfill gas condensate shall be stored in tank S-21. (Basis: Cumulative Increase)

4. The storage of landfill gas condensate at S-21 shall not result in emissions exceeding any risk screening trigger level, as specified in Table 2-1-316 of Regulation 2, Rule 1. (Basis: Toxic Risk Management Policy)

5. If the maximum true vapor pressure of the landfill gas condensate should exceed 27.6 kPa (4.0 psia), Gas Recovery Systems must notify the District's Compliance and Enforcement Division of this exceedance within 30 days and must immediately begin maintaining records as specified in the New Source Performance Standards, Subpart Kb, §60.116b(d). (Basis: New Source Performance Standards, Subpart Kb, §60.116b(d))

6. In order to demonstrate compliance with the above conditions, the owner/operator of tank S-21 shall maintain the following records in a District approved log:
   a. Type of liquid stored and the dates of storage.
   b. The total daily throughput of liquid, summarized on a monthly basis.
   c. The previous 12-month throughput, summarized on a monthly basis.

   All records shall be retained on-site for a period of 5 years from the date of entry and made available for inspection by District staff upon request. These record keeping requirements shall not replace the record keeping requirements contained in any applicable District Regulations.
   (Basis: Cumulative Increase and Regulation 2-6-501)

VI. Permit Conditions

Condition # 16669
S2, INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

1. The Internal Combustion Engine (S-2) shall be fired exclusively on landfill gas. (Basis: Cumulative Increase)

2. Nitrogen Oxide (NO_x) emissions from the S-2 Internal Combustion Engine shall not exceed 210 ppmv, expressed as NO_2, dry basis, corrected to 15% O_2. (Basis: BACT and Regulation 9-8-302.2)

3. Carbon Monoxide (CO) emissions from the S-2 Internal Combustion Engine shall not exceed 740 ppmv, dry basis, corrected to 15% O_2. (Basis: BACT and Cumulative Increase)

4. In order to demonstrate compliance with Parts 2 and 3 above; Regulation 8, Rule 34, Sections 114, 301.4, and 412; and Regulation 9, Rule 8, Sections 302.2 and 302.3; the Permit Holder shall ensure that a District approved source test is conducted annually on the Internal Combustion Engine (S-2). Each annual source test shall determine the following:
   a. landfill gas flow rate to the engine (dry basis);
   b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), total non-methane organic compounds (NMOC), and total hydrocarbons (THC) in the landfill gas;
   c. exhaust gas flow rate from the engine (dry basis);
   d. concentrations (dry basis) of NO_x, CO, CH_4, NMOC, THC, and O_2 in the exhaust gas from the engine;
   e. the CH_4, NMOC, and THC destruction efficiencies achieved by the engine; and
   f. the combustion temperature of the engine during the test period.

VI. Permit Conditions

Condition # 16669
S2, INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

The first annual source test for the engine shall be conducted by no later than October 1, 2002 or no later than 12 months after the issue date of the MFR Permit, whichever date occurs first. Subsequent source tests for the engine 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 its 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 within 45 days of the test date. (Basis: BACT, Cumulative Increase, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.2, and 9-8-302.3)

5. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in the exhaust from the Internal Combustion Engine. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry), reported as hydrogen sulfide (H_2S). In order to demonstrate compliance with this Part, the Permit Holder shall measure the total sulfur content in collected landfill gas on a quarterly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (Basis: Regulation 2-6-503 and 9-1-302)

6. The heat input to the Internal Combustion Engine (S-2) shall not exceed 162 million BTU during any one day. The heat input to the Internal Combustion Engine (S-2) shall not exceed 59,130 million BTU during any rolling consecutive 12-month period. (Basis: Regulation 2-1-301)

VI. Permit Conditions

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S2, INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

