Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To: Sonoma County Central Landfill Facility #A2254

Facility Address:

500 Mecham Road Petaluma, CA 94952

Mailing Address:

2300 County Center Drive, Suite B-100 Santa Rosa, CA 95403

Responsible Official

David D. Knight, Director, Dept. of Transportation and Public Works (707) 565-3584

Facility Contact

Alex Sebastian, Senior Civil Engineer (707) 565-7940

Type of Facility: Municipal Solid Waste Landfill

and Electrical Generation

BAAQMD Engineering Division Contact:

Robert T. Hull

Primary SIC: 4953

Product: Disposal Services and Electricity

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent

October 3, 2005

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

Date

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Plant Name: Sonoma County Central Landfill

Permit for Site #: A2254

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 12/21/04);

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 12/21/04);

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 February 27, 2001 and expires on January 31, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than July 31, 2005, and no earlier than January 31, 2005. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** January 31, 2006. If the permit renewal has not been issued by January 31, 2006, 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)

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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 reissuance, or termination, or 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, nor 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 Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

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I. Standard Conditions

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 ofcreation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be February 27, 2001 to July 31, 2001. The report shall be submitted by August 31, 2001. Subsequent reports shall be for the following periods: August 1st through January 31st and February 1st through July 31st, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be February 1st to January 31st. The certification shall be submitted by February 28th 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:

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I. Standard Conditions

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

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

H. Emergency Provisions

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

I. Severability

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

J. Miscellaneous Conditions

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

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II. EQUIPMENT LIST

Table II A – Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
S-1	Sonoma County Central	Accepting municipal,		Max. Design Capacity
	Landfill: (Active Solid Waste	commercial, industrial,		= 32.65 E6 yd3
	Disposal Site with Active Gas	construction,		(24.96 E6 m ³) and
	Collection System)	designated, and special		19.59 E6 tons (17.77 E6
		wastes.		Mg) (excluding final
				cover materials)
				Max. Waste
				Acceptance Rate =
				2500 tons/day (except
				for temporary situations
				approved by the LEA)
	2 Blowers	Lampson	Model 859	100 hp, 868 scfm (each)
	2 Blowers	Lampson	Model 605	40 hp, 1736 scfm (each)
	Landfill Gas Collection System	Horizontal Collectors		18 collectors
		Vertical Wells		115 wells
S-4	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-5	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-6	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-7	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-9	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts

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II. Equipment Lists

Table II A – Permitted Sources

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

S-#	Description	Make or Type	Model	Capacity
S-10	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-11	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-12	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-13	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts
S-14	Lean Burn Internal Combustion	Caterpillar	3516	1138 hp, 4210 in ³
	Engine and Generator Set,		S.I.T.A.	displacement, 8.61 MM
	Landfill Gas/Natural Gas Fired			BTU/hr, 800 kWatts

Table II-B Abatement Device List

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-2	Landfill Gas Flare, John	S-1	BAAQMD 8-	Minimum combustion	See Table
	Zinc ZTOF, 52.1 MM		34-301.3, See	temperature of 1400	VII-A
	BTU/hr		Also Table IV-	degrees F (3-hour	
			A	average), see also	
				Table VII-A	
A-8	Water Sprays, custom	S-1	Condition #	Ringelmann 0.5	
	design		4044, part 2		

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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 would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is: http://yosemite.epa.gov/r9/r9sips.nsf/Casips?readform&state=California

NOTE:

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

Table III
Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(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 (12/21/04)	N
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y

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III. Generally Applicable Requirements

Table III Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
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)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	N
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y ¹
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
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)	\mathbf{Y}^{1}
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants - Lead (9/2/81)	Y^1
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 3	Hazardous Pollutants - Beryllium (3/17/82)	Y
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants - Asbestos Containing Serpentine (7/17/91)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y ¹

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
California Code of Regulations Title	Asbestos Airborne Toxic Control Measure for Construction,	N
17, Section 93105	Grading, Quarrying, and Surface Mining Operations (7/26/01)	
California Code of Regulations Title	Asbestos Airborne Toxic Control Measure for Asbestos-	N
17, Section 93106	Containing Serpentine (7/20/00)	
California Health and Safety Code	Air Toxics "Hot Spots" Information and Assessment Act of	N
Section 44300 et seq.	1987	
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants –	Y
	General Provisions	
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants –	Y
	National Emission Standard for Asbestos (6/19/95)	
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.154	Prohibitions	Y
Subpart F, 40 CFR 82.156	Required Practices	Y
Subpart F, 40 CFR 82.158	Standards for Recycling and Recovery Equipment	Y
Subpart F, 40 CFR 82.161	Technician Certification	Y
Subpart F, 40 CFR 82.162	Certification by Owners of Recovery and Recycling Equipment	Y
Subpart F, 40 CFR 82.166	Reporting and Recordkeeping Requirements	Y

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved the District's revision of the regulation.

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IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

Table IV – A
Source-specific Applicable Requirements
S1 – SONOMA COUNTY CENTRAL LANDFILL
A2 – LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 1	General Provisions and Definitions (5/2/01)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limit on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
1-523.5	Maintenance and calibration	N	
SIP			
Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	\mathbf{Y}^{1}	
1-523.3	Reports of Violations	\mathbf{Y}^{1}	
1-523.5	Maintenance and calibration	\mathbf{Y}^{1}	
BAAQMD			
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	

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IV. Source-Specific Applicable Requirements

Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
6-310	Particle Weight Limitation (applies to A-2 only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Organic Compounds – Miscellaneous Operations (6/15/94)		
Regulation 8,			
Rule 2			
8-2-301	Miscellaneous Operations (applies to low VOC soil handling and disposal	Y	
BAAQMD	activities only)		
Regulation 8,	Organic Compounds – Solid Waste Disposal Sites (10/6/99)		
Rule 34	Organic Compounds – Solid Waste Disposal Sites (10/0/99)		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	
8-34-116.2	Limits on Number of Wells Shutdown	Y	
8-34-116.3	Shutdown Duration Limit	Y	
8-34-116.4	Capping Well Extensions	Y	
8-34-116.5	Well Disconnection Records	Y	
8-34-117	Limited Exemption, Gas Collection System Components	Y	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	Y	
8-34-117.2	New Components are Described in Collection and Control	Y	
	System Design Plan		
8-34-117.3	Meets Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
8-34-118.1	Construction Plan	Y	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4			

IV. Source-Specific Applicable Requirements

Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-118.5	Excavated Refuse Requirements	Y	
8-34-118.6	Covering Requirements for Exposed Refuse	Y	
8-34-118.7	Installation Time Limit	Y	
8-34-118.8	Capping Required for New Components	Y	
8-34-118.9	Construction Activity Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares	Y	
8-34-303	Landfill Surface Requirements	Y	
8-34-304	Gas Collection System Installation Requirements	Y	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	Y	
8-34-304.2	Based on Waste Age For Active Areas	Y	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	Y	
8-34-304.4	Based on NMOC Emission Rate	Y	
8-34-305	Wellhead Requirements	Y	
8-34-305.1	Operate Under Vacuum	Y	
8-34-305.2	Temperature < 55 °C	Y	
8-34-305.3	Nitrogen < 20% or	Y	
8-34-305.4	Oxygen < 5%	Y	
8-34-405	Design Capacity Reports	Y	
8-34-406	Initial NMOC Emission Rate Reports	Y	
8-34-407	Periodic NMOC Emission Rate Reports	Y	
8-34-408	Collection and Control System Design Plans	Y	
8-34-408.1	Sites With NMOC Emission Rate > 50 Mg/year	Y	
8-34-408.2	Sites With Existing Collection and Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-414	Repair Schedule for Wellhead Excesses	Y	
8-34-414.1	Records of Excesses	Y	
8-34-414.2	Corrective Action	Y	
8-34-414.3	Collection System Expansion	Y	

IV. Source-Specific Applicable Requirements

Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-414.4	Operational Due Date for Expansion	Y	
8-34-415	Repair Schedule for Surface Leak Excesses	Y	
8-34-415.1	Records of Excesses	Y	
8-34-415.2	Corrective Action	Y	
8-34-415.3	Re-monitor Excess Location Within 10 Days	Y	
8-34-415.4	Re-monitor Excess Location Within 1 Month	Y	
8-34-415.5	If No More Excesses, No Further Re-Monitoring	Y	
8-34-415.6	Additional Corrective Action	Y	
8-34-415.7	Re-monitor Second Excess Within 10 days	Y	
8-34-415.8	Re-monitor Second Excess Within 1 Month	Y	
8-34-415.9	If No More Excesses, No Further Re-monitoring	Y	
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	Y	
8-34-415.11	Operational Due Date for Expansion	Y	
8-34-416	Cover Repairs	Y	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorder	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	

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Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds – Aeration of Contaminated Soil and Removal of		
Regulation 8,	Underground Storage Tanks (12/15/99)		
Rule 40			
8-40-110	Exemption, Storage Pile	Y	
8-40-112	Exemption, Sampling	Y	
8-40-113	Exemption, Non-Volatile Hydrocarbons	Y	
8-40-116	Exemption, Small Volume	Y	
8-40-116.1	Volume does not exceed 1 cubic yard	Y	
8-40-116.2	Volume does not exceed 8 cubic yards, organic content does not	Y	
	exceed 500 ppmw, may be used only once per quarter		
8-40-117	Exemption, Accidental Spills	Y	
8-40-118	Exemption, Aeration Projects of Limited Impact	Y	
8-40-301	Uncontrolled Contaminated Soil Aeration	Y	
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations (applies to A-2 only)	Y	
9-1-302	General Emission Limitations (applies to A-2 only)	Y	
BAAQMD	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
Regulation 9,			
Rule 2			
9-2-301	Limitations on Hydrogen Sulfide	N	
40 CFR	Standards of Performance for New Stationary Sources - General		
Part 60,	Provisions (5/4/98)		
Subpart A			
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other	Y	
	Correspondence to the Administrator		
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	

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		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing Performance Tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part	Standards of Performance for New Stationary Sources – Standards of		
60, Subpart	Performance for Municipal Solid Waste Landfills (2/24/99)		
www			
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to	Y	
	or greater than 2.5 million Mg and 2.5 million m ³ (Large		
	Designated Facilities)		
60.752(b)(1)	Requirements for Large Designated Facilities with Calculated	Y	
	NMOC Emissions of less than 50 Mg/Year		
60.752	Submit Annual Emission Report	Y	
(b)(1)(i)			
60.752	Recalculate NMOC Emissions Annually until NMOC	Y	
(b)(1)(ii)	Emissions > 50 Mg/year or Landfill is Closed		
60.752	If NMOC > 50 Mg/year, comply with 60.752(b)(2)	Y	
(b)(1)(ii)(A)			
60.752	If landfill is permanently closed, submit closure notice	Y	
(b)(1)(ii)(B)	to comply with 60.757(d)		
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752	Submit a Collection and Control System Design Plan	Y	
(b)(2)(i)			

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Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.752	The collection and control system in the Design Plan	Y	
(b)(2)(i)(A)	shall comply with 60.752(b)(2)(ii)		
60.752	Design Plan shall include all proposed alternatives to	Y	
(b)(2)(i)(B)	60.753 through 60.758		
60.752	Design Plan shall conform to 60.759 (active collection	Y	
(b)(2)(i)(C)	system) or demonstrate sufficiency of proposed		
	alternatives		
60.752	Install a collection and control system	Y	
(b)(2)(ii)			
60.752	Route collected gases to a control system.	Y	
(b)(2)(iii)			
60.752	NMOC Control Requirement for Enclosed Combustion Devices	Y	
(b)(2)(iii)(B)			
60.752	Operate in accordance with 60.753, 60.755, and 60.756	Y	
(b)(2)(iv)			
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(a)	Operate a Collection System in each area or cell in which:	Y	
60.753(a)(1)	Active Cell – solid waste in place for 5 years or more	Y	
60.753(a)(2)	Closed/Final Grade – solid waste in place for 2 years or more	Y	
60.753(b)	Operate each wellhead under negative pressure unless:	Y	
60.753(b)(1)	Fire or increased well temperature or to prevent fire	Y	
60.753(b)(2)	Use of geomembrane or synthetic cover (subject to alternative	Y	
	Pressure limits)		
60.753(b)(3)	Decommissioned well after approval received for shut-down	Y	
60.753(c)	Operate each wellhead at < 55 °C, and either < 20% N ₂ or < than 5%	Y	
	O ₂ (or other approved alternative levels)		
60.753(c)(1)	N ₂ determined by Method 3C	Y	
60.753(c)(2)	O ₂ determined by 3A and as described in (2)(i-v)	Y	
60.753(d)	Surface Leak Limit is less than 500 ppm methane above	Y	
	Background at landfill surface. This section also describes some		
	Surface monitoring procedures.		

