Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

West Contra Costa Sanitary Landfill, Inc.
Facility #A1840

Facility Address:
Foot of Parr Boulevard
Richmond, CA 94801

Mailing Address:
3260 Blume Drive, Suite 200
Richmond, CA 94806

Responsible Official	**Facility Contact**
Mr. William B. Terry	Mr. David Meyer
Area President	Environmental Manager
510-262-1662	510-262-1634

Type of Facility: Landfill/Power Producer
Primary SIC: 4953
Product: Electricity

BAAQMD Permit Division Contact:
Carol Allen

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent _____ September 29, 2004 ___
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer 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 6/28/99);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 8/1/01);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 1/26/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 1/26/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 4/16/03).

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

1. This Major Facility Review Permit was issued on May 29, 2002 and expires on April 30, 2007. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than October 31, 2006, and no earlier than April 30, 2006. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** April 30, 2007**.** If the permit renewal has not been issued by April 30, 2007, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

I. Standard Conditions

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 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 or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

I. Standard Conditions

11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (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 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 May 29, 2002 to October 31, 2002. The report shall be submitted by November 30, 2002. Subsequent reports shall be for the following periods: November 1st through April 30th and May 1st through October 31st, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement

I. Standard Conditions

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

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

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

H. Emergency Provisions

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

I. Standard Conditions

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

I. Severability

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

J. Miscellaneous Conditions

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

II. EQUIPMENT

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
S-5	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas	Waukesha Lean Burn	7042 GL	1478 hp, 975 kW, 7040 in^3, 10.8 E6 BTU/hour, 300-450 scfm of landfill gas, based on heat contents of 600-400 BTU/scf, respectively
S-6	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas	Waukesha Lean Burn	7042 GL	1478 hp, 975 kW, 7040 in^3, 10.8 E6 BTU/hour, 300-450 scfm of landfill gas, based on heat contents of 600-400 BTU/scf, respectively
S-15	West Contra Costa Sanitary Landfill Active Solid Waste Disposal Site with Active Gas Collection System Landfill gas collection system	Type of waste accepted are MSW, Commercial, Industrial, and Construction Horizontal Collectors Vertical Wells		Max. Design Capacity = 18.2 E6 yd^3 (13.9 E6 m^3) Max. Acceptance Rate = 2500 tons/day Max. Cumulative Waste In Place = 10.92 E6 tons 16 collectors and 53 wells
S-22	Primary Oil/Water Separator, TK-2	Polycal Plastics	SP-084-4	1,850 Gallon Capacity, 1200 Gallons/Hour
S-23	Secondary Oil/Water Separator, TK-4	AFL Industries	VTC-5	450 Gallon Capacity, 300 Gallons/Hour
S-24	Load Equalization Tank, TK-7	Polycal Plastics	SPC-52	500 Gallon Capacity, 1200 Gallons/Hour
S-25	Photo-Oxidizer Tank, TK-5	Ryan Herco	7353-030	300 Gallon Capacity, 1200 Gallons/Hour
S-26	Neutralization Tank, TK-9	Polycal Plastics	SPC-52	500 Gallon Capacity, 1200 Gallons/Hour
S-27	First Stage Clarifier, TK-8	Great Lakes	IPC-2-110	1200 Gallons/Hour
S-28	Air Stripper Sump	Polycal Plastics	SP-724-U	550 Gallon Capacity, 1200 Gallons/Hour

II. Equipment

Table II A - Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
S-29	Flocculation/Mixing Tank, TK-8A	Custom Made	Custom made	20,300 Gallon Capacity, 1200 Gallons/Hour
S-30	Air Stripper	Terraqua		1200 Gallons/Hour, 200 cfm
S-37	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas	Waukesha Lean Burn	7042 GL	1585 hp, 1050 kW, 7040 in^3, 9.55 E6 BTU/hour, 265-398 scfm of landfill gas, based on heat contents of 600-400 BTU/scf, respectively
S-38	Secondary Oil/Water Separator, TK-4	Custom Made	Custom Made	780 Gallon Capacity, 1200 Gallons/Hour
S-39	Sludge Storage Tank, TK-3	Custom Made	Custom Made	1100 Gallon Capacity, 1200 Gallons/Hour
S-40	Equalization Tank, TK-1	Custom Made	Custom Made	5000 Gallon Capacity, 1200 Gallons/Hour

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Carbon Adsorber (in series with A-1 first followed by A-2)	S-22, S-23, S-24, S-25, S-26, S-27, S-28, S-29, S-38, S-39, and S-40	BAAQMD Condition # 7463, Part 2	NMHC in inlet and in A-1 exhaust	Replace carbon when NMHC removal effi-ciency is less than 90% by volume
A-2	Carbon Adsorber (in series with A-1 first followed by A-2)	S-22, S-23, S-24, S-25, S-26, S-27, S-28, S-29, S-38, S-39, and S-40	BAAQMD Condition # 7463, Part 2	NMHC in A-2 exhaust	Replace carbon upon detection of 6 ppmv of NMHC

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-3	Carbon Adsorber (in series with A-3 first followed by A-4)	S-30	BAAQMD Condition # 7463, Part 3	NMHC in inlet and in A-3 exhaust	Replace carbon when NMHC removal efficiency is less than 90% by volume
A-4	Carbon Adsorber (in series with A-3 first followed by A-4)	S-30	BAAQMD Condition # 7463, Part 3	NMHC in A-4 exhaust	Replace carbon upon detection of 6 ppmv of NMHC
A-5	Carbon Adsorber (in series with A-5 first followed by A-6)	S-30	BAAQMD Condition # 7463, Part 3	NMHC in inlet and in A-5 exhaust	Replace carbon when NMHC removal efficiency is less than 90% by volume
A-6	Carbon Adsorber (in series with A-5 first followed by A-6)	S-30	BAAQMD Condition # 7463, Part 3	NMHC in A-6 exhaust	Replace carbon upon detection of 6 ppmv of NMHC
A-8	Landfill Gas Flare, burning landfill gas, 45 MM BTU/hour	S-15	BAAQMD 8-34-301.3, see also Table IV-B	Minimum combustion zone temperature of 1400 °F, see also Table VII-B	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH_4, at 3% O_2, dry, see also Table VII-B

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

NOTE:

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

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y[1]
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y[1]
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y[1]
BAAQMD Regulation 5	Open Burning (3/6/02)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 5	Open Burning (9/4/98)	Y[1]
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	N
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	Y
BAAQMD 8-40-116	Exemption, Small Volume	Y
BAAQMD 8-40-117	Exemption, Accidental Spills	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y[1]
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y[1]
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y[1]
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants - Lead (9/2/81)	Y[1]
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants – Asbestos-Containing Serpentine (7/17/91)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y[1]
California Code of Regulations Title 17, Section 93105	Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations (7/26/01)	N
California Code of Regulations Title 17, Section 93106	Asbestos Airborne Toxic Control Measure for Asbestos-Containing Serpentine (7/20/00)	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (5/28/03)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	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

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

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

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of in-operation > 24 hours	Y	
1-523.2	Limit on duration of in operation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of in-operation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y[1]	
1-523.3	Reports of Violations	Y[1]	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Record keeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (8/1/01)**		
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 operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Y	
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (6/9/03)**		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources	Y	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/94)**		
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/03)**		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition # 5771			
Part 1	Fuel Restrictions (Cumulative Increase)	Y	
Part 2	Diverter Valve Requirement (Regulation 8-34-301)	Y	
Part 3	Gas Flow Meter Requirement (Cumulative Increase and Regulation 8-34-508)	Y	
Part 4	NOx Emissions Limit (BACT)	Y	
Part 5	CO Emissions Limit (BACT)	Y	
Part 6	NMOC Emissions Limit (BACT and Regulation 8-34-301.4)	Y	
Part 7	Annual Source Test Requirement (BACT and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)	Y	
Part 8	Heat Input Limitation (Regulation 2-1-301)	Y	
Part 9	Daily Record Keeping Requirement (Cumulative Increase and Regulations 2-1-301, 2-6-501, and 8-34-301)	Y	
Part 10	Engine Temperature Limit and Temperature Monitoring Requirements (Regulations 8-34-301, 8-34-501.11, and 8-34-509)	Y	