7. In order to demonstrate compliance with Parts 5 and 6 above, the Permit Holder shall maintain the following records in a District approved log.
   a. Daily records of operating hours for the S-2 Internal Combustion Engine, summarized on a monthly basis,
   b. Monthly records of the consumption of landfill gas at the S-2 Internal Combustion Engine,
   c. Monthly records of the average methane content of the landfill gas burned in the S-2 Internal Combustion Engine,
   d. Monthly records of the average high heat value of the landfill gas calculated by multiplying the methane content recorded pursuant to subpart c times the high heat value of methane (1013 BTU/scf), and
   e. Monthly records of the heat input to the S-2 Internal Combustion Engine calculated by multiplying the landfill gas consumption recorded pursuant to subpart b times the average high heat value of the landfill gas determined pursuant to subpart d.

   Both these records and records of H_2S data shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made. (Basis: Regulation 2-1-301 and 2-6-501)

8. Upon start-up of the Landfill Gas Condensate Injection/Oxidation System for S-2, the precursor organic compound (POC) emissions from the Landfill Gas Condensate Injection/Oxidation System shall not exceed 9 pounds per day. POC emissions shall be calculated using the following equation:

   $POC = Q*D*CC/10^6*(100-E)/100 = 8.5E-8*Q*CC*(100-E)$

   Where,

   POC = POC emissions in pounds/day
   Q = Flow rate of landfill gas condensate to the injection system (gallons/day) recorded pursuant to Part 9
   D = Density of the landfill gas condensate (8.5 pounds/gallon)
   CC = Maximum concentration of volatile organic compounds in the landfill gas condensate (ppm by weight) recorded pursuant to Part 10
   E = NMOC destruction efficiency of the condensate oxidation system (percent by weight) determined pursuant to Part 11

VI. Permit Conditions

Condition # 16669
S2, INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

In order to demonstrate compliance with this part, the Permit Holder shall record the calculated POC emissions (pounds/day) on a daily basis in a District approved log. These 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: Cumulative Increase)

9. Upon start-up on the Landfill Gas Condensate Injection/Oxidation System for S-2, the Permit Holder shall record the total flow rate of landfill gas condensate to the injection system on a daily basis (gallons/day) in a District approved log. These 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: Cumulative Increase)

10. Upon start-up on the Landfill Gas Condensate Injection/Oxidation System for S-2, the Permit Holder shall collect and analyze a sample of the aqueous portion of the landfill gas condensate on a quarterly basis. The maximum detected concentration (ppm by weight) of any individual volatile organic compound and the sum of all maximum concentrations of individual volatile organic compounds shall be recorded in a District approved log on a quarterly basis. These 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: Cumulative Increase)

11. Within 30 days of start-up of the Landfill Gas Condensate Injection/Oxidation System, the Permit Holder shall conduct a District approved source test to determine the non-methane organic compound (NMOC) destruction efficiency achieved by the Condensate Oxidation System. The source test shall determine the following:
    a. flow rate of landfill gas condensate to the injection system
    b. total concentration (by weight) of volatile organic compounds in the landfill gas condensate
    c. exhaust gas flow rate (dry basis) from the oxidation system
    d. concentration of NMOCs (dry basis) in the exhaust gas from the oxidation system
    e. NMOC destruction efficiency achieved by the oxidation system

Condition # 16669

VI. Permit Conditions

S2, INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

The Source Test Section of the District shall be contacted to obtain its approval of the source test procedures at least 14 days in advance of the source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of the source test. The source test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. (Basis: Cumulative Increase)

12. The permit holder shall supply any information required by BAAQMD Regulation 8-34-408 and 8-34-411to the permit holder of the Newby Island Landfill and to the District within 30 days of a request from said landfill. (Basis: Regulation 1-441)