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Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.753(e)	Vent all collected gases to a control system complying with	Y	
	60.752(b)(2)(iii). If collection or control system inoperable, shut		
	down gas mover and close all vents within 1 hour		
60.753(f)	Operate the control system at all times when collected gas is	Y	
	Routed to the control system		
60.753(g)	If monitoring demonstrates that 60.753(b), (c), or (d) are not	Y	
	Being met, corrective action must be taken		
60.754	Test Methods and Procedures	Y	
60.754(a)	NMOC Calculation Procedures for NMOC Emission Rate	Y	
	Reports and Comparison to 50 Mg/Year Standard		
60.654(a)(1)	Calculate NMOC Emission Rate using either or both of the	Y	
	equations in 60.754(a)(1)(i-ii) with the listed default values		
60.754	Equation for known year-to-year waste acceptance rate	Y	
(a)(1)(i)			
60.754	Equation for unknown year-to-year waste acceptance rate	Y	
(a)(1)(ii)			
60.754(a)(2)	Tier 1 - compare calculated NMOC emission rate to 50	Y	
	Mg/year		
60.754	If NMOC Emission Rate < 50 Mg/Year, submit NMOC	Y	
(a)(2)(i)	emission rate report and recalculate NMOC emissions		
	annually		
60.754	If NMOC Emission Rate ≥ 50 Mg/year, comply with	Y	
(a)(2)(ii)	60.752(b)(2) or determine a site specific NMOC		
	concentration and follow 60.754(a)(3).		
60.754(a)(3)	Tier 2 – determine site specific NMOC Concentration using	Y	
	Methods 18 or 25C		
60.754	Recalculate NMOC Emission Rate using site specific	Y	
(a)(3)(i)	NMOC concentration data		
60.754	If NMOC Emission Rate ≥ 50 Mg/year, comply with	Y	
(a)(3)(ii)	60.752(b)(2) or determine a site specific methane		
	generation rate constant and follow 60.754(a)(4).		

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Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.754	If NMOC Emission Rate < 50 Mg/Year, submit NMOC	Y	
(a)(3)(iii)	Emission rate report, recalculate NMOC emissions		
	annually, retest for NMOC Concentration every 5 years.		
60.754(a)(4)	Tier 3 – determine site specific methane generation rate	Y	
	Constant using Method 2E and recalculate NMOC Emission		
	Rate using site specific NMOC Concentration and site		
	specific Methane Generation Rate Constant		
60.754	If NMOC Emission Rate ≥ 50 Mg/year, comply with	Y	
(a)(4)(i)	60.752(b)(2).		
60.754	If NMOC Emission Rate < 50 Mg/Year, submit NMOC	Y	
(a)(4)(ii)	emission rate report, recalculate NMOC emissions		
	annually, retest for NMOC Concentration every 5 years.		
60.754(a)(5)	Allows use of alternative calculation methods if approved by	Y	
	EPA		
60.754(c)	For PSD, NMOC emissions shall be calculated using AP-42	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(a)	For Gas Collection Systems	Y	
60.755(a)(1)	Calculation Procedures for Maximum Expected Gas	Y	
	Generation Flow Rate		
60.755	Equation for unknown year-to-year waste acceptance rate	Y	
(a)(1)(i)			
60.755	Equation for known year-to-year waste acceptance rate	Y	
(a)(1)(ii)			
60.755	For closed or inactive and full sites with gas collection	Y	
(a)(1)(iii)	systems, actual flow rates may be used		
60.755(a)(2)	Vertical wells and horizontal collectors shall be of sufficient	Y	
	density to meet all performance specifications		
60.755(a)(3)	Measure wellhead pressure monthly. If pressure is positive,	Y	
	take corrective action (final corrective action = expand system		
	within 120 days of initial positive pressure reading)		
60.755(a)(4)	Expansion not required during first 180 days after startup.	Y	

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Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.755(a)(5)	Monitor wellheads monthly for temperature and either	Y	
	nitrogen or oxygen. If readings exceed limits, take corrective		
	action up to expanding system within 120 days of first excess.		
60.755(b)	Wells shall be placed in cells as described in design plan	Y	
	And no later than 60 days after:		
60.755(b)(1)	Five years after initial waste placement in cell, for active cells	Y	
60.755(b)(2)	Two years after initial waste placement in cell, for closed/final grade cells.	Y	
60.755(c)	Procedures for complying with surface methane standard	Y	
60.755(c)(1)	Quarterly monitoring of surface and perimeter	Y	
60.755(c)(2)	Procedure for determining background concentration	Y	
60.755(c)(3)	Method 21 except probe inlet placed 5-10 cm above ground	Y	
60.755(c)(4)	Excess is any reading of 500 ppmv or more. Take corrective	Y	
	action indicated below (i-v).		
60.755	Mark and record location of excess	Y	
(c)(4)(i)			
60.755	Repair cover or adjust vacuum.	Y	
(c)(4)(ii)	Re-monitor within 10 calendar days.		
60.755	If still exceeding 500 ppmv, take additional corrective	Y	
(c)(4)(iii)	action. Re-monitor within 10 calendar days of 2 nd excess.		
60.755	Re-monitor within 1 month of initial excess.	Y	
(c)(4)(iv)			
60.755	For any location with 3 monitored excesses in a quarter,	Y	
(c)(4)(v)	additional collectors (or other approved collection system		
	repairs) shall be operational within 120 days of 1 st excess.		
60.755(c)(5)	Monitor cover integrity monthly and repair as needed.	Y	
60.755(d)	Instrumentation and procedures for complying with 60.755(c).	Y	
60.755(d)(1)	Portable analyzer meeting Method 21	Y	
60.755(d)(2)	Calibrated with methane diluted to 500 ppmv in air	Y	
60.755(d)(3)	Use Method 21, Section 4.4 instrument evaluation procedures	Y	
60.755(d)(4)	Calibrate per Method 21, Section 4.2 immediately before monitoring.	Y	

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Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.755(e)	Provisions apply at all times except during startup, shutdown, or	Y	
	Malfunction, provided the duration of these shall not exceed 5		
	Days for collection systems or 1 hour for control systems.		
60.756	Monitoring of Operations	Y	
60.756(a)	For active collection systems, install wellhead sampling port	Y	
60.756(a)(1)	Measure gauge pressure in wellhead on a monthly basis	Y	
60.756(a)(2)	Measure nitrogen or oxygen concentration in wellhead gas on a monthly basis.	Y	
60.756(a)(3)	Measure temperature of wellhead gas on a monthly basis.	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	
60.756(b)(1)	Temperature monitor and continuous recorder (not required	Y	
	for boilers and process heaters with capacity > 44 MW)		
60.756(b)(2)	Device that records flow to or bypass of the control device	Y	
	(i or ii below)		
60.756	Install, calibrate, and maintain a device that records flow to	Y	
(b)(2)(i)	the control device at least every 15 minutes.		
60.756	Secure a bypass valve in closed position with a lock-and-	Y	
(b)(2)(ii)	key configuration and inspect seal and lock monthly.		
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.756(f)	Monitor surface on a quarterly basis. Closed landfills with no	Y	
	monitored exceedences in 3 consecutive quarters may reduce		
	monitoring frequency to an annual basis		
60.757	Reporting Requirements	Y	
60.757(a)	Submit an Initial Design Capacity Report	Y	
60.757(a)(1)	Initial Design Capacity Report fulfills 60.7(a)(1) construction	Y	
	date notification requirement.		
60.757(a)(2)	Initial Design Capacity Report Shall Contain:	Y	
60.757	Map indicating size and location of site and all areas where	Y	
(a)(2)(i)	waste may be placed.		
60.757	Permit or other documentation that indicates the maximum	Y	
(a)(2)(ii)	Design capacity.		

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		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.757(a)(3)	Amended Design Capacity Report required within 90 days of	Y	
	Receiving a permitted increase in design capacity or within 90		
	Days of an annual density calculation that results in a design		
	Capacity over the thresholds.		
60.757(b)	Submit Initial and Annual NMOC Emission Rate Report	Y	
60.757(b)(3)	Sites with Collection and Control Systems operating in	Y	
	Compliance with this subpart are exempt from periodic NMOC		
	emission rate reporting requirements.		
60.757(c)	Submit a Collection and Control System Design Plan within	Y	
	1 year of first NMOC emission rate report showing		
	NMOC > 50 MG/year, except as follows		
60.757(f)	Submit Annual Reports containing information required by	Y	
	(f)(1) through (f)(6)		
60.757(f)(1)	Value and length of time for exceedance of parameters	Y	
	Monitored per 60.756(a), (b) or (d)		
60.757(f)(2)	Description and duration of all periods when gas is diverted	Y	
	From the control device by a by-pass line		
60.757(f)(3)	Description and duration of all periods when control device	Y	
	was not operating for more than 1 hour		
60.757(f)(4)	All periods when collection system was not operating for	Y	
	more than 5 days.		
60.757(f)(5)	Location of each surface emission excess and all	Y	
	re-monitoring dates and concentrations.		
60.757(f)(6)	Location and installation dates for any wells or collectors	Y	
	added as a result of corrective action for a monitored excess.		
60.757(g)	Initial Performance Test Report Requirements (g)(1-6)	Y	
60.757(g)(1)	Diagram of collection system showing positions of all existing	Y	
	collectors, proposed positions for future collectors, and areas to be		
	excluded from control.		
60.757(g)(2)	Basis for collector positioning to meet sufficient density requirement	Y	
60.757(g)(3)	Documentation supporting percentage of asbestos or non-degradable	Y	
	material claims for areas without a collection system.		

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		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.757(g)(4)	For areas excluded from collection due to non-productivity,	Y	
	calculations and gas generation rates for each non-productive area		
	and the sum for all nonproductive areas.		
60.757(g)(5)	Provisions for increasing gas mover equipment if current	Y	
	system inadequate to handle maximum projected gas flow rate.		
60.757(g)(6)	Provisions for control of off-site migration	Y	
60.758	Recordkeeping Requirements	Y	
60.758(a)	Design Capacity and Waste Acceptance Records (retain 5 years)	Y	
60.758(b)	Collection and Control Equipment Records (retain for life of	Y	
	Control equipment except 5 years for monitoring data)		
60.758(b)(1)	Collection System Records	Y	
60.758	Maximum expected gas generation flow rate.	Y	
(b)(1)(i)			
60.758	Density of wells and collectors	Y	
(b)(1)(ii)	,		
60.758(b)(2)	Control System Records – enclosed combustors other than	Y	
	boilers or process heaters with heat input > 44 MW		
60.758	Combustion temperature measured every 15 minutes and	Y	
(b)(2)(i)	Averaged over the same time period as the performance test		
60.758	Percent NMOC reduction achieved by the control device	Y	
(b)(2)(ii)			
60.758(c)	Records of parameters monitored pursuant to 60.756 and periods	Y	
	of operation when boundaries are exceeded (retain for 5 years).		
60.758(c)(1)	Exceedances subject to record keeping are	Y	
60.758	All 3-hour periods when average combustion temperature	Y	
(c)(1)(i)	was more than 28 C below the average combustion		
	temperature during the most recent complying		
	performance test		
60.758(c)(2)	Records of continuous flow to control device or monthly	Y	
	Inspection records if seal and lock for bypass valves		
60.758(d)	Plot map showing location of all existing and planned collectors	Y	
	With a unique label for each collector (retain for life of collection		
	system)		
	1	1	

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Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.758(d)(1)	Installation date and location of all newly installed collectors	Y	
60.758(d)(2)	Records of nature, deposition date, amount, and location of asbestos	Y	
	or non-degradable waste excluded from control		
60.758(e)	Records of any exceedance of 60.753, location of exceedance	Y	
	and re-monitoring dates and data (for wellheads and surface).		
	Retain for 5 years.		
60.759	Specifications for Active Collection Systems	Y	
60.759(a)	Active wells and collectors shall be at sufficient density	Y	
60.759(a)(1)	Collection System in refuse shall be certified by PE to achieve	Y	
	Comprehensive control of surface gas emissions		
60.759(a)(2)	Collection Systems (active or passive) outside of refuse shall	Y	
	address migration control		
60.759(a)(3)	All gas producing areas shall be controlled except as	Y	
	Described below (i-iii).		
60.759	Any segregated area of asbestos or non-degradable	Y	
(a)(3)(i)	Material only may be excluded, if documented adequately		
	per 60.758(d).		
60.759	Any non-productive areas may be excluded from control,	Y	
(a)(3)(ii)	provided total NMOC emissions from all excluded areas is < 1%		
	of total NMOC emissions from landfill. Document amount,		
	location, and age of waste and all calculations for each excluded		
	area.		
60.759	For calculating NMOC emissions, values for k and concentration	Y	
(a)(3)(iii)	of NMOC that have been previously approved shall be used or		
	defaults if no values were approved. All non-degradable wastes		
	that are being subtracted from total wastes for NMOC		
	calculations must be documented adequately.		
60.759(b)	Gas Collection System Components	Y	
60.759(b)(1)	Must be constructed of PVC, HDPE, fiberglass, stainless	Y	
	steel, or other approved material and of suitable dimensions to		
	convey projected gas amounts and withstand settling, traffic,		
	etc.		

