

PLACER COUNTY AIR POLLUTION CONTROL DISTRICT

Statement of Basis

Proposed Title V Permit to Operate – Renewal

Western Regional Sanitary Landfill (WRSL)

Permit Number WR-001

**Issued to:**

Western Placer Waste  
Management Authority  
11476 C Avenue  
Auburn, CA 95603

**Issued by:**

Placer County Air Pollution Control District  
3091 County Center Drive, Suite 240  
Auburn, CA 95603

**Proposed:**

September 19, 2009

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## 1. Background

This document supports the District's renewal of the Western Regional Sanitary Landfill (WRSL) WR-001 Title V permit. Western Regional Sanitary Landfill is a Regional Class II/III solid waste disposal site. It operates under Title V Operating Permit No. WR-001, issued by Placer County Air Pollution Control District ("District") on May 18, 2004, which expires on May 18, 2009.

WRSL has a design capacity of 36 million cubic yards, and has increased capacity after May 30, 1991. Thus, WRSL is subject to 40 CFR Part 60, Subpart WWW, New Source Performance Standard for Municipal Waste Landfills, and 40 CFR Part 60.752(b) which requires that landfills with design capacity greater than 2.5 million cubic meters or 2.5 million megagrams comply with 40 CFR Part 70 permitting requirements, which includes operation under a Title V permit.

The Title V permit life is 5 years from the effective date of issue; thus this renewal expires on May 18, 2014.

This document amends the Statement of Basis document that was prepared for the Title V permit which was issued on May 18, 2004.

## 2. Permit Renewal Evaluation

The District has reviewed State, Federal, and District rules, regulations, and operating permits for applicable requirements for incorporation into the Title V permit renewal.

### A. State of California Health and Safety Code

State rules and regulations are contained in the California Health and Safety Code. There are no State requirements, promulgated and amended since the Title V permit issuance of May 18, 2004, that are applicable to WRSL.

### B. Placer County Air Pollution Control District Rules

District rules and regulations promulgated or amended since the Title V permit issuance of May 18, 2004, and those which are applicable to WRSL operations, are identified in Table 1. Permit condition additions and revisions based on these rules are also noted in Table 1.

### C. Placer County Air Pollution Control District-Issued Authority to Construct, Permits to Operate

District Permits to Operate and Authorities to Construct issued or amended since the Title V permit issuance, May 18, 2004, include:

- AC-05-25 -- modify large flare by adding new blower
- PLWR-05-01 / AC-04-49 – addition of new small flare

Table 2 lists each of the permit conditions from the Authority to Construct and Permit to Operate. It identifies how they were considered for the Title V permit renewal.

### D. Federal

Federal rules and regulations promulgated or amended since the Title V permit issuance, May 18, 2004, that are potentially applicable to WRSL operations include:

- Continuous Assurance Monitoring under 40 CFR Part 64 and 40 CFR Part 70.5.

- Maximum Achievable Control Technology (MACT) Standard, National Emissions Standards for Hazardous Air Pollutants, for Municipal Solid Waste Landfills (40 CFR Part 63, Subpart AAAAA) proposed on November 7, 2000 (65 FR 66672) and promulgated on January 16, 2003 (68 FR 2227).

The Continuous Assurance Monitoring (CAM) requirements under 40 CFR Part 64 and 40 CFR Part 70.5 are not applicable to the WRSL operations, because as required under 64.2(a)(3), uncontrolled VOC emissions from the landfill gas, prior to the landfill gas flare VOC control device, is below that required to be classified as a major source:

- WRSL would not be classified as a major source based on uncontrolled emissions -- either based on the VOC criteria emissions major source threshold of 25 tons/yr, or the HAP threshold of either 10 tons/yr of any individual HAP or 25 tons/yr of all HAPs combined. Specifically, uncontrolled emissions from WRSL landfill gas (prior to flaring) -- based on the U.S. EPA's LandGEM model -- contains:
  - Volatile organic compounds (non-methane) of 21.5 tons/year.
  - Total organic hazardous air pollutants of less than 21.5 tons/yr.
  - Individual organic hazardous air pollutants all less than 10 tons/yr.

The MACT requirements for Municipal Solid Waste Landfills under 40 CFR Part 63, Subpart AAAAA are not applicable to the WRSL operations because it does not meet any of the three criteria specified under Section 63.1935(a):

- WRSL is not a major source based on potential to emit, per 40 CFR 63.2 Subpart A. Specifically, controlled landfill gas flare emissions of criteria and hazardous air pollutants are less than major source potential to emit thresholds:
  - NOx of 2.33 tons/yr (major source threshold of 25 tons/yr)
  - CO of 0.31 tons/yr (major source threshold of 100 tons/yr)
  - SOx of 0.65 tons/yr (major source threshold of 100 tons/yr)
  - VOC of 4.98 tons/yr (major source threshold of 25 tons/yr)
  - PM of 12.22 tons/yr (major source threshold of 100 tons/yr)
- The WRSL is not collocated with a major source.
- Uncontrolled NMOC emissions are 21.5 tons/yr, less than the 50 Mg/yr threshold.

#### E. Miscellaneous

Miscellaneous Title V permit renewal changes are shown in the Attachment `.

### 3. **Draft Renewed Permit**

The proposed Title V Permit to Operate WR-001 renewal is provided in Attachment I, with changes identified with underline / strikeout.