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

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 No. 1 for 3 minutes in any hour		N	
FP	BAAQMD 6-310	Y		0.15 grains/dscf		N	
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
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection
TOC	BAAQMD 8-34-114	Y	Expires 7/1/02	90% removal by weight	BAAQMD Condition # 16669, Part 4.e.	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC	SIP BAAQMD 8-34-114	Y[1]		90% removal by weight	BAAQMD Condition # 16669, Part 4.e.	P/A	Annual Source Test
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4b	Y	7/1/02	98% removal by weight OR < 120 ppmv dry @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 16669, Part 4.e.	P/A	Initial and Annual Source Tests and Records
POC	BAAQMD Condition # 16669, Part 8	Y	Upon start-up of Con-densate Injection/ Oxida-tion System at S-2	9 pounds per day	BAAQMD Condition # 16669, Parts 8, 9, 10, and 11	P/D,Q,I	Daily Records, Quarterly Condensate Testing, Initial Destruction Efficiency Testing
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits ≤ 0.5 ppm for 3 minutes, ≤ 0.25 ppm for 60 minutes, and ≤0.05 ppm for 24 hours		N	
SO_2	BAAQMD 9-1-302	Y		≤ 300 ppm (dry)	BAAQMD Condition # 16669, Part 5	P/Q	Sulfur Analysis of Landfill Gas

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H_2S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq$ 0.06 ppm Averaged over 3 minutes and $\leq$ 0.03 ppm Averaged over 60 minutes		N	
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 16669, Part 5	Y		$\leq$ 1300 ppmv dry, expressed as H_2S	BAAQMD Condition # 16669, Part 5	P/Q	Sulfur Analysis of Landfill Gas
NO_x	BAAQMD 9-8-302.2 and BAAQMD Condition # 16669, Part 2	Y		$\leq$ 210 ppmv dry, expressed as NO_2, corrected to 15% O_2	BAAQMD Condition # 16669, Part 4.d.	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		$\leq$ 2000 ppmv dry, corrected to 15% O_2	BAAQMD Condition # 16669, Part 4.d.	P/A	Annual Source Test
CO	BAAQMD Condition # 16669, Part 3	Y		$\leq$ 740 ppmv dry, corrected to 15% O_2	BAAQMD Condition # 16669, Part 4.d.	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 16669, Part 6	Y		162 MM BTU per day and 59,130 MM BTU per 12-month period	BAAQMD Condition # 16669, Part 7.a.-e.	P/D,M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2	P/D	Records
Emission Control System Shutdown Time	SIP 8-34-113.2	Y[1]		12 hours/calendar month	SIP 8-34-501.2	P/D	Records
Temper-ature of Combus-tion Zone				Temperature limit will be established in a permit condition during performance test	BAAQMD 8-34-501.3 and 8-34-507 (effective 7/1/02)	C	Temperature sensor and continuous recorder; effective 7/1/02
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 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02
Gas Flow	SIP 8-34-301 and 301.4	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	SIP 8-34-501.1	P/D	Operating Records
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Records of occurrence and duration

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S2 - INTERNAL COMBUSTION ENGINE, RICH BURN, LANDFILL GAS FIRED; WITH LANDFILL GAS CONDENSATE INJECTION/OXIDATION SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Contin-uous 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	Records of occurrence and duration

1 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.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