IV. Source Specific Applicable Requirements

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
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y[1]	
1-523.3	Reports of Violations	Y[1]	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to A-8 Flare only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	**Organic Compounds – Miscellaneous Operations (6/15/94)**		
8-2-301	Miscellaneous Operations (applies to low VOC soil handling and disposal activities only)	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	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-116.2	Limits on Number of Wells Shutdown	Y	
8-34-116.3	Shutdown Duration Limit	Y	
8-34-116.4	Capping Well Extensions	Y	
8-34-116.5	Well Disconnection Records	Y	
8-34-117	Limited Exemption, Gas Collection System Components	Y	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	Y	
8-34-117.2	New Components are Described in Collection and Control System Design Plan	Y	
8-34-117.3	Meets Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
8-34-118.1	Construction Plan	Y	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4	Emission Minimization Requirement	Y	
8-34-118.5	Excavated Refuse Requirements	Y	
8-34-118.6	Covering Requirements for Exposed Refuse	Y	
8-34-118.7	Installation Time Limit	Y	
8-34-118.8	Capping Required for New Components	Y	
8-34-118.9	Construction Activity Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares	Y	
8-34-303	Landfill Surface Requirements	Y	
8-34-304	Gas Collection System Installation Requirements	Y	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	Y	
8-34-304.2	Based on Waste Age For Active Areas	Y	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	Y	
8-34-304.4	Based on NMOC Emission Rate	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-305	Wellhead Requirements	Y	
8-34-305.1	Operate Under Vacuum	Y	
8-34-305.2	Temperature < 55 °C	Y	
8-34-305.3	Nitrogen < 20% or	Y	
8-34-305.4	Oxygen < 5%	Y	
8-34-405	Design Capacity Reports	Y	
8-34-408	Collection and Control System Design Plans	Y	
8-34-408.2	Sites With Existing Collection and Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-414	Repair Schedule for Wellhead Excesses	Y	
8-34-414.1	Records of Excesses	Y	
8-34-414.2	Corrective Action	Y	
8-34-414.3	Collection System Expansion	Y	
8-34-414.4	Operational Due Date for Expansion	Y	
8-34-415	Repair Schedule for Surface Leak Excesses	Y	
8-34-415.1	Records of Excesses	Y	
8-34-415.2	Corrective Action	Y	
8-34-415.3	Re-monitor Excess Location Within 10 Days	Y	
8-34-415.4	Re-monitor Excess Location Within 1 Month	Y	
8-34-415.5	If No More Excesses, No Further Re-Monitoring	Y	
8-34-415.6	Additional Corrective Action	Y	
8-34-415.7	Re-monitor Second Excess Within 10 days	Y	
8-34-415.8	Re-monitor Second Excess Within 1 Month	Y	
8-34-415.9	If No More Excesses, No Further Re-monitoring	Y	
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	Y	
8-34-415.11	Operational Due Date for Expansion	Y	
8-34-416	Cover Repairs	Y	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.2	Emission Control System Downtime	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorded	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations (applies to A-8 Flare only)	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (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	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
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	Y	
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (6/9/03)**		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources	Y	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/94)**		
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/03)**		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition # 17821			
Part 1	Waste acceptance rate limits (Regulation 2-1-301)	Y	
Part 2	Acceptance criteria for soils containing VOCs (Regulations 2-1-403 and 8-40-301)	Y	

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Emission limit for low VOC soils (Regulation 8-2-301)	Y	
Part 4	Particulate emission control measures (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 5	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	
Part 6	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-304, and 8-34-305)	Y	
Part 7	Landfill gas collection system operating requirements (Regulation 8-34-301.1)	Y	
Part 8	Flare operating restrictions and heat input limits (Cumulative Increase and Regulation 2-1-301)	Y	
Part 9	Flare temperature limit (Toxic Risk Management Policy and Regulation 8-34-301.3)	Y	
Part 10	Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302)	Y	
Part 11	Annual source test (Regulations 8-34-301.3 and 8-34-412)	Y	
Part 12	Annual landfill gas characterization test (Toxic Risk Management Policy, AB-2588 Air Toxics Hot Spots Act, and Regulation 8-34-412)	Y	
Part 13	Toxic compound concentration limits (Toxic Risk Management Policy and AB-2588 Air Toxics Hot Spots Act)	N	
Part 14	Record keeping requirements (Cumulative Increase, 2-1-301, 2-6-501, 6-301, 6-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)	Y	
Part 15	Reporting periods and report submittal due dates for the Regulation 8, Rule 34 report (Regulation 8-34-411 and 40 CFR 63.1980(a))	Y	

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
S-22 PRIMARY OIL/WATER SEPARATOR, TK-2;
S-23 SECONDARY OIL/WATER SEPARATOR, TK-4;
S-38 SECONDARY OIL/WATER SEPARATOR, TK-4;
A-1 CARBON ADSORBER; AND A-2 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	**Organic Compounds – Wastewater (Oil-Water) Separators (6/15/94)**		
8-8-301	Waste Water Separators Greater than 760 Liters Per Day and Smaller than 18.9 liters per second	Y	
8-8-301.3	OC Vapor Recovery System	Y	
8-8-303	Gauging and Sampling Devices	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
BAAQMD Condition #7463			
Part 1	Abatement requirement for POC emissions (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 3	Operating restrictions for Secondary Oil/Water Separators (Cumulative Increase)	Y	
Part 4	Operating requirements for Oil/Water Separators (Regulations 8-8-301 and 8-8-303)	Y	
Part 5	Wastewater throughput limits (Cumulative Increase)	Y	
Part 6	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 7	Replacement requirements for second to last Carbon Adsorber (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 8	Replacement requirements for last Carbon Adsorber (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 9	Methane and non-methane measurement method (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 10a-c	Carbon Adsorber monitoring requirements (Cumulative Increase and Toxic Risk Management Policy)	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-22 PRIMARY OIL/WATER SEPARATOR, TK-2; S-23 SECONDARY OIL/WATER SEPARATOR, TK-4; S-38 SECONDARY OIL/WATER SEPARATOR, TK-4; A-1 CARBON ADSORBER; AND A-2 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 11a-e	Record keeping requirements (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 12	Permitting requirements for any future proposed revisions of Parts 5 or 8 (Cumulative Increase and Toxic Risk Management Policy)	Y	

Table IV – D
Source-Specific Applicable Requirements
S-24 LOAD EQUALIZATION TANK, TK-7; S-25 PHOTO-OXIDIZER TANK, TK-5; S-26 NEUTRALIZATION TANK, TK-9; S-27 FIRST STAGE CLARIFIER, TK-8; S-28 AIR STRIPPER SUMP; S-39 SLUDGE STORAGE TANK, TK-3; AND S-40 EQUALIZATION TANK, TK-1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	**Organic Compounds-Miscellaneous Operation (6/15/94)**	Y	
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #7463			
Part 1	Abatement requirement for POC emissions (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 5	Wastewater throughput limits (Cumulative Increase)	Y	
Part 6	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 11a	Record keeping requirements (Cumulative Increase and Toxic Risk Management Policy)	Y	

