

Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

**San Jose/Santa Clara
Water Pollution Control
Facility #A0778**

Facility Address:

700 Los Esteros Road
San Jose, CA 95134

Mailing Address:

700 Los Esteros Road
San Jose, CA 95134

Responsible Official

Dale Ihrke,
Acting Deputy Director
(408) 945-5198

Facility Contact

Kevin-Win Maung,
Associate Engineer
(408) 945-5135

Type of Facility:	Municipal Wastewater Treatment	BAAQMD Permit Division Contact:
Primary SIC:	4952	M.K. Carol Lee, P.E.
Product:	Treated Municipal Wastewater	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Kelly Wee for Jack P. Broadbent
Jack Broadbent, Executive Officer/Air Pollution Control Officer

June 26, 2007
Date

TABLE OF CONTENTS

I. STANDARD CONDITIONS.....	3
II. EQUIPMENT.....	7
III. GENERALLY APPLICABLE REQUIREMENTS	11
IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS.....	14
V. SCHEDULE OF COMPLIANCE.....	34
VI. PERMIT CONDITIONS.....	34
VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS	54
VIII. TEST METHODS.....	75
IX. PERMIT SHIELD.....	79
X. REVISION HISTORY.....	80
XI. GLOSSARY.....	81

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 6/15/05);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 6/15/05);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/21/04);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 1/26/99); 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 October 5, 2001 and expires on August 31, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than March 31, 2006 and no earlier than September 30, 2005. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after September 30, 2006.** If the permit renewal has not been issued by [], 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)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

I. Standard Conditions

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

C. Requirement to Pay Fees

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

I. Standard Conditions

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, MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: March 1st through August 31st and September 1st through February 28th or 29th, 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 non-compliance. Within 30 calendar days of the discovery of any non-compliance, the facility shall submit a written report including the probable cause of the non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

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

G. Compliance Certification

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

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

I. Standard Conditions

San Francisco, CA 94105
Attention: Air-3
(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

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

J. Miscellaneous Conditions

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

K. Accidental Release

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

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 J 1. and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-4	Stationary IC Cogen Engine, E1 (digester gas, landfill gas, natural gas, diesel)	Enterprise	DGSG-8-CB	1130 HP/9.1 MM Btu/hr
S-5	Stationary IC Cogen Engine, E2 (digester gas, landfill gas, natural gas, diesel)	Enterprise	DGSG-8-CB	1130 HP/9.1 MM Btu/hr
S-6	Stationary IC Cogen Engine, E3 (digester gas, landfill gas, natural gas, diesel)	Enterprise	DGSG-8-CB	1130 HP/9.1 MM Btu/hr
S-7	Stationary IC Cogen Engine, E5 (digester gas, landfill gas, natural gas, diesel)	Enterprise	DGSR-38-CB	2466 HP/20.9 MM Btu/hr
S-8	Stationary IC Cogen Engine, E6 (digester gas, landfill gas, natural gas, diesel)	Enterprise	DGSR-38-CB	2466 HP/20.9 MM Btu/hr
S-9	Stationary IC Cogen Engine, A3 (digester gas, landfill gas, natural gas)	Cooper-Bessemer	LS-8-SCG	2345 HP/19.9 MM Btu/hr
S-10	Dual Fuel Cogen Engine, A2 (digester gas, landfill gas, natural gas)	Cooper-Bessemer	LS-8- SGC	2345 HP/19.9 MM Btu/hr
S-11	Stationary IC Cogen Engine, A1 (digester gas, landfill gas, natural gas)	Cooper-Bessemer	LS-8-SGC	2345 HP/19.9 MM Btu/hr
S-12	Stationary IC Cogen Engine, B1 (digester gas, landfill gas, natural gas)	Cooper-Bessemer	LS-8-SGC	1855 HP/15.7 MM Btu/hr
S-13	Stationary IC Cogen Engine, B2 (digester gas, landfill gas, natural gas)	Cooper-Bessemer	LS-6-SGC	1855 HP/15.7 MM Btu/hr
S-14	Stationary IC Cogen Engine, B3 (digester gas, landfill gas, natural gas)	Cooper-Bessemer	LS-6-SGC	1855 HP/15.7 MM Btu/hr
S-15	Paint Spray Booth	Binks	PFA-8-7-T-LV	Unknown/varies
S-16	Paint Spray Booth	Binks	CF-628-T	Unknown/varies
S-26	Gasoline Dispensing Island, G6770	Custom	N/A	2500 gal, One Nozzle
S-36	Engine Generator 2 – Cogen Unit, Plt EG-2 (digester gas, landfill gas, natural gas)	Delaval Enterprises	HVA-16	3900 HP/30 MM Btu/hr

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 J 1. and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-37	Engine Generator 3 – Cogen Unit, Plt EG-3 (digester gas, landfill gas, natural gas)	Delaval Enterprises	HVA-16	3900 HP/30 MM Btu/hr
S-38	Boiler, Low NOx (digester gas, natural gas)	Gordon Piatt	F16.9G50/1 5934	12.5 MM Btu/hr
S-39	Boiler, Low NOx (digester gas, natural gas)	Gordon Piatt	F16.9G50/1 5934	12.5 MM Btu/hr
S-52	Sandblast Operations	Quincy	Screw Drive	375 scfm
S-54	Engine Generator 1, Cogen, 12 Cylinder Turbo LSVB, Plt EG-1 (digester gas, landfill gas, natural gas, diesel)	Cooper-Bessemer	LSVB-12-GDC	3900 HP; 28.9 MM Btu/hr
S-55	I C Engine Bldg 40 500 KW (diesel)	Detroit Diesel	N/A	760 HP/4.8 MMBTU/hr
S-56	I C Engine CL Bldg 250 KW (diesel)	Detroit Diesel	N/A	368 HP/2.1 MMBTU/hr
S-57	I C Engine P & E, 500 KW (diesel)	Cummins Diesel	N/A	760 HP/4.4 MMBTU/hr
S-58	I C Engine (diesel)	Ford	N/A	59 HP/0.4 MMBTU/hr
S-59	I C Engine (diesel)	Deutz	N/A	145 HP/0.9 MMBTU/hr
S-60	I C Engine (diesel)	John Deere	N/A	80 HP/0.6 MMBTU/hr
S-61	I C Engine (diesel)	Deutz	N/A	62 HP/0.4 MMBTU/hr
S-62	I C Engine (diesel)	Mudcat	N/A	235 HP/1.6 MMBTU/hr
S-63	I C Engine (diesel)	Mudcat	N/A	235 HP/1.6 MMBTU/hr
S-64	I C Engine (diesel)	Mudcat	N/A	235 HP/1.6 MMBTU/hr
S-65	I C Engine (diesel)	Mudcat	N/A	235 HP/1.6 MMBTU/hr
S-100	Wastewater Treatment Plant – Fugitive Emissions	Custom	N/A	15 MM gal/hr
S-110	Preliminary Treatment	Custom	N/A	15 MM gal/hr
S-120	Primary Treatment	Custom	N/A	15 MM gal/hr
S-140	Flow Equalization	Custom	N/A	15 MM gal/hr
S-150	Secondary Treatment	Custom	N/A	15 MM gal/hr
S-160	Secondary Clarifiers	Custom	N/A	15 MM gal/hr
S-170	Tertiary Treatment	Custom	N/A	15 MM gal/hr
S-180	Disinfection	Custom	N/A	15 MM gal/hr
S-190	Reclamation	Custom	N/A	2 MM gal/day
S-200	Sludge Handling	Custom	N/A	16 DAF/20 Dry Beds; 80 M gal/hr

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 J 1. and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-210	Anaerobic Digesters	Custom	N/A	5.5 MM gal/hr
S-211	CH&E 6" Trash Pump, # 22317 (diesel)	John Deere	4045DF150	80 HP/0.4 MMBTU/hr
S-212	10" Gorman Rupp Trash Pump # 22312 (diesel)	Detroit	1043-7100	120 HP/0.4 MMBTU/hr
S-213	4" Gorman Rupp Trash Pump # 22314 (diesel)	Deutz	F4L912	62 HP/0.5 MMBTU/hr
S-214	IR Air Compressor # 22107 (diesel)	Deutz	F6L912,	109 HP/0.7 MMBTU/hr
S-215	IR Air Compressor # 22104 (diesel)	Deutz	F6L912	109 HP/0.7 MMBTU/hr
S-216	CH&E 6" Trash Pump, # 22306 (diesel)	John Deere	4045DF150	80 HP/0.5 MMBTU/hr

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-4	Odor Control System; Packed Bed Scrubber	S-120	BAAQMD 1-301	None	N/A
A-401	Digester Gas Flare	S-210	BAAQM 1-301	None	N/A
A-402	Digester Gas Flare	S-210	BAAQMD 1-301	None	N/A
A-403	Digester Gas Flare	S-210	BAAQMD 1-301	None	N/A
A-404	Digester Gas Flare – Ground Flare	S-210	BAAQMD 1-301	None	N/A
A-405	Digester Gas Flare – Emergency Flare	S-210	BAAQMD 1-301	None	N/A

III. Generally Applicable Requirements

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is

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

NOTE:

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

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (6/15/05)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (6/15/05)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds - Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/05)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	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
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
California Health and Safety Code Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (9/9/05)	N
California Code of Regulations Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/9/05)	N
California Code of Regulations Title 17, Section 93114	Airborne Toxic Control Measure to Reduce Particulate from Diesel Fueled Engines – Standards for Nonvehicular Engines	N
California Code of Regulations Title 13, Section 2281	Standards for Vehicular Diesel Fuel	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

The dates in 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

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

All other text may be found in the regulations themselves.

