

# Bay Area Air Quality Management District

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

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~~Final~~Proposed

## MAJOR FACILITY REVIEW PERMIT

Issued To:

**BFI – The Recyclery and International Disposal Corporation of CA  
(Newby Island Landfill)  
Facility # A5472 and Facility # A9013**

**Facility Address:**

1601 Dixon Landing Road  
Milpitas, CA 95035

**Mailing Address:**

Same As Above

**Responsible Official**

Gil Chesno, Plant Manager  
(408) 945-2802

**Facility Contact**

Gil Chesno, Plant Manager  
(408) 945-2802

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**Type of Facility:** Class III Landfill and Recyclery  
**Primary SIC:** 4953  
**Product:** Solid Waste

**BAAQMD Permit Division Contact:**  
~~Robert T. Hull~~ Randy E. Frazier

**ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

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

February 5, 2004  
Date

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## I. STANDARD CONDITIONS

### A. Administrative Requirements

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

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

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

1. This Major Facility Review Permit was issued on February 5, 2004 and expires on January 31, 2009. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than July 31, 2008, and no earlier than January 31, 2008. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after January 31, 2009.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
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)

## **I. Standard Conditions**

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

### **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 that is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

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

### F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be February 5, 2004 to July 31, 2004. The report shall be submitted by August 31, 2004. Subsequent reports shall be for the following periods: August 1<sup>st</sup> through January 31<sup>st</sup> and January 1<sup>st</sup> through July 31<sup>st</sup>, 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 1<sup>st</sup> to January 31<sup>st</sup>. The certification shall be submitted by February 28<sup>th</sup> of each year (or February 29<sup>th</sup> during leap years). The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division  
USEPA, Region IX

## **I. Standard Conditions**

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)

## II. EQUIPMENT

**Table II A - Permitted Sources**

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

S-#	Description	Make or Type	Model	Capacity
S-2	Newby Island Sanitary Landfill, with Gas Collection System (Facility # A9013)	An active solid waste disposal site that accepts municipal, commercial, agricultural, industrial, construction, and demolition wastes and that is equipped with an active landfill gas collection system.		Maximum Design Capacity = 50.8 E6 yd <sup>3</sup> Maximum Predicted Total Waste In Place = 39.0 E6 tons Maximum Waste Acceptance Rate = 4,000 tons/day  Vertical Wells = <del>123</del> 179 <u>Permitted to install up to 40 additional vertical wells</u>
S-3	Composting Operation (Facility # A5472)	Composting, Storage, and Material Handling		N/A
S-4	Gasoline Dispensing Facility (Facility # A9013 and G# 9641)	Phase I/Phase II Vapor Recovery		500 gallon capacity tank, 1 gasoline nozzle
S-5	Tub Grinder (Facility # A5472)	Diamond-Z	PWG 1463	80 tons/hour
S-6	Tub Grinder Engine, diesel fired (Facility # A5472)	Caterpillar	3412 DITA	750 BHP, 3.84 MM BTU/hr, 28.0 gal/hr diesel
S-7	Trommel Screen (Facility # A5472)	Power Screen	#616	30 tons/hour

**Table II B – Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-1	Landfill Gas Flare #1 (Facility # A9013)	S-2	BAAQMD Regulation 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of <del>1549-1525</del> °F, see also Table VII-A	Either 98% by weight destruction of NMOC, or < 30 ppmv NMOC (as CH <sub>4</sub> at 3% O <sub>2</sub> , dry)
A-2	Landfill Gas Flare #2 (Facility # A9013)	S-2	BAAQMD Regulation 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of 1400 °F, see also Table VII-A	Either 98% by weight destruction of NMOC, or < 30 ppmv NMOC (as CH <sub>4</sub> at 3% O <sub>2</sub> , dry)

## II. Equipment

**Table II B – Abatement Devices**

<b>A-#</b>	<b>Description</b>	<b>Source(s) Controlled</b>	<b>Applicable Requirement</b>	<b>Operating Parameters</b>	<b>Limit or Efficiency</b>
A-3	Water Truck (Facility # A5472)	S-3	BAAQMD Regulation 6-301	None	Ringelmann No. 1
A-7	Water Sprays (Facility # A5472)	S-5, S-7	BAAQMD Regulation 6-301	None	Ringelmann No. 1



### III. GENERALLY APPLICABLE REQUIREMENTS

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

The dates in 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 included at the end of this permit.

**NOTE:**

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

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y

### III. Generally Applicable Requirements

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
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
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (2/18/98)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02)	N
SIP Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/02)	N
SIP Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (12/9/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants – Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants - Asbestos Containing Serpentine (7/17/91)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y

#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

The dates in 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 included at the end of this permit. All other text may be found in the regulations themselves.

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/2001)</b>		
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	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (6/28/1999)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y <sup>1</sup>	
1-523.3	Reports of Violations	Y <sup>1</sup>	
1-523.5	Maintenance and calibration	Y <sup>1</sup>	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	

#### IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to A-1 <del>only</del> & A-2 <del>only</del> )	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds – Miscellaneous Operations (3/22/1995)</b>		
8-2-301	Miscellaneous Operations (applies to low VOC soil handling and disposal activities only)	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds – Solid Waste Disposal Sites (10/6/1999)</b>		
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 System Design Plan	Y	
8-34-117.3	Meet Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
8-34-118.1	Construction Plan	Y	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4	Emission Minimization Requirement	Y	
8-34-118.5	Excavated Refuse Requirements	Y	

#### IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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 (applies to A-1 & A-2 only)	Y	
8-34-301.4	Limits for Other Emission Control Systems (Permit Holder shall ensure that Facility # B1670 will comply with this requirement whenever landfill gas is vented to the IC Engines: S-2, S-3, S-4, S-5, S-8, S-9, S11; at Facility # B1670)	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	
8-34-408	Collection and Control System Design Plans	Y	
8-34-408.2	Sites With Existing Collection and Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-414	Repair Schedule for Wellhead Excesses	Y	
8-34-414.1	Records of Excesses	Y	
8-34-414.2	Corrective Action	Y	
8-34-414.3	Collection System Expansion	Y	
8-34-414.4	Operational Due Date for Expansion	Y	

#### IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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 (applies to A-1 & A-2 only)	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	
8-34-501.11	Records of Key Emission Control System Operating Parameters (Permit Holder shall ensure that Facility # B1670 will comply with this requirement whenever landfill gas is vented to the IC Engines: S-2, S-3, S-4, S-5, S-8, S-9, S11; at Facility # B1670)	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	

## IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-507	Continuous Temperature Monitor and Recorded (applies to A-1 & A-2 only)	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key Emission Control System Operating Parameter(s) (Permit Holder shall ensure that Facility # B1670 will comply with this requirement whenever landfill gas is vented to the IC Engines: S-2, S-3, S-4, S-5, S-8, S-9, S11; at Facility # B1670)	Y	
8-34-510	Cover Integrity Monitoring	Y	
<b>BAAQMD Regulation 8, Rule 40</b>	<b>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/1999)</b>		
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 exceed 500 ppmw, may be used only once per quarter	Y	
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	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)</b>		
9-1-301	Limitations on Ground Level Concentrations (applies to A-1/A-2 only)	Y	
9-1-302	General Emission Limitations (applies to A-1/A-2 only)	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/1999)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/1998)</b>		

#### IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	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	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/1999)</b>		
60.36c(a)	Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	
<b>40 CFR Part 62</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)</b>		
62.1115	Identification of Sources	Y	
<b>40 CFR Part 63, Subpart A</b>	<b>National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/1994)</b>		
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	



#### IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
<b>40 CFR Part 63, Subpart AAAA</b>	<b>National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/2003)</b>		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
<b>BAAQMD Condition # 10423</b>			
Part 1	Design capacity and waste acceptance rate limits (Regulations 2-1-234.3 and 2-1-301)	Y	
Part 2	Handling procedures for soils containing VOCs (Regulation 8-40-301, 8-40-304, and 8-40-305)	Y	

## IV. Source Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Emission limit for low VOC soils (Regulation 8-2-301)	Y	
Part 4	Particulate emission control measures (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 5	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	
Part 6	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, and 8-34-305 )	Y	
Part 7	Landfill gas collection system operating requirements (Regulation 8-34-301.1)	Y	
Part 8	Flare heat input limits (Regulation 2-1-301)	Y	
Part 9	Flare temperature limits (Toxic Risk Management Policy and Regulation 8-34-301.3)	Y	
Part 10a	<del>Landfill gas sulfur content limit and monitoring requirements</del> <u>Emission Limits for total reduced sulfur.</u> (Regulation 9-1-302)	Y	
Part 10b	<u>Limits for flare gas NOx (RACT, Cumulative Increase)</u>		
Part 11	Annual source test (Regulations 8-34-301.3 and 8-34-412)	Y	
Part 12	Annual landfill gas characterization test (Toxic Risk Management Policy and Regulation 8-34-412)	Y	
Part 13	Record keeping requirements (Regulations 2-1-301, 2-6-501, 6-301, 6-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)	Y	
Part 14	Reporting periods and report submittal due dates for the Regulation 8, Rule 34 report (Regulation 8-34-411 and 40 CFR 63.1980(a))	Y	

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

**Table IV – B**  
**Source-Specific Applicable Requirements**  
**S-3 COMPOSTING OPERATION**  
**A-3 WATER TRUCK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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#### IV. Source Specific Applicable Requirements

**Table IV – B  
 Source-Specific Applicable Requirements  
 S-3 COMPOSTING OPERATION  
 A-3 WATER TRUCK**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Condition #8178</b>			
Part 1	Particulate emission control measures – material handling (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 2	Particulate emission control measures – roadways (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 3	Visible emissions and dust fallout (Regulations 1-301, 2-1-403, 6-301, and 6-305)	Y	
Part 4	Observation of Emissions Source (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 5	“Public Nuisance” permitting requirement (Regulations 1-301 and 2-1-317)	N	

**Table IV – C  
 Source-Specific Applicable Requirements  
 S-4 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 9641**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/2002)</b>		
8-5-301	Storage Tank Control Requirements	N	
8-5-303	Requirements for Pressure Vacuum Valves	N	
8-5-501	Records	N	
8-5-501.1	Types and amounts of materials stored	N	

#### IV. Source Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-4 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 9641**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>SIP Regulation 8, Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (10/10/2001)</b>		
8-5-301	Storage Tanks Smaller Than 150 m <sup>3</sup>	Y <sup>1</sup>	
8-5-301.1	Submerged Fill Pipe	Y <sup>1</sup>	
8-5-302	Above Ground Gasoline Storage Tanks Smaller Than 75 m <sup>3</sup>	Y <sup>1</sup>	
<b>BAAQMD Regulation 8, Rule 7</b>	<b>Organic Compounds, Gasoline Dispensing Facilities (11/6/2002)</b>		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-114	Stationary Tank Testing Exemption	Y	
8-7-116	Periodic Testing Requirements Exemption	N	
8-7-301	Phase I Requirements		
8-7-301.1	Requirements for Transfers into Stationary Tanks, Cargo Tanks, and Mobile Refuelers	Y	
8-7-301.2	CARB Certification Requirements	Y	
8-7-301.3	Submerged Fill Pipe Requirement	Y	
8-7-301.5	Maintenance and Operating Requirement	Y	
8-7-301.6	Leak-Free and Vapor Tight Requirement for Components	Y	
8-7-301.7	Fitting Requirements for Vapor Return Line	Y	
8-7-301.8	Coaxial Phase I Systems Certified by CARB prior to January 1, 1994 may not be installed on New or Modified Systems	Y	
8-7-301.9	Anti-rotational Coupler or Swivel Adapter Required	Y	
8-7-301.10	Vapor Recovery Efficiency Requirements for New and Modified Systems	Y	
8-7-301.12	Spill Box Drain Valve Limitation	Y	
8-7-301.13	Annual Vapor Tightness Test Requirement	N	
8-7-302	Phase II Requirements		
8-7-302.1	Requirements for Transfers into Motor Vehicle Fuel Tanks	Y	
8-7-302.2	Maintenance Requirement	Y	
8-7-302.3	Proper Operation and Free of Defects Requirements	N	
8-7-302.4	Repair Time Limit for Defective Components	N	
8-7-302.5	Leak-Free and Vapor Tight Requirement for Components	Y	
8-7-302.6	Requirements for Bellows Nozzles	Y	
8-7-302.7	Requirements for Vapor Recovery Nozzles on Balance Systems	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	

#### IV. Source Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-4 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 9641**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-7-302.9	Coaxial Hose Requirement	Y	
8-7-302.10	Construction Materials Specifications	N	
8-7-302.12	Liquid Retain Limitation	N	
8-7-302.13	Nozzle Spitting Limitation	N	
8-7-302.14	Annual Back Pressure Test Requirements for Balance Systems	N	
8-7-302.15	Annual Testing Requirements for Vacuum Assist Systems	N	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	N	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirement	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-314	Hold Open Latch Requirements	Y	
8-7-316	Pressure Vacuum Valve Requirements, Aboveground Storage Tanks and Vaulted Below Grade Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-407	Periodic Testing Requirements	N	
8-7-408	Periodic Testing Notification and Submission Requirements	N	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Recordkeeping Requirements	Y	
8-7-503.1	Gasoline Throughput Records	Y	
8-7-503.2	Maintenance Records	Y	
8-7-503.3	Records Retention Time	N	
<b>SIP Regulation 8, Rule 7</b>	<b>Organic Compounds, Gasoline Dispensing Facilities (7/25/2001)</b>		
8-7-302.3	Proper Operation and Free of Defects Requirements	Y <sup>1</sup>	
8-7-302.4	Repair Time Limit for Defective Components	Y <sup>1</sup>	
8-7-302.10	Construction Materials Specifications	Y <sup>1</sup>	
8-7-302.12	Liquid Retain Limitation	Y <sup>1</sup>	
8-7-302.13	Nozzle Spitting Limitation	Y <sup>1</sup>	
8-7-306	Prohibition of Use	Y <sup>1</sup>	
8-7-503.3	Records Retention Time	Y <sup>1</sup>	