IV. Source Specific Applicable Requirements

Table IV – E
Source-Specific Applicable Requirements
S-30 AIR STRIPPER;
A-3 CARBON ADSORBER; A-4 CARBON ADSORBER;
A-5 CARBON ADSORBER; AND A-6 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 47	**Air Stripping and Soil Vapor Extraction Operations (6/15/94)**		
8-47-301	Emission Control Requirement, Specific Compounds	Y	
8-47-302	Organic Compounds	Y	
8-47-501	Records	Y	
8-47-501.1	Water Analysis Records	Y	
8-47-501.2	Vapor Monitoring Results	Y	
8-47-601	Air Stripper Water Sampling	Y	
BAAQMD Condition #7463			
Part 2	Abatement requirement for POC emissions (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 5	Wastewater throughput limits (Cumulative Increase)	Y	
Part 6	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 7	Replacement requirements for second to last Carbon Adsorber (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 8	Replacement requirements for last Carbon Adsorber (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 9	Methane and non-methane measurement method (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 10a-c	Carbon Adsorber monitoring requirements (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 11a-e	Record keeping requirements (Cumulative Increase and Toxic Risk Management Policy)	Y	
Part 12	Permitting requirements for any future proposed revisions of Parts 5 or 8 (Cumulative Increase and Toxic Risk Management Policy)	Y	

IV. Source Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-523	Parametric Monitoring and Record keeping Procedures	N	
1-523.1	Reporting requirement for periods of in-operation > 24 hours	Y	
1-523.2	Limit on duration of in operation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of in-operation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP Regulation 1	**General Provisions and Definitions (6/28/99)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y[1]	
1-523.3	Reports of Violations	Y[1]	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	**Organic Compounds - Solid Waste Disposal Sites (10/6/99)**		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Record keeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	

IV. Source Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (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 (8/1/01)**		
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	

IV. Source Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 operation 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	Y	
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (6/9/03)**		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources	Y	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/94)**		
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	

IV. Source Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/03)**		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition # 17812			
Part 1	Fuel Restrictions (Offsets and Cumulative Increase)	Y	
Part 2	Heat Input Limits (Offsets and Cumulative Increase)	Y	
Part 3	Continuous operating requirement (Regulation 8-34-301.1)	Y	
Part 4	Diverter Valve Requirement (Regulation 8-34-301)	Y	
Part 5	NO_x Emission Limit (BACT)	Y	

IV. Source Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 6	CO Emission Limit (BACT)	Y	
Part 7	Gas flow meter and recorder requirement (Offsets and Cumulative Increase)	Y	
Part 8	Annual source test requirement (BACT and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)	Y	
Part 9	Record keeping requirements (BACT, Offsets, Cumulative Increase, and Regulation 8-34-501)	Y	
Part 10	Engine Temperature Limit and Temperature Monitoring Requirements (8-34-301, 8-34-501.11, 8-34-509)	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.

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

Condition # 5771
For: S-5, INTERNAL COMBUSTION LEAN BURN ENGINE; and
S-6, INTERNAL COMBUSTION LEAN BURN ENGINE:

1. The Internal Combustion Engines (S-5 and S-6) shall be fired exclusively on landfill gas. (basis: Cumulative Increase)

2. The A-8 Flare shall be operated when one or more Internal Combustion Engines (S-5, S-6, or S-37) are not operating, but A-8 shall not be operated when all three engines are operating concurrently. An automatically controlled landfill gas valve shall be installed and maintained to insure that landfill gas is immediately made available for flaring to the Flare, A-8, when one or more engines are down. Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during control system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to inadvertent component leaks that do not exceed the limits specified in 8-34-301.2. (basis: Regulation 8-34-301)

3. District approved flow meters, to measure landfill gas flow into each engine, shall be installed prior to any operation and maintained in good working condition. (basis: Cumulative Increase and Regulation 8-34-508)

4. Nitrogen Oxide (NO_X) emissions from each Internal Combustion Engine (S-5 and S-6) shall not exceed 76 ppmv, corrected to 15% O_2, dry basis. (basis: BACT)

5. Carbon Monoxide (CO) emissions from each Internal Combustion Engine (S-5 and S-6) shall not exceed 376 ppmv, corrected to 15% O, dry basis. (basis: BACT)

6. Each engine shall comply with the NMOC limit in Regulation 8-34-301.4. (basis: BACT and Regulation 8-34-301.4)

VI. Permit Conditions

Condition # 5771
For: S-5, INTERNAL COMBUSTION LEAN BURN ENGINE; and
S-6, INTERNAL COMBUSTION LEAN BURN ENGINE:

7. In order to demonstrate compliance with parts #4, #5, and #6 above, Regulation 8, Rule 34, Section 301.4, and 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-5 and S-6). The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. 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. The annual source tests 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), and non-methane organic compounds (NMOC) in the landfill gas;
   c. exhaust gas flow rate from each engine (dry basis);
   d. concentrations (dry basis) of NO_x, CO, NMOC, SO_2 and O_2 in the exhaust gas from each engine;
   e. NMOC destruction efficiency achieved by each engine; and
   f. average cylinder temperature range (or exhaust temperature range measured at an APCO approved location) for each engine that is required to maintain compliance with Parts 4, 5, and 6 above and Regulation 8-34-301.4.

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

8. The heat input to each internal combustion engine shall not exceed 259.2 million BTU per day nor 94,608 million BTU per year. (basis: Regulation 2-1-301)

9. Daily records shall be maintained, in a District approved logbook, for the hours of operation of the engines and total amount of landfill gas flow through each engine. On a monthly basis, summarize all daily records for each engine. On a monthly basis, calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentration in the landfill gas (as measured during the most recent source test), a high heating value for methane of 1013 BTU/ft^3 at 60 degrees F, and the amount of landfill gas burned in each engine. The logbook shall be kept on site and shall be made available to the District staff upon request. All records shall be retained for at least 5 years from the date of entry. (basis: Cumulative Increase and Regulations 2-1-301, 2-6-501, and 8-34-301)

VI. Permit Conditions

Condition # 5771
For: S-5, INTERNAL COMBUSTION LEAN BURN ENGINE; and
S-6, INTERNAL COMBUSTION LEAN BURN ENGINE:

10. Effective January 1, 2003, the average cylinder temperature for each Internal Combustion Engine shall be maintained at the temperature determined by the most recent annual source, plus or minus 10 degrees F (or other appropriate range established by the source test) and averaged over 3 hours, during all times that the engine is operated. In order to demonstrate compliance with this condition, each engine shall be equipped with at least one thermocouple that will continuously monitor engine cylinder temperature (or engine exhaust temperature at an APCO approved location). The engine cylinder temperature (or average cylinder temperature if more than one thermocouple is used) shall be continuously recorded. These temperature monitors and recorders shall be installed and operating by no later than July 1, 2002. The appropriate temperature range for each engine that is established by the source tests shall be added to this partin accordance with the procedures identified in Regulations 2-6-414 or 2-6-415. (basis: Regulations 8-34-301, 8-34-501.11 and 8-34-509)

VI. Permit Conditions

Condition # 7463

For: S-22, PRIMARY OIL/WATER SEPARATOR, TK-2; S-23, SECONDARY OIL/WATER SEPARATOR, TK-4; S-24, LOAD EQUALIZATION TANK, TK-7; S-25, PHOTO-OXIDIZER TANK, TK-5; S-26, NEUTRALIZATION TANK, TK-9; S-27, FIRST STAGE CLARIFIER, TK-8; S-28, AIR STRIPPER SUMP; S-29, FLOCCULATION/ MIXING TANK, TK-8A; S-30, AIR STRIPPER; S-38, SECONDARY OIL/WATER SEPARATOR, TK-4; S-39, SLUDGE STORAGE TANK, TK-3; S-40, EQUALIZATION TANK, TK-1; A-1, CARBON ADSORBER; A-2, CARBON ADSORBER; A-3, CARBON ADSORBER; A-4, CARBON ADSORBER; A-5, CARBON ADSORBER; and A-6, CARBON ADSORBER.