Table IV - A
Source-specific Applicable Requirements
S-4, STATIONARY IC ENGINE, PLT E1, LOCATION P&E
S-5, STATIONARY IC ENGINE, PLT E2, LOCATION P&E
S-6, STATIONARY IC ENGINE, PLT E3, LOCATION P&E
S-7, STATIONARY IC ENGINE, PLT E5, LOCATION P&E
S-8, STATIONARY IC ENGINE, PLT E6, LOCATION P&E

(All the above engines can be run on: digester gas, landfill gas, natural gas, diesel)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitations	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-401	Appearance of Emissions	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-4, STATIONARY IC ENGINE, PLT E1, LOCATION P&E
S-5, STATIONARY IC ENGINE, PLT E2, LOCATION P&E
S-6, STATIONARY IC ENGINE, PLT E3, LOCATION P&E
S-7, STATIONARY IC ENGINE, PLT E5, LOCATION P&E
S-8, STATIONARY IC ENGINE, PLT E6, LOCATION P&E
 (All the above engines can be run on: digester gas, landfill gas, natural gas, diesel)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (7/20/2005)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Regulation 8 Rule 34	Organic Compounds, Solid Waste Disposal Sites (06/15/2005)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameter(s)	Y	
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	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/01)		
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.2	NOx emission limit for lean burn engines	Y	
9-8-301.3	CO emission limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx emission limit for lean burn engines	Y	
9-8-302.3	CO emission limit	Y	

IV. Source-specific Applicable Requirements

Table IV - A
Source-specific Applicable Requirements
S-4, STATIONARY IC ENGINE, PLT E1, LOCATION P&E
S-5, STATIONARY IC ENGINE, PLT E2, LOCATION P&E
S-6, STATIONARY IC ENGINE, PLT E3, LOCATION P&E
S-7, STATIONARY IC ENGINE, PLT E5, LOCATION P&E
S-8, STATIONARY IC ENGINE, PLT E6, LOCATION P&E
 (All the above engines can be run on: digester gas, landfill gas, natural gas, diesel)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 17898	Operating Requirements		
Part 1	Allowable fuel specifications (Cumulative Increase)	Y	
Part 2	NOx emission limit (9-8-301.2, 302.1)	Y	
Part 3	CO limit (9-8-301.3, 9-8-302.3)	Y	
Part 4a	NMHC emission limits – Abatement Efficiency (8-34-301.4)	Y	
Part 4b	NMHC emission limits – Digester Gas Combustion Exhaust limit (Cumulative Increase)	Y	
Part 5	Thermal Capacity Limitation (Cumulative Increase)	Y	
Part 6	Sulfur content limit and vendor certification requirement (2-6-409.2, 2-6-501)	Y	
Part 7	Prohibition of landfill gas venting (8-34-301)	Y	
Part 8	Monitoring equipment (8-34-508)	Y	
Part 9a	Key Operating Parameters – Measure Cylinder Exhaust Temperature (8-34-509)	Y	
Part 9b	Key Operating Parameters – Cylinder Exhaust Temperature Limit (8-34-509)	Y	
Part 9c	Key Operating Parameters – Records of Cylinder Exhaust Temperature (8-34-509)	Y	
Part 10b	Performance Testing to Demonstrate Compliance – Ongoing Compliance Testing (2-6-409.2)	Y	
Part 10c	Performance Testing to Demonstrate Compliance – NMHC Emissions Testing to Demonstrate Compliance (2-6-409.2)	Y	
Part 11	Recordkeeping (2-6-409.2)	Y	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements
S-9, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A3, LOCATION SBB
S-10, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A2, LOCATION SBB
S-11, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A1, LOCATION SBB
S-12, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B1, LOCATION SBB
S-13, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B2, LOCATION SBB
S-14, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B3, LOCATION SBB
 (All of the above engines are can be run on: digester gas, landfill gas, and natural gas)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitations	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (7/20/2005)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Regulation 8 Rule 34	Organic Compounds, Solid Waste Disposal Sites (06/15/2005)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameter(s)	Y	
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 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/01)		

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements

S-9, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A3, LOCATION SBB
S-10, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A2, LOCATION SBB
S-11, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A1, LOCATION SBB
S-12, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B1, LOCATION SBB
S-13, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B2, LOCATION SBB
S-14, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B3, LOCATION SBB
 (All of the above engines are can be run on: digester gas, landfill gas, and natural gas)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-8-301	Emissions Limits – Fossil Derived fuel Gas	Y	
9-8-301.2	NOx emission limit for lean burn engines	Y	
9-8-301.3	CO emission limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx emission limit for lean burn engines	Y	
9-8-302.3	CO emission limit	Y	
BAAQMD Condition # 17899	Operating Requirements		
Part 1	Allowable fuel specifications (Cumulative Increase)	Y	
Part 2	NOx emission limit (9-8-301.2, 302.1)	Y	
Part 3	CO limit (9-8-301.3, 9-8-302.3)	Y	
Part 4a	NMHC emission limits – Abatement Efficiency (8-34-301.4)	Y	
Part 4b	NMHC emission limits – Digester Gas Combustion Exhaust limit (Cumulative Increase)	Y	
Part 5	Thermal Capacity Limitation (Cumulative Increase)	Y	
Part 6	Prohibition of landfill gas venting (8-34-301)	Y	
Part 7	Monitoring equipment (8-34-508)	Y	
Part 8a	Key Operating Parameters – Measure Cylinder Exhaust Temperature (8-34-509)	Y	
Part 8b	Key Operating Parameters – Cylinder Exhaust Temperature Limit (8-34-509)	Y	
Part 8c	Key Operating Parameters – Records of Cylinder Exhaust Temperature (8-34-509)	Y	
Part 9b	Performance Testing to Demonstrate Compliance – Ongoing Compliance Testing (2-6-409.2)	Y	
Part 9c	Performance Testing to Demonstrate Compliance – NMHC Emissions Testing to Demonstrate Compliance (2-6-409.2)	Y	

IV. Source-specific Applicable Requirements

Table IV - B
Source-specific Applicable Requirements

S-9, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A3, LOCATION SBB
S-10, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A2, LOCATION SBB
S-11, STATIONARY INTERNAL COMBUSTION ENGINE, PLT A1, LOCATION SBB
S-12, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B1, LOCATION SBB
S-13, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B2, LOCATION SBB
S-14, STATIONARY INTERNAL COMBUSTION ENGINE, PLT B3, LOCATION SBB
 (All of the above engines are can be run on: digester gas, landfill gas, and natural gas)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 10	Recordkeeping (2-6-409.2)	Y	

Table IV - C
Source-specific Applicable Requirements
S-15, PAINT SPRAY BOOTH
S-16, PAINT SPRAY BOOTH

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Solvent and Surface Coating Operations (5/15/96)		
8-1-320	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-1-321	Closed Containers for Spent or Fresh Organic Solvents	Y	
8-1-322	Spray Equipment Clean-up Limitation	Y	
BAAQMD Regulation 8, Rule 19	Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (10/16/02)		
8-19-302	Coating VOC Limits	Y	
8-19-307	Prohibition of Specification	Y	
8-19-312	Specialty Coating VOC Limits	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-313.1	HVLP Spray; or	Y	
8-19-313.2	Electrostatic Spray; or	Y	
8-19-313.3	Detailing Gun; or	Y	
8-19-313.4	Other Method Approved in Writing by the APCO	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	

IV. Source-specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-15, PAINT SPRAY BOOTH
S-16, PAINT SPRAY BOOTH

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-19-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	
8-19-320.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-19-320.3	Closed Containers for Coatings or Solvents Not in Use	Y	
8-19-321	Surface Preparation Standards	Y	
8-19-501	Records	Y	
8-19-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-19-501.2	Weekly Coating Usage Records	Y	
8-19-501.4	Monthly Cleaning Solvent Records	Y	
8-19-501.5	Records Retention	Y	
BAAQMD Condition # 17737	Operating Requirements		
Part 1	Coating and primer usage limit (Cumulative Increase)	Y	
Part 2	Cleanup solvent usage limit (Cumulative Increase)	Y	
Part 3	Recordkeeping (2-6-409.2)	Y	

Table IV - D
Source-specific Applicable Requirements
S-26, GASOLINE DISPENSING ISLAND, G#6770

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 7	Organic Compounds - Gasoline Dispensing Facilities (11/6/02)		
8-7-301	Phase I Requirements	Y	
8-7-302	Phase II Requirements	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	

IV. Source-specific Applicable Requirements

Table IV - D
Source-specific Applicable Requirements
S-26, GASOLINE DISPENSING ISLAND, G#6770

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-314	Hold Open Latch Requirements	Y	
8-7-315	Pressure Vacuum Valve Requirements, Underground Tanks	Y	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	Y	
Condition # 17738	Operating Requirements		
Part 1	Annual (12 month) throughput limitation (cumulative increase)	N	
Part 2	Gasoline throughput monitoring (2-6-409.2)	N	

Table IV - E
Source-specific Applicable Requirements
S-36, ENGINE GENERATOR 2 – COGEN UNIT, PLT EG-2
S-37, ENGINE GENERATOR 3 – COGEN UNIT, PLT EG-3
 (The above engines can be run on: digester gas landfill gas, and natural gas only)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitations	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (7/20/2005)		

IV. Source-specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S-36, ENGINE GENERATOR 2 – COGEN UNIT, PLT EG-2
S-37, ENGINE GENERATOR 3 – COGEN UNIT, PLT EG-3
 (The above engines can be run on: digester gas landfill gas, and natural gas only)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-2-301	Miscellaneous Operations	Y	
BAAQMD Regulation 8 Rule 34	Organic Compounds, Solid Waste Disposal Sites (06/15/2005)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameter(s)	Y	
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 8	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)		
9-8-301	Emissions Limits – Fossil Derived fuel Gas	Y	
9-8-301.2	NOx emission limit for lean burn engines	Y	
9-8-301.3	CO emission limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx emission limit for lean burn engines	Y	
9-8-302.3	CO emission limit	Y	
BAAQMD Condition 17900	Operating Requirements		
Part 1	Allowable fuel specifications (Cumulative Increase)	Y	
Part 2	NOx Emissions limitations (BACT)	Y	
Part 3	Daily CO Emissions, per engine (Cumulative Increase)	Y	
Part 4	TSP Emissions, per engine (Cumulative Increase)	Y	
Part 5a	Daily NMHC Emissions, per engine (Cumulative Increase)	Y	

IV. Source-specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements
S-36, ENGINE GENERATOR 2 – COGEN UNIT, PLT EG-2
S-37, ENGINE GENERATOR 3 – COGEN UNIT, PLT EG-3
 (The above engines can be run on: digester gas landfill gas, and natural gas only)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 5b	Landfill Gas Combustion Operations (8-34-301.4)	Y	
Part 6	Hourly Thermal Throughput Limitations (Cumulative Increase)	Y	
Part 7	Prohibition of landfill gas venting (8-34-301)	Y	
Part 8	Monitoring Equipment (8-34-508)	Y	
Part 9a	Key Operating Parameters – Measure Cylinder Exhaust Temperature (8-34-509)	Y	
Part 9b	Key Operating Parameters – Cylinder Exhaust Temperature Limit (8-34-509)	Y	
Part 9c	Key Operating Parameters – Records of Cylinder Exhaust Temperature (8-34-509)	Y	
Part 10b	Performance Testing to Demonstrate Compliance – Ongoing Compliance Testing (2-6-409.2)	Y	
Part 10c	Performance Testing to Demonstrate Compliance – NMHC Emissions Testing to Demonstrate Compliance (2-6-409.2)	Y	
Part 16	Daily NOx Emissions Limitations, S-36 – S-39 (Cumulative Increase)	Y	
Part 17	Daily SO ₂ Limitations, S-36 – S-39 (Cumulative Increase)	Y	
Part 18	Recordkeeping (2-6-409.2)	Y	

Table IV - F
Source-specific Applicable Requirements
S-38, COMMERCIAL BOILER, 12.5 MM BTU/HR
S-39, COMMERCIAL BOILER, 12.5 MM BTU/HR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitations	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-310.3	Particulate Emission Limitation – Heat Transfer Operation	Y	

IV. Source-specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S-38, COMMERCIAL BOILER, 12.5 MM BTU/HR
S-39, COMMERCIAL BOILER, 12.5 MM BTU/HR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations (07/20/05)		
8-2-301	Limitations on Total Carbon Emissions	Y	
BAAQMD Regulation 9 Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/16/92)		
9-7-301	Emission Limits – Gaseous Fuels	Y	
9-7-301.1	Performance Standard, NOx	Y	
9-7-301.2	Performance Standard, CO	Y	
9-7-503	Records	Y	
9-7-503.4	Source Test Records and Record Retention	Y	
9-7-603	Compliance Determination – Source Testing	Y	
BAAQMD Condition 17900	Operating Requirements		
Part 11	Allowable fuel specifications (Cumulative Increase)	Y	
Part 14	Flowmeters (2-6-409.2)	Y	
Part 15	Thermal Capacity Limitations	Y	
Part 16	Daily NOx Emissions Limitations, S-36 – S-39 (Cumulative Increase)	Y	
Part 17	Daily SO ₂ Limitations, S-36 – S-39 (Cumulative Increase)	Y	
Part 18	Recordkeeping (2-6-409.2)	Y	
Part 19	Source Testing (9-7-301, 2-6-409.2)	Y	
Part 20	Obtaining approval of source test procedures (9-7-301)	Y	