#### IV. Source Specific Applicable Requirements

**Table IV – C**  
**Source-Specific Applicable Requirements**  
**S-4 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 9641**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Condition # 14098</b>	<b>Gasoline Throughput Limit (Toxic Risk Management Policy)</b>	N	
<b>State of California, Air Resources Board, Executive Order G-70-148-A</b>	<b>Certification of Hoover Containment Systems, Inc. “Lube Cube” Aboveground Filling/Dispensing Vapor Recovery System (05/04/1995)</b>		
Paragraph 9	Tank Design Configuration Limitations	N	
Paragraph 10	Emergency Vent and Manway Requirement	N	
Paragraph 11	Requirement to Use ARB Certified Phase I and Phase II Systems	N	
Paragraph 12	Requirements for Phase I Components and Piping Configurations	N	
Paragraph 13	Requirements for the Routing of the Coaxial Hose and for Liquid Traps	N	
Paragraph 14	P/V Valve Requirements	N	
Paragraph 15	Tank Insulation Requirements	N	
Paragraph 16	Tank Exterior Surface Requirements	N	
Paragraph 17	Requirement to Comply with Local Air District Rules	N	
Paragraph 20	Requirements for Deliveries from a Cargo Truck	N	
Paragraph 21	Leak Checking Requirements	N	
Paragraph 22	Requirement to Comply with Local Fire Official’s Requirements	N	
Paragraph 23	Requirement to Comply with Other Specified Rules and Regulations	N	
Paragraph 24	Prohibition on Alteration of Equipment, Parts, Design, or Operation	N	
Paragraph 25	This Order Supersedes EO G-70-116-E (4/1/95)	N	

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

#### IV. Source Specific Applicable Requirements

**Table IV – D**  
**Source-Specific Applicable Requirements**  
**S-5 TUB GRINDER**  
**S-7 TROMMEL SCREEN**  
**A-7 WATER SPRAY**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-311	Process Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Condition # 15050</b>			
Part 1	Hours of Operation (Cumulative Increase)	Y	
Part 2	Records of Operating Hours (Cumulative Increase)	Y	
Part 3	Particulate emission control measures (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 4	Visible emissions and dust fallout (Regulations 1-301, 2-1-403, 6-301, and 6-305)	Y	
Part 5	Observation of Emissions Source (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 6	“Public Nuisance” permitting requirement (Regulations 1-301 and 2-1-317)	N	

**Table IV – E**  
**Source-Specific Applicable Requirements**  
**S-6 TUB GRINDER ENGINE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	

#### IV. Source Specific Applicable Requirements

**Table IV – E  
 Source-Specific Applicable Requirements  
 S-6 TUB GRINDER ENGINE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Liquid and Solid Fuels	Y	
<b>BAAQMD Condition # 19498</b>			
Part 1	Daily Usage Limit (Cumulative Increase)	Y	
Part 2	POC Emissions Limit (BACT)	Y	
Part 3	NO <sub>x</sub> Emissions Limit (BACT)	Y	
Part 4	CO Emissions Limit (BACT)	Y	
Part 5	Low Sulfur Fuel Requirement, Demonstration of Sulfur Content (BACT, Cumulative Increase, and Regulation 9-1-304)	Y	
Part 6	Annual Source Test Requirement (BACT and Regulation 2-1-403)	Y	
Part 7	Observation of Emissions Source (Regulations 2-1-403 and 6-301)	Y	
Part 8	Daily Records of Usage and Fuel Consumption (Cumulative Increase)	Y	



## **V. SCHEDULE OF COMPLIANCE**

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

## VI. PERMIT CONDITIONS

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

### **Condition # 8178**

For: S-3, COMPOSTING OPERATION; AND A-3, WATER TRUCK

1. The yard waste unloading, stockpiling, and loading of composted material that constitute S-3 shall be abated as necessary by the A-3 water spray to prevent visible dust emissions. Dry, dusty material shall be wetted down before unloading from truck beds as necessary to prevent visible emissions. (basis: Regulations 2-1-403, 6-301, and 6-305)
2. All roadways associated with this facility shall be maintained in a clean or wetted condition as necessary to prevent visible dust emissions. (basis: Regulations 2-1-403, 6-301, and 6-305)
3. Visible dust emissions from any part of the facility shall not exceed Ringelmann 1.0 or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulations 1-301, 2-1-403, 6-301, and 6-305)
4. Observation for visible particulate emissions is required at all times that material is actively being handled at this source. If visible emissions are detected, the operator of the source shall take the necessary corrective action to stop the emissions. (basis: Regulations 2-1-403, 6-301, and 6-305)
5. If the plant receives 2 or more Violation Notices from the District for "Public Nuisance" in any consecutive 180-day period, the owner/operator of this facility 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 that the District deem necessary and appropriate. (basis: Regulation 2-1-403)
  - a. Complete enclosure of all operations in a warehouse-like building
  - b. The use of a chemical suppressant to control dust from roadways at the facility
  - c. The paving of all roadways at the facility

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

1. The Permit Holder shall comply with the following waste acceptance and disposal limits and shall obtain the appropriate New Source Review permit, if one of the following limits is exceeded:
  - a. Total waste accepted and placed at the landfill shall not exceed 4,000 tons in any day. (Basis: Regulation 2-1-301)
  - b. The total cumulative amount of all waste placed in the landfill is predicted to be 39.0 million tons. However, an exceedance of this amount is not a violation of the permit and does not trigger the requirement to obtain a New Source review permit, if the operator can, within 30 days of the date of discovery of the exceedance, provide documentation to the District demonstrating that the tonnage capacity should be higher. (Basis: Regulation 2-1-301)
  - c. The maximum design capacity of the landfill (total volume of all wastes and cover materials placed in the landfill, excluding final cover) shall not exceed 50.8 million cubic yards. (Basis: Regulation 2-1-301)
  
- \*2. Handling Procedures for Soil Containing Volatile Organic Compounds
  - a. The procedures listed below in subparts b-l do not apply if the following criteria are satisfied. However, the recordkeeping requirements in subpart m, below, are applicable.
    - 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). The handling of soil containing VOCs in concentrations below the “contaminated” level is subject to Part 3 below.
    - 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.