Table 1. New and Amended District Rules

Rule No.	Rule	Date of Adoption or Amendment	SIP Submittal	SIP Approved	Evaluation Finding
216	Organic Solvent Cleaning And Degreasing Operations	12/11/2003	Y	N	No impact on Title V permit. No applicable process or equipment.
225	Wood Burning Appliances	12/13/2007	N	N	No impact on Title V permit. No applicable process or equipment.
228	Fugitive Dust	New 4/10/2003	N	N	No impact on Title V permit. Permit already contains Rule 228 fugitive dust requirements.
232	Biomass Suspension Boilers		Y	N	No impact on Title V permit. No applicable process or equipment.
233	Biomass Boilers	10/11/2007	Y	N	No impact on Title V permit. No applicable process or equipment.
235	Adhesives	4/8/2004	Y	N	No impact on Title V permit. No applicable process or equipment.
237	Municipal Landfills	10/9/2003	Y	N	No impact on Title V permit. No changes to Rule.
238	Factory Coating Of Flat Wood Paneling	2/18/2004	Y	N	No impact on Title V permit. No applicable process or equipment.
239	Graphic Arts Operations	4/8/2004	Y	N	No impact on Title V permit. No applicable process or equipment.
240	Surface Preparation and Cleanup	12/11/2003	Y	N	No impact on Title V permit. No applicable process or equipment.
242	Stationary Internal Combustion Engines	4/10/2003	Y	N	No impact on Title V permit. No applicable process or equipment.
243	Polyester Resin Operations	4/10/2003	Y	N	No impact on Title V permit. No applicable process or equipment.
411	Indemnification of District	New 2/14/2008	N	N	Added to 4.Q. WRSLS has an obligation to defend and indemnify the District against third party challenges in accordance with District Rule 411.
412	Agricultural Engine Registration	12/13/2007	N	N	No impact on Title V permit. No applicable process or equipment.
501	General Permit Requirements	12/9/2004	N	N	No impact on Title V permit. No applicable process or equipment.
502	New Source Review	12/9/2004	Y	N	Exempted Temporary Sources at Sec. 114. Does not impact WRSLS operations.
507	Federal Operating Permit Program	4/8/2004	N	N	Revised Sec. 403 to require annual fee for major sources. Already addressed in permit.
514	Federal Major Modifications	10/12/2006	N	N	No impact on Title V permit. Administrative change.
601	Permit Fees	12/13/2007	N	N	No impact on Title V permit. Administrative change for agricultural engines.

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
PLWR-01-01 MODIFIED	Equip. 1	Two Blowers both for backup.	N	Auxiliary equipment description. No change to Title V required.
	Equip. 2	Mfr: National Turbine, Model: NTO8304004GD, Serial Number: 261040,...	N	Auxiliary equipment description. No change to Title V required.
AC-05-25	Equip. 1	Modify Landfill Gas Flare by Adding New Blower, Mfr: N/A, Model: N/A, Speed: 3,600 rpm, Capacity: 2,500 scfm, Drive Motor: 60 hp Maximum.	N	Auxiliary equipment description. No change to Title V required.
AC-05-25	1	The landfill gas flare of PLWR-01-01 is modified by adding a larger capacity blower. The old blower will be retained as a backup. The height of the stack is increased by 7 feet.	N	Auxiliary equipment description. No change to Title V required.
AC-05-25	2	All conditions of PLWR-01-01 remain unchanged.	N	No change to Title V required.
AC-05-25	3	Performance testing shall be conducted after installation of the new blower as required in PLWR-01-01.	N	Testing and conformance was completed on 09/12/08. No change to Title V required.
AC-05-25	4	Authorization to construct the equipment listed and as prescribed in the approved plans and specifications is hereby granted, subject to the specified permit conditions. The construction and operation of listed equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted in the conditions. Deviation from the approved plans is not permissible without first securing approval for the changes from the Air Pollution Control Officer. (Rule 501)	N	Applies to equipment construction. No change to Title V required.
AC-05-25	5	Written notification shall be submitted to the District no later than seven (7) days after completion of construction. (Rule 501)	N	Applies to equipment construction. No change to Title V required.
AC-05-25	6	This permit shall be maintained on the premises of the subject equipment. (Rule 501)	N	Exists at 3.1.7 (This permit shall be maintained on the premises of the subject equipment.)

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
AC-05-25	7	The authorized District agents shall have the right of entry to any premises on which an air pollution emission source is located for the purpose of inspecting such source, including securing samples of emissions therefrom, or any records required to be maintained therewith by the District. (Rule 402)	N	Exists at 4.c (The Regional Administrator, the Executive Officer of the California Air Resources Board, the APCO, or their authorized representatives, upon the presentation of credentials, shall be permitted: 1. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate; and 2. At reasonable times to have access to, inspect and copy any records required to be kept under the terms and conditions of this Permit to Operate; and 3. To inspect any equipment at the stationary source, operation, work practices, emission related activities or method required in this Permit to Operate; and 4. To sample emissions from the source or other monitoring activities.)
AC-05-25	8	In the event of any violation of the District Rules and Regulations, the company shall take action to end such violation. (Rule 502)	N	Exists at 3.J.1 (In the event of any violation of the District Rules and Regulations, WRSL shall take action to end such violation.)
AC-05-25	9	The company shall notify the District within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations. (Rule 404)	N	Exists at 3.G (The landfill manager or designee shall notify the District (per Rule 404) within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations.)
AC-05-25	10	Any alterations of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alternations may require an Authority to Construct Permit. (Rule 501)	N	Exists at 3.I.1.b (Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct permit.)
AC-05-25	11	Exceeding any of the limiting condition is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, Section 400.	N	Exists at 3.I.2.b (Exceeding any limiting condition is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, District Rule 507, Title V Permit to Operate, and, if necessary, a Prevention of Significant Deterioration (PSD) permit.)
AC-05-25	12	In the event of a change of ownership, an application must be submitted to the District. Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this permit, the requirements contained in this Authority to Construct shall be binding on all subsequent owners and operators. (Rule 501)	N	Exists at 3.I.5.a,b (In the event of a change of ownership, an application must be submitted to the District. Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this Title V Permit to Operate; the requirements contained in this Permit to Operate shall be binding on all subsequent owners and operators.)