IV. Source-specific Applicable Requirements

Table IV - G
Source-specific Applicable Requirements
S-52, SANDBLAST OPERATIONS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Particulate Weight Limitation	Y	
6-311	General Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #9055	Operating Requirements		
Part 1	Abrasive throughput limitation (Cumulative Increase)	Y	
Part 2	Recordkeeping (2-6-409.2)	Y	

Table IV – H
Source-specific Applicable Requirements
S-54, ENGINE GENERATOR, 12 CYLINDER TURBOCHARGED LSVB, PLT EG-1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitations	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8 Rule 2	Organic Compounds, Miscellaneous Operations (7/20/2005)		
8-2-301	Miscellaneous Operations	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-54, ENGINE GENERATOR, 12 CYLINDER TURBOCHARGED LSVB, PLT EG-1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8 Rule 34	Organic Compounds, Solid Waste Disposal Sites (06/15/2005)		
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-501	Operating Records	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameter(s)	Y	
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	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (1/20/93)		
9-8-301	Emission Limits – Fossil Derived Fuel Gas	Y	
9-8-301.2	NOx emission limit for lean burn engines	Y	
9-8-301.3	CO emission limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	NOx emission limit for lean burn engines	Y	
9-8-302.3	CO emission limit	Y	
BAAQMD Condition # 17901	Operating Requirements		
Part 1	Allowable fuel specification (Cumulative Increase)	Y	
Part 2	Thermal throughput (Cumulative Increase)	Y	
Part 3	Emergency fuel (Cumulative Increase)	Y	
Part 4	Sulfur content limitation (9-1-304)	Y	
Part 5	NOx emission limit (Cumulative Increase)	Y	
Part 6	CO emission limit (Cumulative Increase)	Y	

IV. Source-specific Applicable Requirements

Table IV – H
Source-specific Applicable Requirements
S-54, ENGINE GENERATOR, 12 CYLINDER TURBOCHARGED LSVB, PLT EG-1

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7a	NMHC Emission Limits – Digest Gas or Natural Gas Combustion (Cumulative Increase)	Y	
Part 7b	NMHC Emission Limits – Landfill Gas Combustion Operation (Cumulative Increase)	Y	
Part 8	Particulate emission limit (Cumulative Increase)	Y	
Part 9	NOx emission limit (BACT, Cumulative Increase)	Y	
	CO emission limit (BACT, PSD)	Y	
	NMHC emission limit (BACT, Cumulative Increase)	Y	
	PM10 emission limit (Cumulative Increase)	Y	
	SO2 emission limit (Cumulative Increase)	Y	
Part 10	Visible particulate limitation (6-301)	Y	
Part 11	Prohibition of landfill gas venting (8-34-301)	Y	
Part 12	Monitoring Equipment (8-34-508)	Y	
Part 13a	Key Operating Parameters – Measure Cylinder Exhaust Temperature (8-34-509)	Y	
Part 13b	Key Operating Parameters – Cylinder Exhaust Temperature Limit (8-34-509)	Y	
Part 13c	Key Operating Parameters – Records of Cylinder Exhaust Temperature (8-34-509)	Y	
Part 14b	Performance Testing to Demonstrate Compliance – Ongoing Compliance Testing (2-6-409.2)	Y	
Part 14c	Performance Testing to Demonstrate Compliance – NMHC Emissions Testing to Demonstrate Compliance (2-6-409.2)	Y	
Part 15	Recordkeeping (2-6-409.2)	Y	

IV. Source-specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-55, I C ENGINE BLDG 40 500 KW
S-56, I C ENGINE CL BLDG 250 KW
S-57, I C ENGINE P & E, 500 KW
S-59, I C ENGINE
S-211, CH&E 6" TRASH PUMP, # 22317
S-212, 10" GORMAN RUPP TRASH PUMP # 22312
S-213, 4" GORMAN RUPP TRASH PUMP # 22314
S-214, IR AIR COMPRESSOR # 22107
S-215, IR AIR COMPRESSOR # 22104
S-216, CH&E 6" TRASH PUMP, # 22306

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann Number 2 Limitations	Y	
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/01)		
9-8-110.4	Exemption, Emergency Standby Engines	N	
9-8-331	Essential Public Service, Hours of Operation	N	
9-8-530	Emergency Standby Engines, Monitoring and Recordkeeping	N	
California Code of Regulations, Title 17, Section 93115	ATCM for Stationary Compression Ignition Engines		

IV. Source-specific Applicable Requirements

Table IV - I
Source-specific Applicable Requirements
S-55, I C ENGINE BLDG 40 500 KW
S-56, I C ENGINE CL BLDG 250 KW
S-57, I C ENGINE P & E, 500 KW
S-59, I C ENGINE
S-211, CH&E 6" TRASH PUMP, # 22317
S-212, 10" GORMAN RUPP TRASH PUMP # 22312
S-213, 4" GORMAN RUPP TRASH PUMP # 22314
S-214, IR AIR COMPRESSOR # 22107
S-215, IR AIR COMPRESSOR # 22104
S-216, CH&E 6" TRASH PUMP, # 22306

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93115(e)(2)(B)3	Maximum Allowable Annual Hours of Operation for Maintenance and Testing ≤ 20 hrs/yr	N	
93115(e)(2)(F)(4)(A)	Notification and recordkeeping.	N	
BAAQMD Condition # 22820	Operating Requirements		
Part 1	Operating limit for reliability-related activities (basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3) or Regulation 2-5)	N	
Part 2	Emergency standby engine operation (basis: Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3)] or (e)(2)(B)(3))	N	
Part 3	Non-resettable totalizing hour meter (basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1))	N	
Part 4	Records (Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501))	N	
Part 5	At or nearby school restrictions (basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(1)] or (e)(2)(B)(2))	N	

IV. Source-specific Applicable Requirements

Table IV - J
Source-specific Applicable Requirements
S-58, 4" GORMAN RUPP TRASH PUMP 22305 DIESEL ENGINE
S-60, CH&E 6" TRASH PUMP 22304 DIESEL ENGINE
S-61, PUMP 22315 DIESEL ENGINE
S-62, MUDCAT BOOSTER PUMP # 22309 DIESEL ENGINE
S-63, MUDCAT BOOSTER PUMP # 22316 DIESEL ENGINE
S-64, MUDCAT BOOSTER PUMP # 22311 DIESEL ENGINE
S-65, MUDCAT BOOSTER PUMP # 22310 DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann Number 2 Limitations	Y	
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	Y	
6-305	Visible Particles	Y	
6-310	Particulate Emission Limitation (weight)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
BAAQMD Regulation 9, Rule 8	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (8/1/01)		
9-8-110.1	Exemption, Engines Rated Less than 250 HP	N	
California Code of Regulations, Title 17, Section 93116	ATCM for Portable Engines Rated at 50 HP and Greater	N	
93116.3(a)	Fuel Requirements, Portable Diesel Engines	N	

IV. Source-specific Applicable Requirements

Table IV - J
Source-specific Applicable Requirements
S-58, 4" GORMAN RUPP TRASH PUMP 22305 DIESEL ENGINE
S-60, CH&E 6" TRASH PUMP 22304 DIESEL ENGINE
S-61, PUMP 22315 DIESEL ENGINE
S-62, MUDCAT BOOSTER PUMP # 22309 DIESEL ENGINE
S-63, MUDCAT BOOSTER PUMP # 22316 DIESEL ENGINE
S-64, MUDCAT BOOSTER PUMP # 22311 DIESEL ENGINE
S-65, MUDCAT BOOSTER PUMP # 22310 DIESEL ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
93.116.3(b) (1)	Diesel PM Standards – Requirements for in-use portable diesel engines	N	01/01/2010
BAAQMD Condition # 23208	Operating Requirements		
Part 1	ATCM for Portable Engines Rated at 50 HP and Greater (basis: ATCM for Portable Diesel Engines)	N	
Part 2	By January 1, 2010, comply with ATCM for Portable Engines (basis: ATCM for Portable Diesel Engines, Section 93116.3 (b)(1)(A))	N	

IV. Source-specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S-100, MUNICIPAL WASTEWATER TREATMENT PLANT;
S-110, PRELIMINARY TREATMENT; S-120, PRIMARY TREATMENT;
S-140, FLOW EQUALIZATION; S-150, SECONDARY TREATMENT;
S-160, SECONDARY CLARIFIERS; S-170, TERTIARY TREATMENT;
S-180, DISINFECTION; S-190, RECLAMATION; S-200, SLUDGE HANDLING

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 7	Odorous Substances (03/17/82)		
7-301	General limit on odorous substances	N	
7-302	Limit on odorous substances at or beyond property line	N	
7-303	Limit on odorous compounds	N	
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (07/20/05)	Y	
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 17740	Operating Requirements		
Part 1	Wastewater Throughput (2-1-301)	Y	
Part 2	Consequences of odor complaints (1-301; Public Nuisance)	Y	

Table IV - L
Source-specific Applicable Requirements
S-210, ANAEROBIC DIGESTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 7	Odorous Substances (03/17/82)		
7-301	General limit on odorous substances	N	
7-302	Limit on odorous substances at or beyond property line	N	
7-303	Limit on odorous compounds	N	

IV. Source-specific Applicable Requirements

Table IV - L
Source-specific Applicable Requirements
S-210, ANAEROBIC DIGESTERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	Organic Compounds-Miscellaneous Operation (07/20/05)		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants-Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations of Hydrogen Sulfide	N	
BAAQMD Condition # 17741	Operating Requirements		
Part 1	Abatement of odorous emissions (1-301)	Y	
Part 2	Restrictions on venting digester gas to flares (cumulative increase)	Y	
Part 3	Digester Gas sulfur monitoring (9-1-302)	Y	
Part 4	Monitoring (2-6-409.2)	Y	
Part 5	Recordkeeping (2-6-409.2)	Y	
Part 6	Fugitive or short-term unavoidable and incidental emissions of digester related (Regulation 1-301; Cumulative Increase)	Y	

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

Condition 9055

For S-52, Sandblast Operations

1. The total amount of abrasives used in S-52 shall not exceed 30 tons during any consecutive 12-month period. (Basis: Cumulative Increase)
2. In order to demonstrate compliance with the above conditions, a District approved logbook shall be maintained on a monthly basis. These records shall be kept on site and made readily available to District staff for a period of five years from the date of logbook entry. (Basis: 2-6-409.2)

Condition 17737

For S-15, Paint Spray Booth
S-16, Paint Spray Booth

1. The total amount of paint and primer coatings used at S-15 and S-16, Paint Spray Booths, shall not exceed the following limits during any consecutive twelve-month period. (Basis: Cumulative Increase)

S-15:	50 gal paint, 50 gal primer
S-16:	50 gal paint, 50 gal primer
2. The net amount of clean-up solvent used at S-15 and S-16, coating spray booths, shall not exceed the following limits during any consecutive twelve-month period. (Basis: Cumulative Increase)

S-15:	50 gal MEK, 50 gal Mineral Spirits
S-16:	50 gal MEK, 50 gal Mineral Spirits
3. To demonstrate compliance with the above conditions, the operator shall maintain the following records in a District-approved log (Basis: Regulation 2-6-409.2):

VI. Permit Conditions

- a. Total daily coating usage at S-15 and S-16.
- b. Net daily clean-up solvent usage at S-15 and S-16.
- c. Cumulative monthly totals of the above daily usage rates, in gallons per month.