1. The emissions of precursor organic compounds (POC) from the sources S-22, S-23, S-24, S-25, S-26, S-27, S-28, S-29, S-38, S-39, and S-40 shall be abated by the Carbon Adsorbers, A-1 and A-2 arranged in series, during all periods of operations. (basis: Cumulative Increase and Toxic Risk Management Policy)

2. The emissions of POC from the Air Stripper (S-30) shall be abated by the Carbon Adsorbers, either A-3 and A-4 arranged in series, or A-5 and A-6 arranged in series, during all periods of operations. (basis: Cumulative Increase and Toxic Risk Management Policy)

3. The two Secondary Oil/Water Separators (S-23 and S-38) shall not operate concurrently. (basis: Cumulative Increase)

4. The Oil/Water Separators (S-22, S-23, and S-38) shall have all the openings kept closed at all times except when the opening is used for the inspection and maintenance of the separators. (basis: Regulations 8-8-301 and 8-8-303)

5. The wastewater throughput rate to the leachate collection, recovery, and treatment system (LCRTS) shall not exceed 1200 gallons per hour; nor 28,800 gallons per day; nor 10,512,000 gallons per year. (basis: Cumulative Increase)

6. The detectable POC leak emissions, as measured by a District approved portable monitor, shall not exceed 100 ppm above background at a distance of 1 cm from any of the valves, flanges, or pumps of LCRTS. (basis: Cumulative Increase)

7. The second to last Carbon Adsorber, A-1 and either A-3 or A-5, shall be replaced with fresh carbon upon the detection of 10% of the inlet stream to the Carbon Adsorber as measured by a flame ionization detector (OVA-FID) or other method approved in writing by the APCO. (basis: Cumulative Increase and Toxic Risk Management Policy)

VI. Permit Conditions

Condition # 7463

For: S-22, PRIMARY OIL/WATER SEPARATOR, TK-2; S-23, SECONDARY OIL/WATER SEPARATOR, TK-4; S-24, LOAD EQUALIZATION TANK, TK-7; S-25, PHOTO-OXIDIZER TANK, TK-5; S-26, NEUTRALIZATION TANK, TK-9; S-27, FIRST STAGE CLARIFIER, TK-8; S-28, AIR STRIPPER SUMP; S-29, FLOCCULATION/ MIXING TANK, TK-8A; S-30, AIR STRIPPER; S-38, SECONDARY OIL/WATER SEPARATOR, TK-4; S-39, SLUDGE STORAGE TANK, TK-3; S-40, EQUALIZATION TANK, TK-1; A-1, CARBON ADSORBER; A-2, CARBON ADSORBER; A-3, CARBON ADSORBER; A-4, CARBON ADSORBER; A-5, CARBON ADSORBER; and A-6, CARBON ADSORBER.

8. The last Carbon Adsorber, A-2 and either A-4 or A-6, shall be replaced with fresh carbon upon the detection of break-through of 6 ppm as measured with a flame ionization detector (OVA-FID) or other method approved in writing by the APCO. (basis: Cumulative Increase and Toxic Risk Management Policy)

9. The limit set forth in parts 7 and 8 shall apply to non-methane hydrocarbon emissions. To determine the presence of methane in the exhaust stream, a reading shall be taken with and without a carbon filter tip fitted on the OVA-FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane for the purposes of these permit conditions. (basis: Cumulative Increase and Toxic Risk Management Policy)

10. The operator of this system shall monitor with an FID, or other method approved in writing by the APCO, at the following locations and on the schedule described in subpart d. below:
    a. at the inlet of A-1 and either A-3 or A-5;
    b. at the exhaust of A-1 and either A-3 or A-5;
    c. at the exhaust of A-2 and either A-4 or A-6.
    d. If the time until predicted hydrocarbon breakthrough from the last carbon adsorber (calculated pursuant to Part 11.d. below) is greater than 30 days, then monitoring shall be conducted on a monthly basis. If the time until predicted hydrocarbon breakthrough is between 7 days and 30 days, then monitoring shall be conducted on a weekly basis. If the time until predicted hydrocarbon breakthrough is less than 7 days, then monitoring shall be conducted on a daily basis until the carbon is replaced.

    (basis: Cumulative Increase and Toxic Risk Management Policy)

VI. Permit Conditions

Condition # 7463

For: S-22, PRIMARY OIL/WATER SEPARATOR, TK-2; S-23, SECONDARY OIL/WATER SEPARATOR, TK-4; S-24, LOAD EQUALIZATION TANK, TK-7; S-25, PHOTO-OXIDIZER TANK, TK-5; S-26, NEUTRALIZATION TANK, TK-9; S-27, FIRST STAGE CLARIFIER, TK-8; S-28, AIR STRIPPER SUMP; S-29, FLOCCULATION/ MIXING TANK, TK-8A; S-30, AIR STRIPPER; S-38, SECONDARY OIL/WATER SEPARATOR, TK-4; S-39, SLUDGE STORAGE TANK, TK-3; S-40, EQUALIZATION TANK, TK-1; A-1, CARBON ADSORBER; A-2, CARBON ADSORBER; A-3, CARBON ADSORBER; A-4, CARBON ADSORBER; A-5, CARBON ADSORBER; and A-6, CARBON ADSORBER.

11. The operator of the LCRTS shall maintain, in a District approved logbook, the following information:
    a. daily records of wastewater throughput to the LCRTS;
    b. each monitoring reading and analysis results for the day of operation they were taken;
    c. calculate and record the frequency of carbon change out necessary to maintain compliance with part 7;
    d. calculate and record the time of predicted hydrocarbon breakthrough from the last Carbon Adsorbers, to demonstrate compliance with part 8;
    e. the dates and locations of all carbon bed replacements.
    (basis: Cumulative Increase and Toxic Risk Management Policy)

12. The project is restricted to emission limits set forth in part 8, and throughput rates stipulated in part 5. Any relaxation of these conditions that increase the emissions and/or throughput of wastewater will be subject to a full permit review as though construction at the site had not yet commenced. (basis: Cumulative Increase and Toxic Risk Management Policy)

VI. Permit Conditions

Condition # 17812
For: S-37, INTERNAL COMBUSTION LEAN BURN ENGINE

1. The S-37 Internal Combustion Engine shall be fired on landfill gas exclusively. (basis: Offsets and Cumulative Increase)

2. The heat input to S-37 shall not exceed 229.2 million BTUs per day nor 83,658 million BTUs during any consecutive 12-month period. (basis: Offsets and Cumulative Increase)

3. The S-37 Internal Combustion Engine shall operate continuously during all times that landfill gas is vented to the engine. (basis: Regulation 8-34-301.1)

4. In the event of shutdown of S-37, landfill gas shall be automatically diverted to the A-8 Flare. The A-8 Flare shall be operated when one or more Internal Combustion Engines (S-5, S-6, or S-37) are not operating, but A-8 shall not be operated when all three engines are operating concurrently. Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during control system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for inadvertent component leaks that do not exceed the limits specified in 8-34-301.2. (basis: Regulation 8-34-301)

5. S-37 shall emit no more than 71 ppmv of nitrogen oxides on dry basis, corrected to 15% oxygen. (basis: BACT)

6. S-37 shall emit no more than 309 ppmv of carbon monoxide, dry basis, corrected to 15% oxygen. (basis: BACT)

7. In order to demonstrate compliance with part 2, the IC Engine shall be equipped with a gas flow meter and recorder that records the gas flow rate at least every 15 minutes. (basis: Offsets and Cumulative Increase)

VI. Permit Conditions

Condition # 17812
For: S-37, INTERNAL COMBUSTION LEAN BURN ENGINE

8. In order to demonstrate compliance with parts 5 and 6 above and Regulations 8-34-301.4, 9-8-302.1, and 9-8-302.3, the Permit Holder shall ensure that a District approved source test is conducted annually on the S-37 Internal Combustion Engine. Source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date.
   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), and non-methane organic compounds (NMOC) in the landfill gas;
   c. exhaust gas flow rate from the engine (dry basis);
   d. concentrations (dry basis) of NO_x, CO, NMOC, , SO_2 and O_2 in the exhaust gas from the engine;
   e. the NMOC destruction efficiency achieved by the engine; and
   f. the average cylinder temperature range (or exhaust temperature range measured at an APCO approved location) for each engine that is required to maintain compliance with parts 5 and 6 above and Regulation 8-34-301.4.