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

- b. The Permit Holder shall provide verbal notification to the Compliance and Enforcement Division of the Permit Holder's intention to accept contaminated soil at the facility at least 24 hours in advance of receiving the contaminated soil. The Permit Holder shall provide an estimate of the amount of contaminated soil to be received, the degree of contamination (range and average VOC Content), and the type or source of contamination.
- c. 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 set forth in subparts e-1, 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. Co-mingling, 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 is no longer contaminated and shall be handled in accordance with the procedures in Part 3 instead of Part 2, subparts e.-1.
- d. Any contaminated soil received at the facility shall be clearly identified as contaminated soil, shall be handled in accordance with subparts e-1 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.

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

- e. 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 off-site transport vehicles into a temporary storage pile is 1 transfer. Moving soil from a temporary storage to a staging area is 1 transfer. Moving soil from a temporary storage pile to a final disposal site is 1 transfer. Moving soil from a staging area to a final disposal site is 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 is 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 is 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 is 3 on-site transfers and is not allowed.
- f. 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.
- g. 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.
- h. 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 ft<sup>2</sup>. 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.

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

- i. 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).
- j. The Permit Holder 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 ft<sup>2</sup>.

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

- viii. Ensure that contaminated soil 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.
- 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.
- k. 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.
- l. 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 purposes of 8-34-111 or 8-34-304.
- m. 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.
  - iii. 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).

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

- 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.

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: Regulations 8-40-301, 8-40-304 and 8-40-305)

- 3. The Permit Holder shall limit the quantity of low VOC soil (soil that contains 50 ppmw or less of VOCs) disposed of per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. In order to demonstrate compliance with this condition, the Permit Holder shall maintain the following records in a District approved log.
  - a. Record on a daily basis the amount of low VOC soil disposed of in the landfill or used as cover material in the landfill. This total amount (in units of pounds per day) is Q in the equation in subpart c. below.
  - b. Record on a daily basis the VOC content of all low VOC soils disposed of or used as cover material. This VOC Content (C in the equation below) is to be expressed as parts per million by weight as total carbon.
  - c. Calculate and record on a daily basis the VOC Emission Rate (E) using the following equation:  
$$E = Q * C / 10^6$$

(basis: Regulation 8-2-301)

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



## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

5. All collected landfill gas shall be controlled by one of the following means: (1) the IC engine power generators operated by Gas Recovery Systems (Facility # B1670), (2) the IC engine power generators operated by the San Jose/Santa Clara Water Pollution Control Plant (Facility #A778), or the on-site Landfill Gas Flares (A-1 and/or A-2). Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair, which is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118, and component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)
  
6. ~~The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system. Increasing or decreasing the number of wells or collectors, changing the length of collectors, or changing the locations of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.~~ The S-2 Newby Island Sanitary Landfill shall be equipped with a landfill gas collection system which shall be operated continuously as defined in Regulation 8-34-219. Wells, collectors, and adjustment valves shall not be disconnected, removed, or completely closed, without prior written authorization from the District, unless the Permit Holder complies with all applicable provisions of Regulation 8, Rule 34, Sections 113, 116, 117, and 118.
  - a. The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below as of December 15, 2005. Well and collector locations, depths, and lengths are as described in detail in Permit Applications #2405 ~~and~~, #2563, and #8121. The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas system described below. Increasing or decreasing the number of vertical wells or horizontal collectors are considered modifications that are subject to this Authority to Construct requirement. Adding or modifying risers, laterals, or header pipes are not subject to this Authority to Construct requirement. The authorized number of landfill gas collection system components is the baseline count listed below plus any components added and minus any components decommissioned pursuant to Part 6b as evidenced by start-up/shut-down notification letters submitted to the District.

Current

## VI. Permit Conditions

Total Number of Vertical Wells:	123
- 179 Vertical Wells	

- b. ~~The Permit Holder has been issued an Authority to Construct for the additional landfill gas collection system components listed below as of December 15, 2005. Specific well locations, depths, and lengths of associated piping are as described in detail in Permit Application #8121. Well and collector locations, depths, and lengths are described in Permit Application #13071. After receiving a written start-up notification for any wells or collectors that have been installed, the APCO will revise the number of wells listed in Parts 6a and 6b using the minor permit amendment procedures identified in Regulation 2-6-414.~~

	Proposed
Additional Number of Wells and Collectors:	
(Vertical)	69
(Horizontal)	8

- Install up to 40 vertical wells.
- Decommission up to 11 vertical wells.
- Install header valves, risers, and connections between existing horizontal collectors, as needed, to optimize gas collection and maintain compliance with Regulation 8 Rule 34.
- Modify well head monitoring locations, as needed, provided that each landfill gas collection system component identified in Part 6a and each new collection system component installed per 6b is adequately represented by a wellhead monitoring location. The Permit Holder shall maintain documentation on site that identifies all landfill gas collection system components that are represented by each wellhead monitoring location.

(basis: Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, 8-34-305)

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

7. The landfill gas collection system described in part 6 shall be operated continuously. Wells shall not be shut off, disconnected, or removed from operation without written authorization from the APCO, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)
8. The heat input to the ~~A-1~~ Landfill Gas Flares shall not exceed the following limits: 2,006 million BTU per day and shall not exceed 732,095 million BTU per year.
  - a. A-1 Landfill Gas Flare #1: 2,006 million BTU per day nor 732,095 million BTU per year.
  - b. A-2 Landfill Gas Flare #2: 1,800 million BTU per day not 657,000 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: (a) the landfill gas flow rate recorded pursuant to part 13h, (b) the average methane concentration in the landfill gas that was determined during the most recent source test, (c) and a high heating value for methane of 1013 BTU/ft<sup>3</sup> at 60 degrees F. (basis: Regulation 2-1-301)

9. ~~Effective May 1, 2003, the combustion zone temperature of for A-1 shall be maintained at a minimum of 1549 degrees Fahrenheit, averaged over any 3-hour period.~~ Combustion Zone Minimum Temperature Limitations:
  - a. A-1 Landfill Gas Flare #1: The minimum combustion zone temperature for the A-1 Landfill Gas Flare #1 shall be maintained at a minimum of 1525 degrees F, averaged over any 3-hour period.
  - b. A-2 Landfill Gas Flare #2: The minimum combustion zone temperature for the A-2 Landfill Gas Flare #1 shall be maintained at a minimum of 1400 degrees F, averaged over any 3-hour period.