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
AC-05-25	13	Compliance of the permitted facility is required with the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.).	N	Exists at 3.1.4 (WRSL shall comply the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.).
AC-05-25	14	The applicant/Permittee has an obligation to defend and indemnify the District against third party challenges in accordance with District Rule 411.	Y	Add as new condition at 4.Q.
PLWR-05-01	Equip.1	Small Enclosed Landfill Gas Flare, Mfr: LFG Specialties, L.L.C., Model: EF63016, Operating Range: 75 - 450 SCFM, Pilot Gas: Propane, Heat Rate: 13.9 MMBtu/hr, Size: 6 ft. Diameter by 30 ft. High.	Y	Add as new equipment at Table 1.B.1.
PLWR-05-01	1	Four sampling ports shall be installed in the flare stack at least two feet above the flame zone and at least three feet below the top of the flare shroud or half the diameter of the flare whichever is greater. The ports shall be spaced at 90 degrees. Adequate and safe access to all ports shall be provided.	Y	Modify at 6.B.1 (The WRSL shall maintain four sampling ports in both the large and small flare stacks at least two feet above flame zone and at least three feet below the top of the flare shroud or half the diameter of the flare whichever is greater. The ports shall be spaced at 90 degrees. Adequate and safe access to all ports shall be maintained.)
PLWR-05-01	2	The flare shall be equipped with a temperature sensor located at least three feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.	Y	Modify at 6.D.2 (Both large and small flares shall be equipped with a temperature sensor located at least three feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.)
PLWR-05-01	3	The flare shall be equipped with an alarm and automatic blower and landfill gas supply shutoff valve system to isolate the flare from the landfill gas supply line in the event of a failure.	Y	Add as new condition at 2.B.2.a. (The small flare shall be equipped with an alarm and automatic blower and landfill gas supply shutoff valve system to isolate the flare from the landfill gas supply line in the event of a failure.)
PLWR-05-01	4	The small flare shall not be operated at the same time as the large flare except for a one-hour transition time when switching from operation of one flare to the other.	Y	Add as new condition at 2.B.2.b.

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
PLWR-05-01	5	Recordkeeping: Maintenance and breakdown records shall be maintained and summary reports submitted to the District on forms or formats furnished by the District. Records from monitoring equipment shall be kept by the Owner or Operator for a period of two (2) years, and shall be made available to the District's inspector upon request.	N	Exists at 6.C. (WRSL shall establish and maintain a log book or other record detailing the performance and date of preventive maintenance, corrective maintenance, and inspections, as well as reporting breakdowns (per District Rule 404, Upset, Breakdown and Scheduled Maintenance).
	6	The following performance tests shall be completed within sixty (60) days of startup and every second year thereafter.	N	Exists at 6.D.4 (The following performance tests shall be completed every two years: )
PLWR-05-01	6a	Non-Methane Hydrocarbons Organic Compounds shall be measured at the inlet and the exhaust using the EPA method 25 modified to delete the condensate trap from the sampling train. When reporting emissions of VOCs, VOCs shall be calculated as a percentage of NMHC using U.S. EPA or other available emissions factors as determined by the District.	N	Exists at 6.D.4.a (Non-Methane Organic Compounds (NMOC) shall be measured at the inlet of the flare and the exhaust using the EPA method 25 modified to delete the condensate trap from the sampling train.)
	6b	The inlet flowrate shall be measured using EPA Method 2 or the continuous flow measuring system.	N	Exists at 6.D.4.b (The inlet flowrate shall be measured using U.S. EPA Method 2 or the continuous flow measuring system.)
	6c	The exhaust flow shall be determined by EPA method 2 or the "F" factor method in the Code of Federal Regulations Part 60.45(f)(5).	N	Exists at 6.D.4.c (The exhaust flow shall be determined by U.S. EPA Method 2 or the "F" factor method in the Code of Federal Regulations Part 60.45(f)(5).)
	6d	Nitrogen oxides emissions in pounds per million Btu shall be determined using EPA Method 7.	N	Exists at 6.D.4.d (Nitrogen oxides emissions in pounds per million Btu shall be determined using U.S. EPA Method 7.)
	6e	Carbon Monoxide emissions in pounds per million Btu shall be determined using EPA Method 10.	N	Exists at 6.D.4.e (Carbon Monoxide emissions in pounds per million Btu shall be determined using U.S. EPA Method 10.)
	6f	Oxygen concentrate shall be determined using EPA Method 3A.	N	Exists at 6.D.4.f (Oxygen concentrate shall be determined using U.S. EPA Method 3A.)
PLWR-05-01	6g	Gross Calorific Value of the landfill gas shall be measured using ASTM D 1826-77.	N	Exists at 6.D.4.g (Gross Calorific Value of the landfill gas shall be measured using ASTM D 1826 77.)
	7	The performance tests shall be subject to the following restrictions:	N	Exists at 6.D.5 (The performance tests shall be subject to the following restrictions: )