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

9. The Permit Holder shall maintain the following records:
   a. Records of all start up and shut down dates and times and the reason for any shut downs for S-37.
   b. Records of landfill gas throughput to S-37.
   c. On a monthly basis calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentration in the landfill gas (as measured during the most recent source test), a high heating value for methane of 1013 BTU/ft^3 at 60 degrees F, and the amount of landfill gas burned in each engine.
   d. Records of all compliance demonstration test data.

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

VI. Permit Conditions

Condition # 17812
For: S-37, INTERNAL COMBUSTION LEAN BURN ENGINE

10. Effective January 1, 2003, the average cylinder temperature for the S-37 Internal Combustion Engine shall be maintained at the temperature determined by the most recent annual source, plus or minus 10 degrees F (or other appropriate range established by the source test) and averaged over 3 hours, during all times that the engine is operated. In order to demonstrate compliance with this condition, the engine shall be equipped with at least one thermocouple that will continuously monitor engine cylinder temperature (or engine exhaust temperature at an APCO approved location). The engine cylinder temperature (or average cylinder temperature if more than one thermocouple is used) shall be continuously recorded. These temperature monitors and recorders shall be installed and operating by no later than July 1, 2002. The appropriate temperature range for the engine that is established by the source tests shall be added to this part via an administrative amendment. (Basis: Regulations 8-34-301, 8-34-501.11 and 8-34-509)

VI. Permit Conditions

Condition # 17821
FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

1. Total waste accepted and placed at the landfill shall not exceed 2,500 tons in any single day. The total cumulative amount of all wastes placed in the landfill shall not exceed 10.92 million tons. The maximum design capacity of the landfill (total volume of all wastes and cover materials placed in the landfill, excluding final cover) shall not exceed 18.2 million cubic yards. (basis: Regulation 2-1-301)

*2. This facility is not subject to Regulation 8, Rule 40 because the landfill does not accept contaminated soil (soil containing more than 50 ppmw of volatile organic compounds, VOCs). The following types of materials may be accepted:
   a. Materials for which the Permit Holder has appropriate documentation demonstrating that either the organic content of the soil or the organic concentration above the soil is below the "contaminated" level (as defined in Regulation 8, Rule 40, Sections 205, 207, and 211).
   b. Materials for which the Permit Holder has no documentation to prove that soil is not contaminated, but source of the soil is known and there is no reason to suspect that the soil might contain organic compounds.
   c. Materials which the Permit Holder plans to test in order to determine the VOC contamination level in the soil, provided that the material is sample within 24 hours of receipt by this site and is handled as if the soil were contaminated until the Permit Holder receives the test results. The Permit Holder shall collect soil samples in accordance with Regulation 8-40-601. The organic content of the collected soil samples shall be determined in accordance with Regulation 8-40-602.
      i. If these test results indicate that the soil is still contaminated or if the soil was not sampled within 24 hours of receipt by the facility, the Permit Holder must continue to handle the soil in accordance with Regulation 8, Rule 40, until the soil has been removed from this site or has completed treatment. Storing soil in a temporary stockpile or pit is not considered treatment. Co-mingling, blending, or mixing of soil lots is not considered treatment.
      ii. If these test results indicate that the soil, as received at this site, has an organic content of 50 ppmw or less, then the soil may be considered to be not contaminated and need not be handled in accordance with Regulation 8, Rule 40 any longer.

   (basis: Regulations 2-1-403 and 8-40-301)

VI. Permit Conditions

Condition # 17821
FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

3. The Permit Holder shall limit the quantity of low VOC soil (soil that contains 50 ppmw or less of VOCs) disposed of per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. In order to demonstrate compliance with this condition, the Permit Holder shall maintain the following records in a District approved log.
   a. Record on a daily basis the amount of low VOC soil disposed of in the landfill or used as cover material in the landfill. This total amount (in units of pounds per day) is Q in the equation in subpart c. below.
   b. Record on a daily basis the VOC content of all low VOC soils disposed of or used as cover material. This VOC Content (C in the equation below) should be expressed as parts per million by weight as total carbon (or C_1).
   c. Calculate and record on a daily basis the VOC Emission Rate (E) using the following equation:
   E = Q * C / 1 E 6
   (basis: Regulation 8-2-301)

4. Water and/or dust suppressants shall be applied to all unpaved roadways and active soil removal and fill areas associated with this landfill as necessary to prevent visible particulate emissions. Paved roadways at the facility shall be kept sufficiently clear of dirt and debris as necessary to prevent visible particulate emissions from vehicle traffic or wind. (basis: Regulations 2-1-403, 6-301, and 6-305)

5. All collected landfill gas shall be vented to properly operating abatement equipment including the Internal Combustion Engines (S-5, S-6, and S-37) or the Landfill Gas Flare (A-8). Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)

6. The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described in Parts 6a-b below. Increasing or decreasing the number of wells or collectors, or significantly changing the length of collectors, or the locations of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.

VI. Permit Conditions

Condition # 17821
FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

a. The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in Permit Application # 2417.

	Required Components
Total Number of Vertical Wells:	53
Total Number of Horizontal Collectors:	16

b. The Permit Holder has submitted Application # 2789 for a new separate gas collection and control system for the HWMF section of the landfill. This application is under review.

(basis: Regulations 2-1-301, 8-34-301.1, 8-34-304, 8-34-305)

7. The landfill gas collection system described in Part 6a shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the District, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)

8. The A-8 Landfill Gas Flare shall be operated when one or more engines (S-5, S-6, or S-37) are not operating. The A-8 Landfill Gas Flare shall not be operated when all three engines (S-5, S-6, and S-37) are operating. The Heat Input to the A-8 Landfill Gas Flare shall not exceed 544 million BTU per day nor 198,560 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the flare based on the landfill gas flow rate recorded pursuant to part 14, the average methane concentration in the landfill gas based on the most recent source test, and a high heating value for methane of 1013 BTU/ft^3 at 60 degrees F. (basis: Cumulative Increase and Regulation 2-1-301)

9. The combustion zone temperature of the A-8 Landfill Gas Flare shall be maintained at a minimum of 1400 degrees Fahrenheit, averaged over any 3-hour period. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO may revise this minimum temperature limit in accordance with the procedures identified in Regulation 2-6-414 or 2-6-415, based on the following criteria. The minimum combustion zone temperature for the flare shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that

VI. Permit Conditions

the minimum combustion zone temperature is not less than 1400 degrees F. (basis: Toxic Risk Management Policy and Regulation 8-34-301.3)

VI. Permit Conditions

Condition # 17821
FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

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

11. In order, to demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-8). As a minimum, the annual source test shall determine the following:
    a. landfill gas flow rate to the flare (dry basis);
    b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), and total non-methane organic compounds (NMOC) in the landfill gas;
    c. stack gas flow rate from the flare (dry basis);
    d. concentrations (dry basis) of NO_x, CO, SO_2, NMOC, Benzene, Formaldehyde, Vinyl Chloride, and O_2 in the flare stack gas;
    e. NMOC destruction efficiency achieved by the flare; and
    f. the average combustion temperature in the flare during the test period.

    The first annual source test shall be conducted by no later than October 1, 2002. Subsequent source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. (basis: Regulations 8-34-301.3 and 8-34-412)

VI. Permit Conditions

Condition # 17821
FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

12. The Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by part 11 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in part 11b, the landfill gas shall be analyzed for all the organic compounds listed below. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. (basis: Toxic Risk Management Policy, AB-2588 Air Toxics Hot Spots Act, and Regulation 8-34-412)

Organic Compounds	Organic Compounds
acrylonitrile	ethylbenzene
benzene	ethylene dibromide
benzyl chloride	fluorotrichloromethane
carbon tetrachloride	hexane
chlorobenzene	isopropyl alcohol
chlorodifluoromethane	methyl ethyl ketone
chloroethane	methylene chloride
chloroform	perchloroethylene
1,1 dichloroethane	toluene
1,1 dichlorethene	1,1,1 trichloroethane
1,2 dichloroethane	1,1,2,2 tetrachloroethane
1,4 dichlorobenzene	trichloroethylene
dichlorodifluoromethane	vinyl chloride
dichlorofluoromethane	xylenes

*13. If the concentrations (dry basis) of toxic air contaminants in the collected landfill gas exceed any of the limits listed below, the Permit Holder shall submit a permit application for a Change of Permit Conditions within 30 days of receiving the test results.