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IV. Source-Specific Applicable Requirements

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		Federally	Future
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Requirement	Description of Requirement	(Y/N)	Date
60.759(b)(2)	Collectors shall not endanger liner, shall manage condensate	Y	
	and leachate, and shall prevent air intrusion and surface leaks.		
60.759(b)(3)	Header connection assemblies shall include positive closing throttle	Y	
	valve, seals and couplings to prevent leaks, at least one sampling		
	port, and shall be constructed of PVC,HDPE, fiberglass, stainless		
	steel, or other approved materials.		
60.759(c)	Gas Mover Equipment shall be sized to handle maximum	Y	
	expected gas generation rate over the intended period of use.		
60.759(c)(1)	For existing systems, flow data shall be used to project	Y	
	maximum flow rate.		
60.759(c)(2)	For new systems, shall be calculated per 60.755(a)(1)	Y	
40 CFR Part	National Emission Standards for Hazardous Air Pollutants: General		
63, Subpart	Provisions (3/16/94)		
A			
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)	Records for startup, shutdown, malfunction, and maintenance	Y	
(i-v)			
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part	National Emission Standards for Hazardous Air Pollutants: Municipal		
63, Subpart	Solid Waste Landfills (1/16/03)		
AAAA			
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is	Y	
	required by 40 CFR Part 60, Subpart WWW or a State Plan		
	implementing 40 CFR Part 60, Subpart Cc		

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AParkla	December 1974	Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N) Y	Date
63.1955(c)	Comply with all approved alternatives to standards for collection and	Y	
	control systems plus all SSM requirements and 6 month compliance reporting requirements		
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1905	How do I calculate the 3-hour block average used to demonstrate	Y	
03.1973	compliance?	1	
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR	Y	
	Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60,		
	Subpart Cc, except that the annual report required by 40 CFR 60.757(f)		
	must be submitted every 6 months		
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR	Y	
	Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM		
	Plans and Reports		
BAAQMD			
Condition #			
4044			
Part 1	Refuse acceptance limits (Cumulative Increase and 2-1-301)	Y	
Part 2	Dust emission limits (BACT and 1-301)	Y	
Part 3	Public nuisance consequences (1-301)	N	
Part 4	Authority to Construct requirement for collection system modifications (2-1-301)	Y	
Part 4a	Minimum Collection System Description (8-34-301.1)	Y	
Part 4b	New Collection System Requirements (8-34-304)	N	
Part 5	Continuous operation requirement (8-34-301.1)	Y	
Part 6	Limits on concentrations of toxic air contaminants in landfill gas (TRMP)	N	
Part 7	Limit on total reduced sulfur content in landfill gas (9-1-302)	Y	
Part 8	Prohibition on venting raw landfill gas to the atmosphere (8-34-301)	Y	
Part 9	Requirement to operate flare when an engine is down (8-34-301)	Y	
Part 10	Combustion Temperature Limit (TRMP)	N	
Part 11	Flow meter requirement (8-34-301)	Y	
Part 12	Alarm requirements (8-34-301.1)	Y	
Part 13	Temperature monitor and recorder (8-34-507 and TRMP)	Y	

IV. Source-Specific Applicable Requirements

Table IV – A Source-specific Applicable Requirements S1 – SONOMA COUNTY CENTRAL LANDFILL A2 – LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 14	Test requirement for NMOC and THC limits (8-34-301.3)	Y	
Part 15	Test Requirements for toxic air contaminants in landfill gas (TRMP)	N	
Part 16	Test requirement for landfill gas sulfur content limit (9-1-302)	Y	
Part 17,	Record keeping requirements (Cumulative Increase, 6-301, 6-305, 8-34-	Y	
subparts a-h,	304, 8-34-501.3, and 8-34-501.8)		
and m-p			
Part 17, subparts i-m	Record keeping requirements (Cumulative Increase, 8-34-304, 8-34-501.3, and 8-34-501.8)	Y	
Part 18,	Handling Procedures for Soil Containing Volatile Organic Compounds	N	
subparts a-l	(8-40-301, 8-40-304 and 8-40-305)		
Part 19,	Contaminated Soil Throughput Limit and Records (8-2-301)	Y	
subparts a-c			
Part 20	Heat Input Limits (2-1-301)	Y	

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

Table IV-B Source-specific Applicable Requirements S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 - Lean Burn Internal Combustion Engines and Generator Sets

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 1	General Provisions and Definitions (5/2/01)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limit on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	

IV. Source-Specific Applicable Requirements

Table IV-B Source-specific Applicable Requirements S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 - Lean Burn Internal Combustion Engines and Generator Sets

Applicable Requirement Regulation Title or Description of Requirement Enforceable (Y/N) Effective Date 1-523.5 Maintenance and calibration N SIP Regulation 1 General Provisions and Definitions (6/28/99) Y 1-523.5 Parametric Monitoring and Recordkeeping Procedures Y¹ 1-523.5 Maintenance and calibration Y¹ 1-523.5 Maintenance and calibration Y¹ Regulation 6 Particulate Matter and Visible Emissions (12/19/90) Y 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310 Particle Weight Limitation Y 6-401 Appearance of Emissions Y BAAQMD Regulation 8, Organic Compounds - Solid Waste Disposal Sites (10/6/99) Y 8-34-113 Limited Exemption, Inspection and Maintenance Y 8-34-113.1 Emission Minimization Requirement Y 8-34-313.2 Shutdown Time Limitation Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Co			Federally	Future
No. No.	Applicable	Regulation Title or	_	Effective
Regulation 1 General Provisions and Definitions (6/28/99) 1-523 Parametric Monitoring and Recordkeeping Procedures Y¹ 1-523.3 Reports of Violations Y¹ 1-523.5 Maintenance and calibration Y 1-523.5 Maintenance Y	Requirement	Description of Requirement	(Y/N)	Date
Regulation 1 General Provisions and Definitions (6/28/99) 1-523 Parametric Monitoring and Recordkeeping Procedures Y¹ 1-523.3 Reports of Violations Y¹ 1-523.5 Maintenance and calibration Y¹ BAAQMD Regulation 6 Particulate Matter and Visible Emissions (12/19/90) 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310 Particle Weight Limitation Y 6-401 Appearance of Emissions Y BAAQMD Regulation 8, Organic Compounds - Solid Waste Disposal Sites (10/6/99) Rule 34 *** *** 8-34-113.1 Emission Minimization Requirement Y 8-34-113.2 Shutdown Time Limitation Y 8-34-313.1 Emission Requirement Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control System Design Plans Y 8-34-408 Collection and Control System Design Plans	1-523.5	Maintenance and calibration	N	
1-523	SIP			
1-523.3 Reports of Violations	Regulation 1	General Provisions and Definitions (6/28/99)		
1-523.5 Maintenance and calibration Y	1-523	Parametric Monitoring and Recordkeeping Procedures		
BAAQMD Regulation 6 Particulate Matter and Visible Emissions (12/19/90) 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310 Particle Weight Limitation Y 6-401 Appearance of Emissions Y BAAQMD Organic Compounds - Solid Waste Disposal Sites (10/6/99) Rule 34 Shad-113 Limited Exemption, Inspection and Maintenance Y 8-34-113.1 Emission Minimization Requirement Y 8-34-113.2 Shutdown Time Limitation Y 8-34-113.3 Recordkeeping Requirement Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8	1-523.3	Reports of Violations		
Regulation 6 Particulate Matter and Visible Emissions (12/19/90) 6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310 Particle Weight Limitation Y 6-401 Appearance of Emissions Y BAAQMD Particle Weight Limitation Y BAAQMD Particle Weight Limitation Y Regulation 8, Pagulation 9, Pagulation	1-523.5	Maintenance and calibration	Y ¹	
6-301 Ringelmann No. 1 Limitation Y 6-305 Visible Particles Y 6-310 Particle Weight Limitation Y 6-401 Appearance of Emissions Y BAAQMD Regulation 8, Organic Compounds - Solid Waste Disposal Sites (10/6/99) Rule 34 8-34-113 Limited Exemption, Inspection and Maintenance Y 8-34-113.1 Emission Minimization Requirement Y 8-34-113.2 Shutdown Time Limitation Y 8-34-113.3 Recordkeeping Requirement Y 8-34-301. Landfill Gas Collection and Emission Control System Requirements Y 8-34-301. Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y <td< td=""><td>BAAQMD</td><td></td><td></td><td></td></td<>	BAAQMD			
6-305 Visible Particles Y 6-310 Particle Weight Limitation Y 6-401 Appearance of Emissions Y BAAQMD Regulation 8, Y Regulation 8, Rule 34 Organic Compounds - Solid Waste Disposal Sites (10/6/99) 8-34-113 Limited Exemption, Inspection and Maintenance Y 8-34-113.1 Emission Minimization Requirement Y 8-34-113.2 Shutdown Time Limitation Y 8-34-113.3 Recordkeeping Requirement Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests	Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
Particle Weight Limitation	6-301	Ringelmann No. 1 Limitation	Y	
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BAAQMD Regulation 8, Rule 34 Organic Compounds - Solid Waste Disposal Sites (10/6/99) 8-34-113 Limited Exemption, Inspection and Maintenance Y 8-34-113.1 Emission Minimization Requirement Y 8-34-113.2 Shutdown Time Limitation Y 8-34-113.3 Recordkeeping Requirement Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	6-310	Particle Weight Limitation	Y	
Regulation 8, Rule 34 Organic Compounds - Solid Waste Disposal Sites (10/6/99) 8-34-113 Limited Exemption, Inspection and Maintenance Y 8-34-113.1 Emission Minimization Requirement Y 8-34-113.2 Shutdown Time Limitation Y 8-34-113.3 Recordkeeping Requirement Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	6-401	Appearance of Emissions	Y	
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8-34-113.2 Shutdown Time Limitation Y 8-34-113.3 Recordkeeping Requirement Y 8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-113	Limited Exemption, Inspection and Maintenance	Y	
Recordkeeping Requirement Read-34-301 Recordkeeping Requirement Read-34-301 Landfill Gas Collection and Emission Control System Requirements Y Read-34-301.1 Continuous Operation Y Read-34-301.2 Collection and Control Systems Leak Limitations Y Read-34-301.4 Limits for Other Emission Control Systems Y Read-408 Collection and Control System Design Plans Y Read-408.2 Sites With Existing Collection and Control Systems Y Read-410 Equipment Removal Report Y Read-411 Annual Report Y Read-412 Compliance Demonstration Tests Y Read-413 Performance Test Report Y Read-501 Operating Records Y Emission Control System Downtime	8-34-113.1	Emission Minimization Requirement	Y	
8-34-301 Landfill Gas Collection and Emission Control System Requirements Y 8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-113.2	Shutdown Time Limitation	Y	
8-34-301.1 Continuous Operation Y 8-34-301.2 Collection and Control Systems Leak Limitations Y 8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-113.3	Recordkeeping Requirement	Y	
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8-34-301.4 Limits for Other Emission Control Systems Y 8-34-408 Collection and Control System Design Plans Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-301.1	Continuous Operation	Y	
8-34-408 Collection and Control System Design Plans Y 8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-408.2 Sites With Existing Collection and Control Systems Y 8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-408	Collection and Control System Design Plans	Y	
8-34-410 Equipment Removal Report Y 8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-408.2	-	Y	
8-34-411 Annual Report Y 8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-410		Y	
8-34-412 Compliance Demonstration Tests Y 8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-411		Y	
8-34-413 Performance Test Report Y 8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y	8-34-412	<u> </u>	Y	
8-34-501 Operating Records Y 8-34-501.2 Emission Control System Downtime Y		-		
8-34-501.2 Emission Control System Downtime Y		-		
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IV. Source-Specific Applicable Requirements

Table IV-B Source-specific Applicable Requirements S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 - Lean Burn Internal Combustion Engines and Generator Sets

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameters	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
Regulation 9,			
Rule 2			
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon		
Regulation 9	Monoxide from Stationary Internal Combustion Engines (1/20/93)		
Rule 8			
9-8-301	Emission Limits - Fossil Derived Fuel Gas	Y	
9-8-301.2	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-301.3	CO Emission Limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
40 CFR Part	Standards of Performance for New Stationary Sources – General		
60, Subpart	Provisions (5/4/98)		
A			
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other	Y	
	Correspondence to the Administrator		
60.7	Notification and Record Keeping	Y	