If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO ~~will~~ may revise this minimum temperature limit in accordance with the ~~administrative permit amendment~~ procedures identified in Regulation 2-6-413 or 2-6-415 based on ~~and~~ the following criteria ~~procedures~~. The minimum combustion zone temperature measured ~~for~~

## VI. Permit Conditions

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

~~the A-1 Landfill Gas Flare shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature is not less than 1400 degrees F. (basis: Toxic Risk Management Policy and Regulation 8-34-301.3)~~

#### 10. Emission Limits

a. Total reduced sulfur compounds: The total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in the control system's exhaust. The concentration of total reduced sulfur compounds (measured as hydrogen sulfide) in the collected landfill gas shall not exceed the following limits (dry, calculated as H<sub>2</sub>S):

1) 1300 ppmv (dry) for any single test (basis: Regulation 9-1-302);

2) 300 ppmv, four quarter (annual) integrated average. Basis: Cumulative Increase, Regulation 2-1-204, 2020303)

In order to demonstrate compliance with this part, the Permit Holder shall measure the total sulfur content (as hydrogen sulfide) in the collected landfill gas at a frequency of at least once a every calendar quarterly basis using a draeger tube or by chromatography (BAAQMD Lab Method 44A) or by any other equivalent method as approved by the APCO. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's manufacturer or BAAQMD recommended procedures for using the draeger tubesampling, analysis and interpreting interpretation of the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (basis: Regulation 9-1-302)

b. Nitrogen Oxides: The concentration of nitrogen oxides (NO<sub>x</sub>) in the flue gas from the landfill gas flares A-1 and A-2 shall not exceed 60 ppmv corrected to 15% oxygen, dry basis. This is equivalent to 0.05 pounds of NO<sub>x</sub> (calculated as NO<sub>2</sub>) per million BTU, based on landfill gas methane content of 50%. (basis: RACT, Cumulative

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Increase)

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

11. In order, to demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flares ~~(A-1)- and A-2.~~ As a minimum, the annual source test shall determine the following:
- ~~landfill~~ Landfill gas flow rate to the flare (dry basis);
  - Landfill gas concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), total hydrocarbons (THC), methane (CH<sub>4</sub>), and total non-methane organic compounds (NMOC) ~~in the landfill gas;~~
  - ~~stack~~ Stack gas flow rate from the flare (dry basis);
  - Flare stack gas concentrations (dry basis): NO<sub>x</sub> (as NO<sub>2</sub>), CO, of THC, CH<sub>4</sub>, NMOC, Benzene, Formaldehyde, Vinyl Chloride, and O<sub>2</sub> ~~in the flare stack gas;~~
  - THC, CH<sub>4</sub>, and NMOC destruction ~~efficiency~~ efficiencies achieved by the flare; and
  - ~~the a~~ Average combustion temperature in the flare during the test period.

The first source test shall be conducted no later than October 1, 2002. Each  
~~annual~~ 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 approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and to the Source Test Section within 45 days of the test date. (basis: Regulations 8-34-301.3 and 8-34-412)

12. The Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by part 11 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in part 11b, the landfill gas shall be analyzed for the following compounds:

Acrylonitrile	Ethylene dibromide
Benzene	Fluorotrichloromethane
Carbon disulfide	Hexane
Carbon tetrachloride	Hydrogen sulfide
Chlorobenzene	Isopropyl alcohol

## VI. Permit Conditions

Chlorodifluoromethane

Methylethylketone

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

Chloroethane

Methylene chloride

Chloroform

Perchloroethylene

1,1 Dichloroethane

Toluene

1,1 Dichloroethene

1,1,1 Trichloroethane

1,2 Dichloroethane

1,1,2,2 Tetrachloroethane

1,4 Dichlorobenzene

Trichloroethylene

Dichlorodifluoromethane

Vinyl chloride

Dichlorofluoromethane

Xylenes

Ethylbenzene

All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. (basis: Toxic Risk Management Policy and Regulation 8-34-412)

13. In order to demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in an APCO approved logbook.
- a. The total amount of municipal solid waste received at S-2 recorded on a daily basis. A summary of the daily waste acceptance records for each calendar month.
  - b. For each area or cell that is not controlled by a landfill gas collection system, a record of the date that waste was initially placed in the area or cell. The cumulative amount of waste placed in each uncontrolled area or cell recorded on a monthly basis.
  - c. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
  - d. ~~Daily~~ Maintain daily records of low VOC soil acceptance rate and emissions, pursuant to part 3.
  - e. ~~The Record of the~~ dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. ~~The Record the~~ dates, locations, and type of any dust suppressant applications. ~~The Record the~~ dates and description of all paved roadway cleaning activities. All records shall be summarized on a monthly basis.
  - f. ~~The Record the~~ initial operation date for each new landfill gas well

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and collector.

### Condition # 10423

For: S-2, NEWBY ISLAND SANITARY LANDFILL WITH GAS COLLECTION SYSTEM; ~~AND~~  
ABATED BY A-1 & A-2, LANDFILL GAS FLARES

- g. ~~An~~ Maintain an accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to part 6. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least once a year to indicate changes in refuse boundaries and to include any newly installed wells and collectors.
- h. ~~The~~ Record the operating times and the landfill gas flow rate to the A-1 and A-2 Landfill Gas Flares on a daily basis. Summarize A monthly summary of these records on a monthly basis. ~~The~~ Calculate and record the heat input to A-1 and A-2, calculated and recorded pursuant to part 8.
- i. ~~Continuous~~ Maintain continuous records of the combustion zone temperature for the ~~A-1 and A-2~~ A-1 and A-2 Landfill Gas Flares during all hours of operation.
- j. ~~Records~~ Maintain records of all test dates and test results performed to maintain compliance with parts 10, 11, and 12 above or to maintain compliance with any applicable rule or regulation.

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

(basis: Cumulative Increase, Regulations 2-1-301, 2-6-501, 6-301, 6-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)

- 14. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments, except that the reporting period for the first increment of the Regulation 8-34-411 report that is submitted subsequent to the issuance of the MFR Permit for this site shall be from December 1, 2003, through July 31, 2004. This first increment report shall be submitted by August 31, 2004. The reporting periods and report submittal due dates for all subsequent increments of the Regulation 8-34-411 report shall be synchronized with the reporting periods and report submittal due dates for the semi-annual MFR Permit monitoring reports that are required by Section I.F. of the MFR Permit for this site. At the discretion of the facility, the Regulation 8-34-411 report may be

## VI. Permit Conditions

combined with the semi-annual MFR monitoring report as a single report as long as it is clearly labeled as such and it contains all the required elements of both reports. (basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

### **Condition # 14098**

For: S-4, NON-RETAIL GASOLINE DISPENSING FACILITY G# 9641

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 940,000 gallons in any consecutive 12-month period.