Benzene	=	8.9	ppmv
Chlorobenzene	=	1.5	ppmv
Trichloroethylene	=	0.873	ppmv
Ethylbenzene	=	41	ppmv
Vinyl Chloride	=	6.4	ppmv
Xylene	=	78	ppmv
Toluene	=	110	ppmv

(basis: Toxic Risk Management Policy and AB-2588 Air Toxics Hot Spots Act)

VI. Permit Conditions

Condition # 17821

FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

14. In order to demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in a District approved logbook.
    a. Record the total amount of municipal solid waste received at S-15 on a daily basis. Summarize the daily waste acceptance records for each calendar month.
    b. For each area or cell that is not controlled by a landfill gas collection system, maintain a record of the date that waste was initially placed in the area or cell. Record the cumulative amount of waste placed in each uncontrolled area or cell on a monthly basis.
    c. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
    d. Maintain daily records of low VOC soil acceptance rate and emissions, pursuant to part 3.
    e. Record of the dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. Record the dates, locations, and type of any dust suppressant applications. Record the dates and description of all paved roadway cleaning activities. All records shall be summarized on monthly basis.
    f. Record the initial operation date for each new landfill gas well and collector.
    g. Maintain an accurate map of the landfill which indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to part 6.a. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least once a year to indicate changes in refuse boundaries and to include any newly installed wells and collectors.
    h. Record the operating times and the landfill gas flow rate to the A-8 Landfill Gas Flare on a daily basis. Summarize these records on a monthly basis. Calculate and record the heat input to A-8, pursuant to part 8.
    i. Maintain continuous records of the combustion zone temperature for the A-8 Landfill Gas Flare during all hours of operation.
    j. Maintain records of all test dates and test results performed to maintain compliance parts 10, 11, and 12 above or to maintain compliance with any applicable rule or regulation.

VI. Permit Conditions

Condition # 17821
FOR: S-15, ACTIVE LANDFILL WITH LANDFILL GAS COLLECTION SYSTEM; AND A-8, LANDFILL GAS FLARE

All records shall be maintained on site or shall be made readily available to District staff upon request for a period of at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations.
(basis: Cumulative Increase, 2-1-301, 2-6-501, 6-301, 6-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)

15. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments. The reporting periods and report submittal due dates for the semi-annual increments of the Regulation 8-34-411 report and the MSW Landfill NESHAP report, which is required pursuant to 40 CFR Part 63.1980(a), shall be synchronized with the reporting periods and report submittal due dates for the semi-annual MFR Permit monitoring reports that are required by Section I.F of the MFR Permit for this site. A single report may be submitted to satisfy the requirements of Section I.F, Regulation 8-34-411, and 40 CFR Part 63.1980(a), provided that all items required by each applicable reporting requirement are included in the single report.
(Basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

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/hr	None	N	NA
FP	BAAQMD 6-310	Y		0.15 grains/dscf	None	N	NA
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
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4 and BAAQMD Condition # 5771, Part 6	Y		98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 5771, Part 7	P/A	Initial and Annual Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

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	None	N	NA
SO_2	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition # 17821, Part 10 and BAAQMD Condition # 5771, Part 7	P/Q and P/A	Quarterly Sulfur Analysis of Landfill Gas and Annual Source Test
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	None	N	NA
NO_x	BAAQMD 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn $\leq$ 140 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
NO_x	BAAQMD Condition # 5771, Part 4	Y		$\leq$ 76 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: $\leq$ 2000 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
CO	BAAQMD Condition # 5771, Part 5	Y		$\leq$ 315 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat Input	BAAQMD Condition # 5771, Part 8	Y		259.2 MM BTU per day (each engine) and 94,608 MM BTU per year (each engine)	BAAQMD Condition # 5771, Parts 3 and 9	C	Gas Flow Meter and Recorder and Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Gas Flow	BAAQMD Condition # 5771, Part 2	Y		Upon shut down of and engine (S-5 or S-6), automatically divert excess collected gas the A-8 Flare	BAAQMD Condition # 5771, Part 3	C	Gas Flow Meter and Recorder
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 5771, Part 9	P/D	Records
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Engine Cylinder or Exhaust Temper-ature	BAAQMD Condition # 5771, Part 10	Y		To be established during first source test conducted after permit issuance	BAAQMD 8-34-507 and 8-34-509	C	Temperature sensor and continuous recorder

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y		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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installa-tion Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 17821, Parts 14b-c and 14f-g	P/E	Records
Collection System Installa-tion Dates	BAAQMD 8-34-304.2	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 17821, Parts 14b-c and 14f-g	P/E	Records
Collection System Installa-tion Dates	BAAQMD 8-34-304.3	Y		For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 17821, Parts 14a-c and 14f-g	P/E	Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND
A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD Condition # 17821, Parts 5, 6, and 7	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD Condition # 5771, Part 9; BAAQMD Condition # 17812, Part 11; and BAAQMD Condition # 17821, Parts 14f-h	P/D	Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year nor 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating Records
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y		15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND
A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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	Operating Records for All Continuous Monitors
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly Inspection and Records
Temper-ature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 ^{o}C	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records
Gas Concen-trations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y		N_2 < 20% **OR** O_2 < 5%	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records
Well Shutdown Limits	BAAQMD 8-34-116.2	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-116.3	Y		24 hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.4	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.5	Y		24 hours per well	BAAQMD 8-34-117.6 and 501.1	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
TOC (Total Organic Com-pounds Plus Methane)	BAAQMD 8-34-301.2	Y		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with OVA and Records
TOC	BAAQMD 8-34-303	Y		500 ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspec-tion Times for Leaking Areas, and Records
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.3	Y		98% removal by weight OR < 30 ppmv, dry basis @ 3% O_2, expressed as methane (applies to A-8 Flare only)	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 17821, Part 11	P/A	Initial and Annual Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature of Combustion Zone (CT)	BAAQMD Condition # 17821, Part 9	Y		CT $\geq$ 1400 °F, averaged over any 3-hour period (applies to A-8 Flare only)	BAAQMD 8-34-501.3 and 507, and BAAQMD Condition# 17821, Part 14i	C	Temperature Sensor and Recorder (continuous)
Total Carbon	BAAQMD 8-2-301	Y		15 pounds/day or 300 ppm, dry basis (applies only to aeration of or use as cover soil of soil containing $\leq$ 50 ppmw of volatile organic compounds)	BAAQMD Condition # 17821, Part 3	P/D	Records
Volatile Organic Compounds	BAAQMD Condition # 17821, Part 2	N		Facility shall not accept soil containing more than 50 ppmw of VOC	BAAQMD Condition # 17821, Part 2	P/E	Records
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to S-15 Landfill operations)	BAAQMD Condition #17821, Part 14i	P/E, M	Records of all site watering and road cleaning events
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to A-8 Flare)	None	N	NA
FP	BAAQMD 6-310	Y		$\leq$ 0.15 grains/dscf (applies to A-8 Flare only)	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: $\leq$ 0.5 ppm for 3 minutes and $\leq$ 0.25 ppm for 60 min. and $\leq$0.05 ppm for 24 hours	None	N	NA
SO_2	BAAQMD Regulation 9-1-302	Y		$\leq$ 300 ppm (dry basis) (applies to A-8 Flare only)	BAAQMD Condition # 17821, Part 10	P/A	Source Test
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 17821, Part 10	Y		$\leq$ 1300 ppmv	BAAQMD Condition # 17821, Part 10	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	None	N	NA
Amount of Waste Accepted	BAAQMD Condition # 17821, Part 1	Y		$\leq$ 2500 tons/day and $\leq$ 10,920,000 tons (cumulative amount of all wastes) and $\leq$ 18,200,000 yd^3 (cumulative amount of all wastes and cover materials)	BAAQMD Condition # 17821, Part 14a	P/D	Records
Heat Input	BAAQMD Condition # 17821, Part 8	Y		$\leq$ 544 MM BTU per day and $\leq$ 198,560 MM BTU per year	BAAQMD Condition # 17821, Part 8	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 WEST CONTRA COSTA SANITARY LANDFILL; AND
A-8 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Toxic Air Contam-inants	BAAQMD Condition # 17821, Part 13	N		Benzene 8.9 ppmv Chlorobenzene 1.5 ppmv Trichloroethylene 0.873 ppmv Ethylbenzene 41 ppmv Vinyl Chloride 6.4 ppmv Xylene 78 ppmv Toluene 110 ppmv	BAAQMD Condition # 17821, Part 12	P/A	Annual Landfill Gas Analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-22 PRIMARY OIL/WATER SEPARATOR, TK-2;
S-23 SECONDARY OIL/WATER SEPARATOR, TK-4;
S-38 SECONDARY OIL/WATER SEPARATOR, TK-4;
A-1 CARBON ADSORBER; AND A-2 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Com-pounds	BAAQMD 8-8-301.3	Y		combined collection and removal efficiency of at least 95% by weight	BAAQMD Condition # 7463, Parts 10a-c and 11a-e	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers and Daily Records of Wastewater Throughput
Organic Com-pounds	BAAQMD 8-8-303	Y		all gauging and sampling devices shall have vapor tight covers, seals, or lids	None	N	NA
NMOC	BAAQMD Condition # 7463, Part 7	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-1) that is 10% or more of the inlet NMOC concentration	BAAQMD Condition # 7463, Parts 10a, 10b, 11b, 11c, and 11e	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorber (inlet and outlet) and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-22 PRIMARY OIL/WATER SEPARATOR, TK-2;
S-23 SECONDARY OIL/WATER SEPARATOR, TK-4;
S-38 SECONDARY OIL/WATER SEPARATOR, TK-4;
A-1 CARBON ADSORBER; AND A-2 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMOC	BAAQMD Condition # 7463, Part 8	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-2) of 6 ppmv	BAAQMD Condition # 7463, Parts 10c, 11b, 11d, and 11e	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ment at Carbon Adsorber (outlet) and Records
POC	BAAQMD Condition # 7463, Part 6	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA
Waste-water Through-put Limits	BAAQMD Condition # 7463, Part 5	Y		1200 Gallons/Hour 28,800 Gallons/Day 10,512,000 Gallons/Year	BAAQMD Condition # 7463, Part 11a	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-24 LOAD EQUALIZATION TANK, TK-7; S-25 PHOTO-OXIDIZER TANK, TK-5;
S-26 NEUTRALIZATION TANK, TK-9; S-27 FIRST STAGE CLARIFIER, TK-8;
S-28 AIR STRIPPER SUMP; S-39 SLUDGE STORAGE TANK, TK-3; AND
S-40 EQUALIZATION TANK, TK-1