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
	7a	At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the Air Pollution Control Officer is required for the use of alternate test methods.	N	Exists at 6.A.4.c and 6.D.5 (All required testing shall be subject to the following: 1. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the Air Pollution Control Officer is required for the use of alternate test methods. 2. Independent testing contractors and analytical laboratories shall be Air Resources Board certified to perform the test or analysis conducted. 3. Testing shall be conducted as close as achievable to the maximum process rates or the permitted rates resulting in maximized air pollutant emission rates. 4. The conditions and equipment in operation during testing shall be recorded. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded. 5. The test evaluation results shall be reported to the District within sixty (60) days of testing.
	7b	Testing shall be conducted in accordance with 40 CFR 60, Appendix A, Methods, or equivalent methods approved by the State of California Air Resources Board (ARB) by reference in Title 17 of the California Administrative Code, or other methods specified by the Placer County Facility Services and approved in writing by the Air Pollution Control Officer. Independent testing contractors and analytical laboratories shall be Air Resources Board certified for the test or analysis conducted.	N	Exists at 6.D.5.b (Testing shall be conducted in accordance with 40 CFR § 60, Appendix A, Methods, or equivalent methods approved by the State of California Air Resources Board (ARB) by reference in Title 17 of the California Administrative Code, or other methods specified by Placer County Department of Public Works and approved in writing by the Air Pollution Control Officer. Independent testing contractors and analytical laboratories shall be Air Resources Board certified for the test or analysis conducted.)
	7c	Testing shall be conducted as close as achievable to the maximum process rates or the permitted rates resulting in maximized air pollutant emission rates.	N	Exists at 6.A.4.c.3 and 6.D.5.c (Testing shall be conducted as close as achievable to the maximum process rates or the permitted rates resulting in maximized air pollutant emission rates.)
	7d	The evolutions conducted and plant equipment in operation shall be recorded. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded.	N	Exists at 6.D.5.d (The evolutions conducted and plant equipment in operation shall be recorded. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded.)
	7e	The performance test evaluation results shall be reported to the District within sixty (60) days of testing.	N	Exists at 6.A.4.c.5 and 6.D.5.e (The performance test evaluation results shall be reported to the District within sixty (60) days of testing.)

Table 2. District Permit-to-Operate and Authority to Construct

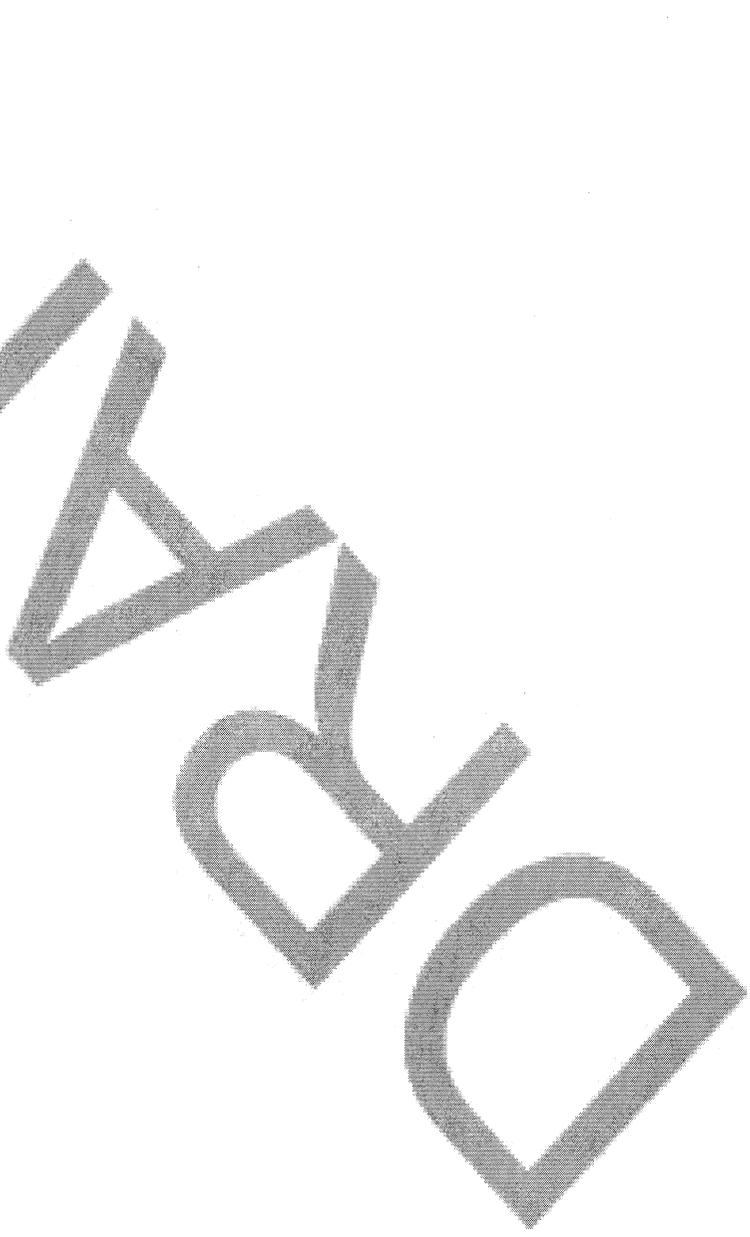
Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
PLWR-05-01	8	Emissions Limitations:		
	8a	No emissions are permitted, from any source, which are a nuisance per District Rule 205.	N	Exists at 3.B.1 (No emissions are permitted, from any source, which are a nuisance per District Rule 205, Nuisance.)
	8b	Stack emission opacity as dark or darker than Ringelmann No. 1 (20% opacity) for a period or periods aggregating more than three (3) minutes in any one hour is prohibited and is in violation of District Rule 202, Visible Emissions.	N	Exists at 2.A.1.c (Stack emission opacity which is as dark or darker than Ringelmann No. 1 (20% opacity) for a period or periods aggregating more than three (3) minutes in any one (1) hour is prohibited and is in violation of District Rule 202, Visible Emissions.)
	8c	The flare shall have a destruction efficiency of 98% for NMOC, or reduce the NMOC concentration at the outlet to no more than 20 ppmv, dry basis as hexane at 3% oxygen.	Y	Add as new condition at 2.B.2.c.
PLWR-05-01		SMALL FLARE EMISSION LIMITATIONS: Pollutant Nox - 0.06 lbs/mmbtu, 0.9 lbs/hr, 20 lbs/day; CO - 0.2 lbs/mmbtu, 2.8 lbs/hr, 67 lbs/day.	Y	Add as new condition at 2.A.2.d.
		TOTAL FACILITY EMISSION LIMITATIONS: Pollutant Nox - 0.06 lbs/mmbtu, 4.6 lbs/hr, 109 lbs/day; CO - 0.2 lbs/mmbtu, 15.2 lbs/hr, 364 lbs/day.	Y	Add as new condition at 2.A.3.
PLWR-05-01	9	Authorization to construct the equipment listed and as prescribed in the approved plans and specifications is hereby granted, subject to the operation of listed equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted in the conditions. Deviation from the approved plans is not permissible without first securing approval for the changes from the Air Pollution Control Officer. (Rule 501)	N	Applies to equipment construction. Not applicable to Title V permit.
PLWR-05-01	10	This permit shall be maintained on the premises of the subject equipment. (Rule 501)	N	Exists at 3.1.7 (This permit shall be maintained on the premises of the subject equipment.)