These records shall be kept onsite and made available for District inspection for a period of five years from the date on which a record is made.

Condition 17738

For S-26, Gasoline Dispensing Island

- *1. Annual gasoline throughput shall not exceed 50,000 gallons in any consecutive 12-month period. (Basis: Cumulative Increase)
- *2. To demonstrate compliance with the above condition, the permit holder shall maintain monthly records of gasoline throughput. These records shall be kept on a District-approved log. All records shall be retained onsite for five years from the date of entry, and made available for District inspection upon request. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations. (Basis: 2-6-409.2)

Condition 17740

For S-100, Municipal Wastewater Treatment Plant

1. Total wastewater flow shall not exceed 167 million gallons/day dry flow, 360 million gallons/day wet flow. (Basis: Regulation 2-1-301)
2. To determine compliance with the above condition, the permit holder shall maintain the following records: (Basis: Regulation 2-6-409.2)
 - a. Daily and monthly records of the quantity of wastewater processed at this source.
 - b. Monthly records totaled for each consecutive 12-month period.
 - c. All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request.
 - d. These recordkeeping requirements shall not replace the recordkeeping requirements contained in any District Regulation.

Condition 17741

For S-210, Anaerobic Digesters

VI. Permit Conditions

1. Emissions from S-210 shall be abated at all times by combustion at any of the following sources: S-4, S-5, S-6, S-7, S-8, S-9, S-10, S-11, S-12, S-13, S-14, S-36, S-37, S-54 except as specified in Part 2. (Basis: Regulation 1-301)
2. Emissions from S-210 shall be abated by any of the following: A-401, A-402, A-403, A-404, and A-405 only when equipment failure or other emergencies require the flaring of digester gas. (Basis: Cumulative Increase)
3. Digester gas total sulfur content shall not exceed 350 ppm. (Basis: 9-1-302)
4. To demonstrate compliance with this standard the permit holder shall monitor and record the sulfur content of the digester gas at least once every calendar week. If the permit holder can demonstrate 3 months of digester sulfur results lower than 200 ppm the monitoring frequency for sulfur analysis may be reduced to at least once every calendar month. (Basis: Regulation 9-1-302)
5. The permit holder shall record the dates, hours of use, and purpose of flaring in a District approved logbook, whenever the flares are used. (Basis: Regulation 2-6-409.2)
6. The failure to abate digester gas emissions from the following causes or activities shall not be considered a violation of Parts 1 or 2 of this permit condition.
 - a. Digester gas leaks from the floating roof sludge seals and digester gas piping systems, provided the sludge seals and piping systems are maintained in good operating condition.
 - b. Preventative maintenance on pressure relief valves to ensure proper operation.
 - c. Manual draining of condensate from digester gas piping systems to ensure proper digester operation.
 - d. Removing a digester or digester gas system component from service.
 - e. Pressure relief of the digester gas system.

If detected and known, the occurrence, duration, and cause of emissions of digester gas from causes or activities not listed above in this Part shall be recorded. Notwithstanding this Part 6, the permit holder shall not cause or allow any digester gas emissions otherwise allowed by this Part to create a violation of District regulations.

Condition 17898

For S-4, Stationary IC Engine, Plt E1, P&E
S-5, Stationary IC Engine, Plt E2, P&E

VI. Permit Conditions

S-6, Stationary IC Engine, Plt E3, P&E
S-7, Stationary IC Engine, Plt E5, P&E
S-8, Stationary IC Engine, Plt E6, P&E

1. This engine shall be fired on natural gas, sewage sludge digester gas, landfill gas, diesel fuel, or any combination thereof. (Basis: Cumulative Increase)
2. NO_x emissions, expressed as NO₂, shall not exceed 140 ppmv NO_x at 15% O₂. (Basis: 9-8-301.2, 302.1)
3. CO emissions shall not exceed 2000 ppmv at 15% O₂. (Basis: 9-8-301.3, 9-8-302.3)
4. NMHC emission Limits
 - a. Landfill Gas Combustion Operations: This source shall achieve a NMHC emission reduction from landfill gas combustion of at least 98% by weight or shall emit less than 120 ppm by volume of NMHC, dry basis, as methane corrected to 3% oxygen. (Basis: Regulation 8-34-301.4)
 - b. Digester Gas Combustion: NMHC concentration of engine exhaust from digester gas combustion shall not exceed 250 ppmv at 15% O₂. (Basis: Cumulative Increase)
5. Thermal Capacity Limitations: Total thermal throughput shall not exceed the following limits (Basis: Cumulative Increase)

S-4	9.1 MM Btu/hr
S-5	9.1 MM Btu/hr
S-6	9.1 MM Btu/hr
S-7	20.9 MM Btu/hr
S-8	20.9 MM Btu/hr
6. San Jose/Santa Clara WWTP shall not burn diesel fuel with a sulfur content in excess of 0.5% by weight. (Basis: Regulation 9-1-304)

To demonstrate compliance with this limit, every delivery of diesel oil received onsite shall be accompanied by a vendor certification of sulfur content or shall be tested for sulfur content using a District-approved method. The vendor certifications or lab results shall be maintained onsite for at least 5 years and shall be made available to the District upon request. (Basis: Regulation 2-6-409.2, 2-6-501)

VI. Permit Conditions

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

8. Monitoring Equipment

The following equipment shall be installed, and used to assist in demonstrating compliance with the NMHC emission standards and thermal capacity limitations:

- a. Flow meters on each gas supply line to determine relative component fuel gas flow to each engine.
- b. Calorimeters of fuel gas mixture feed to engines.
- c. Calorimeter or Gas Chromatograph on landfill gas feed to mixing station.
- d. Engine cylinder thermocouples & recording instruments.

The above equipment shall be maintained in good working order. (Basis: Regulation 8-34-508)

9. Key Operating Parameter

- a. Effective January 1, 2007, the owner/operator shall measure the cylinder exhaust of S-4, S-5, S-6, S-7, and S-8 using a continuous temperature monitor(s) and recorder meeting the requirements of 40 CFR 60.756(b)(1).
- b. Effective January 1, 2007, except as a result of loss in utility power or natural gas supply or during the first 5 minutes of landfill gas use during engine startup, any engine with a cylinder exhaust temperature below 600 °F shall be shutdown within 5 minutes of measuring the temperature.
- c. All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

10. Performance Testing to Demonstrate Compliance

- a. Deleted upon issuance of Title V Renewal (2006).
- b. Ongoing Compliance Testing: The owner/operator shall ensure that a performance test is conducted on each engine at least once every 8760 hrs of engine operation after the previous performance test. The performance test shall be conducted in accordance with District test procedures to demonstrate compliance with the NO_x, CO, and NMHC limits required by parts 2, 3, and 4. The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supersede the above 8760 hour source testing requirement for all

VI. Permit Conditions

pollutants except NMHC. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)

- c. NMHC Emissions Testing to Demonstrate Compliance: The owner/operator shall ensure that a performance test for NMHC is conducted on each engine at least once every 8760 hrs of engine operation after the previous performance test. All performance tests for NMHC emissions shall be conducted in accordance with the methods and test specifications identified in Regulation 8-34-412 and shall determine NMHC emissions in ppm at 3% oxygen as methane, dry. The results of the source test shall be compared against the maximum allowable NMHC emission levels.

The maximum allowable ppmv concentration of NMHC at 3 percent oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (operated by International Disposal Corporation of California, plant 9013), Section 4.9 (1). The actual ppmv concentration of NMHC emissions at 3% oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (IDCC, plant 9013), Section 4.9 (2).

11. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions. (Basis: Regulation 2-6-409.2)
 - a. Monthly records of the quantity of gaseous fuels (therms) and distillate oil (gal) burned at this source.
 - b. Records of all landfill gas and digester gas methane content measurements.
 - c. Daily records of methane throughput to this source, summarized on a monthly basis.
 - d. Records of key emission control system operating parameter readings (as noted in Condition 9, above).
 - e. Records of all compliance demonstration test data.
 - f. Monthly records shall be totaled for each consecutive 12-month period.

All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping

VI. Permit Conditions

requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

Condition 17899

For S-9, Stationary IC Engine, Plt A3, Location SBB
S-10, Stationary IC Engine, Plt A2, Location SBB
S-11, Stationary IC Engine, Plt A1, Location SBB
S-12, Stationary IC Engine, Plt B1, Location SBB
S-13, Stationary IC Engine, Plt B2, Location SBB
S-14, Stationary IC Engine, Plt B3, Location SBB

1. These engines shall be fired on natural gas, sewage sludge digester gas, landfill gas, or any combination thereof. (Basis: Cumulative Increase)
2. NO_x emissions, expressed as NO₂, shall not exceed 140 ppmv NO_x at 15% O₂. (Basis: 9-8-301.2, 302.1)
3. CO emissions shall not exceed 2000 ppmv at 15% O₂. (Basis: 9-8-301.3, 9-8-302.3)
4. NMHC emission Limits
 - a. Landfill Gas Combustion Operations: This source shall achieve a NMHC emission reduction from landfill gas combustion of at least 98% by weight or shall emit less than 120 ppm by volume of NMHC, dry basis, as methane corrected to 3% oxygen. (Basis: Regulation 8-34-301.4)
 - b. Digester Gas Combustion: NMHC concentration of engine exhaust from digester gas combustion shall not exceed 250 ppmv at 15% O₂. (Basis: Cumulative Increase)
5. Thermal Capacity Limitations: Total thermal throughput shall not exceed the following limits (Basis: Cumulative Increase)

S-9	19.9 MM Btu/hr
S-10	19.9 MM Btu/hr
S-11	19.9 MM Btu/hr
S-12	15.7 MM Btu/hr
S-13	15.7 MM Btu/hr
S-14	15.7 MM Btu/hr
6. Under no circumstances shall supplied landfill gas be vented to the atmosphere. (Basis: 8-34-301)

VI. Permit Conditions

7. Monitoring Equipment

The following equipment shall be installed, and used to assist in demonstrating compliance with the NMHC emission standards and thermal capacity limitations:

- a. Flow meters on each gas supply line to determine relative component fuel gas flow to each engine.
- b. Calorimeters of fuel gas mixture feed to engines.
- c. Calorimeter or Gas Chromatograph on landfill gas feed to mixing station.
- d. Engine cylinder thermocouples & recording instruments.