### **Condition # 15050**

For: S-5, TUB GRINDER; S-7, TROMMEL SCREEN; AND A-7, WATER SPRAYS

1. The S-5 Tub Grinder and S-7 Trommel Screen shall not operate for more than 16 hours (each) during any calendar day nor more than 3466 hours during any consecutive 12 month period. (basis: Cumulative Increase)
2. In order to demonstrate compliance with part #1, the owner/operator of S-5 and S-7 shall keep a dated record of the hours of operation for each source in a District approved log. Hours of operation shall be totaled on a monthly basis and shall be available for inspection by District personnel for a period of 5 years from the date on which a record is made. (basis: Cumulative Increase)
3. The S-5 Tub Grinder and S-7 Trommel Screen shall be abated by the A-7 Water Spray Systems at all times during operation. (basis: Regulations 2-1-403, 6-301, and 6-305)
4. Visible dust emissions from S-5 or S-7 shall not exceed Ringelmann 1.0 or result in fallout on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. (basis: Regulations 1-301, 2-1-403, 6-301, and 6-305)
5. Observation for visible particulate emissions is required at all times that S-5 and S-7 are operating. If visible emissions are detected at either source, the operator of that source shall take the necessary corrective action to stop the emissions. (basis: Regulations 2-1-403, 6-301, and 6-305)
6. If the plant receives 2 or more Violation Notices from the District for "Public Nuisance" per Regulation 1-301 in any consecutive 180-day period, the



## **VI. Permit Conditions**

owner/operator of this facility 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 that the District deems necessary and appropriate. (basis: Regulation 2-1-403)

- a. Enclosure of the S-5 Tub Grinder and/or the S-7 Trommel Screen
- b. Complete enclosure of all operations in a warehouse like building
- c. The use of a chemical suppressant to control dust from roadways at the facility
- d. The paving of all roadways at the facility

## VI. Permit Conditions

### Condition # 19498

For: S-6, TUB GRINDER ENGINE

1. The S-6 Tub Grinder Engine shall not operate for more than 16 hours during any calendar day nor more than 3466 hours during any consecutive 12 month period. (basis: Cumulative Increase)
2. Precursor Organic Compounds (POC) emissions from S-6 shall not exceed 1.1 grams/brake horsepower-hour of operation (g/bhp-hr). (basis: BACT)
3. Nitrogen Oxides (NO<sub>x</sub>) emissions from S-6 shall not exceed 5.3 g/bhp-hr, calculated as NO<sub>2</sub>. (basis: BACT)
4. Carbon Monoxide (CO) emissions from S-6 shall not exceed 3.0 g/bhp-hr. (basis: BACT)
5. Only low sulfur fuel (<0.05% sulfur by weight) shall be combusted at S-6. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (basis: BACT for PM<sub>10</sub>, Cumulative Increase and Regulation 9-1-304 for SO<sub>2</sub>)
6. In order to demonstrate compliance with parts 2 through 4, the Permit Holder shall conduct annual source tests to determine the emission factors for POC, NO<sub>x</sub>, and CO (in g/bhp-hr) at the exhaust of the engine. Annual 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 approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. (basis: BACT and Regulation 2-1-403)
7. The exhaust of the Tub Grinder Engine S-6 shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the operator of the source shall take the necessary corrective action to stop the emissions. (basis: Regulations 2-1-403 and 6-301)

## **VI. Permit Conditions**

### **Condition # 19498**

For: S-6, TUB GRINDER ENGINE

8. The Permit Holder shall maintain daily records in an APCO approved log book indicating the hours of operation of the engine and the amount of fuel consumed by the engine. These records shall be kept on site and made available for inspection by District personnel for a period of at least 5 years from the date on which a record is made. (basis: Cumulative Increase)

## VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installation Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 10423, Part 13b, 13c, 13f, 13g	P/E	Records
Collection System Installation Dates	BAAQMD 8-34-304.2	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 10423, Part 13b, 13c, 13f, 13g	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installation Dates	BAAQMD 8-34-304.3	Y		For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 10423, Part 13b, 13c, 13f, 13g	P/E	Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Gas Flow	BAAQMD Condition # 10423, Parts 5, 6, and 7	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD Condition # 10423, Parts 13f-h	P/D	Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year and 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly Inspection and Records
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 °C	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records
Gas Concentrations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y		N <sub>2</sub> < 20% <b>OR</b> O <sub>2</sub> < 5%	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records
Well Shutdown Limits	BAAQMD 8-34-116.2	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-116.3	Y		24 hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.4	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Well Shutdown Limits	BAAQMD 8-34-117.5	Y		24 hours per well	BAAQMD 8-34-117.6 and 501.1	P/D	Records
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with portable analyzer and Records
TOC	BAAQMD 8-34-303	Y		500 ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection of Surface with portable analyzer, Various Reinspection Times for Leaking Areas, and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3	Y		98% removal by weight OR < 30 ppmv, dry basis @ 3% O <sub>2</sub> , expressed as methane (applies to A-1 only)	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 10423, Part 11	P/A	Annual Source Tests and Records
Temperature of Combustion Zone (CT)	BAAQMD Condition # 10423, Part 9	Y	5/1/03	CT $\geq$ <del>1450</del> 1525 °F, averaged over any 3-hour period (applies to A-1 only) CT $>$ 1400 °F, <u>averaged over any 3-hour period</u> (applies to A-2 only)	BAAQMD 8-34-501.3 and 507, SIP 8-34-501.3 and BAAQMD Condition # 10423, Parts 11 and 13i	C	Temperature Sensor and Recorder (continuous)
Total Carbon	BAAQMD 8-2-301	Y		15 pounds/day or 300 ppm, dry basis (applies only to aeration of or use as cover soil of soil containing $\leq$ 50 ppmw of volatile organic compounds)	BAAQMD Condition # 10423, Part 3	P/D	Records
Amount of Contaminated Soil Aerated or Used as Cover	BAAQMD 8-40-116.1 and BAAQMD Condition # 10423, Parts 2 and 3	Y		1 cubic yard per project	BAAQMD Condition # 10423, Part 2m	P/E	Records