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
PLWR-05-01	11	The authorized District agents shall have the right of entry to any premises on which an air pollution emission source is located for the purpose of inspecting such source, including securing samples of emissions therefrom, or any records required to be maintained therewith by the District. (Rule 402)	N	Exists at 4.c (The Regional Administrator, the Executive Officer of the California Air Resources Board, the APCO, or their authorized representatives, upon the presentation of credentials, shall be permitted: 1. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate; and 2. At reasonable times to have access to, inspect and copy any records required to be kept under the terms and conditions of this Permit to Operate; and 3. To inspect any equipment at the stationary source, operation, work practices, emission related activities or method required in this Permit to Operate; and 4. To sample emissions from the source or other monitoring activities.)
PLWR-05-01	12	In the event of any violation of the District Rules and Regulations, the company shall take action to end such violation. (Rule 502)	N	Exists at 3.J.1 (In the event of any violation of the District Rules and Regulations, WRSLS shall take action to end such violation.)
PLWR-05-01	13	The company shall notify the District within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations. (Rule 404)	N	Exists at 3.G (The landfill manager or designee shall notify the District (per Rule 404) within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations.)
PLWR-05-01	14	Any alterations of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct Permit. (Rule 501)	N	Exists at 3.I.1.b (Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct permit.
PLWR-05-01	15	Exceeding any of the limiting conditions is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, Section 400.	N	Exists at 3.I.2.b (Exceeding any limiting condition is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, District Rule 507, Title V Permit to Operate, and, if necessary, a Prevention of Significant Deterioration (PSD) permit.
PLWR-05-01	16	In the event of a change of ownership, an application must be submitted to the District. Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this permit, the requirements contained in this Authority to Construct shall be binding on all subsequent owners and operators.(Rule 501)	N	Exists at 3.I.5.a.b (In the event of a change of ownership, an application must be submitted to the District. Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this Title V Permit to Operate; the requirements contained in this Permit to Operate shall be binding on all subsequent owners and operators.

Table 2. District Permit-to-Operate and Authority to Construct

Permit No.	Condition No.	Condition Language	Add or Amend Permit Renewal	Evaluation Finding
PLWR-05-01	17	Compliance of the permitted facility is required with the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.).	N	Exists at 3.1.4 (WRSL shall comply the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.)
PLWR-05-01	18	The applicant/Permittee has an obligation to defend and indemnify the District against third party challenges in accordance with District Rule 411.	Y	Add as new condition at 4.Q.



**Attachment I**

**Proposed Title V Operating Permit WR-001,  
Showing Underline / Strikeout Changes from Permit Issued May 18, 2004**



*Placer County*  
**AIR POLLUTION CONTROL DISTRICT**

**PLACER COUNTY AIR POLLUTION CONTROL DISTRICT**

**Western Regional Sanitary Landfill (WRSL)**

**TITLE V OPERATING PERMIT**

**Permit Number: WR-001-**

**Issued To:**

Western Placer Waste  
Management Authority  
11476 C Avenue  
Auburn, CA 95603

**Plant Site Location :**

Western Regional  
Sanitary Landfill  
3195 Athens Avenue  
Lincoln, CA 94568

**Issued By:-**

\_\_\_\_\_  
**Thomas J. Christofk , APCO**

\_\_\_\_\_  
**Date**

**Effective Date:** May 14~~October~~ \*\*, 2009

**Expiration Date:** May 14~~18~~, 2014

**Nature of Business:** Class II/III Solid Waste –Sanitary Landfill

**SIC Code:** 4953

**Responsible Official:**

~~Thomas Miller~~Jim Durfee  
Executive Director  
Phone: (530~~916~~) 886~~543~~-4950~~3960~~

**Facility Contact:**

~~Walter Schwall~~Eric Oddo, P.E.  
Associate Civil Engineer  
Phone: (916) 645~~543~~-5180 ext.  
73984

**Western Regional Sanitary Landfill (WRSL)**

**Title V Operating Permit**

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## 1. Facility Description and Source Lists

### 1.A. Facility Description

Western Regional Sanitary Landfill (WRSL) is a regional class II/III solid waste disposal site. WRSL has a design capacity greater than 2.5 million megagrams and 2.5 of 36 million cubic meters yards and increased capacity through a modification after May 30, 1991, thus is subject to the provisions of 40 CFR § 60.750 (New Source Performance Standards for Sanitary Landfills). Although WRSL's potential emissions are below District Title V permit trigger levels, the provisions of 40 CFR § 60.752(b) make WRSL subject to District Title V permit requirements.