IV. Source-Specific Applicable Requirements

Table IV-B Source-specific Applicable Requirements S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 - Lean Burn Internal Combustion Engines and Generator Sets

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operation before performing Performance Tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part	Standards of Performance for New Stationary Sources – Standards of		
60, Subpart	Performance for Municipal Solid Waste Landfills (2/24/99)		
www			
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Comply with paragraph (b)(2) or calculate NMOC emission rate	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752	Submit a collection and control system design plan	Y	
(b)(2)(i)			
60.752	Install a collection and control system	Y	
(b)(2)(ii)			
60.752	Route collected gases to a control system	Y	
(b)(2)(iii)			
60.752	Reduce NMOC emissions by 98% by weight or reduce	Y	
(b)(2)(iii)(B)	NMOC outlet concentration to less than		
	20 ppmv as hexane at 3% O2, dry basis		
60.752	Operate in accordance with 60.753, 60.755, and 60.756	Y	
(b)(2)(iv)			

IV. Source-Specific Applicable Requirements

Table IV-B Source-specific Applicable Requirements S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 - Lean Burn Internal Combustion Engines and Generator Sets

Applicable Paguiroment	Regulation Title or	Federally Enforceable (Y/N)	Future Effective Date
Requirement 60.753	Operational Standards for Collection and Control Systems	Y	Date
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii)	Y	
60.753(f)	Operate the control system at all times when collected gas is Routed to the control system	Y	
60.754	Test Methods and Procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems	Y	
60.756	Monitoring of Operations	Y	
60.756(d)	Approval of other control devices	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.757	Reporting Requirements	Y	
60.757(c)	Submit a Collection and Control System Design Plan	Y	
60.757(e)	Submit Equipment Removal Report 30 days prior to removal or cessation of operation of the control equipment	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1), (f)(2), and (f)(3)	Y	
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(b) or (e)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.758	Recordkeeping Requirements	Y	
60.758(b)	Control Equipment Records (Control Device Vendor Specifications) Note: Subsections 1 through 4 do not apply.	Y	
60.758(c)	Records of parameters monitored pursuant to 60.756 (e)	Y	
60.758(e)	Records of any exceedance of 60.753(e) or (f)	Y	

IV. Source-Specific Applicable Requirements

Table IV-B Source-specific Applicable Requirements S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 - Lean Burn Internal Combustion Engines and Generator Sets

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19933	Description of Requirement	(1/11)	Date
Part 1	Abatement requirement for collected landfill gas (8-34-301)	Y	
Part 2	Requirement to flare excess gas (8-34-301)	Y	
Part 3	Limitations on Natural Gas Usage (Cumulative Increase and Offsets)	Y	
Part 4	Landfill Gas Flow Meter Requirement (8-34-301)	Y	
Part 5	NOx emission limit (BACT, Offsets, and Cumulative Increase)	Y	
Part 6	CO emission limit (BACT)	Y	
Part 7	NMOC control requirement (BACT, Offsets, and Regulation 8-34-301.4)	Y	
Part 8	Annual Source Test Requirement (BACT, Offsets, 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.1, 9-8-302.3, and 40 CFR 60.752(b)(2)(iii)(B))	Y	
Part 9, subparts a-e	Record Keeping Requirements (Cumulative Increase and Offsets)	Y	
Part 10	Heat Input Limits (2-1-301)	Y	
Part 11	Exhaust Gas Oxygen Concentration Monitoring Requirements (Regulations 8-34-301.4, 8-34-501.4, and 8-34-509; 40 CFR 60.752(b)(2)(iii)(B) and 60.756(d))	Y	

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

V. SCHEDULE OF COMPLIANCE

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

VI. PERMIT CONDITIONS

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

Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

- 1. Except for temporary emergency situations approved by the Local Enforcement Agency, the total amount of municipal solid waste received at the Sonoma County Central Landfill (S-1) shall not exceed 2,500 tons per day nor 897,500 tons per year. The total cumulative amount of all wastes and cover materials (excluding final cover material) placed in the landfill shall not exceed both 32.65 million cubic yards and 19.59 million tons. (basis: Cumulative Increase and 2-1-301)
- 2. Particulate emissions from any operation of the Landfill (S-1) shall be abated by Water Spray (A-8), if necessary, so that visible dust emissions shall not exceed Ringelmann 0.5 or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: BACT and 1-301)
- *3. If the plant receives two or more Violation Notices from the District for "Public Nuisance" related to dust emissions in any consecutive 12 month period, the Permit Holder shall submit to the District, within 30 days, an application to modify the Permit to Operate to include the following control measures as applicable or any other measures that the District deems necessary and appropriate. (basis: Regulation 1-301)
 - a. The paving of all significant roads associated with landfill operations, or
 - b. The use of chemical suppressant to control fugitive dust emissions from roadways associated with this landfill.
- 4. The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described in Parts 4.a.-b. below. Increasing or decreasing the number of wells or collectors, or significantly changing the length of collectors, or the locations of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.

VI. Permit Conditions

Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

a. The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in Permit Applications #002227, #008259, and #009584.

Required Components

Total Number of Vertical Wells: 115
Total Number of Horizontal Collectors: 18

b. The Permit Holder has been issued an Authority to Construct for the landfill gas collection system components listed below. These collectors shall be installed in the East Canyon Expansion Area in accordance with the requirements of Regulation 8-34-304. Specific collector locations, depths, and lengths of associated piping are as described in detail in Permit Applications #19313 and #007834.

Minimum 5

Total Number of Horizontal Collectors:

Wells installed pursuant to Parts 4.b. shall be added to Part 4.a. via an administrative permit amendment.

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

- 5. The landfill gas collection system described in Part 4.a. shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the District, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)
- *6. If the concentrations (dry basis) of toxic air contaminants in the collected landfill gas exceed any of the limits listed below, the Permit Holder shall submit a permit application for a Change of Permit Conditions within 30 days of receiving the test results.

Benzene = 2.5 ppmv
Trichloroethylene = 3.0 ppmv
Perchloroethylene = 3.0 ppmv
Methylene Chloride = 20.0 ppmv
Vinyl Chloride = 2.5 ppmv
(basis: Toxic Risk Management Policy)

7. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in control systems exhaust. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry). (basis: Regulation 9-1-302)

Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

- 8. All collected landfill gas shall be vented to properly operating abatement equipment including the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14) and/or the Landfill Gas Flare (A-2). Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)
- 9. The A-2 Landfill Gas Flare shall be operated as necessary when one or more Internal Combustion Engines are down and whenever the flow of landfill gas exceeds the capacity of the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14). (basis: Regulation 8-34-301)
- 10. The combustion temperature of the A-2 Landfill Gas Flare shall be maintained at a minimum of 1400 degrees Fahrenheit, averaged over any 3-hour period. (basis: 8-34-301, Toxic Risk Management Policy)
- 11. A flow meter to measure gas flow into the A-2 Landfill Gas Flare shall be installed and maintained in good working condition. (basis: Regulation 8-34-301)
- 12. The A-2 Landfill Gas Flare shall be equipped with both local and remote alarm systems, which shall be enabled whenever the flare is required to be operated under the requirements of Part 9 above. (basis: Regulation 8-34-301.41)
- 13. The A-2 Landfill Gas Flare shall be equipped with a combustion temperature readout monitor and continuous recorder. (basis: Regulation 8-34-507 and Toxic Risk Management Policy)
- 14. In order to demonstrate compliance with Regulation 8, Rule 34, Section 301.3 and 40 CFR 60 .752(b)(2)(iii)(B), the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-2). As a minimum, the annual source test shall determine the following: a. landfill gas flow rate to the flare (dry basis);

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For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

- b. concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), methane (CH₄), total non-methane organic compounds (NMOC), and total hydrocarbons (THC) in the landfill gas;
- c. stack gas flow rate from the flare (dry basis);
- d. concentrations (dry basis) of CH₄, NMOC, THC, and O₂ in the flare stack gas;
- e. the CH₄, NMOC, and THC destruction efficiencies achieved by the flare; and
- f. the average combustion temperature in the flare during the test period. The first annual source test shall be conducted by no later than October 1, 2002 or no later than 12 months after the issue date of the MFR Permit, whichever date occurs first. Subsequent source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date. [Basis: Regulations 8-34-301.3 and 8-34-412 and 40 CFR 60.752(b)(2)(iii)(B)]
- *15. In order to demonstrate compliance with Part 6 above, the Permit Holder shall conduct a characterization of the landfill gas at least once per year. The landfill gas sample shall be drawn from the main landfill gas header. The landfill gas shall be analyzed for methane (CH₄), carbon dioxide (CO₂), nitrogen (N_2) , oxygen (O_2) , and all organic compounds listed in the most recent version of EPA's AP-42 Table 2.4-1, excluding acetone. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date. After conducting three annual landfill gas characterization tests, the Permit Holder may request to remove specific compounds from the list of compounds to be tested for if the compounds have not been detected, have no significant impact on the cancer risk determination for the site, and have no significant impact on the hazard index determination for the site. If the Permit Holder has excluded any NPOCs from the POC emission calculations for the site, then the Permit Holder shall continue to test for these NPOCs on an annual basis. (basis: Toxic Risk Management Policy)

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- In order to demonstrate compliance with Part 7 above, the Permit Holder shall measure the total sulfur content in collected landfill gas on a weekly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the dreager tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and weekly thereafter. After collecting three months of landfill gas sulfur content data, the Permit Holder may reduce the sulfur content testing frequency to a monthly basis, if all tests indicate compliance with the limit specified in Part 7 above. After collecting one year of sulfur content data, the Permit Holder may reduce the sulfur content testing frequency to a quarterly basis, if all tests indicate compliance with the limit specified in Part 7 above. (basis: 9-1-302)
- 17. In order to demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in a District approved logbook.
 - a. Record the total amount of municipal solid waste received at S-1 on a daily basis.
 - b. Summarize the daily waste acceptance records for each calendar month.
 - c. Summarize monthly waste acceptance records for each preceding 12-month period.
 - d. For each area or cell that is not controlled by a landfill gas collection system, maintain a record of the date that waste was initially placed in the area or cell.
 - e. Record the cumulative amount of waste placed in each uncontrolled area or cell on a monthly basis.
 - f. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
 - g. Record the initial operation date for each new landfill gas well and collector.

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Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

- h. Maintain an accurate map of the landfill which indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to Part 4.a. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least every six months to indicate changes in refuse boundaries and to include any newly installed wells and collectors.
- i. Record the operating times for the A-2 Landfill Gas Flare on a daily basis.
- j. Record the total amount of landfill gas vented to A-2 on a daily basis.
- k. Summarize the amount of landfill gas vented to A-2 on a monthly basis.
- 1. Maintain continuous records of the combustion temperature achieved at A-2 during all hours of operation.
- m. Maintain records of all test dates and test results performed to maintain compliance these permit conditions.
- n. For each dust suppressant application, maintain records of the date the dust suppressant was applied, the areas that it was applied to, the type of dust suppressant used, and the amount of dust suppressant that was applied.
- o. Maintain daily records of the water application frequency for construction areas, unpaved roads, and dirt and rock stockpiles.

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations.

(basis: Cumulative Increase and Regulations 6-301, 6-305, 8-34-304, 8-34-501.3, and 8-34-501.8)

- *18. Handling Procedures for Soil Containing Volatile Organic Compounds
 - a. The procedures listed below in subparts b-k do not apply if the following criteria are satisfied. However, the record keeping requirements in subpart l below are applicable.

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- i. The Permit Holder has appropriate documentation demonstrating that either the organic content of the soil or the organic concentration above the soil is below the "contaminated" level (as defined in Regulation 8, Rule 40, Sections 205, 207, and 211).
- ii. The Permit Holder has no documentation to prove that soil is not contaminated, but source of the soil is known and there is no reason to suspect that the soil might contain organic compounds.
- b. Any soil received at the facility that is known or suspected to contain volatile organic compounds (VOCs) shall be handled as if the soil were contaminated, unless the Permit Holder receives test results proving that the soil is not contaminated. To prove that the soil is not contaminated, the Permit Holder shall collect soil samples in accordance with Regulation 8-40-601 within 24 hours of receipt of the soil by the facility. The organic content of the collected soil samples shall be determined in accordance with Regulation 8-40-602.
 - i. If these test results indicate that the soil is still contaminated or if the soil was not sampled within 24 hours of receipt by the facility, the Permit Holder must continue to handle the soil in accordance with the procedures subparts c-k below, until the soil has completed treatment or has been placed in a final disposal location and adequately covered. Storing soil in a temporary stockpile or pit is not considered treatment. Comingling, blending, or mixing of soil lots is not considered treatment.
 - ii. If these test results indicate that the soil as received at the facility has an organic content of 50 ppmw or less, then the soil may be considered to be not contaminated and need not be handled in accordance with the procedures listed in subparts c-k below.
- c. Any contaminated soil received at the facility shall be clearly identified as contaminated soil, shall be handled in accordance with subparts d-k below, and shall be segregated from non-contaminated soil. Contaminated soil lots may not be co-mingled, blended, or otherwise mixed with non-contaminated soil lots prior to treatment, reuse, or disposal. Mixing soil lots in an attempt to reduce the overall concentration of the contaminated soil or to circumvent any requirements or limits is strictly prohibited.