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Amount of Contaminated Soil Aerated or Used as Cover	BAAQMD 8-40-116.2 and BAAQMD Condition #10423, Parts 2 and 3	Y		8 cubic yards per project, provided organic content ≤ 500 ppmw and limited to 1 exempt project per 3 month period	BAAQMD 8-40-116.2 and BAAQMD Condition # 10423, Part 2m	P/E	Records
Amount of Contaminated Soil Aerated or Used as Cover	BAAQMD 8-40-301 and BAAQMD Condition #10423, Parts 2 and 3	Y		Prohibited for Soil with Organic Content >50 ppmw unless exempt per BAAQMD 8-40-116, 117, or 118	BAAQMD Condition # 10423, Part 2m	P/E	Records
Amount of Accidental Spillage	BAAQMD 8-40-117 and BAAQMD Condition # 10423, Parts 2 and 3	Y		Soil Contaminated by Accidental Spillage of ≤ 5 Gallons of Liquid Organic Compounds	None	N	N/A
Total Aeration Project Emissions	BAAQMD 8-40-118 and BAAQMD Condition # 10423, Parts 2 and 3	Y		150 pounds per project and toxic air contaminant emissions per year <BAAQMD Table 2-1-316 limits	BAAQMD Condition #10423, Part 2m	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to S-1)	BAAQMD Condition # 10423, Part 13e	P/E, M	Records of all site watering and road cleaning events
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to A-1)	None	N	N/A
FP	BAAQMD 6-310	Y		≤ 0.15 grains/dscf (applies to A-1 only)	None	N	N/A
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours (applies to A-1 only)	None	N	N/A
SO <sub>2</sub>	BAAQMD Regulation 9-1-302	Y		≤ 300 ppm (dry basis) (applies to A-1 & A-2 only)	BAAQMD Condition # 10423, Parts 10 and 13j	P/Q	Sulfur analysis of landfill gas
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 10423, Part 10a	Y		≤ 1300 ppmv <u>instantaneous concentration</u> (expressed as H <sub>2</sub> S)	BAAQMD Condition # 10423, Parts 10a and 13j	P/Q	Sulfur analysis of landfill gas
<u>Total Sulfur Content in Landfill Gas</u>	<u>BAAQMD Condition # 10423, Part 10a</u>	<u>Y</u>		<u>&lt; 300 ppmv annual average (expressed as H<sub>2</sub>S)</u>	<u>BAAQMD Condition # 10423, Parts 10a and 13j</u>	<u>P/Q</u>	<u>Sulfur analysis of landfill gas</u>
NO <sub>x</sub>	BAAQMD Condition # 10423, Part 10b	N		60 ppm corrected to 15% oxygen, dry basis (=0.05 pounds NO <sub>x</sub> per million BTU LFG)	BAAQMD Condition 10423, Part 11d.	P/A	Annual Source Test & Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 NEWBY ISLAND SANITARY LANDFILL**  
**A-1 LANDFILL GAS FLARE #1**  
**A-2 LANDFILL GAS FLARE #2**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H <sub>2</sub> S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	N/A
Amount of Waste Accepted	BAAQMD Condition # 10423, Part 1	Y		≤ 4,000 tons/day and ≤ 39,000,000 tons (predicted cumulative amount of all wastes) and ≤ 50,800,000 yd <sup>3</sup> (cumulative amount of all wastes and cover materials)	BAAQMD Condition # 10423, Part 13a	P/D	Records
Heat Input, <u>A-1</u>	BAAQMD Condition # 10423, Part 8	Y		≤ 2,006 MM BTU per day and ≤ 732,095 MM BTU per year	BAAQMD Condition # 10423, Parts 8 and 13h	P/D	Records
Heat Input, <u>A-2</u>	<u>BAAQMD Condition # 10423, Part 8</u>	<u>Y</u>		<u>&lt;1,800 MM BTU per day and &lt; 657,000 MM BTU per year</u>	<u>BAAQMD Condition # 10423, Parts 8 and 13h</u>	<u>P/D</u>	<u>Records</u>
Startup Shutdown or Mal-function Procedures	40 CFR 63.6(e)	Y	1/16/04	Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-3 COMPOSTING OPERATION**  
**A-3 WATER TRUCK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 8178, Part 4	P/E	Observation of Operations
Opacity	BAAQMD Condition # 8178, Part 3	Y		Ringelmann 1.0	BAAQMD Condition # 8178, Part 4	P/E	Observation of Operations

**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 9641**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gasoline Through-put	BAAQMD Condition # 14098	N		940,000 gallons per 12-month period	BAAQMD 8-7-503.1	P/A	Records
Through-put (exempt from Phase I)	BAAQMD 8-7-114	Y		1000 gallons per facility for tank integrity leak checking	BAAQMD 8-7-501 and 8-7-503.2	P/E	Records
Organic Compounds	BAAQMD 8-7-301.6	Y		All Phase I Equipment (except components with allowable leak rates) shall be leak free ( $\leq 3$ drops/minute) and vapor tight	CARB EO G-70-148-A paragraph 21	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-4 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 9641**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Compounds	BAAQMD 8-7-302.5	Y		All Phase II Equipment (except components with allowable leak rates or at the nozzle/fill-pipe interface) Shall Be: leak free ( $\leq 3$ drops/minute) and vapor tight	CARB EO G-70-148-A paragraph 21	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System
Organic Compounds	CARB EO G-70-148-A paragraph 10	Y		Any Emergency Vent or Manway Shall Be: leak free	CARB EO G-70-148-A paragraph 21	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System
Disconnection Liquid Leaks	CARB EO G-70-148-A paragraph 12	N		10 ml per disconnect, averaged over 3 disconnect operations	CARB EO G-70-148-A paragraph 21	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 TUB GRINDER**  
**S-7 TROMMEL SCREEN**  
**A-7 WATER SPRAY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 15050, Part 5	P/E	Observation of Operations
Opacity	BAAQMD Condition # 15050, Part 4	Y		Ringelmann 1.0	BAAQMD Condition # 15050, Part 5	P/E	Observation of Operations
FP	BAAQMD Regulation 6-311	Y		S-5: 40 lb/hr (throughput = 80 tons/hr) S-7: 40 lb/hr (throughput = 30 tons/hr)		N	
Operating Time	BAAQMD Condition # 15050, Part 1	Y		16 hours per calendar day and 3466 hours per 12-month period (apply to S-5 and S-7, each)	BAAQMD Condition # 15050, Part 2	P/D	Daily Record of Operating Hours

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – E**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6 TUB GRINDER ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 19498, Part 7	P/E	Observation for Visible Smoke
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf	None	N	N/A
POC	BAAQMD Condition # 19498, Part 2	Y		1.1 g/bhp-hr	BAAQMD Condition # 19498, Part 6	P/A	Annual Source Test
NOx	BAAQMD Condition # 19498, Part 3	Y		5.3 g/bhp-hr	BAAQMD Condition # 19498, Part 6	P/A	Annual Source Test
CO	BAAQMD Condition # 19498, Part 4	Y		3.0 g/bhp-hr	BAAQMD Condition # 19498, Part 6	P/A	Annual Source Test
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	N/A
SO <sub>2</sub>	BAAQMD Regulation 9-1-304	Y		Fuel Sulfur Limit 0.5%	BAAQMD Condition # 19498, Parts 5 and 8	P/M	Vendor Certification and Fuel Usage Records
SO <sub>2</sub>	BAAQMD Condition # 19498, Part 5	Y		Fuel Sulfur Limit 0.05%	BAAQMD Condition # 19498, Parts 5 and 8	P/M	Vendor Certification and Fuel Usage Records
Operating Time	BAAQMD Condition # 19498, Part 1	Y		16 hours per calendar day and 3466 hours per 12-month period	BAAQMD Condition # 19498, Part 8	P/D	Records of Operating Hours