### 1.B. Source Lists

#### 1. Significant Sources

ID #	Description	Model	Capacity / Design-
Large Flare	Enclosed landfill gas flare Retention time: > 0.6 sec Turndown: 5:1	Linklater, Model GF 4000 F	75.9 MMBtu/hr; 2,500 scfm inlet gas; Retention time: > 0.6 sec; Turndown: 5:1; Temperature: 1400- 1800F
Small Flare	Enclosed landfill gas flare	LFG Specialites, L.L.C., Model EF63016	13.9 MMBtu/hr; 75-450 scfm inlet gas

#### 2. Fugitive Emissions

ID #	Description	Model	Capacity / Design-
Fugitive Emissions	Fugitive dust from daily operations, Fugitive Non-Methane Organic Compounds (NMOC) not captured by installed collection system	Not Applicable	Not Applicable

#### 3. Exempt Equipment

Source-ID #	Description	Capacity	Basis
EX-1	Used oil storage tank	240 gallons	Rule 501
EX-2	Diesel fuel storage tank	8000 gallons	Rule 501

#### 4. Insignificant Sources and Activities

##### a. Insignificant Sources

Description	Control
Space Heaters	N/A

Misc. Welding Equipment	N/A
Propane Tank(s)	N/A
Hydraulic Oil Reservoir	N/A
Lubricants and Associated Equipment	N/A

**b. Insignificant Activities**

The following types of activities are exempted from the Title V permit requirements based on EPA's guidelines of Trivial Activities.

1. Plant maintenance and upkeep activities, such as painting.
2. The repair and maintenance shop activities not related to the source's primary business activities.
3. Combustion emissions from propulsion of mobile sources.
4. Portable generator, portable steam cleaner, and water heaters/steam cleaners, that are exempt from District or State portable equipment regulations.
5. Unheated cleaning equipment and office janitorial activities and equipment and consumer use of janitorial products and consumer use of office equipment and products.

**2. Specific Unit Conditions**

**2.A. Emissions Limits**

**1. Large Flare Emissions**

a. The WRSL shall not discharge sulfur compounds, calculated as sulfur dioxide (SO<sub>2</sub>) in excess of 0.2 percent by volume from the large flare stack.

Origin: Rule 210, Specific Contaminants [~~last-amended 10-/19-/93~~]

Authority: Rule 210, Specific Contaminants [~~last-amended 10-/19-/93~~]

b. The WRSL shall not discharge combustion contaminants (particulate matter) in excess of 0.1 grains per standard cubic foot of gas at 12 percent carbon dioxide (CO<sub>2</sub>) from the large flare stack.

Origin: Rule 210, Specific Contaminants [~~last-amended 10-/19-/93~~]

Authority: Rule 210, Specific Contaminants [~~last-amended 10-/19-/93~~]

c. Stack emission opacity which is as dark or darker than Ringelmann No. 1 (20% opacity) for a period or periods aggregating more than three (3) minutes in any one (1) hour is prohibited and is in violation of District Rule 202, Visible Emissions.

Origin: Rule 202, Visible Emissions [~~last-amended 05-/20-/85~~]

Authority: Rule 202, Visible Emissions [~~last-amended 05-/20-/85~~]

d. The emissions from the large flare shall not exceed the following rates:

a. NOx limits:-	0.06 lbs/MMBtu	4.6 lbs/hr	109 lbs/day
b. CO limits:-	0.2 lbs/MMBtu	15.2 lbs/hr	364 lbs/day

Origin: AC-95-09 (Issued 10/10/95) Condition 23.A and PTO-PLWR-01-01 (Issued 12/14/01) Condition 8.B

Authority: Rule 502, New Source Review [~~last-amended 11-/03-/94~~]

**2. Small Flare Emissions**

a. The WRSL shall not discharge sulfur compounds, calculated as sulfur dioxide (SO<sub>2</sub>) in excess of 0.2 percent by volume from the small flare stack.

Origin: Rule 210, Specific Contaminants [amended 10/19/93]

Authority: Rule 210, Specific Contaminants [amended 10/19/93]

b. The WRSL shall not discharge combustion contaminants (particulate matter) in excess of 0.1 grains per standard cubic foot of gas at 12 percent carbon dioxide (CO<sub>2</sub>) from the small flare stack.

Origin: Rule 210, Specific Contaminants [amended 10/19/93]

Authority: Rule 210, Specific Contaminants [amended 10/19/93]

c. Stack emission opacity which is as dark or darker than Ringelmann No. 1 (20% opacity) for a period or periods aggregating more than three (3) minutes in any one (1) hour is prohibited and is in violation of District Rule 202, Visible Emissions.