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 No. 1 for 3 minutes in any hour		N	
FP	BAAQMD 6-310	Y		0.15 grains/dscf		N	
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
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection
TOC	BAAQMD 8-34-114	Y	Expires 7/1/02	90% removal by weight	BAAQMD Condition # 347, Part 4.e.	P/A	Annual Source Test
TOC	SIP BAAQMD 8-34-114	Y[1]		90% removal by weight	BAAQMD Condition # 347, Part 4.e.	P/A	Annual Source Test
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4b	Y	7/1/02	98% removal by weight OR < 120 ppmv dry @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 347, Part 4.e.	P/A	Initial and Annual Source Tests and Records
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits $\leq$ 0.5 ppm for 3 minutes, $\leq$ 0.25 ppm for 60 minutes, and $\leq$0.05 ppm for 24 hours		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition # 347, Part 5	P/Q	Sulfur Analysis of Landfill Gas
H_2S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq$ 0.06 ppm Averaged over 3 minutes and $\leq$ 0.03 ppm Averaged over 60 minutes		N	
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 347, Part 5	Y		$\leq$ 1300 ppmv dry, expressed as H_2S	BAAQMD Condition #347, Part 5	P/Q	Sulfur Analysis of Landfill Gas
NO_x	BAAQMD 9-8-302.2 and BAAQMD Condition # 347, Part 2	Y		$\leq$ 210 ppmv dry, expressed as NO_2 , corrected to 15% O_2	BAAQMD Condition # 347, Part 4.d.	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		$\leq$ 2000 ppmv dry, corrected to 15% O_2	BAAQMD Condition # 347, Part 4.d.	P/A	Annual Source Test
CO	BAAQMD Condition # 347, Part 3	Y		$\leq$ 740 ppmv dry, corrected to 15% O2	BAAQMD Condition # 347, Part 4.d.	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 347, Part 6	Y		162 MM BTU per day for each engine and 177,390 MM BTU per 12-month period for 3 engines combined	BAAQMD Condition # 347, Part 7.a.-e.	P/D,M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 347, Part 7.a.	P/D	Records
Emission Control System Shutdown Time	SIP 8-34-113.2	Y[1]		12 hours/calendar month	SIP 8-34-501.2	P/D	Records
Temper-ature of Combus-tion Zone				Temperature limit will be established in a permit condition during performance test	BAAQMD 8-34-501.3 and 8-34-507 (effective 7/1/02)	C	Temperature sensor and continuous recorder; effective 7/1/02
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 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02
Gas Flow	SIP 8-34-301 and 301.4	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	SIP 8-34-501.1	P/D	Operating Records
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Records of occurrence and duration

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S3, S4 AND S5 - INTERNAL COMBUSTION ENGINES, RICH BURN, LANDFILL GAS FIRED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Contin-uous 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	Records of occurrence and duration

1 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.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S8, S9 AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

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 No. 1 for 3 minutes in any hour		N	
FP	BAAQMD 6-310	Y		0.15 grains/dscf		N	
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
TOC	SIP 8-34-301.1	Y		1000 ppmv as methane (component leak limit)	SIP 8-34-503	P/Q	Quarterly Inspection
TOC	BAAQMD 8-34-114	Y	Expires 7/1/02	90% removal by weight	BAAQMD Condition # 3017, Part 5.e.	P/A	Annual Source Test
TOC	SIP 8-34-114	Y[1]		90% removal by weight	BAAQMD Condition # 3017, Part 5.e.	P/A	Annual Source Test
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4b and BAAQMD Condition # 3017, Part 4	Y	7/1/02	98% removal by weight OR < 120 ppmv dry @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 3017, Part 5	P/A	Initial and Annual Source Tests and Records
NMOC	BAAQMD Condition # 3017, Part 4	Y		$\leq$ 533 ppmv dry, expressed as methane, corrected to 3% O_2	BAAQMD Condition # 3017, Part 5.d.	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S8, S9 AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits $\leq$ 0.5 ppm for 3 minutes, $\leq$ 0.25 ppm for 60 minutes, and $\leq$0.05 ppm for 24 hours		N	
SO_2	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition # 3017, Part 6	P/Q	Sulfur Analysis of Landfill Gas
H_2S	BAAQMD 9-2-301	N		Property Line ground level limits $\leq$ 0.06 ppm Averaged over 3 minutes and $\leq$ 0.03 ppm Averaged over 60 minutes		N	
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 3017, Part 6	Y		$\leq$ 1300 ppmv dry, expressed as H_2S	BAAQMD Condition # 3017, Part 6	P/Q	Sulfur Analysis of Landfill Gas
NO_x	BAAQMD 9-8-302.1	Y		$\leq$ 140 ppmv dry, expressed as NO_2, corrected to 15% O_2	BAAQMD Condition # 3017, Part 5.d.	P/A	Annual Source Test
NO_x	BAAQMD Condition # 3017, Part 2	Y		$\leq$ 53 ppmv dry, expressed as NO_2, corrected to 15% O_2	BAAQMD Condition # 3017, Part 5.d.	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		$\leq$ 2000 ppmv dry, corrected to 15% O_2	BAAQMD Condition # 3017, Part 5.d.	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S8, S9 AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 3017, Part 3	Y		≤ 289 ppmv dry, corrected to 15% O2	BAAQMD Condition # 3017, Part 5.d.	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 3017, Part 7	Y		324 MM BTU per day for each engine and 354,780 MM BTU per 12-month period for 3 engines combined	BAAQMD Condition # 3017, Part 8	P/D,M	Records
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2	P/D	Records
Emission Control System Shutdown Time	SIP 8-34-113.2	Y[1]		12 hours/calendar month	SIP 8-34-501.2	P/D	Records
Temper-ature of Combus-tion Zone				Temperature limit will be established in a permit condition during performance test	BAAQMD 8-34-501.3 and 8-34-507 (effective 7/1/02)	C	Temperature sensor and continuous recorder; effective 7/1/02
Gas Flow	BAAQMD 8-34-301 and 301.1	Y	7/1/02	Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508 (effective 7/1/02)	C	Gas Flow Meter and Recorder (every 15 minutes); effective 7/1/02