## 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 in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
BAAQMD 6-311	Process Weight Rate Based Emissions Limits	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or Calculate Emissions in Accordance with EPA AP-42 Procedures
BAAQMD 8-2-301	Organic Compound Emission Limitation for Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-7-301.6	Vapor Tightness Requirement	Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks
BAAQMD 8-7-302.5	Vapor Tightness Requirement	Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks
BAAQMD 8-7-302.8	Liquid Removal Rate	Manual of Procedures, Volume IV, ST-37, Gasoline Dispensing Facility Liquid Removal Devices or ARB Test Method TP-201.6 Determination of Liquid Removal of Vapor Recovery Systems of Dispensing Facilities
BAAQMD 8-7-302.12	Liquid Retain from Nozzles	CARB Test Procedure TP-201.2E; or CARB determined equivalent
BAAQMD 8-7-302.13	Nozzle Spitting	CARB Test Procedure TP-201.2D; or CARB determined equivalent
SIP 8-7-302.12	Liquid Retain from Nozzles	Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses
SIP 8-7-302.13	Nozzle Spitting	Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses
BAAQMD 8-34-301.2	Collection and Control System Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks



## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 8-34-301.3	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-301.4	Limits for Other Emission Control Systems	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-303	Landfill Surface Requirements	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-305.1	Wellhead Gauge Pressure	APCO Approved Device
BAAQMD 8-34-305.2	Wellhead Temperature	APCO Approved Device
BAAQMD 8-34-305.3	Wellhead Nitrogen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-305.4	Wellhead Oxygen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-412	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD 8-40-116.2	Organic Content Limit for Small Volume Exemption	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B
BAAQMD 8-40-301	Limits on Uncontrolled Aeration of Contaminated Soil	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B; or EPA Reference Method 21
BAAQMD 9-1-301	Limitations on Ground Level Concentrations (SO <sub>2</sub> )	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO <sub>2</sub> )	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD 9-1-304	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD Condition # 8178, Part 3	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Condition # 10423, Part 2	Acceptance Criteria for Soils containing VOCs (VOC determination)	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B; or EPA Reference Method 21
BAAQMD Condition # 10423, Part 3	Emission Limit for Low VOC Soils	BAAQMD 8-40-601 and EPA Reference Methods 8015B and 8021B; or EPA Reference Method 21 and APCO Approved Calculation Procedure Described in BAAQMD Condition # 10423, Part 3
BAAQMD Condition # 10423, Part 8	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 10423, Part 8
BAAQMD Condition # 10423, Part 9	Flare Combustion Temperature Limit	APCO Approved Device
BAAQMD Condition # 10423, Part 10a	Landfill Gas Sulfur Content Limit	Draeger Tube: measuring hydrogen sulfide, used in accordance with manufacturer's recommended procedures. <u>BAAQMD Lab Method 44A</u>
BAAQMD Condition # 10423, Part 10b	<u>NO<sub>x</sub> Limit</u>	<u>Manual of Procedures, Volume IV, Oxides of Nitrogen, Continuous Sampling, and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 20</u>
BAAQMD Condition # 10423, Part 12	Landfill Gas Characterization	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

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Condition # 15050, Part 4	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Condition # 19498, Part 2	IC Engine POC Limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD Condition # 19498, Part 3	IC Engine NOx Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 19498, Part 4	IC Engine CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 19498, Part 5	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil
CARB EO G-70-148-A paragraph 10	Leak Free Emergency Vent or Manway	Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks
CARB EO G-70-148-A paragraph 12	Disconnection Liquid Leaks for Phase I Systems	BAAQMD Enforcement Division, Policies and Procedures, Regulation 8, Rule 33, Bulk Gasoline Distribution Facilities and Gasoline Delivery Vehicles Guidelines, Section 5.B.1.

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.

**IX. PERMIT SHIELD**

**Not Applicable.**

**X. REVISION HISTORY**

Initial Issuance: \_\_\_\_\_ February 5, 2004

## **X. Glossary**

### **XI. GLOSSARY**

**ACT**

Federal Clean Air Act

**APCO**

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

**ARB**

Air Resources Board (same as CARB)

**BAAQMD**

Bay Area Air Quality Management District

**BACT**

Best Available Control Technology

**Basis**

The underlying authority that allows the District to impose requirements.

**CAA**

The federal Clean Air Act

**CAAQS**

California Ambient Air Quality Standards

**CAPCOA**

California Air Pollution Control Officers Association

**CARB**

California Air Resources Board (same as ARB)

**CEQA**

California Environmental Quality Act

**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.

**CH<sub>4</sub> or CH<sub>4</sub>**

Methane

**CO**

## **X. Glossary**

Carbon Monoxide

### **CT**

Combustion Zone Temperature

### **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

### **EO**

Executive Order

### **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 (MACT), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **FP**

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

### **GDF**

Gasoline Dispensing Facility

### **H<sub>2</sub>S or H<sub>2</sub>S**

Hydrogen Sulfide

### **HAP**

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

## **X. Glossary**

### **HHV**

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

### **LFG**

Landfill gas

### **Major Facility**

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

### **MAX or Max.**

Maximum

### **MFR**

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

### **MIN or Min.**

Minimum

### **MOP**

The District's Manual of Procedures.

### **MSW**

Municipal solid waste

### **MW**

Molecular weight

### **N2 or N<sub>2</sub>**

Nitrogen

### **NA**

Not Applicable

### **NAAQS**

National Ambient Air Quality Standards



## **X. Glossary**

### **NESHAPS**

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

### **NMHC**

Non-methane Hydrocarbons (Same as NMOC)

### **NMOC**

Non-methane Organic Compounds (Same as NMHC)

### **NO<sub>x</sub> or NO<sub>x</sub>**

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 Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

### **NSR**

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **O<sub>2</sub> or O<sub>2</sub>**

Oxygen

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Particulate Matter

### **PM<sub>10</sub> or PM<sub>10</sub>**

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

### **PSD**

## **X. Glossary**

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

### **PV or P/V Valve**

Pressure / Vacuum Valve

### **RMP**

Risk Management Plan

### **SIP**

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

### **SO<sub>2</sub> or SO<sub>2</sub>**

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 (NMHC + Methane)

### **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 (NMOC + Methane, Same as THC)

### **TPH**

Total Petroleum Hydrocarbons

## X. Glossary

### **TRMP**

Toxic Risk Management Policy

### **TRS**

Total Reduced Sulfur

### **TSP**

Total Suspended Particulate

### **VOC**

Volatile Organic Compounds

### **Symbols:**

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

### **Units of Measure:**

bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft <sup>3</sup>	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour
lb	=	pound
lbmol	=	pound-mole
in	=	inches
m <sup>2</sup>	=	square meter
m <sup>3</sup>	=	cubic meters
min	=	minute
mm	=	million
MM	=	million

## X. Glossary

MM BTU	=	million BTU
MMcf	=	million cubic feet
Mg	=	mega grams
ppb	=	parts per billion
ppbv	=	parts per billion, by volume
ppm	=	parts per million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
sdcf	=	standard dry cubic feet
sdcfm	=	standard dry cubic feet per minute
yd	=	yard
yd <sup>3</sup>	=	cubic yards
yr	=	year

**XI.XII. APPLICABLE STATE IMPLEMENTATION PLAN**

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

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