Origin: Rule 202, Visible Emissions [amended 05/20/85]

Authority: Rule 202, Visible Emissions [amended 05/20/85]

d. The emissions from the small flare shall not exceed the following rates:

<u>a. NOx limits:</u>	<u>0.06 lbs/MMBtu</u>	<u>0.9 lbs/hr</u>	<u>20 lbs/day</u>
<u>b. CO limits:</u>	<u>0.2 lbs/MMBtu</u>	<u>2.8 lbs/hr</u>	<u>67 lbs/day</u>

d. The small flare shall have a destruction efficiency of 98% for NMOC, or reduce the NMOC concentration at the outlet to no more than 20 ppmv, dry basis as hexane at 3% oxygen.  
Origin: AC-04-49 (Issued 08/06/04) Condition 8.c and PTO-PLWR-05-01 (Issued 11/22/05) Condition 8.c  
Authority: Rule 502, New Source Review [amended 11/03/94]

**3. Total Facility Emission Limitations**

<u>a. NOx limits:-</u>	<u>0.06 lbs/MMBtu</u>	<u>4.6 lbs/hr</u>	<u>109 lbs/day</u>
<u>b. CO limits:-</u>	<u>0.2 lbs/MMBtu</u>	<u>15.2 lbs/hr</u>	<u>364 lbs/day</u>

Origin: AC-04-49 (Issued 08/06/04) Condition 8 and PTO-PLWR-05-01 (Issued 11/22/05) Condition 8.c.  
Authority: Rule 502, New Source Review [amended 11/03/94]

**2.B. Operating Requirements**

**1. Large Flare Operations**

The large flare shall be equipped with an alarm and automatic blower and landfill gas supply shutoff valve system to isolate the flare from the landfill gas supply line in the event of a failure.

Origin: AC-95-09 (Issued 10/10/95) Condition 17 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 3-  
Authority: Rule 502, New Source Review [last-amended 11-/03-/94]

**2. Small Flare Operations**

a. The small flare shall be equipped with an alarm and automatic blower and landfill gas supply shutoff valve system to isolate the flare from the landfill gas supply line in the event of a failure.

Origin: AC-04-49 (Issued 08/06/04) Condition 3- and PTO-PLWR-05-01 (Issued 11/22/05) Condition 3  
Authority: Rule 502, New Source Review [amended 11/03/94]

b. The small flare shall not be operated at the same time as the large flare except for a one-hour transition time when switching from operation of one flare to the other.

Origin: AC-04-49 (Issued 08/06/04) Condition 4- and PTO-PLWR-05-01 (Issued 11/22/05) Condition 4  
Authority: Rule 502, New Source Review [amended 11/03/94]

### 3. Facility-Wide Conditions

#### 3.A. Opacity Rule 202

Emission opacity as dark or darker than Ringelmann No. 1 (20% opacity) for a period or periods aggregating more than three (3) minutes in any one hour is prohibited and is in violation of District Rule 202, Visible Emissions, ~~except visible emissions resulting from the startup or shutdown of the flare are exempt for a period or periods of time aggregating not more than 30 minutes in any 24-hour period per Rule 203, Exemptions to Rule 202. This exemption shall not apply to emissions which result from the failure to operate and maintain in good working order any emission control equipment.~~

Origin: AC-95-09 (Issued 10/10/95) Condition 13 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 8.B  
Authority: Rule 202, Visible Emissions [amended 05-/20-/85]

#### 3.B. Nuisance Rule 205

##### 1. General

No emissions are permitted, from any source, which are a nuisance per District Rule 205, Nuisance.  
Origin: AC-95-09 (Issued 10/10/95) Condition 12 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 8.A.  
Authority: Rule 205, Nuisance [amended 05-/24-/77]

##### District Only

##### 2. Road Dust

All service roads and landfill working surfaces shall be maintained in a manner that effectively controls fugitive dust and prevents the violations of the California Health and Safety Code Section 41700 and District Rule 205, Nuisance, and District Rule 228, Fugitive Dust.

Origin: PTO-PLWR-01-01 (Issued 12/14/01) Condition 8.A., and Rule 228, Fugitive Dust [amended April 10, 2003]

Authority: Rule 205, Nuisance [amended 05-/24-/77], and Rule 228, Fugitive Dust [amended April 10, 2003]

##### District Only

#### 3.C. PM Limit Rule 207

In accordance with District Rule 207, Particulate Matter, WRSL shall not release or discharge from any source or single processing unit, exclusive of sources emitting combustion contaminants only (i.e. does not apply to the flare), particulate matter in excess of 0.1 gr/dscf at standard conditions.

Origin: Rule 207, Particulate Matter [amended 10-/19-/93]

Authority: Rule 207, Particulate Matter [amended 10-/19-/93]

##### District Only

#### 3.D. Specific Contaminant Limit Rule 210

WRSL shall not discharge into the atmosphere from any source of emissions:

1. Combustion contaminants (particulate matter) exceeding 0.1 gr/dscf at 12 percent carbon dioxide (CO<sub>2</sub>) at standard conditions.
2. Sulfur compounds, calculated as sulfur dioxide, exceeding 0.2 percent by volume.

Origin: ATC 95-09 (Issued 10/10/95) Condition 14

Authority: Rule 210, Specific Contaminants [amended 10-/19-/93]

#### 3.E. Process PM Limit Rule 211

WRSL shall not discharge in any one hour from any single source of emissions, solid particulate matter in excess of the amount calculated using the following equations:

For Process rates less than 30 tons per hour;  $E = 3.59 P^{**}(0.62)$

For Process weight > 30 tons per hour; E = 17.31 P\*\*(0.16)

Where:

E = Emission limit in pounds per hour

P = Process weight rate in tons per hour

Origin: Rule 211, Process Weight [amended 10-/19-/93]

Authority: Rule 211, Process Weight [amended 10-/19-/93]

### **3.F. Fugitive Dust Rule 228**

a. A person shall not cause or allow the emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area (including disturbance as a result of the raising and/or keeping of animals or by vehicle use), such that the presence of such dust remains visible in the atmosphere beyond the boundary line of the emission source.