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S8, S9 AND S11 - INTERNAL COMBUSTION ENGINES, LEAN BURN, LANDFILL GAS FIRED

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	SIP 8-34-301 and 301.4	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	SIP 8-34-501.1	P/D	Operating Records
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y	7/1/02	15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Records of occurrence and duration
Contin-uous 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	Records of occurrence and duration

1 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.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S18 - SOLVENT DISPOSAL TANK, V-105, 1000 GALLONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put Limit	BAAQMD Condition # 10713, Part 1	Y		7,300 gallons of solvent per 12-month period	BAAQMD Condition # 10713, Part 2	P/Q	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S21 - LANDFILL GAS CONDENSATE STORAGE TANK, 21000 GALLONS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-2-301	Y		15 pounds/day or 300 ppm, dry basis	BAAQMD Condition # 16025, Part 6	P/D	Records
Through-put Limit	BAAQMD Condition # 16025, Part 1	Y		357,000 gallons of landfill gas condensate per 12-month period	BAAQMD Condition # 16025, Part 6	P/D	Records
Through-put Limit	BAAQMD Condition # 16025, Part 2	Y		5,000 gallons of landfill gas condensate per day	BAAQMD Condition # 16025, Part 6	P/D	Records
True Vapor Pressure	BAAQMD Condition # 16025, Part 6	Y		$\leq$ 4.0 psia	BAAQMD Condition # 16669, Part 10	P/Q (effective upon start-up of Condensate Injection/Oxidation System at S-2)	Analysis of Volatile Organic Compounds in Landfill Gas Condensate

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced 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 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
BAAQMD 8-34-114	Energy Recovery Device and Emission Control System	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 8-34-301.2	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
SIP 8-34-114 [1]	Energy Recovery Device and Emission Control System	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
SIP 8-34-301.1	Collection and Control Systems Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
SIP 8-34-301.3 [1]	Energy Recovery Device or Emission Control System Limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 9-1-301	Limitations on Ground Level Concentrations of SO_2	Manual of Procedures, Volume VI, Part1, Ground Level Monitoring for Hydrogen Sulfide and sulfur dioxide
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part1, Ground Level Monitoring for Hydrogen Sulfide and sulfur dioxide
BAAQMD 9-8-302.1	Waste Derived Fuel Gas NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.2	Waste Derived Fuel Gas NOx Limits for Rich Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.3	Waste Derived Fuel Gas CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD Condition # 347		
Part 2	NO_x Limit	Manual of Procedures, Volume IV, Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
Part 3	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
Part 5	Limit for Total Reduced Sulfur Compounds in Landfill Gas	Draeger Tube: used in accordance with manufacturer's recommended procedures
Part 6	Heat Input Limit	Gas Flow Meter: used in accordance with manufacturer's recommended procedures; Methane Content: determined by Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Method 18, 25, 25A, or 25C; and Calculation Procedure identified in BAAQMD Condition # 347, Part 7d