The above equipment shall be maintained in good working order. (Basis: Regulation 8-34-508)

8. Key Operating Parameter

- a. Effective January 1, 2007, the owner/operator shall measure the cylinder exhaust of S-9, S-10, S-11, S-12, S-13, and S-14 using a continuous temperature monitor(s) and recorder meeting the requirements of 40 CFR 60.756(b)(1).
- b. Effective January 1, 2007, except as a result of loss in utility power or natural gas supply or during the first 5 minutes of landfill gas use during engine startup, any engine with a cylinder exhaust temperature below 600 F shall be shutdown within 5 minutes of measuring the temperature.
- c. Effective January 1, 2007, all records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

9. Performance Testing to Demonstrate Compliance

- a. Deleted upon issuance of Title V Renewal (2006).
- b. Ongoing Compliance Testing: The owner/operator shall ensure that a performance test is conducted on each engine at least once every 8760 hrs of engine operation after the previous performance test. The performance test shall be conducted in accordance with District test procedures to demonstrate compliance with the NO_x, CO, and NMHC limits required by parts 2, 3, and 4. The owner/operator may submit an alternative monitoring plan to the

VI. Permit Conditions

District for approval. If the alternative monitoring plan is approved, the plan shall supersede the above 8760 hour source testing requirement for all pollutants except NMHC. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)

- c. NMHC Emissions Testing to Demonstrate Compliance: The owner/operator shall ensure that a performance test for NMHC is conducted on each engine at least once every 8760 hrs of engine operation after the previous performance test. All performance tests for NMHC emissions shall be conducted in accordance with the methods and test specifications identified in Regulation 8-34-412 and shall determine NMHC emissions in ppm at 3% oxygen as methane, dry. The results of the source test shall be compared against the maximum allowable NMHC emission levels.

The maximum allowable ppmv concentration of NMHC at 3 percent oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (operated by International Disposal Corporation of California, plant 9013), Section 4.9 (1). The actual ppmv concentration of NMHC emissions at 3% oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (IDCC, plant 9013), Section 4.9 (2).

10. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions. (Basis: Regulation 2-6-409.2)
 - a. Monthly records of the quantity of gaseous fuels (therms) burned at this source.
 - b. Records of all landfill gas and digester gas methane content measurements.
 - c. Daily records of methane throughput to this source, summarized on a monthly basis.
 - d. Records of key emission control system operating parameter readings (as noted in Condition 8, above).
 - e. Records of all compliance demonstration test data.
 - f. Monthly records shall be totaled for each consecutive 12-month period.

VI. Permit Conditions

All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

Condition 17900

For S-36, Engine Generator 2 – Cogen Unit, Plt EG-2
S-37, Engine Generator 3 – Cogen Unit, Plt EG-3

1. These engines shall be fired on natural gas, sewage sludge digester gas, landfill gas, or any combination thereof. (Basis: Cumulative Increase)
2. Emissions of NO_x shall not exceed 1.8 grams per hp-hr per engine. (Basis: BACT)
3. Emissions of CO shall not exceed 413.4 lb per engine in any consecutive 24 hour period. (Basis: Cumulative Increase)
4. Emissions of TSP shall not exceed 36.4 lb per engine in any consecutive 24 hour period. (Basis: Cumulative Increase)
5. NMHC Emission Limits
 - a. Daily Limit: NMHC emissions shall not exceed 87.8 lb per engine in any consecutive 24 hour period. (Basis: Cumulative Increase)
 - b. Landfill Gas Combustion Operations: This source shall achieve a NMHC emission reduction from landfill gas combustion of at least 98% by weight or shall emit less than 120 ppm by volume of NMHC, dry basis, as methane corrected to 3% oxygen. (Basis: Regulation 8-34-301.4)
6. Thermal Capacity Limitations: Total thermal throughput shall not exceed the following limits (Basis: Cumulative Increase)

S-36	30 MM Btu/hr
S-37	30 MM Btu/hr
7. Under no circumstances shall supplied landfill gas be vented to the atmosphere. (Basis: 8-34-301)
8. Monitoring Equipment
The following equipment shall be installed, and used to assist in demonstrating compliance with the NMHC emission standards and thermal capacity limitations:

VI. Permit Conditions

- a. Flow meters on each gas supply line to determine relative component fuel gas flow to each engine.
- b. Calorimeters of fuel gas mixture feed to engines.
- c. Calorimeter or Gas Chromatograph on landfill gas feed to mixing station.
- d. Engine cylinder thermocouples & recording instruments.

The above equipment shall be maintained in good working order.(Basis: Regulation 8-34-508)

9. Key Operating Parameter

- a. Effective January 1, 2007, the owner/operator shall measure the cylinder exhaust of S-36 and S-37 using a continuous temperature monitor(s) and recorder meeting the requirements of 40 CFR 60.756(b)(1).
- b. Effective January 1, 2007, except as a result of loss in utility power or natural gas supply or during the first 5 minutes of landfill gas use during engine startup, any engine with a cylinder exhaust temperature below 600 F shall be shutdown within 5 minutes of measuring the temperature.
- c. Effective January 1, 2007, all records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

10. Performance Testing to Demonstrate Compliance

- a. Deleted upon issuance of Title V Renewal (2006).
- b. Ongoing Compliance Testing: The owner/operator shall ensure that a performance test is conducted on each engine at least once every 8760 hrs of engine operation after the previous performance test. The performance test shall be conducted in accordance with District test procedures to demonstrate compliance with the NO_x, CO, and TSP limits required by parts 2, 3, and 4.

The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supersede the above 8760 hour source testing requirement for all pollutants except NMHC. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)

- c) NMHC Emissions Testing to Demonstrate Compliance: The owner/operator shall ensure that a performance test for NMHC is conducted on each engine at least once every 8760 hrs of engine operation after the previous performance test. All performance tests for NMHC emissions shall be conducted in

VI. Permit Conditions

accordance with the methods and test specifications identified in Regulation 8-34-412 and shall determine NMHC emissions in ppm at 3% oxygen as methane, dry. The results of the source test shall be compared against the maximum allowable NMHC emission levels.

The maximum allowable ppmv concentration of NMHC at 3 percent oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (operated by International Disposal Corporation of California, plant 9013), Section 4.9 (1). The actual ppmv concentration of NMHC emissions at 3% oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (IDCC, plant 9013), Section 4.9 (2).

VI. Permit Conditions

Condition 17900

For S-38, Boiler, Low NOx
S-39, Boiler, Low NOx

11. These boilers may be fired on natural gas only. (Basis: Cumulative Increase)
12. Deleted 02/07/2005.
13. Deleted 02/07/2005.
14. District approved flowmeters, to measure fuel flow into the boiler, shall be installed prior to any operation and maintained in good working order. (Basis: Regulation 2-6-409.2)
15. Thermal Capacity Limitations: Total thermal throughput shall not exceed the following limits (Basis: Cumulative Increase)

S-38	12.5 MM Btu/hr
S-39	12.5 MM Btu/hr

Condition 17900

For S-36, Engine Generator 2 – Cogen Unit, Plt EG-2
S-37, Engine Generator 3 – Cogen Unit, Plt EG-3
S-38, Boiler, Low NOx
S-39, Boiler, Low NOx
(combined)

16. The combined emissions of NOx from S-36, S-37, S-38 and S-39 shall not exceed a total of 774 lb. in any consecutive 24 hour period.
(Basis: BACT, Cumulative Increase)
17. The combined emissions of SO2 from S-36, S-37, S-38 and S-39 shall not exceed a total of 150 lb. in any consecutive 24 hour period.
(Basis: Cumulative Increase)
18. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions. (Basis: Regulation 2-6-409.2)
 - a. Monthly records of the quantity of gaseous fuels (therms) burned at this source.

VI. Permit Conditions

- b. Records of all landfill gas and digester gas methane content measurements.
- c. Daily records of methane throughput to this source, summarized on a monthly basis.
- d. Records of key emission control system operating parameter readings (as noted in Condition 9, above).
- e. Records of all compliance demonstration test data.
- f. Monthly records shall be totaled for each consecutive 12-month period.

All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

19. Within 60 days of issuance of the 2006 Title V renewal permit and annually thereafter, the owner/operator shall conduct District approved source tests on S-38 and S-39 to determine compliance with the nitrogen oxide and carbon monoxide limits of Regulation 9-7-301. The owner/operator shall submit the source test results to the District staff no later than 60 days after the source test. (basis: 9-7-301, 2-6-409.2)
20. The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section, in writing, of the source test protocols and projected test dates at least 7 days prior to testing. (basis: 9-7-301)

Condition 17901

For S-54, Engine Generator 1

1. S-54 shall be fired on sewage sludge digester gas, natural gas, landfill gas, or a blend of any of the above fuels, with a diesel pilot fuel. (Basis:Cumulative Increase)
2. Total thermal throughput shall not exceed 28.9 MM Btu/hr.(Basis:Cumulative Increase)
3. In the event of catastrophic damage to the natural gas fuel supply, the engine may be fired solely on sewage sludge digester gas or landfill gas, with a diesel pilot fuel,

VI. Permit Conditions

or solely on diesel fuel if insufficient sewage sludge digester gas or landfill gas exists. (Basis:Cumulative Increase)

4. San Jose/Santa Clara WWTP shall not burn diesel fuel with a sulfur content in excess of 0.5% by weight (Basis: Regulation 9-1-304).

To demonstrate compliance with this limit, every delivery of diesel fuel received onsite shall be accompanied by a vendor certification of sulfur content or shall be tested for sulfur content using a District-approved method. The vendor certifications or lab results shall be maintained onsite for at least 5 years and shall be made available to the District upon request. (Basis: Regulation 2-6-409.2, 2-6-501)

5. NO_x emissions, calculated as NO₂, shall not exceed 1.0 gram/bhp-hr, except in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel or solely on sewage sludge digester gas or landfill gas, with a diesel pilot fuel. (Basis: BACT, Cumulative Increase)

6. CO emissions from S-54 shall not exceed 3.3 grams/bhp-hr. (Basis: BACT, Cumulative Increase)

7. NMHC Emission Limits

- a. Digester Gas or Natural Gas Combustion: NMHC emissions derived from digester gas or natural gas combustion shall not exceed 0.80 grams/bhp-hr. (Basis: BACT, Cumulative Increase)

- b. Landfill Gas Combustion Operations: This source shall achieve a NMHC emission reduction from landfill gas combustion of at least 98% by weight or shall emit less than 120 ppm by volume of NMHC, dry basis, as methane corrected to 3% oxygen. (Basis: Regulation 8-34-301.4)

8. Particulate emissions from S-54 shall not exceed 0.085 grams/bhp-hr, except in the event of catastrophic damage to the natural gas fuel supply, when the engine may be fired solely on diesel fuel or solely on sewage sludge digester gas, or landfill gas, with a diesel pilot fuel. (Basis: Cumulative Increase)

9. The total release of emissions from S-54 shall not exceed the following amounts in any consecutive 365 day period:

NO _x	36.2 tons (BACT, Cumulative Increase)
CO	119.4 tons (BACT, PSD)
NMHC	28.9 tons (BACT, Cumulative Increase)

VI. Permit Conditions

PM10 3.1 tons (Cumulative Increase)
SO2 7.2 tons (Cumulative Increase)

10. Visible particulate emissions from S-54 shall not exceed Ringelmann 1.0. (Basis: Regulation 6-301)
11. Under no circumstances shall supplied landfill gas be vented to the atmosphere. (Basis: 8-34-301)
12. Monitoring Equipment

The following equipment shall be installed, and used to assist in demonstrating compliance with the NMHC emission standards and thermal capacity limitations:

- a. Flow meters on each gas supply line to determine relative component fuel gas flow to each engine.
- b. Calorimeters of fuel gas mixture feed to engines.
- c. Calorimeter or Gas Chromatograph on landfill gas feed to mixing station.
- d. Engine cylinder thermocouples & recording instruments.