Condition # 4044

- d. On-site handling of contaminated soil shall be limited to no more than 2 on-site transfers per soil lot. For instance, unloading soil from offsite transport vehicles into a temporary storage pile would be considered 1 transfer. Moving soil from a temporary storage to a staging area would be considered 1 transfer. Moving soil from a temporary storage pile to a final disposal site would be considered 1 transfer. Moving soil from a staging area to a final disposal site would be considered 1 transfer. Therefore, unloading soil from off-site transport into a temporary storage pile and then moving the soil from that temporary storage pile to the final disposal site would be allowed. Unloading soil from off-site transport into a staging area and then moving the soil from that staging area to the final disposal site would be allowed. However, unloading soil from off-site transport to a temporary storage pile, moving this soil to a staging area, and then moving the soil again to a final disposal site would be 3 on-site transfers and would not be allowed.
- e. If the contaminated soil has an organic content of less than 500 ppmw, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 90 days of receipt at the facility.
- f. If the contaminated soil has an organic content 500 ppmw or more, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 45 days of receipt at the facility.
- g. All active storage piles shall meet the requirements of Regulation 8-40-304 by using water sprays, vapor suppressants or approved coverings to minimize emissions. The exposed surface area of any active storage pile (including the active face at a landfill) shall be limited to 6000 ft². The types of storage piles that may become subject to these provisions include (but are not limited to) truck unloading areas, staging areas, temporary stockpiles, soil on conveyors, bulldozers or trucks, the active face of a landfill, or other permanent storage pile at the final disposal location.

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- h. All inactive storage piles shall meet the requirements of Regulation 8-40-305 including the requirement to cover contaminated soil during periods of inactivity longer than one hour. The types of storage piles that may become subject to these provisions include (but are not limited to) soil on trucks or other on-site equipment, staging areas, temporary stockpiles, and the permanent storage pile at the final disposal location. District approved coverings for inactive storage piles include continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) or encapsulating vapor suppressants (with re-treatment as necessary to prevent emissions).
- i. For landfills, Permit Holders must:
 - i. Keep contaminated soil covered with continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) whenever soil is to be stored in temporary stockpiles or during on-site transport in trucks. Soil in trucks shall not be left uncovered for more than 1 hour.
 - ii. Establish a tipping area for contaminated soils near the active face that is isolated from the tipping area for other wastes.
 - iii. Spray contaminated soil with water or vapor suppressant immediately after dumping the soil from a truck at the tipping area.
 - iv. Ensure that all contaminated soil is transferred from the tipping area to the active face immediately after spraying with water or vapor suppressant.
 - v. Ensure that contaminated soil in the tipping area is not disturbed by subsequent trucks. Trucks shall not drive over contaminated soil in the tipping area or track contaminated soil out of the tipping area on their wheels.
 - vi. Spray contaminated soil on the active face with water or vapor suppressant (to keep the soil visibly moist) until the soil can be covered with an approved covering.
 - vii. Limit the area of exposed soil on the active face to no more than 6000 ft².
 - viii. Ensure that contaminated soil that has been spread on the active face is completely covered on all sides with one of the following approved coverings: at least 6 inches of clean compacted soil, at least 12 inches of compacted garbage, or at least 12 inches of compacted green waste.

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- ix. Ensure that covering of soil on the active face is completed within one hour of the time that the soil was first dumped from a truck at the tipping area.
- j. Contaminated soil shall not be used as daily, intermediate, or final cover material for landfill waste operations unless the requirements of Regulation 8, Rule 40, Sections 116 or 117 have been satisfied.
- k. Contaminated soil is considered to be a decomposable solid waste pursuant to Regulation 8, Rule 34. All contaminated soil disposed of at a site shall be included in any calculations of the amount of decomposable waste in place that are necessary for annual reporting requirements or for determining the applicability of 8-34-111 or 8-34-304.
- 1. The Permit Holder shall keep the following records for each lot of soil received, in order to demonstrate on-going compliance with the applicable provisions of Regulation 8, Rule 40.
 - i. For all soil received by the facility (including soil with no known contamination), record the arrival date at the facility, the soil lot number, the amount of soil in the lot, the organic content or organic concentration of the lot (if known), the type of contamination (if any), and keep copies of any test data or other information that documents whether the soil is contaminated (as defined in 8-40-205) or not contaminated, with what, and by how much.
 - ii. If the soil is tested for organic content after receipt by the facility, record the sampling date, test results, and the date that these results were received.
 - For all on-site handling of contaminated soil, use a checklist or other approved method to demonstrate that appropriate procedures were followed during all on-site handling activities.
 One checklist shall be completed for each day and for each soil lot (if multiple lots are handled per day).
 - iv. For soil aerated in accordance with 8-40-116 or 117 record the soil lot number, the amount of soil in the lot, the organic content, the final placement date, the final placement location, and describe how the soil was handled or used on-site.
 - v. For final disposal at a landfill, record on a daily basis the soil lot number, the amount of soil placed in the landfill, the disposal date, and the disposal location.

VI. Permit Conditions

Condition # 4044

For S-1 Sonoma County Central Landfill, A-2 Landfill Gas Flare, and A-8 Water Sprays

All records shall be retained for at least 5 years from the date of entry and shall be made available for District inspection upon request. (basis: Regulation 8-40-301, 8-40-304 and 8-40-305)

- 19. The Permit Holder shall limit the quantity of soil (that contains VOCs) disposed of per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. In order to demonstrate compliance with this condition, the Permit Holder shall maintain the following records in a District approved log.
 - a. Record on a daily basis the amount of soil (that contains VOCs) disposed of in the landfill and used as cover material in the landfill. This total amount (in units of pounds per day) is Q in the equation in subpart c. below.
 - b. Record on a daily basis the VOC content of all soils disposed of or used as cover material. This VOC Content (C in the equation below) should be expressed as parts per million by weight as total carbon (or C₁).
 - c. Calculate and record on a daily basis the VOC Emission Rate (E) using the following equation:

$$E = Q * C / 1E6$$

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. (basis: Regulation 8-2-301)

20. The Heat Input to the A-2 Landfill Gas Flare shall not exceed 1250.4 million BTU per day nor 456,396 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the flare based on the landfill gas flow rate recorded pursuant to part 11, the average methane concentration in the landfill gas based on the most recent source test, and a high heating value for methane of 1013 BTU/scf. The records shall be retained for five years and shall be available to the District staff upon request. (basis: Regulation 2-1-301)

Condition # 19933

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion Engines and Generator Sets

- 1. All collected landfill gas shall be vented to properly operating abatement equipment including the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14) and/or the Landfill Gas Flare (A-2). Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during control system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)
- 2. The A-2 Landfill Gas Flare shall be operated as necessary to combust excess gas whenever the flow of landfill gas exceeds the capacity of the IC engines in service. (basis: Regulation 8-34-301)
- 3. The Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14) shall be fired exclusively on landfill gas. If required, natural gas can be used as a supplemental fuel, but it shall not reduce or replace landfill gas available for use in these engines. Natural gas shall not be used as supplemental fuel when the A-2 Flare is operating concurrently with these engines. (basis: Offsets and Cumulative Increase)
- 4. District approved flowmeters, to measure landfill gas flow into the engines, shall be installed prior to any operation and maintained in good working condition. An automatically controlled landfill gas valve shall be installed, and maintained to insure that landfill gas is immediately made available for flaring to the A-2 Landfill Gas Flare when one or more of the engines are down. (basis: 8-34-301)
- 5. Nitrogen Oxide (NO_x) emissions, calculated as NO₂, from each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14) shall not exceed0.80 grams per brake horsepower hour (g/bhp-hr). (basis: BACT, Offsets, and Cumulative Increase)

Condition # 19933

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion Engines and Generator Sets

- 6. Carbon Monoxide (CO) emissions from each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13 and S-14) shall not exceed2.1 g/bhp-hr. (basis: BACT)
- 7. Each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13 and S-14) shall comply with either the destruction efficiency requirements or the non-methane organic compound (NMOC) outlet concentration limit specified in Regulation 8-34-301.4. (basis: BACT, Offsets, and Regulation 8-34-301.4)
- 8. In order to demonstrate compliance with Parts #5, #6, and #7 above, Regulation 8, Rule 34, Sections 114 and 301.4, Regulation 9, Rule 8, Sections 302.1 and 302.3, and 40 CFR 60 .752(b)(2)(iii)(B), the Permit Holder shall ensure that a District approved source test is conducted annually on each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14). As a minimum, the annual source tests shall determine the following:
 - a. landfill gas flow rate to each engine (dry basis);
 - b. concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), CH₄, NMOC, and total hydrocarbons (THC) in the landfill gas;
 - c. exhaust gas flow rate from each engine (dry basis);
 - d. concentrations (dry basis) of NO_x, CO, CH₄, NMOC, THC, and O₂ in the exhaust gas from each engine;
 - e. the CH₄, NMOC, and THC destruction efficiencies achieved by each engine; and
 - f. the average exhaust temperature measured for each engine during the test period.

Source tests for each engine shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date.

[basis: BACT, Offsets, Regulations 8-34-114, 8-34-301.4, 8-34-412, 9-8-302.1, 9-8-302.3, and 40 CFR 60.752(b)(2)(iii)(B)]

Condition # 19933

VI. Permit Conditions

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion Engines and Generator Sets

- 9. The Permit Holder shall maintain the following records in a District approved logbook:
 - a. On a daily basis, record the operating times for each engine.
 - b. On a daily basis, calculate and record the amount of landfill gas burned in each engine.
 - c. On any day that natural gas is burned in an engine, record the amount of natural gas burned in each engine.
 - d. On a monthly basis, summarize all daily records for each engine.
 - e. On a monthly basis, calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentration in the landfill gas (as measure during the most recent source test), a high heating value for methane of 1013 BTU/scf, a high heating value for natural gas of 1050 BTU/scf, and the amounts of landfill gas and natural gas burned in each engine (recorded pursuant to subparts b. and c. above).
 - f. On an annual basis: record the fuel-to-air-ratio setting for each engine during the source test required in Part #8.

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations.

(basis: Regulation 2-1-403, Cumulative Increase, and Offsets)

10. The heat input to each Internal Combustion Engine (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14) shall not exceed 206.64 million BTU per day nor 75,423.6 million BTU per year. (basis: Regulation 2-1-301)

Condition # 19933

For S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion Engines and Generator Sets

11. Within 90-days of the issuance of the revised Title V permit pursuant to Application # 9277, the permit holder shall be in compliance with the following alternative monitoring conditions:

In order to demonstrate ongoing NMOC destruction through proper combustion in the Internal Combustion Engines (S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, and S-14), the permit holder shall operate each engine at the fuel-to-air ratio established during the most recent complying source test. In addition, the exhaust oxygen concentration for each engine shall be maintained within a range of 6.4 to 8.3 percent as established in Permit Application #9277. In order to demonstrate compliance with this requirement, the exhaust gas oxygen content for each engine shall be measured and recorded in a District approved log on at least a monthly basis. Monthly oxygen measurements shall be made with a LAND Instruments Lancom III portable flue gas analyzer or District approved equivalent. If this device is not the same device used to measure oxygen content during the annual performance test required by part 8 above, it shall be calibrated to achieve a one to one correlation to the device used during the performance test. If the same device is used for both the annual performance test and for monthly monitoring its calibration shall be maintained to achieve a one to one correlation with its condition at the time of the performance test.