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Carbon	BAAQMD 8-2-301	Y		15 Pounds/Day or 300 ppm, dry basis	BAAQMD Condition # 7463, Part 11a	P/D	Records
Waste-water Through-put Limits	BAAQMD Condition # 7463, Part 5	Y		1200 Gallons/Hour 28,800 Gallons/Day 10,512,000 Gallons/Year	BAAQMD Condition # 7463, Part 11a	P/D	Records
POC	BAAQMD Condition # 7463, Part 6	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII –E
Applicable Limits and Compliance Monitoring Requirements
S-30 AIR STRIPPER; A-3 CARBON ADSORBER; A-4 CARBON ADSORBER; A-5 CARBON ADSORBER; AND A-6 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Organic Com-pounds (TOC)	BAAQMD 8-47-301 and 8-47-302	Y		control device shall reduce total organic compound emissions to the atmosphere by at least: 90% by weight	BAAQMD 8-47-501.1, 8-47-501.2, and 8-47-601 and BAAQMD Condition # 7463, Parts 10a-c and 11a-e	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers, Daily Records of Wastewater Throughput and Monthly Records of Water Analyses
NMOC	BAAQMD Condition # 7463, Part 7	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-3 or A-5) that is 10% or more of the inlet NMOC concentration	BAAQMD Condition # 7463, Parts 10a, 10b, 11b, 11c, and 11e	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers (inlet and outlet) and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII –E
Applicable Limits and Compliance Monitoring Requirements
S-30 AIR STRIPPER; A-3 CARBON ADSORBER; A-4 CARBON ADSORBER; A-5 CARBON ADSORBER; AND A-6 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMOC	BAAQMD Condition # 7463, Part 8	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-4 or A-6) of 6 ppmv	BAAQMD Condition # 7463, Parts 10c, 11b, 11d, and 11e	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers (outlet) and Records
POC	BAAQMD Condition # 7463, Part 6	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA
Waste-water Through-put Limits	BAAQMD Condition # 7463, Part 5	Y		1200 Gallons/Hour 28,800 Gallons/Day 10,512,000 Gallons/Year	BAAQMD Condition # 7463, Part 11a	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

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/hr	None	N	NA
FP	BAAQMD 6-310	Y		0.15 grains/dscf	None	N	NA
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
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4	Y		98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 17812, Part 8	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	None	N	NA
SO_2	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition # 17821, Part 10 and BAAQMD Condition # 17812, Part 8	P/Q and P/A	Quarterly Sulfur Analysis of Landfill Gas and Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

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	None	N	NA
NO_x	BAAQMD 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn $\leq$ 140 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
NO_x	BAAQMD Condition # 17812, Part 5	Y		$\leq$ 71 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: $\leq$ 2000 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
CO	BAAQMD Condition # 17812, Part 6	Y		$\leq$ 309 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 17812, Part 2	Y		229.2 MM BTU per day and 83,658 MM BTU per consecutive 12-month period	BAAQMD Condition # 17812, Parts 7 and 9c	C	Gas Flow Meter and Recorder and Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD Condition # 17812, Parts 3 & 4	Y		Operate S-37 continuously; Upon shutdown of S-37 or if any amount of gas exceeds the capacity of S-37, return gas to A-8 Flare automatically	BAAQMD Condition # 17812, Part 7	C	Gas Flow Meter and Recorder
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 17812, Part 9a	P/D	Records
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Engine Cylinder or Exhaust Temper-ature	BAAQMD Condition # 17812, Part 10	Y		To be established during first source test conducted after permit issuance	BAAQMD 8-34-507 and 8-34-509	C	Temperature sensor and continuous recorder
Periods of Inopera-tion for Para-metric Monitors	BAAQMD 1-523.2	Y		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 – F
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

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

VIII. TEST METHODS

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

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate**;** or USEPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 8-2-301	Organic Compound Emission Limitation for Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-8-301.3	OC Vapor Recovery System, collection and removal efficiency limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-8-303	Gauging and Sampling Devices	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
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 8-34-301.3	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-301.4	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 8-34-303	Landfill Surface Requirements	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-305.1	Wellhead Gauge Pressure	APCO Approved Device
BAAQMD 8-34-305.2	Wellhead Temperature	APCO Approved Device