The above equipment shall be maintained in good working order. (Basis: Regulation 8-34-508)

13. Key Operating Parameter
 - a. Effective January 1, 2007, the owner/operator shall measure the cylinder exhaust of S-54 using a continuous temperature monitor(s) and recorder meeting the requirements of 40 CFR 60.756(b)(1).
 - b. Effective January 1, 2007, except as a result of loss in utility power or natural gas supply or during the first 5 minutes of landfill gas use during engine startup, any engine with a cylinder exhaust temperature below 600 °F shall be shutdown within 5 minutes of measuring the temperature.
 - c. Effective January 1, 2007, all records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.
14. Performance Testing to Demonstrate Compliance
 - a. Deleted upon issuance of Title V Renewal (2006).
 - b. NO_x, CO, TSP Testing: The owner/operator shall ensure that a performance test is conducted on this engine at a frequency of not less than once every

VI. Permit Conditions

8760 hrs of engine operation after the previous performance test. The performance test shall be conducted in accordance with District test procedures to demonstrate compliance with the NO_x, CO, and TSP limits required by parts 5, 6, 8 and 9, respectively. The owner/operator may submit an alternative monitoring plan to the District for approval. If the alternative monitoring plan is approved, the plan shall supersede the above 8760 hour source testing requirement. Approvals shall be processed using the permit modification procedure contained in Regulation 2, Rule 6. (Basis: Regulation 2-6-409.2)

- c. **NMHC Emissions Testing to Demonstrate Compliance:** The owner/operator shall ensure that a performance test is conducted on this engine at a frequency of not less than once every 8760 hrs of engine operation after the previous performance test. All performance tests for NMHC emissions shall be conducted in accordance with the methods and test specifications identified in Regulation 8-34-412 and shall determine NMHC emissions in ppm at 3% oxygen as methane, dry. The results of the source test shall be compared against the maximum allowable NMHC emission levels.

The maximum allowable ppmv concentration of NMHC at 3 percent oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for

Newby Island Landfill (operated by International Disposal Corporation of California, plant 9013), Section 4.9 (1). The actual ppmv concentration of NMHC emissions at 3% oxygen shall be calculated according to the procedure presented in the Gas Collection and Control System (GCCS) Design Plan for Newby Island Landfill (IDCC, plant 9013), Section 4.9 (2).

15. To determine compliance with the above conditions, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance with the above conditions. (Basis: Regulation 2-6-409.2)
 - a. Daily records of the hours of operation and horsepower or kilowatt output of S-54.
 - b. Monthly records of the quantity of gaseous fuels (therms) and distillate oil (gal) burned at this source.
 - c. Records of all landfill gas and digester gas methane content measurements.
 - d. Daily records of methane throughput to this source, summarized on a monthly basis.

VI. Permit Conditions

- e. Records of key emission control system operating parameter readings (as noted in Condition 13, above).
- f. Records of all compliance demonstration test data.
- g. Monthly records shall be totaled for each consecutive 12-month period.

All records shall be retained onsite for five years from the date of entry, and made available for inspection by District staff upon request. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable District Regulations.

Condition # 22820

For S-55, IC Engine Bldg 40, 500 KW

S-56, IC Engine CL Bldg, 250 KW

S-57, IC Engine P&E, 500 KW

S-59, IC Engine

S-211, CH&E 6" Trash Pump # 22317

S-212, 10" Gorman Rupp Trash Pump # 22312

S-213, 4" Gorman Rupp Trash Pump # 22314

S-214, IR Air Compressor # 22107

S-215, IR Air Compressor # 22104

S-216, CH&E 6" Trash Pump, # 22306

1. Operating for reliability-related activities is limited to 20 hours per year per engine. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(B)(3) or Regulation 2-5]
2. The owner or operator shall operate each emergency standby engine only for the following purposes: to mitigate emergency conditions, for emission testing to demonstrate compliance with a District, state or Federal emission limit, or for reliability-related activities (maintenance and other testing, but excluding emission testing). Operating while mitigating emergency conditions or while emission testing to show compliance with District, state or Federal emission limits is not limited. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(2)(A)(3)] or (e)(2)(B)(3)]
3. The owner/operator shall operate each emergency standby engine only when a non-resettable totalizing meter (with a minimum display capability of 9,999 hours) that measures the hours of operation for the engine is installed, operated and properly maintained. [Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(4)(G)(1)]
4. Records: The owner/operator shall maintain the following monthly records in a

VI. Permit Conditions

District-approved log for at least 36 months from the date of entry (60 months if the facility has been issued a Title V Major Facility Review Permit or a Synthetic Minor Operating Permit). Log entries shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request.

- a. Hours of operation for reliability-related activities (maintenance and testing).
- b. Hours of operation for emission testing to show compliance with emission limits.
- c. Hours of operation (emergency).
- d. For each emergency, the nature of the emergency condition.
- e. Fuel usage for each engine(s).

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection (e)(4)(I), (or, Regulation 2-6-501)]

5. At School and Near-School Operation:

If the emergency standby engine is located on school grounds or within 500 feet of any school grounds, the following requirements shall apply:

The owner or operator shall not operate each stationary emergency standby diesel-fueled engine for non-emergency use, including maintenance and testing, during the following periods:

- a. Whenever there is a school sponsored activity (if the engine is located on school grounds).
- b. Between 7:30 a.m. and 3:30 p.m. on days when school is in session.

"School" or "School Grounds" means any public or private school used for the purposes of the education of more than 12 children in kindergarten or any of grades 1 to 12, inclusive, but does not include any private school in which education is primarily conducted in a private home(s). "School" or "School Grounds" includes any building or structure, playground, athletic field, or other areas of school property but does not include unimproved school property.

[Basis: "Stationary Diesel Engine ATCM" section 93115, title 17, CA Code of Regulations, subsection(e)(2)(A)(1)] or (e)(2)(B)(2)]

VI. Permit Conditions

Condition # 23208

For S-58, 4" Gorman Rupp Trash Pump 22305 Diesel Engine

S-60, CH&E 6" Trash Pump 22304 Diesel Engine

S-61, Pump 22315 Diesel Engine

S-62, Mudcat Booster Pump # 22309 Diesel Engine

S-63, Mudcat Booster Pump # 22316 Diesel Engine

S-64, Mudcat Booster Pump # 22311 Diesel Engine

S-65, Mudcat Booster Pump # 22310 Diesel Engine

1. The owner/operator of Sources S-58, S-60, S-61, S-62, S-63, S-64, and S-65 shall comply with the requirements of the Airborne Toxic Control Measure for portable diesel engines when operating these portable diesel engines. [basis: ATCM for Portable Diesel Engines]
2. By January 1, 2010, the owner/operator shall either surrender the permit(s) to operate or obtain certification that Sources S-58, S-60, S-61, S-62, S-63, S-64, and S-65 meet a federal or California standard for newly manufactured nonroad engine pursuant to 40 CFR Part 89 or Title 13 of the California Code of Regulations. [basis: ATCM for Portable Diesel Engines, Section 93116.3 (b)(1)(A)]

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-4, Stationary Internal Combustion Engine, Plt E1, Location P&E
S-5, Stationary Internal Combustion Engine, Plt E2, Location P&E
S-6, Stationary Internal Combustion Engine, Plt E3, Location P&E
S-7, Stationary Internal Combustion Engine, Plt E5, Location P&E
S-8, Stationary Internal Combustion Engine, Plt E16, Location P&E

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Regulation 9-8-301.2	Y		140 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17898 Part 10.b	P/A	Source test
	BAAQMD Regulation 9-8-302.1	Y		140 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17898 Part 10.b	P/A	Source test
NOx	BAAQMD Condition # 17898 Part 2	Y		140 ppmv @ 15% O ₂ , dry	BAAQMD Condition # 17898 Part 10.b	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-4, Stationary Internal Combustion Engine, Plt E1, Location P&E
S-5, Stationary Internal Combustion Engine, Plt E2, Location P&E
S-6, Stationary Internal Combustion Engine, Plt E3, Location P&E
S-7, Stationary Internal Combustion Engine, Plt E5, Location P&E
S-8, Stationary Internal Combustion Engine, Plt E16, Location P&E

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Regulation 9-8-301.3	Y		2000 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17898 Part 10.b	P/A	Source test
CO	BAAQMD Regulation 9-8-302.3	Y		2000 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17898 Part 10.b	P/A	Source test
CO	BAAQMD Condition # 17898 Part 3	Y		2000 ppmv @ 15% O ₂ , dry	BAAQMD Condition # 17898 Part 10.b	P/A	Source test
NMHC	BAAQMD Regulation 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon	None	N	
NMHC	BAAQMD Regulation 8-34-301.4	Y		98% by weight or greater reduction efficiency, or emit less than 120 ppm by volume of NMHC at the outlet	BAAQMD Condition # 17898 Part 10.b and 10.c	P/A	Source test
NMHC	BAAQMD Condition # 17898 Part 4.a	Y		98% by weight or greater reduction efficiency; or 120 ppm by volume by volume of NMHC at the outlet	BAAQMD Condition # 17898 Part 10.b and 10.c	P/A	Source test
NMHC	BAAQMD Condition # 17898 Part 4.b	Y		250 ppmv @ 15% O ₂ , dry	BAAQMD Condition # 17898 Part 10.b and 10.c	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-4, Stationary Internal Combustion Engine, Plt E1, Location P&E
S-5, Stationary Internal Combustion Engine, Plt E2, Location P&E
S-6, Stationary Internal Combustion Engine, Plt E3, Location P&E
S-7, Stationary Internal Combustion Engine, Plt E5, Location P&E
S-8, Stationary Internal Combustion Engine, Plt E16, Location P&E

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD Regulation 8-34-508	Y		None	BAAQMD Condition # 17898 Part 8a	P/15 minutes	Gas Flow Meter
Key Parameter	BAAQMD Regulation 8-34-509	Y		< 600 oF	BAAQMD Condition # 17898 Part 9a	C	Temperature Monitor
Opacity	BAAQMD Regulation 6-301	Y		> Ringelmann 1.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O2	None	N	
Heat Input	BAAQMD Condition # 17898 Part 5	Y		Not to exceed S-4: 9.1 MM Btu/hr S-5: 9.1 MM Btu/hr S-6: 9.1 MM Btu/hr S-7: 20.9 MM Btu/hr S-8: 20.9 MM Btu/hr	BAAQMD Condition # 17898 Part 8 and 11	P/M	Records
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)	None	N	
SO ₂	BAAQMD Regulation 9-1-302	Y		300 ppm	BAQMD Condition # 17741 Part 4	P/W	Monitoring of digester gas sulfur content

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-4, Stationary Internal Combustion Engine, Plt E1, Location P&E
S-5, Stationary Internal Combustion Engine, Plt E2, Location P&E
S-6, Stationary Internal Combustion Engine, Plt E3, Location P&E
S-7, Stationary Internal Combustion Engine, Plt E5, Location P&E
S-8, Stationary Internal Combustion Engine, Plt E16, Location P&E