If the fuel-to-air ratio is not set as established during the most recent complying source test or if the oxygen content measured during a monthly inspection is outside the established range, it shall be considered a reportable exceedance and shall be included in the semi-annual monitoring report required by Section I.F. of the Title V permit. A fuel-to-air ratio exceedance shall be corrected upon discovery. If an exceedance of the oxygen content range occurs, the engine operating parameters shall be adjusted until the measured oxygen concentration is within the established range. For each occurrence of an exhaust gas oxygen concentration outside of the established range, monitoring of that engine shall be repeated every seven days until compliance has been established on two consecutive tests where no adjustments to the engine operating parameters were made. All equipment calibration and monitoring records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. (Basis: Regulations 8-34-301.4, 8-34-501.4 and 8-34-509; 40 CFR 60.752(b)(2)(iii)(B) and 60.756(d))

VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

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

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

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-1, Landfill with Gas Collection System
A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Collection	BAAQMD	Y		For Inactive/Closed Areas:	BAAQMD	P/E	Records
System	8-34-304.1			collection system	8-34-501.7		
Installa-				components must be	and 501.8 and		
tion Dates				installed and operating by	BAAQMD		
				2 years + 60 days	Condition #		
				after initial waste	4044, Parts		
				placement	17d, f, g, h		
Collection	BAAQMD	Y		For Active Areas:	BAAQMD	P/E	Records
System	8-34-304.2			Collection system	8-34-501.7		
Installa-	and			components must be	and 501.8 and		
tion Dates	BAAQMD			installed and operating by	BAAQMD		
	Condition #			5 years + 60 days	Condition #		
	4044, Part			after initial waste	4044, Parts		
	4b			placement	17d, f, g, h		

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Collection	BAAQMD	Y		For Any Uncontrolled	BAAQMD	P/E	Records
System	8-34-304.3			Areas or Cells: collection	8-34-501.7		
Installa-	and			system components must be	and 501.8 and		
tion Dates	BAAQMD			installed and operating	BAAQMD		
	Condition #			within 60 days after the	Condition #		
	4044, Part			uncontrolled area or cell	4044, Parts		
	4b			accumulates 1,000,000 tons	17e-h		
				of decomposable waste			
Collection	40 CFR	Y		For Inactive/Closed Areas:	40 CFR	P/E	Records
System	60.753			collection system	60.758(a),		
Installa-	(a)(2) and			components must be	(d)(1) and		
tion Dates	60.755			installed and operating by	(d)(2), and		
	(b)(2)			2 years + 60 days	60.759(a)(3)		
				after initial waste	and		
				placement	BAAQMD		
					Condition #		
					4044, Parts		
					17d, f, g		
Collection	40 CFR	Y		For Active Areas:	40 CFR	P/E	Records
System	60.753			Collection system	60.758(a),		
Installa-	(a)(1) and			components must be	(d)(1) and		
tion Dates	60.755			installed and operating by	(d)(2) and		
	(b)(1)			5 years + 60 days	BAAQMD		
				after initial waste	Condition #		
				placement	4044, Parts		
					17d, f, g		

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

T	Emission	DE	Future		Monitoring	Monitoring	3.5
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	С	Gas Flow
	8-34-301			system shall operate	Condition		Meter
	and 301.1;			continuously and all	#4044, Part		
	BAAQMD			collected gases shall be	11 and		
	Condition #			vented to a properly	Condition		
	4044,			operating control system	#19933, Part		
	Parts 4a, 5,				4		
	8, and 9;						
	BAAQMD						
	Condition						
	#19933,						
	Parts 1 & 2						
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	С	Gas Flow
	8-34-301			system shall operate	8-34-501.10		Meter and
	and 301.1;			continuously and all	and 508		Recorder
	BAAQMD			collected gases shall be			(every 15
	Condition #			vented to a properly			minutes);
	4044,			operating control system			
	Parts 4a, 5,						
	8, and 9;						
	BAAQMD						
	Condition						
	#19933,						
	Parts 1 & 2						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Gas Flow	40 CFR	Y		Operate a Collection	40 CFR	C or P/M	Gas Flow
	60.753(a)			System in each area or cell	60.756(b)(2)		Meter and
	and (e)			and vent all collected gases	(i or ii) and		Recorder
				to a properly operating	60.758(c)(2)		(every 15
				control system			minutes) or
							Monthly
							Inspection of
							Bypass
							Valve and
							Lock and
							Records
Collection	BAAQMD	Y		240 hours/year nor 5	BAAQMD	P/D	Operating
and	8-34-113.2			consecutive days	8-34-501.1		Records
Control					and		
Systems					BAAQMD		
Shutdown					Condition #		
Time					4044, Part 17i		
Collection	40 CFR	Y		5 days per event for	40 CFR	P/D	Operating
System	60.755(e)			collection system or 1 hour	60.7(b),		Records (all
Startup				for control system	60.757(f)(2)		occurrences
Shutdown					and (f)(4)		and duration
or							of each)
Malfunc-							
tion							
Periods of	BAAQMD	Y		15 consecutive	BAAQMD	P/D	Operating
Inopera-	1-523.2			days/incident and	1-523.4		Records for
tion for				30 calendar days/12 month			All
Para-				period			Parametric
metric							Monitors
Monitors							

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Contin-	40 CFR	Y		Requires Continuous	40 CFR	P/D	Operating
uous	60.13(e)			Operation except for	60.7(b)		Records for
Monitors				breakdowns, repairs,			All
				calibration, and required			Continuous
				span adjustments			Monitors
Wellhead	BAAQMD	Y		< 0 psiq	BAAQMD	P/M	Monthly
Pressure	8-34-305.1				8-34-414,		Inspection
					501.9 and		and Records
					505.1		
Wellhead	40 CFR	Y		< 0 psig	40 CFR	P/M	Monthly
Pressure	60.753(b)				60.755(a)(3),		Inspection
					60.756(a)(1),		and Records
					and 60.758(c)		
					and (e)		
Temper-	BAAQMD	Y		< 55 °C	BAAQMD	P/M	Monthly
ature of	8-34-305.2				8-34-414,		Inspection
Gas at					501.9 and		and Records
Wellhead					505.2		
Temper-	40 CFR	Y		< 55 °C	40 CFR	P/M	Monthly
ature of	60.753(c)				60.755(a)(5),		Inspection
Gas at					60.756(a)(3),		and Records
Wellhead					and 60.758(c)		
					and (e)		
Gas	BAAQMD	Y		$N_2 < 20\%$ OR $O_2 < 5\%$	BAAQMD	P/M	Monthly
Concen-	8-34-305.3				8-34-414,		Inspection
trations at	or 305.4				501.9 and		and Records
Wellhead					505.3 or		
					505.4		
Gas	40 CFR	Y		$N_2 < 20\%$ OR $O_2 < 5\%$	40 CFR	P/M	Monthly
Concen-	60.753(c)				60.755(a)(5),		Inspection
trations at					60.756(a)(2),		and Records
Wellhead					and 60.758(c)		
					and (e)		

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Well	BAAQMD	Y		No more than 5 wells at a	BAAQMD	P/D	Records
Shutdown	8-34-116.2			time or 10% of total	8-34-116.5		
Limits				collection system,	and 501.1		
				whichever is less			
Well	BAAQMD	Y		24 hours per well	BAAQMD	P/D	Records
Shutdown	8-34-116.3				8-34-116.5		
Limits					and 501.1		
Well	BAAQMD	Y		No more than 5 wells at a	BAAQMD	P/D	Records
Shutdown	8-34-117.4			time or 10% of total	8-34-117.6		
Limits				collection system,	and 501.1		
				whichever is less			
Well	BAAQMD	Y		24 hours per well	BAAQMD	P/D	Records
Shutdown	8-34-117.5				8-34-117.6		
Limits					and 501.1		
TOC	BAAQMD	Y		1000 ppmv as methane	BAAQMD	P/Q	Quarterly
(Total	8-34-301.2			(component leak limit)	8-34-501.6		Inspection of
Organic					and 503		collection
Com-							and control
pounds							system
Plus							components
Methane)							with OVA
							and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
TOC	BAAQMD	Y		500 ppmv as methane at	BAAQMD	P/M, Q, and	Monthly
	8-34-303			2 inches above surface	8-34-415,	Е	Visual
					416, 501.6,		Inspection of
					506 and 510		Cover,
							Quarterly
							Inspection
							with OVA of
							Surface,
							Various
							Reinspec-
							tion Times
							for Leaking
							Areas, and
							Records
TOC	40 CFR	Y		<500 ppmv as methane at	40 CFR	P/M, Q and	Monthly
	60.753(d)			5-10 cm from surface	60.755(c)(1),	Е	Visual
					(4) and (5),		Inspection of
					60.756(f), and		Cover,
					60.758(c) and		Quarterly
					(e)		Inspection
							with OVA of
							Surface,
							Various
							Reinspec-
							tion Times
							for Leaking
							Areas, and
							Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Non-	BAAQMD	Y		98% removal by weight	BAAQMD	P/A	Initial and
Methane	8-34-301.3			OR	8-34-412 and		Annual
Organic				< 30 ppmv dry @ 3% O ₂ ,	BAAQMD		Source Tests
Com-				expressed as methane	Condition #		
pounds					4044, Parts		
(NMOC)					14 and 17m		
NMOC	40 CFR	Y		98% removal by weight	40 CFR 60.8	P	Initial
	60.752(b)			OR	and 60.752(b)		Source Test
	(2)(iii)(B)			< 20 ppmv dry @ 3% O_2 ,	(2)(iii)(B) and		and Records
				expressed as hexane	60.758		
					(b)(2)(ii)		
Temper-	BAAQMD	N		CT ≥ 1400 °F	BAAQMD	С	Temperature
ature of	Condition #				8-34-501.3		Sensor and
Combus-	4044,				and 507 and		Recorder
tion Zone	Part 10				BAAQMD		(continuous)
(CT)					Condition #		
					4044, Parts		
					13 and 171		
Temper-	40 CFR	Y		CT (3-hour average)	40 CFR	С	Temperature
ature of	60.758			\geq (CT _{PF} – 28 °C),	60.756(b)(1)		Sensor and
Combus-	(c)(1)(i)			where CT _{PF} is the average	and 60.758		Recorder
tion Zone				combustion temperature	(b)(2)(i)		(measured
(CT)				during the most recent			every 15
				complying performance test			minutes and
							averaged
							over
							performance
							test time
							period and 3-
							hours)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Total	BAAQMD	Y		15 pounds/day or	BAAQMD	P/E	Records
Carbon	8-2-301			300 ppm, dry basis	Condition #		
				only for aeration of or use	4044, Part		
				as cover soil of soil	19a-c		
				containing ≤ 50 ppmw of			
				volatile organic compounds			
Amount	BAAQMD	Y		1 cubic yard per project	BAAQMD	P/E	Records
of	8-40-116.1				Condition #		
Contami-					4044, Part 181		
nated Soil							
Aerated							
or Used							
as Cover							
Amount	BAAQMD	Y		8 cubic yards per project,	BAAQMD	P/E	Records
of	8-40-116.2			provided organic content ≤	8-40-116.2		
Contami-				500 ppmw	and		
nated Soil				and limited to 1 exempt	BAAQMD		
Aerated				project per 3 month period	Condition #		
or Used					4044, Part 181		
as Cover							
Amount	BAAQMD	Y		Prohibited for Soil with	BAAQMD	P/E	Records
of	8-40-301			Organic Content >50 ppmw	Condition #		
Contami-				unless exempt per	4044, Part 181		
nated Soil				BAAQMD 8-40-116, 117,			
Aerated				or 118			
or Used							
as Cover							
Amount	8-40-117	Y		Soil Contaminated by		N	
of Acci-				Accidental Spillage of			
dental				≤ 5 gallons of Liquid			
Spillage				Organic Compounds			

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective	T	Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Total	BAAQMD	Y		150 pounds per project and	BAAQMD	P/E	Records
Aeration	8-40-118			toxic air contaminant	Condition #		
Project				emissions per year	4044, Part 181		
Emissions				<baaqmd 2-1-316<="" table="" td=""><td></td><td></td><td></td></baaqmd>			
				limits			
Contami-	BAAQMD	N		Limited to 2 on-site	BAAQMD	P/E	Records
nated Soil	Condtion #			transfers per lot of	Condition #		
Handling	4044, Part			contaminated soil	4044, Part 181		
	18d						
Contami-	BAAQMD	N		If organic content is:	BAAQMD	P/E	Records
nated Soil	Condtion #			< 500 ppmw,	Condition #		
On-Site	4044, Part			storage time ≤ 90 days	4044, Part 181		
Storage	18e-f			\geq 500 ppmw,			
Time				storage time ≤ 45 days			
Opacity	BAAQMD	Y		Ringelmann No. 1 for 3	BAAQMD	P/E	Records of
	6-301			minutes in any hour	Condition #		Dust
					4044, Part		Suppressant
					17n-o		and Water
							Application
Opacity	BAAQMD	Y		Ringelmann No. 1 for 3		N	
	6-301			minutes in any hour			
				(applies to Flare A-2)			
FP	BAAQMD	Y		0.15 grains/dscf		N	
	6-310			(applies to Flare A-2)			
	BAAQMD	Y		Ringelmann No. 0.5	BAAQMD	P/E	Records of
Opacity	Condition #				Condition #		Dust
	4044, Part 2				4044, Part		Suppressant
					17n-o		and Water
							Application