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-34-305.3	Wellhead Nitrogen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-305.4	Wellhead Oxygen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-412	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD 8-47-301	Emission Control Requirement, Specific Compounds	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-47-302	Organic Compounds	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 (SO_2)	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO_2)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-8-302.1	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 9-8-302.3	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 # 5771, Part 4	NO_x Emissions Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 5771, Part 5	CO Emissions Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 5771, Part 6	NMOC Emissions Limit	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 Condition # 5771, Part 7	Engine Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition # 5771, Part 8	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 5771, Part 9
BAAQMD Condition # 5771, Part 10	Engine Temperature Limit	APCO Approved Thermocouples
BAAQMD Condition # 7463, Part 6	POC Leak Limit for Valves, Flanges, and Pumps	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD Condition # 7463, Part 7	Replacement requirements for second to last carbon adsorber	APCO Approved Organic Vapor Analyzer, Flame Ionization Detector (OVA-FID) and APCO Approved Procedures Described in BAAQMD Condition # 7463, Parts 9 and 10
BAAQMD Condition # 7463, Part 8	Replacement requirements for last carbon adsorber	APCO Approved Organic Vapor Analyzer, Flame Ionization Detector (OVA-FID) and APCO Approved Procedures Described in BAAQMD Condition # 7463, Parts 9 and 10
BAAQMD Condition # 17812, Part 2	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 17812, Part 11c
BAAQMD Condition # 17812, Part 5	NO_x Emissions Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 17812, Part 6	CO Emissions Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17812, Part 8	Engine Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition # 17812, Part 10	Engine Temperature Limit	APCO Approved Thermocouples
BAAQMD Condition # 17821, Part 2	Acceptance Criteria for Soils containing VOCs (VOC determination)	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B; or EPA Reference Method 21
BAAQMD Condition # 17821, Part 3	Emission Limit for Low VOC Soils	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B; or EPA Reference Method 21 and APCO Approved Calculation Procedure Described in BAAQMD Condition # 17821, Part 3
BAAQMD Condition # 17821, Part 8	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 17821, Part 8
BAAQMD Condition # 17821, Part 9	Flare Combustion Temperature Limit	APCO Approved Device
BAAQMD Condition # 17821, Part 10	Landfill Gas Sulfur Content Limit	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
BAAQMD Condition # 17821, Part 11	Flare Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition # 17821, Part 12	Landfill Gas Characterization Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
BAAQMD Condition # 17821, Part 13	Toxic Compound Concentration Limits (in landfill gas)	APCO approved sampling procedures described in BAAQMD Condition # 17821, Part 12 and GC Analysis for all compounds listed in Part 13

IX. PERMIT SHIELD

Not Applicable

X. REVISION HISTORY

Title V Permit Issuance (Application # 25834): **May 29, 2002**

Reopening (Application # 10391): **September 29, 2004**

- Correct contact information on the title page.
- Update standard language in Sections I, III, and VIII.
- Correct regulatory references and amendment dates in Section I and Tables III, IV-A, IV-B, IV-C, IV-D, IV-E, and IV-F.
- Delete outdated SIP requirements and future effective dates that have passed in Tables II-B, III, IV-A, IV-B, IV-F, VII-A, VII-B, VII-F, and VIII.
- Incorporate new BAAQMD amendments and SIP requirements in Tables III, IV-A, IV-B, and IV-F.
- Add several recently identified generally applicable regulations to Table III.
- Add MSW Landfill NESHAP requirements to Tables IV-A, IV-B, IV-F, VII-A, VII-B, and VII-F.
- Correct errors by deleting Regulation 8-34-501.3 and 507 from the applicable requirements for landfill gas fired engines in Tables IV-A, IV-F, VII-A, and VII-F and the basis for Conditions # 5771, Part 10 and # 17812, Part 10.
- Delete obsolete NMOC and THC requirements from Condition # 5771, Parts 6 and 7 and Table VIII.
- Revise Condition # 5771, Part 10 for consistency with MFR permit revision procedures in Regulation 2, Rule 6.
- Clarify text in Condition # 17812, Part 4.
- Delete Condition # 17812, Parts 5 and 8 and associated test methods in Table VIII, because these POC and THC requirements are obsolete. Revise subsequent part numbers in Condition # 17812 and Tables IV-F, VII-F, and VIII. Revise the new Condition # 17821, Part 8 to eliminate obsolete THC testing requirements.
- Revise Condition # 17821, Parts 2, 12, and 13 and Table IV-B to correct the basis for these parts.
- Clarify an equation in Condition # 17821, Part 3.
- Clarify text in Condition # 17821, Part 5.
- Revise Condition # 17821, Part 9 for consistency with MFR permit revision procedures in Regulation 2, Rule 6.
- Revise Condition # 17821, Part 11 to eliminate obsolete THC testing requirements.

X. Revision History

- Clarify Condition # 17821, Part 12 by specifically listing the organic compounds requiring analysis (instead of referring to the AP-42 table) and adding the AB-2588 Hot Spots Act to the basis.
- Revise Condition # 17821 and Table IV-A by adding Part 15. This part requires semi-annual reports pursuant to the above NESHAP requirements and allows these reports to be combined with the Title V semi-annual monitoring reports.
- An alternate method was added for BAAQMD Regulation 6-310, Particle Weight Limitation.
- In Table VIII, delete an obsolete test method reference for sulfur dioxide, and add the missing test method references for Conditions # 5771, Part 7, # 17812, Part 8, and # 17821, Parts 11 and 12.
- Add Section X Revision History and revise subsequent section numbers.
- Add and correct several terms in Section XI Glossary.

Administrative Amendment (Application # 10516): **September 29, 2004**

- Replace the Responsible Official for this site.

XI. GLOSSARY

ACT
Federal Clean Air Act

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

ARB
Air Resources Board

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

BARCT
Best Available Retrofit Control Technology

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

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CAPCOA
California Air Pollution Control Officers Association

CARB
California Air Resources Board (same as ARB)

CEQA
California Environmental Quality Act

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

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

XI. Glossary

CH4 or CH_4
Methane

CO
Carbon Monoxide

CO2 or CO_2
Carbon Dioxide

CT
Combustion Zone Temperature

Cumulative Increase
The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Regulation 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Regulation 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

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

EG
Emission Guidelines

EO
Executive Order

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District Regulations.

XI. Glossary

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

FID
Flame Ionization Detector

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

FR
Federal Register

GDF
Gasoline Dispensing Facility

GLM
Ground Level Monitor

H2S or H_2S
Hydrogen Sulfide

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

Hg
Mercury

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

LFG
Landfill Gas

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

XI. Glossary

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

MAX or Max.
Maximum

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

MIN or Min.
Minimum

MOP
The District's Manual of Procedures.

MSDS
Material Safety Data Sheet

MSW
Municipal solid waste

MW
Molecular weight

N2 or N_2
Nitrogen

NA
Not Applicable

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 (same as NMOC).

XI. Glossary

NMOC
Non-methane Organic Compounds (same as NMHC).

NOx or NO_x
Oxides of nitrogen.

NSPS
Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the 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 air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O2 or O_2
Oxygen

Offset Requirement
A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. 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
Total Particulate Matter

PM10 or PM_{10}
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

XI. Glossary

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

PV or P/V Valve
Pressure / Vacuum Valve

RMP
Risk Management Plan

S
Sulfur

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

SO2 or SO_2
Sulfur dioxide

SSM
Startup, Shutdown, or Malfunction

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

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

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

TOC
Total Organic Compounds includes all NMOC plus methane (same as THC).

TPH
Total Petroleum Hydrocarbons

XI. Glossary

TRMP
Toxic Risk Management Policy

TRS
Total Reduced Sulfur

TSP
Total Suspended Particulate

VOC
Volatile Organic Compounds

Symbols:

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

Units of Measure:

bbl	=	barrel of liquid (1 bbl = 42 gallons)
bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft^3	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains (7000 grains = 1 pound)
hp	=	horsepower
hr	=	hour
in	=	inches
kg	=	kilograms
lb	=	pound
lbmol	=	pound-mole
M	=	thousand
m^2	=	square meter

XI. Glossary

m^3	=	cubic meters
Mg	=	mega-grams, 1000 kilograms
min	=	minute
mm	=	millimeter
MM	=	million
MM BTU	=	million BTU
MM cf	=	million cubic feet
mm Hg	=	millimeters of mercury (pressure)
MW	=	megawatts
μg	=	microgram, one millionth of a gram
ppb	=	parts per billion
ppbv	=	parts per billion by volume
ppm	=	parts per million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
sdcf	=	standard dry cubic feet
sdcfm	=	standard dry cubic feet per minute
therms	=	1 therm = 100,000 BTU
yd	=	yard
yd^3	=	cubic yards
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