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Diesel Sulfur Content	BAAQMD Regulation 9-1-304	N		0.5% by weight	BAAQMD Condition # 17898 Part 6	P/E	Certification of diesel sulfur content
Diesel Sulfur Content	BAAQMD Condition # 17898 Part 6	Y		0.5% by weight	BAAQMD Condition # 17898 Part 6	P/E	Certification of diesel sulfur content

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-9, Stationary Internal Combustion Engine, Plt A3, Location SBB
S-10, Stationary Internal Combustion Engine, Plt A2, Location SBB
S-11, Stationary Internal Combustion Engine, Plt A1, Location SBB
S-12, Stationary Internal Combustion Engine, Plt B1, Location SBB
S-13, Stationary Internal Combustion Engine, Plt B2, Location SBB
S-14, Stationary Internal Combustion Engine, Plt B3, Location SBB

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD Regulation 9-8-301.2	Y		140 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17899 Part 9.b	P/A	Source test
	BAAQMD Regulation 9-8-302.1	Y		140 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17899 Part 9.b	P/A	Source test
NO _x	BAAQMD Condition # 17899 Part 2	Y		140 ppmv @ 15% O ₂ , dry	BAAQMD 17899 Part 9.b	P/A	Source test
CO	BAAQMD Regulation 9-8-301.3	Y		2000 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17899 Part 9.b	P/A	Source test
	BAAQMD Regulation 9-8-302.3	Y		2000 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17899 Part 9.b	P/A	Source test
CO	BAAQMD Condition # 17899 Part 3	Y		2000 ppmv @ 15% O ₂ , dry	BAAQMD Condition # 17899 Part 9.b	P/A	Source test
NMHC	BAAQMD Regulation 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-9, Stationary Internal Combustion Engine, Plt A3, Location SBB
S-10, Stationary Internal Combustion Engine, Plt A2, Location SBB
S-11, Stationary Internal Combustion Engine, Plt A1, Location SBB
S-12, Stationary Internal Combustion Engine, Plt B1, Location SBB
S-13, Stationary Internal Combustion Engine, Plt B2, Location SBB
S-14, Stationary Internal Combustion Engine, Plt B3, Location SBB

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	BAAQMD Regulation 8-34-301.4	Y		98% by weight or greater reduction efficiency, or emit less than 120 ppm by volume of NMHC at the outlet	BAAQMD Condition # 17899 Part 9.b and 9.c	P/A	Source test
NMHC	Condition # 17899 Part 4.a	Y		98% by weight or greater reduction efficiency; or <u>120 ppm by volume</u>	BAAQMD Condition # 17899 Part 9.b and 9.c	P/A	Source test
NMHC	BAAQMD Condition # 17899 Part 4.b	Y		250 ppmv @ 15% O ₂ , dry	BAAQMD Condition # 17899 Part 9.b and 9.c	P/A	Source test
Gas Flow	BAAQMD Regulation 8-34-508	Y		None	BAAQMD Condition # 17899 Part 7a	P/15 minutes	Gas Flow Meter
Key Parameter	BAAQMD Regulation 8-34-509	Y		< 600 oF	BAAQMD Condition # 17899 Part 8a	C	Temperature Monitor
Opacity	BAAQMD Regulation 6-301	Y		> Ringelmann 1.0 for less than 3 min in any hour		N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6 % O ₂		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - B
Applicable Limits and Compliance Monitoring Requirements
S-9, Stationary Internal Combustion Engine, Plt A3, Location SBB
S-10, Stationary Internal Combustion Engine, Plt A2, Location SBB
S-11, Stationary Internal Combustion Engine, Plt A1, Location SBB
S-12, Stationary Internal Combustion Engine, Plt B1, Location SBB
S-13, Stationary Internal Combustion Engine, Plt B2, Location SBB
S-14, Stationary Internal Combustion Engine, Plt B3, Location SBB

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat Input	BAAQMD Condition # 17899 Part 5	Y		Not to exceed S-9: 19.9 MM Btu/hr S-10: 19.9 MM Btu/hr S-11: 19.9 MM Btu/hr S-12: 15.7 MM Btu/hr S-13: 15.7 MM Btu/hr S-13: 15.7 MM Btu/hr	BAAQMD Condition # 17899 Part 7 and 10	P/M	Records
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)		N	
	BAAQMD Regulation 9-1-302	Y		300 ppm	BAAQMD Condition # 17741 Part 4	P/W	Monitoring of digester gas sulfur content

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-15, Paint Spray Booth
S-16, Paint Spray Booth

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Coating Throughput	BAAQMD Condition # 17737 Part 1	Y		50 gal coating	BAAQMD Condition # 17737 Part 3	P/D	Recordkeeping
Primer Throughput	BAAQMD Condition # 17737 Part 1	Y		50 gal primer	BAAQMD Condition # 17737 Part 3	P/D	Recordkeeping
Solvent Throughput	BAAQMD Condition # 17737 Part 2	Y		50 gal MEK 50 gal Mineral Spirits	BAAQMD Condition # 17737 Part 3	P/D	Recordkeeping
VOC	BAAQMD 8-19-301.1	Y		Baked coating: 2.3 lb/gal	BAAQMD 8-19-501	P/W	Recordkeeping
	BAAQMD 8-19-301.1	Y		Air dried coating: 2.8 lb/gal	BAAQMD 8-19-501	P/W	Recordkeeping

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-26, Gasoline Dispensing Island

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gasoline Throughput	BAAQMD Condition # 17738, Part 1	N		50,000 gallons	BAAQMD Condition # 17738, Part 2	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-36, Engine Generator 1 – Cogen Unit, Plt EG-2
S-37, Engine Generator 2 – Cogen Unit, Plt EG-3

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Regulation 9-8-301.2	Y		140 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17900 Part 10.b	P/A	Source test
	BAAQMD Regulation 9-8-302.1	Y		140 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17900 Part 10.b	P/A	Source test
	BAAQMD Condition # 17900 Part 2	Y		1.8 gram/bhp-hr	BAAQMD Condition # 17900 Part 10.b	P/A	Source test
	BAAQMD Condition # 17900 Part 16	Y		774 lbs/24 hr combined emissions from S-36, S-37, S-38, and S-39	BAAQMD Condition 17900 Part 18	P/M	Records
CO	BAAQMD Regulation 9-8-301.3	Y		2000 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17900 Part 10.b	P/A	Source test
CO	BAAQMD Regulation 9-8-302.3	Y		2000 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17900 Part 10.b	P/A	Source test
CO	BAAQMD Condition # 17900 Part 3	Y		413.4 lb/24 hr period	BAAQMD Condition # 17900 Part 10.b	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-36, Engine Generator 1 – Cogen Unit, Plt EG-2
S-37, Engine Generator 2 – Cogen Unit, Plt EG-3

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)	None	N	
	BAAQMD Regulation 9-1-302	Y		300 ppm	BAAQMD Condition # 17741 Part 4	P/W	Monitoring of digester gas sulfur content
SO ₂	BAAQMD Condition # 17900 Part 17	Y		150 lbs/24 hr combined emissions from S-36, S-37, S-38, and S-39	BAAQMD Condition 17900 Part 18	P/M	Records
Opacity	BAAQMD Regulation 6-301	Y		> Ringelmann 1.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O ₂	None	N	
FP	BAAQMD Condition # 17900 Part 4	Y		36.4 lb/24 hr period	BAAQMD Condition # 17900 Part 10.b	P/A	Source test
NMHC	BAAQMD Regulation 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon	None	N	
NMHC	BAAQMD Regulation 8-34-301.4	Y		98% by weight or greater reduction efficiency, or emit less than 120 ppm by volume of NMHC at the outlet	BAAQMD Condition # 17900 Part 10.c	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-36, Engine Generator 1 – Cogen Unit, Plt EG-2
S-37, Engine Generator 2 – Cogen Unit, Plt EG-3

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	BAAQMD Condition # 17900 Part 5.a	Y		87.8 lb/24 hr period	BAAQMD Condition # 17900 Part 10.c	P/A	Source test
	BAAQMD Condition # 17900 Part 5.b	Y		98% by weight or greater reduction efficiency; or <u>120 ppm by volume</u>	BAAQMD Condition # 17900 Part 10.c	P/A	Source test
Gas Flow	BAAQMD Regulation 8-34-508	Y		None	BAAQMD Condition # 17900 Part 8a	P/15 minutes	Gas Flow Meter
Key Parameter	BAAQMD Regulation 8-34-509	Y		< 600 °F	BAAQMD Condition # 17900 Part 9a	P/C	Temperature Monitor
Heat Input	BAAQMD Condition # 17900 Part 6	Y		Not to exceed S-36: 30 MM Btu/hr S-37: 30 MM Btu/hr	BAAQMD Condition # 17900 Part 18	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-38, Commercial Boiler, 12.5 MM BTU/hr
S-39, Commercial Boiler, 12.5 MM BTU/hr

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Regulation 9-7-301.1	Y		30 ppmv, dry at 3% O ₂	BAAQMD Condition # 17900 Parts 19 and 20	P/A	Source test
	BAAQMD Condition # 17900 Part 16	Y		774 lbs/24 hr combined emissions from S-36, S-37, S-38, and S-39	BAAQMD Condition 17900 Part 18	P/M	Records
CO	BAAQMD Regulation 9-7-301.3	Y		400 ppmv, dry at 3% O ₂	BAAQMD Condition # 17900 Parts 19 and 20	P/A	Source test
NMHC	BAAQMD Regulation 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon	None	N	
Opacity	BAAQMD Regulation 6-301	Y		> Ringelmann 1.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O ₂	None	N	
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-38, Commercial Boiler, 12.5 MM BTU/hr
S-39, Commercial Boiler, 12.5 MM BTU/hr

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Regulation 9-1-302	Y		300 ppm	BAAQMD Condition # 17741, Part 4	P/W	Monitoring of digester gas sulfur content
SO ₂	BAAQMD Condition # 17900 Part 17	Y		150 lbs/24 hr combined emissions from S-36, S-37, S-38, and S-39	BAAQMD Condition # 17900 Part 18	P/M	Records
Heat Input	BAAQMD Condition # 17900 Part 15	Y		Not to exceed S-38: 12.5 MM Btu/hr S-39: 12.5 MM Btu/hr	BAAQMD Condition # 17900 Part 18	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - H
Applicable Limits and Compliance Monitoring Requirements
S-52, Sandblast Operations

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		> Ringelmann 1.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O ₂	None	N	
	BAAQMD Regulation 6-311	Y		For process Throughput, P<57,320 lb/hr, The emission Limit (E, pound/hr) is: $E = 0.026 * P^{0.67}$ For P≥57,320 lb/hr, E=40 pounds/hr	None	N	
Usage	BAAQMD Condition # 9055 Part 1	Y		30 tons/consecutive 12 months	BAAQMD Condition # 9055 Part 2	P/M	Recordkeeping

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-54, Engine Generator, 12 Cylinder Turbocharged LSVB, Plt EG-1

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD Regulation 9-8-301.2	Y		140 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17901 Part 14.b	P/A	Source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-54, Engine Generator, 12 Cylinder Turbocharged LSVB, Plt EG-1