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Amount	BAAQMD	Y		\leq 2500 tons/day (except for	BAAQMD	P/D	Records
of Waste	Condition #			temporary situations	Condition #		
Accepted	4044, Part 1			approved by the LEA)	4044, Part		
				and	17a-c		
				≤ 897,500 tons/year			
Total	BAAQMD	Y		\leq 19.8 E6 yd ³ and	BAAQMD	P/M	Records
Amount	Condition #			≤ 12.0 E6 tons	Condition #		
of Waste	4044, Part 1				4044, Part		
and Cover					17c		
Materials							
SO_2	BAAQMD	Y		Property Line Ground		N	
	9-1-301			Level Limits ≤			
				0.5 ppm for 3 minutes and			
				\leq 0.25 ppm for 60 minutes			
				and \leq 0.05 ppm for 24 hours			
SO_2	BAAQMD	Y		≤ 300 ppm (dry)	BAAQMD	P/W, M, or	Sulfur
	9-1-302				Condition #	Q (Monthly	Analysis of
					4044, Parts	if 3 months	landfill gas
					16 and 17m	data < 1300	only
						ppm,	
						Quarterly if	
						1 year of	
						data < 1300	
						ppm)	
H_2S	BAAQMD	N		Property Line ground level		N	
	9-2-301			limits ≤ 0.06 ppm			
				Averaged over 3 minutes			
				and ≤ 0.03 ppm			
				Averaged over 60 minutes			

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A Applicable Limits and Compliance Monitoring Requirements S-1, Landfill with Gas Collection System A-2 – Landfill Gas Flare

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Total	BAAQMD	Y		≤ 1300 ppmv	BAAQMD	P/W, M, or	Sulfur
Sulfur	Condition #				Condition #	Q (Monthly	Analysis of
Content in	4044, Part 7				4044, Parts	if 3 months	landfill gas
Landfill					16 and 17m	data < 1300	only
Gas						ppm,	
						Quarterly if	
						1 year of	
						data < 1300	
						ppm)	
Toxic Air	BAAQMD	N		Benzene $\leq 2.5 \text{ ppmv}$	BAAQMD	P/A	Annual
Contam-	Condition #			$Trichloroethylene \leq 3.0 \; ppmv$	Condition #		Source Test
inants in	4044, Part 6			$Perchloroethylene \leq 3.0 \; ppmv$	4044, Part 15		
Collected				MethyleneChloride <20.0 ppmv			
Landfill				Vinyl Chloride $\leq 2.5 \text{ ppmv}$			
Gas							
Periods of	BAAQMD	Y		15 consecutive	BAAQMD	P/D	Operating
Inopera-	1-523.2			days/incident and	1-523.4		Records for
tion for				30 calendar days/12 month			All
Para-				period			Parametric
metric							Monitors
Monitors							
Contin-	40 CFR	Y		Requires Continuous	40 CFR	P/D	Operating
uous	60.13(e)			Operation except for	60.7(b)		Records for
Monitors				breakdowns, repairs,			All
				calibration, and required			Continuous
				span adjustments			Monitors
Heat	BAAQMD	Y		\leq 1,250.4 MM BTU per day	BAAQMD	P/D/M	Daily and
Input	Condition			and	Condition		Monthly
	#4044,			≤ 456,396 MM BTU per	#4044,		Records
	Part 20			year	Part 20		

¹ This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion
Engines and Generator Sets

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
TSP	BAAQMD	Y		Ringelmann No. 1		N	
	6-301						
TSP	BAAQMD	Y		0.15 grains/dscf		N	
	6-310						
TOC	BAAQMD	Y		1000 ppmv as methane	BAAQMD	P/Q	Quarterly
(Total	8-34-301.2			(component leak limit)	8-34-501.6 and		Inspection
Organic					8-34-503		and Records
Com-							
pounds							
Plus							
Methane)							
Non-	BAAQMD	Y		98% removal by weight	BAAQMD	P/A	Initial and
Methane	8-34-301.4			OR	8-34-412 and 8-		Annual
Organic				< 120 ppmv dry @ 3% O ₂ ,	34-501.4 and		Source Tests
Com-				expressed as methane	BAAQMD		and Records
pounds					Condition		
(NMOC)					#19933, Part 8		
NMOC	40 CFR	Y		98% removal by weight	40 CFR 60.8	P/I	Initial
	60.752(b)			OR	and 60.752(b)		Source Test
	(2)(iii)(B)			< 20 ppmv dry @ 3% O_2 ,	(2)(iii)(B) and		and Records
				expressed as hexane	60.758(b)(2)		
POC	BAAQMD	Y		98% removal by weight	BAAQMD	P/A	Annual
	Condition			OR	Condition		Source Test
	# 19933,			< 120 ppmv dry @ 3% O ₂ ,	#19933, Part 8		
	Part 7			expressed as methane			
SO_2	BAAQMD	Y		Property Line Ground		N	
	9-1-301			Level Limits:			
				\leq 0.5 ppm for 3 minutes,			
				\leq 0.25 ppm for 60 minutes			
				& \leq 0.05 ppm for 24 hours			

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion
Engines and Generator Sets

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
SO_2	BAAQMD	Y		300 ppm (dry)	BAAQMD	P/W, M, or	Sulfur
	9-1-302				Condition #	Q (Monthly	Analysis of
					4044, Parts 16	if 3 months	landfill gas
					and 17m	data < 1300	only
						ppm,	
						Quarterly if	
						1 year of	
						data < 1300	
						ppm)	
H_2S	BAAQMD	N		Property Line ground level		N	
	9-2-301			limits ≤ 0.06 ppm			
				Averaged over 3 minutes			
				and ≤ 0.03 ppm			
				Averaged over 60 minutes			
Total	BAAQMD	Y		≤ 1300 ppmv	BAAQMD	P/W, M, or	Sulfur
Sulfur	Condition				Condition #	Q (Monthly	Analysis of
Content	# 4044,				4044, Parts 16	if 3 months	landfill gas
in	Part 7				and 17m	data < 1300	only
Landfill						ppm,	
Gas						Quarterly if	
						1 year of	
						data < 1300	
						ppm)	
NO_x	BAAQMD	Y		Fossil Fuel Gas, Lean-Burn		N	
	9-8-301.2			140 ppmv dry @ 15% O ₂			
NO_x	BAAQMD	Y		Waste Fuel Gas, Lean-Burn	BAAQMD	P/A	Annual
	9-8-302.1			140 ppmv dry @ 15% O ₂	Condition		Source Test
					#19933, Part 8		
NO_x	BAAQMD	Y			BAAQMD	P/A	Annual
	Condition			0.80 grams per brake	Condition		Source Test
	# 19933,			horsepower hour (g/bhp-hr)	#19933, Part 8		
	Part 5						

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion
Engines and Generator Sets

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
СО	BAAQMD	Y		Fossil Fuel Gas:		N	J F -
	9-8-301.3	-		2000 ppmv dry @ 15% O ₂		- 1	
СО	BAAQMD	Y		Waste Fuel Gas:	BAAQMD	P/A	Annual
	9-8-302.3	-		2000 ppmv dry @ 15% O ₂	Condition	1/11	Source Test
					#19933, Part 8		
СО	BAAQMD	Y			BAAQMD	P/A	Annual
	Condition			2.1 g/bhp-hr	Condition	-,	Source Test
	#19933,			2.1 8 2.14	#19933, Part 8		
	Part 6						
Heat	BAAQMD	Y		Limits for each engine:	BAAQMD	P/D	Records
Input	Condition			≤ 206.64 MM BTU/day	Condition		
	# 19933,			And	#19933, Part		
	Part 10			≤ 75,423.6 MM BTU/year	9a-e		
Emission	BAAQMD	N		240 hours/year	BAAQMD	P/D	Records
Control	8-34-113.2			-	8-34-501.2 and		
System					BAAQMD		
Shutdown					Condition		
Time					#19933, Part 9a		
Emission	40 CFR	Y		≤ 1 hour per event	40 CFR 60.7(b),	P/D	Records of
Control	60.755(e)				60.757(f)(2)		occurrence
System					and (f)(3), and		and duration
Startup					60.758(e)		
Shutdown							
or							
Malfunc-							
tion							
Engine	BAAQMD	Y		98% removal by weight	BAAQMD	P/M	Monthly
Exhaust	8-34-301.4			OR	Condition		Exhaust
Oxygen				< 120 ppmv dry @ 3% O ₂ ,	#19933, Part 11		Oxygen
Content				expressed as methane	and BAAQMD		Monitoring
				(as demonstrated by proper	8-34-509		and Records
				exhaust oxygen content			
				range)			

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion
Engines and Generator Sets

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Natural	BAAQMD	Y		Prohibited when flare is	BAAQMD	P/D	Records
Gas	Condition			operating and unless it is	Condition		
Usage	# 19933,			needed as supplemental	#19933,		
	Part 3			fuel	Part 9a-c		
Gas Flow	BAAQMD	Y		Vent all collected gases to	BAAQMD	С	Gas Flow
	8-34-301			a properly operating	Condition		Meter (per
	and 301.1;			control system and operate	#19933, Part 4		engine)
	BAAQMD			control system			
	Condition			continuously.			
	# 19933,						
	Parts 1 & 2						
Gas Flow	BAAQMD	Y		Vent all collected gases to	BAAQMD	С	Gas Flow
	8-34-301			a properly operating	8-34-501.10		Meter and
	and 301.1;			control system and operate	and 508		Recorder
	BAAQMD			control system			(every 15
	Condition			continuously.			minutes);
	# 19933,						
	Parts 1 & 2						
Gas Flow	40 CFR	Y		Vent all collected gases to	40 CFR	C and P/M	Gas Flow
	60.753(a)			a properly operating	60.756(b)(2)		Meter and
	and (e)			control system and operate	(i or ii) and		Recorder
				control system at all times	60.758(c)(2)		(every 15
				when gas is vented to it			minutes) or
							Monthly
							Inspection
							of Bypass
							Valve &
							Lock and
							Records

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VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-4, S-5, S-6, S-7, S-9, S-10, S-11, S-12, S-13, S-14 Lean Burn Internal Combustion
Engines and Generator Sets

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Туре
Periods of	BAAQMD	Y		15 consecutive	BAAQMD	P/D	Records of
Inopera-	1-523.2			days/incident and	1-523.4		occurrence
tion for				30 calendar days/12 month			and duration
Para-				period			
metric							
Monitors							
Contin-	40 CFR	Y		Requires Continuous	40 CFR 60.7(b)	P/D	Records of
uous	60.13(e)			Operation except for			occurrence
Monitors				breakdowns, repairs,			and duration
				calibration, and required			
				span adjustments			

VIII. TEST METHODS

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

Table VIII

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-301		
BAAQMD	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
6-310		
BAAQMD	Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or
8-2-301		EPA Reference Method 25 or 25A
BAAQMD	Energy Recovery Device and	Manual of Procedures, Volume IV, ST-7, Organic Compounds
8-34-114	Emission Control System	and ST-14, Oxygen, Continuous Sampling; or
		EPA Reference Method 18, 25, 25A, or 25C
BAAQMD	Collection and Control System	EPA Reference Method 21, Determination of Volatile Organic
8-34-301.2	Leak Limitations	Compound Leaks
BAAQMD	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds
8-34-301.3		and ST-14, Oxygen, Continuous Sampling; or
		EPA Reference Method 18, 25, 25A, or 25C
BAAQMD	Limits for Other Emission	Manual of Procedures, Volume IV, ST-7, Organic Compounds
8-34-301.4	Control Systems	and ST-14, Oxygen, Continuous Sampling; or
		EPA Reference Method 18, 25, 25A, or 25C
BAAQMD	Landfill Surface Requirements	EPA Reference Method 21, Determination of Volatile Organic
8-34-303		Compound Leaks
BAAQMD	Wellhead Gauge Pressure	APCO Approved Device
8-34-305.1		
BAAQMD	Wellhead Temperature	APCO Approved Device
8-34-305.2		
BAAQMD	Wellhead Nitrogen	EPA Reference Method 3C, Determination of Carbon Dioxide,
8-34-305.3		Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD	Wellhead Oxygen	EPA Reference Method 3C, Determination of Carbon Dioxide,
8-34-305.4		Methane, Nitrogen, and Oxygen from Stationary Sources