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 3017		
Part 2	NO_x Limit	Manual of Procedures, Volume IV, Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
Part 3	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
Part 4	NMOC	Manual of Procedures, Volume IV, ST-7, Organic Compounds, and ST-14, Oxygen, Continuous Sampling; Or EPA Reference Method 18, 25, 25A, or 25C
Part 6	Limit for Total Reduced Sulfur Compounds in Landfill Gas	Draeger Tube: used in accordance with manufacturer's recommended procedures
Part 7	Heat Input Limit	Gas Flow Meter: used in accordance with manufacturer's recommended procedures; Methane Content: determined by Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Method 18, 25, 25A, or 25C; and Calculation Procedure identified in BAAQMD Condition # 3017, Part 8d
BAAQMD Condition # 16025		
Part 5	True Vapor Pressure	Calculated in accordance with EPA AP-42 Chapter 7.1 Liquid Storage Tanks using individual VOC Contents determined by EPA Methods 8015 modified, 8120, and 8240
BAAQMD Condition # 16669		
Part 2	NO_x Limit	Manual of Procedures, Volume IV, Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
Part 3	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling
Part 5	Limit for Total Reduced Sulfur Compounds in Landfill Gas	Draeger Tube: used in accordance with manufacturer's recommended procedures

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
Part 6	Heat Input Limit	Gas Flow Meter: used in accordance with manufacturer's recommended procedures; Methane Content: determined by Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Method 18, 25, 25A, or 25C; and Calculation Procedure identified in BAAQMD Condition # 16669, Part 7d
Part 8	POC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling and APCO approved calculation procedure described in BAAQMD Condition # 16669, Part 8.
Part 10	VOC Content of Landfill Gas Condensate	EPA Methods 8015 modified, 8120, and 8240
Part 11	NMOC Destruction Efficiency for Condensate Injection/Oxidation System	Inlet emissions determined by records of condensate flow rate and VOC Content determine by EPA Methods 8015 modified, 8120, and 8240; Outlet emissions determined by Manual of Procedures, Volume IV, ST-7, Organic Compounds, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling

IX. PERMIT SHIELD

Not applicable.

X. REVISION HISTORY

Initial Title V Permit Issuance: November 30, 2001

Minor Revision: July 15, 2002

- Revise Tables IV-A, IV-B, IV-C, VII-A, VII-B, VII-C, and VIII by adding 40 CFR, Part 62.1115 and deleting all 40 CFR Part 60, Subpart WWW requirements to reflect that EPA adopted the District's Regulation 8, Rule 34 into the State Plan for MSW Landfills and that EPA deleted the District from the Federal Plan for MSW Landfills (effective November 19, 2001)
- Correct the part number for Condition # 16669, Part 12 in Table IV-A
- Correct Condition # 347, Part 8; Condition # 3017, Part 9; and Condition # 16025, Part 12 by deleting the reference to a 40 CFR Part 60, Subpart WWW requirement and by changing the landfill name referenced in these parts

XI. GLOSSARY

ACT
Federal Clean Air Act

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CEQA
California Environmental Quality Act

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

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.

X. 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 (HAP), 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.

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: (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.

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.

MOP
The District's Manual of Procedures.

NAAQS
National Ambient Air Quality Standards

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

NMHC
Non-methane Hydrocarbons

NOx
Oxides of nitrogen.

X. Glossary

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.)

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
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.

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

X. Glossary

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

TRMP
Toxic Risk Management Plan

TSP
Total Suspended Particulate

VOC
Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
cfm	=	cubic feet per minute
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
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

XII. APPLICABLE STATE IMPLEMENTATION PLAN

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

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