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Regulation 9-8-302.1	Y		140 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17901 Part 14.b	P/A	Source test
	BAAQMD Condition # 17901 Part 5	Y		1.0 g/bhp-hr (BACT)	BAAQMD Condition # 17901 Part 14.b	P/A	Source test
NOx	BAAQMD Condition # 17901 Part 9	Y		36.2 tons/yr	BAAQMD Condition # 17901 Part 15	P/D & P/M	Records
CO	BAAQMD Regulation 9-8-301.3	Y		2000 ppmv @ 15% O ₂ , dry (natural gas combustion)	BAAQMD Condition # 17901 Part 14.b	P/A	Source test
	BAAQMD Regulation 302.3	Y		2000 ppmv @ 15% O ₂ , dry (waste gas combustion)	BAAQMD Condition # 17901 Part 14.b	P/A	Source test
	BAAQMD Condition # 17901 Part 6	Y		3.3 grams/bhp-hr	BAAQMD Condition # 17901 Part 14.b	P/A	Source test
CO	BAAQMD Condition # 17901 Part 9	Y		119.4 tons/yr	BAAQMD Condition # 17901 Part 15	P/D & P/M	Records
NMHC	BAAQMD Regulation 8-2-301	Y		≤ 15 lb/day or ≤ 300 ppm total carbon	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-54, Engine Generator, 12 Cylinder Turbocharged LSVB, Plt EG-1

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMHC	BAAQMD Regulation 8-34-301.4	Y		98% by weight or greater reduction efficiency, or emit less than 120 ppm by volume of NMHC at the outlet	BAAQMD Condition # 17901 Part 14.c	P/A	Source test
NMHC	BAAQMD Condition # 17901 Part 7.a	Y		0.8 grams/bhp-hr	BAAQMD Condition # 17901 Part 14.c	P/A	Source test
NMHC	BAAQMD Condition # 17901 Part 7.b	Y		98% by weight or greater reduction efficiency; or <u>120 ppm by volume</u>	BAAQMD Condition # 17901 Part 14.c	P/A	Source test
NMHC	BAAQMD Condition # 17901 Part 9	Y		28.9 tons/yr	BAAQMD Condition # 17901 Part 15	P/D & P/M	Records
Gas Flow	BAAQMD Regulation 8-34-508	Y		None	BAAQMD Condition # 17901 Part 12a	P/15 minutes	Gas Flow Meter
Key Parameter	BAAQMD Regulation 8-34-509	Y		< 600 oF	BAAQMD Condition # 17901 Part 13a	P/C	Temperature Monitor
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)	None	N	
	BAAQMD Regulation 9-1-302	Y		300 ppm (gaseous fuel)	BAAQMD Condition # 17741 Part 4	P/W	Monitoring of digester gas sulfur content

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - I
Applicable Limits and Compliance Monitoring Requirements
S-54, Engine Generator, 12 Cylinder Turbocharged LSVB, Plt EG-1

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Regulation 9-1-304	Y		Diesel Sulfur Content 0.5% max (wt basis)	BAAQMD Condition # 17901 Part 4	P/E	Certification Records
	BAAQMD Condition # 17901 Part 4	Y		Diesel Sulfur Content 0.5% max (wt. basis)	BAAQMD Condition # 17901 Part 4	P/E	Certification Records
SO2	BAAQMD Condition # 17901 Part 9	Y		7.2 tons/yr	BAAQMD Condition # 17901 Part 15	P/D & P/M	Records
Opacity	BAAQMD Regulation 6-301	Y		> Ringelmann 1.0 for less than 3 min in any hour	None	N	
	BAAQMD Condition # 17901 Part 10	Y		> Ringelmann 1.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O2	None	N	
FP	BAAQMD Condition # 17901 Part 8	Y		0.085 grams/bhp-hr	BAAQMD Condition # 17901 Part 14.b	P/A	Source test
PM10	BAAQMD Condition # 17901 Part 9	Y		3.1 tons/yr	BAAQMD Condition # 17901 Part 15	P/D & P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - J
Applicable Limits and Compliance Monitoring Requirements
S-55, I C ENGINE BLDG 40 500 KW
S-56, I C ENGINE CL BLDG 250 KW
S-57, I C ENGINE P & E, 500 KW
S-59, I C ENGINE
S-211 CH&E 6" TRASH PUMP, # 22317
S-212 10" GORMAN RUPP TRASH PUMP # 22312
S-213 4" GORMAN RUPP TRASH PUMP # 22314
S-214 IR AIR COMPRESSOR # 22107
S-215 IR AIR COMPRESSOR # 22104
S-216 CH&E 6" TRASH PUMP, # 22306

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Operating Hours	BAAQMD District Regulation 9-8-331.1	N		Unlimited hours/yr for emergency use	BAAQMD District Regulation 9-8-530	P/M	Records
	BAAQMD District Regulation 9-8-331.2	N		200 hrs/yr for reliability-related activities	BAAQMD District Regulation 9-8-530	P/M	Records
Operating Hours	BAAQMD District Condition # 22820 Part 1	N		20 hrs/yr for reliability-related activities	BAAQMD District Condition # 22820 Part 3 and 4	P/H	Hour Meter; Records
	BAAQMD District Condition # 22820 Part 2	N		Unlimited hours/yr for emergency use	BAAQMD District Condition # 22820 Part 3 and 4	P/H	Hour Meter; Records
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - J
Applicable Limits and Compliance Monitoring Requirements
S-55, I C ENGINE BLDG 40 500 KW
S-56, I C ENGINE CL BLDG 250 KW
S-57, I C ENGINE P & E, 500 KW
S-59, I C ENGINE
S-211 CH&E 6" TRASH PUMP, # 22317
S-212 10" GORMAN RUPP TRASH PUMP # 22312
S-213 4" GORMAN RUPP TRASH PUMP # 22314
S-214 IR AIR COMPRESSOR # 22107
S-215 IR AIR COMPRESSOR # 22104
S-216 CH&E 6" TRASH PUMP, # 22306

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Diesel Sulfur Content	BAAQMD Regulation 9-1-304	N		0.5% by weight	None	N	
Opacity	BAAQMD Regulation 6-303.1	Y		> Ringelmann 2.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O2	None	N	
Operating Hours	California Code of Regulations Title 17, Section 93115(e)(2)(B)3	N		Maximum Allowable Annual Hours of Operation for Maintenance and Testing ≤ 20 hrs/yr	California Code of Regulations, Title 17, Section 93115(e)(2)(F)(4)(A)	P/M	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S-58, 4” GORMAN RUPP TRASH PUMP 22305 DIESEL ENGINE
S-60, CH&E 6” TRASH PUMP 22304 DIESEL ENGINE
S-61, PUMP 22315 DIESEL ENGINE
S-62, MUDCAT BOOSTER PUMP # 22309 DIESEL ENGINE
S-63, MUDCAT BOOSTER PUMP # 22316 DIESEL ENGINE
S-64, MUDCAT BOOSTER PUMP # 22311 DIESEL ENGINE
S-65, MUDCAT BOOSTER PUMP # 22310 DIESEL ENGINE

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQMD Regulation 9-1-301	Y		GLC 0.5 ppm (3 min ave) 0.25 ppm (60 min ave) 0.05 ppm (24 hr ave)	None	N	
Diesel Sulfur Content	BAAQMD Regulation 9-1-304	N		0.5% by weight	None	N	
	CCR Section 93116.3(a)	N		CARB Diesel Fuel	CCR Section 93116.3(a)	N	Vendor Certification
Opacity	BAAQMD Regulation 6-303.1	Y		> Ringelmann 2.0 for less than 3 min in any hour	None	N	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O ₂	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
S-100, Municipal Wastewater Treatment Plant

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Wastewater Throughput	BAAQMD Condition # 17740 Part 1	Y		167 Million gal/day dry 360 Million gal/day wet	BAAQMD Condition # 17740 Part 2	P/D	Records

Table VII - M
Applicable Limits and Compliance Monitoring Requirements
S-210, Anaerobic Digesters

Type of Limit	Citation for Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H ₂ S	BAAQMD Regulation 9-2-301	N		0.06 ppm H ₂ S over 3 min or 0.03 ppm H ₂ S over 60 min	None	N	
Digester Gas Sulfur Content	BAAQMD Condition # 17741 Part 3	Y		350 ppm	BAAQMD Condition # 17741 Part 4	P/W	Weekly digester gas testing

VIII. TEST METHODS

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

**Table VIII
Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate; or EPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 9-1-302	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD 9-7-301.1	Performance Standard, NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-301.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-302.1	Performance Standard, NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-302.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-305.1	Performance Standard, NOx, Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-305.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-306.1	Performance Standard, NOx, Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-306.2	Performance Standard, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-8-301.2	Fossil 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 Regulation 9-8-301.3	Fossil Derived Fuel Gas, CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 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 Regulation 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
BAAQMD Condition # 17900 Part 2	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17900 Part 3	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17900 Part 4	Filterable Particulate Emissions	Manual of Procedures, Volume IV, ST-15, Particulate; or EPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD Condition # 17900 Part 5	NMHC Emissions	Manual of Procedures Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD Condition # 17901 Part 4	Diesel Sulfur Content	Manual of Procedures, Volume III, Lab 10 or Vendor Fuel Certification
BAAQMD Condition # 17901 Part 5	NOx Emissions	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 # 17901 Part 6	CO Emissions	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17901 Part 7	NMHC Emissions	Manual of Procedures Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD Condition # 17901 Part 8	Particulate Emissions	Manual of Procedures, Volume IV, ST-15, Particulate; or EPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD Condition # 17901 Part 10	Visible Particles	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Condition # 17898 Part 2	NOx Limits	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17898 Part 3	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17898 Part 4	NMHC Limits	Manual of Procedures Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD Condition # 17898 Part 6	Diesel Sulfur Content	Manual of Procedures, Volume III, Lab 10 or Vendor Fuel Certification
BAAQMD Condition # 17899 Part 2	NOx Limits	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 # 17899 Part 3	CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17899 Part 4	NMHC Limits	Manual of Procedures Volume IV, ST-7 or EPA Method 25 or 25A
BAAQMD Condition # 17741 Part 3	Digester Gas Sulfur	Manual of Procedures, Volume IV, ST-21, Total Reduced Sulfur

IX. PERMIT SHIELD

Not Applicable

X. REVISION HISTORY

Initial Proposal:	March 8, 2001
Title V Permit Issuance:	June 12, 2001
Administrative Permit Amendment:	October 4, 2001
Renewal: (application 14261)	June 26, 2007

XI. GLOSSARY

ACT

Federal Clean Air Act

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

CAA

The Federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CEQA

California Environmental Quality Act

CFR

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

CO

Carbon Monoxide

Cumulative Increase

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

District

The Bay Area Air Quality Management District

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part

52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate or EPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources.

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 both 40 CFR Part 63, and District Regulation 2, Rule 5.

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.

MFR

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

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards

NESHAPs

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

NMHC

Non-methane Hydrocarbons

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 those pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Act and

implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NO_x, 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 Act.

POC

Precursor Organic Compounds

PM

Particulate Matter

PM₁₀

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

PSD

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

SIP

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

SO₂

Sulfur dioxide

Title V

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

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year