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VIII. Test Methods

Table VIII

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic
8-34-412		Compound Emissions by Gas Chromatography, Method 25,
		Determination of Total Gaseous Nonmethane Organic Emissions
		as Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method
		25C, Determination of Nonmethane Organic Compounds
		(NMOC) in MSW Landfill Gases
BAAQMD	Organic Content Limit for Small	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
8-40-116.2	Volume Exemption	8021B
BAAQMD	Limits on Uncontrolled Aeration	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
8-40-301	of Contaminated Soil	8021B; or EPA Reference Method 21
BAAQMD	Limitations on Ground Level	Manual of Procedures, Volume VI, Part 1, Ground Level
9-1-301	Concentrations (SO ₂)	Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide,
9-1-302	(SO ₂)	Continuous Sampling, or
		ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level
9-2-301		Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD	Fossil Derived Fuel Gas, NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,
9-8-301.2	Limits for Lean Burn Engines	Continuous Sampling and
		ST-14, Oxygen, Continuous Sampling
BAAQMD	Fossil Derived Fuel Gas, CO	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,
9-8-301.3	Limits	Continuous Sampling and
		ST-14, Oxygen, Continuous Sampling
BAAQMD	Waste Derived Fuel Gas NOx	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,
9-8-302.1	Limits for Lean Burn Engines	Continuous Sampling and
		ST-14, Oxygen, Continuous Sampling
BAAQMD	Waste Derived Fuel Gas CO	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,
9-8-302.3	Limits	Continuous Sampling and
		ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic
		Compound Emissions by Gas Chromatography, Method 25,
		Determination of Total Gaseous Nonmethane Organic Emissions
		as Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method
		25C, Determination of Nonmethane Organic Compounds
		(NMOC) in MSW Landfill Gases
40 CFR	NMOC Outlet Concentration and	EPA Reference Method 18, Measurement of Gaseous Organic
60.752	Destruction Efficiency Limits	Compound Emissions by Gas Chromatography, Method 25,
(b)(2)(iii)(B)		Determination of Total Gaseous Nonmethane Organic Emissions
		as Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method
		25C, Determination of Nonmethane Organic Compounds
		(NMOC) in MSW Landfill Gases
40 CFR	Wellhead Pressure	APCO Approved Device
60.753(b)		
40 CFR	Temperature, N ₂ , and O ₂	EPA Reference Method 3C, Determination of Carbon Dioxide,
60.753(c)	concentration in wellhead gas	Methane, Nitrogen, and Oxygen from Stationary Sources
40 CFR	Methane Limit at Landfill	EPA Reference Method 21, Determination of Volatile Organic
60.753(d)	Surface	Compound Leaks
BAAQMD		
Condition #		
4044		
Part 2	Ringelmann No. 0.5 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
Part 6, Part 15	Toxic Air Contaminants in	GC Analysis for all organic compounds listed in AP-42 Chapter
	Landfill Gas	2.4 (excluding acetone)
Part 7	Total Sulfur Content in Landfill	APCO Approved Draeger Tube Method
	Gas	
Part 10	Combustion Temperature	APCO Approved Continuous Temperature Monitor
Part 18	Handling Procedures for Soil	EPA Reference Methods 8015B, 8021B, or any method
	Containing Volatile Organic	determined to be equivalent by the US EPA and approved by the
	Compounds	APCO

VIII. Test Methods

Table VIII

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
Part 19	Total Carbon Emission Limit for Use or Disposal of Soil Containing VOCs	VOC Content as determined by EPA Reference Methods 8015B, 8021B (or any method determined to be equivalent by the US EPA and approved by the APCO) and converted to Total Carbon as defined in BAAQMD Regulation 8-2-202. Total Carbon
		Emissions determined by APCO approved equation described in BAAQMD Condition #4044, Part 19.c.
Part 20	Flare Heat Input Limits	APCO approved calculation procedure described in BAAQMD Condition # 4044, Part 20
BAAQMD Condition # 19933		
Part 5	NO _x Limit	Manual of Procedures, Volume IV, Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 20
Part 6	CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 10
Part 7	NMOC Limit	Manual of Procedures, Volume IV, ST-14, Oxygen, Continuous Sampling, and either Manual of Procedures, Volume IV, ST-7, Organic Compounds OR EPA Reference Method 18, 25, 25A, or 25C
Part 10	Internal Combustion Engine Heat Input Limits	APCO approved calculation procedure described in BAAQMD Condition #19933, Part 9e
Part 11	Engine Exhaust Oxygen Concentration	APCO Approved Devices and Location

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

IX. REVISION HISTORY

Initial Title V Permit (Application 25840):

February 27, 2001

Significant Revision (Applications 4970, 6532):

March 29, 2004

- Change the Responsible Official from Edward J. Walker to David D. Knight.
- Update Mailing Address on the Title Page.
- Increase the permitted capacity of the Landfill S-1.
- Annotate the maximum design capacity of the landfill to clarify that final cover materials are excluded.
- Annotate the daily waste acceptance rate limit to allow for temporary exceptions during LEA approved emergency situations.
- Update the number of gas collection wells.
- Add S-13 and S-14, Lean Burn Internal Combustion Engine Generator Sets.
- Revise and update standard text in permit.
- Update Generally Applicable Requirements.
- Update Federally Enforceable Requirements and remove future effective dates that have past in the Applicable Requirements for the Landfill S-1 (Tables IV-A and VII-A).
- Add the Applicable Requirements for Landfill Gas Flare A-2 to those for the Landfill in Table IV-A and delete the existing separate Applicable Requirements table for the Flare (Table IV-D).
- Transfer the requirements of Regulation 11, Rules 1, 3, and 14 from Tables IV-A, VII-A, and VIII to Table III, Generally Applicable Requirements.
- Add the future Applicable Requirements of the NESHAP for Municipal Solid Waste Landfills (40 CFR 63, Subpart AAAA) to Table IV-A.
- Group the Applicable Requirements for all of the Lean Burn Internal Combustion Engine Generator Sets into a single table (Table IV-B) and delete the existing Applicable Requirements table for IC Engines S-9 through S-12 (Table IV-C).
- Update Federally Enforceable Requirements and remove expired requirements and future effective dates that have past in the Applicable Requirements for the IC Engines (Tables IV-B and VII-B).
- Replaced the Regulation 8, Rule 34 "enclosed combustor" temperature monitoring requirements (Regulations 8-34-507 and 8-34-501.3) for the IC Engines S-9 through S-12 with Regulations 8-34-509 and 8-34-501.11 (key emission control system operating parameters).
- Modify the permit conditions for the Landfill S-1 (Condition #4044) to account for the East Canyon expansion and new well construction.
- Remove part 20 from Permit Condition #4044 and Tables IV-A, VII-A, and VIII, because Docket #2656 has been terminated.
- Add the new IC Engines S-13 and S-14 to Permit Condition #19933 (formerly #6117) and remove outdated text.
- Modify the emissions limits in Permit Condition #19933 as approved in Permit Application #6178.
- Add an exhaust gas temperature monitoring requirement for the IC engines to Permit Condition #19933 to outline how compliance with Regulation 8-34-509 "Key Emission Control System Operating Parameters" will be demonstrated.

IX. Revision History

- Extend the time for submitting annual source test results for the Flare and IC Engines to 60 days after the test date.
- Remove acetone, carbon monoxide and mercury from list of compounds to be included in the annual landfill gas characterization test.
- Remove wind speed monitoring requirement from Permit Condition #4044 part 17.p.
- Combine the Applicable Limits and Compliance Monitoring Requirements for the A-2 Flare with those for the S-1 Landfill in Table VII-A and delete the existing Flare requirements in Table VII-D.
- Combine the Applicable Limits and Compliance Monitoring Requirements for all Landfill Gas Fired IC Engines into Table VII-B and delete Table VII-C.
- Correct erroneous opacity monitoring requirements for the Flare A-2 in Table VII-A.
- Remove outdated SIP requirements from Table VIII, Test Methods.
- Add Section IX Revision History.
- Add terms to Section X Glossary.

Significant Revision (Application 9277):

October 3, 2005

- Update the dates of adoption and approval of rules in Standard Condition 1.A
- Add "application shield" language to Standard Condition I.B.
- Add Standard Condition I.B.11, (which requires the responsible official to certify all
 documents submitted) to conform to the most recent version of Regulation 2, Rule
- Add Standard Condition I.E.1, that requires the permit holder to provide any information, records, and reports requested or specified by the APCO. The condition was inadvertently omitted in the initial permit.
- Modify Standard Condition I.H to conform to the current standard.
- Add Standard Condition I.J to clarify that the capacity limits prescribed in Table II-A are enforceable limits.
- Update standard text to clarify that the capacity limits prescribed in Table II-A are enforceable limits.
- Update the number of gas collection wells and collectors to account for recent construction activities.
- Add language to Section III to clarify that this section contains requirements that may apply to temporary sources.
- Modify Section III to say that SIP standards are now found on EPA's website and are not included as part of the permit. The updated website address has been added.
- Update Table III to remove outdated SIP requirements and add rules and requirements as necessary to conform to the current District standard.
- Update the dates of adoption or approval of the rules and their "federal enforceability" status in Table III.
- Modify Section IV to state that SIP standards are now found on EPA's website and are not included as part of the permit. The updated website address has been added.
- Update Table IV-B to account for the proposed changes to the IC engine parameter monitoring. Because the engines will be using alternative monitoring parameters, it was determined that most of 40 CFR 60.758(b) does not apply.

IX. Revision History

- Update the number of gas collection wells and collectors in Condition #4044, Part 4 to account for recent construction activities.
- Ammended Parts 9 and 11 of Condition #19933 to reflect the alternative IC engine monitoring standard requested by Sonoma County.
- Update standard text in Section VII for clarity and to state that Sections I-VI take precedence if there is a conflict with the VII Tables.
- Update Table VII-B to account for the changes to IC engine parameter monitoring.
- Update Table VIII to account for the proposed changes to parameter monitoring.

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• Delete Section XI "State Implementation Plan". The address for EPA's website is now found in Sections III and IV.

Plant Name: Sonoma County Central Landfill

Permit for Site #: A2254

X. GLOSSARY

ACT

Federal Clean Air Act

APCO

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

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

Basis

The underlying authority which allows the District to impose requirements.

CAA

The federal Clean Air Act

CAAOS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CARB

California Air Resources Board (same as ARB)

CEQA

California Environmental Quality Act

CFR

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

CH4 or CH₄

Methane

\mathbf{CO}

Carbon Monoxide

IX. Revision History

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

EG

Emission Guidelines

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), and also 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.

H2S or H2S

Hydrogen Sulfide

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to $60\,^{\circ}\text{F}$ and all water vapor is condensed to liquid.

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LFG

Landfill gas

Plant Name: Sonoma County Central Landfill

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IX. Revision History

LHV

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

Major Facility

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

MAX or Max.

Maximum

MFR

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

MIN or Min.

Minimum

MOP

The District's Manual of Procedures.

MSW

Municipal solid waste

MW

Molecular weight

N2 or N₂

Nitrogen

NA

Not Applicable

NAAOS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

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NMHC

Non-methane Hydrocarbons (same as NMOC).

IX. Revision History

NMOC

Non-methane Organic Compounds (same as NMHC).

NOx or NO_x

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR

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

$O2 \text{ or } O_2$

Oxygen

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM10 or PM₁₀

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

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Permit for Site #: A2254

IX. Revision History

PSD

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

RMP

Risk Management Plan

\mathbf{S}

Sulfur

SIP

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

SO2 or SO₂

Sulfur dioxide

SSM

Startup, Shutdown, or Malfunction

SSM Plan

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

THC

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

Title V

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

TOC

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

TPH

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Policy.

IX. Revision History

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Symbols:

< = less than > = greater than

 \leq = less than or equal to \geq = greater than or equal to

Units of Measure:

bhp brake-horsepower = btu **British Thermal Unit** = BTU **British Thermal Unit** °C degrees Centigrade = cfm cubic feet per minute = dscf dry standard cubic feet ٥F degrees Fahrenheit

 ft^3 = cubic feet g = grams gal = gallon

gpm = gallons per minute

gr = grains hp = horsepower hr = hour

lb = pound lbmol = pound-mole in = inches

 m^2 = square meter

 m^3 cubic meters = minute min = millimeter mm = MM million = MM BTU= million BTU million cubic feet MMcf

Mg = mega grams ppb = parts per billion

ppbv = parts per billion, by volume

ppm = parts per million

IX. **Revision History**

ppmv parts per million, by volume = parts per million, by weight ppmw = psia pounds per square inch, absolute = pounds per square inch, gauge psig = scf

standard cubic feet =

scfm standard cubic feet per minute =

standard dry cubic feet sdcf =

standard dry cubic feet per minute sdcfm

yd yard

 yd^3 cubic yards =

year yr =

Revision Date: October 3, 2005

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