Origin: Rule 228, Fugitive Dust, Section 301 [amended 04-/10-/03]

Authority: Rule 228, Fugitive Dust, Section 301 [amended 04-/10-/03]

**District Only**

b. In addition to the requirements of Rule 202, Visible Emissions, a person shall not cause or allow fugitive dust generated by active operations, an open storage pile, or a disturbed surface area, such that the fugitive dust is of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke as dark or darker in shade as that designated as No. 2 on the Ringelmann Chart (i.e. 40% opacity), as published by the United States Bureau of Mines.

Origin: Rule 228, Fugitive Dust, Section 301 [amended 04-/10-/03]

Authority: Rule 228, Fugitive Dust, Section 302 [amended 04-/10-/03]

**District Only**

### **3.G. Report Upsets Rule 404**

The landfill manager or designee shall notify the District (per Rule 404) within two hours of any upset conditions, breakdown or scheduled maintenance which cause emissions in excess of limits established by District Rules and Regulations.

Origin: AC-95-09 (Issued 10/10/95) Condition 2 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 10.

Authority: Rule 404, Upset Conditions, Breakdown, or Scheduled Maintenance § B.1 [amended 06-/19-/79]

**District Only**

### **3.H. Source Record Keeping and Reporting Rule 408**

Upon notification from the District, WRSL shall maintain records of the nature and amounts of emissions from any source and/or any other information as may be deemed necessary by the District to determine whether such source is in compliance with applicable emission limitations or other control measures. The District Air Pollution Control Officer may require that such records be certified by a professional engineer, registered in the State of California. Such studies shall be at the expense of the person causing the emissions. The information recorded shall be summarized and reported to the District, on forms or formats as furnished by the District, and shall be submitted within 45 days after the end of the reporting period. Reporting periods are January 1 - June 30 and July 1 - December 31, except that the initial report period shall commence on the date the District issues notification of the record keeping requirements. Information reported by WRSL and copies of the summarizing reports submitted to the District shall be retained by WRSL for 5 years after the date on which the pertinent report is submitted

Origin: Rule 408, Source Record Keeping and Reporting [amended 05-/24-/77]

Authority: Rule 408, Source Record Keeping and Reporting [amended 05-/24-/77]

### **3.I. General District Permit Requirements Rule 501**

#### **1. ATC Required Rule 501**

a. An Authority to Construct application shall be filed with the District before the modification or

replacement of any equipment for which a Permit to Operate has been granted, and before the installation and operation of any equipment for which an Authority to Construct is required pursuant to Health and Safety Code, Section 42300, and District Rule 501, General Permit Requirements, ~~section~~ Section 300.  
Origin: AC-95-09 (Issued 10/10/95) Condition 6 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 14.  
Authority: Rule 501, General Permit Requirements § 300 [amended 11-/03-/94]

**b.** Any alteration of the subject equipment, including a change in the method of operation, shall be reported to the District. Such alterations may require an Authority to Construct permit.  
Origin: Rule 501, General Permit Requirements § 300 [amended 11-/03-/94]  
Authority: Rule 501, General Permit Requirements § 300 [amended 11-/03-/94]

## **2. Limit Exceedance Prohibited Rule 501**

**a.** The exceedance of any emission limitation established by this permit or the rules and regulations of the District is prohibited, unless specifically allowed by a granted variance, or due to an upset, breakdown, or scheduled maintenance per District Rule 404, Upset Conditions, Breakdown, or Scheduled Maintenance.  
Origin: AC-95-09 (Issued 10/10/95) Condition 9 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 13.  
Authority: Rule 501, General Permit Requirements § 303 [amended 11-/03-/94]

### **District Only**

**b.** Exceeding any limiting condition is prohibited without prior application for, and the subsequent granting of a permit modification pursuant to District Rule 501, General Permit Requirements, District Rule 507, Title V Permit to Operate, and, if necessary, a Prevention of Significant Deterioration (PSD) permit.  
Origin: Rule 501, General Permit Requirements § 400 [amended 11-/03-/94] and Rule 507 § 302.6 and § 302.7 [amended 04-/17-/01]  
Authority: Rule 501, General Permit Requirements § 400 [amended 11-/03-/94] and Rule 507 § 302.6 and § 302.7 [amended 04-/17-/01]

## **3. Maintain Equipment In Good Working Condition Rule 501**

All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Title V Permit to Operate shall be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.  
Origin: AC-95-09 (Issued 10/10/95) Condition 8 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 16  
Authority: Rule 501, General Permit Requirements § 304.3 [amended 11-/03-/94]

## **4. Toxics Hot Spots Compliance Rule 501**

WRSL shall comply the provisions of the "Air Toxics 'Hot Spots' Information and Assessment Act" of 1987 (Health and Safety Code Sections 44300 et seq.).  
Origin: AC-95-09 (Issued 10/10/95) Condition 11 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 19  
Authority: Rule 501, General Permit Requirements § 303.1 [amended 11/03/94] and California Health and Safety Code Sections 44300 et seq.

### **District Only**

## **5. Change of Ownership Rule 501**

**a.** In the event of a change of ownership, an application must be submitted to the District.  
Origin: AC-95-09 (Issued 10/10/95) Condition 7 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 15  
Authority: Rule 501, General Permit Requirements § 303 [amended 11-/03-/94]

**b.** Upon any change in control or ownership of facilities constructed, operated, or modified under authority of this Title V Permit to Operate; the requirements contained in this Permit to Operate shall be binding on all subsequent owners and operators.  
Origin: AC-95-09 (Issued 10/10/95) Condition 7 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 15  
Authority: Rule 501, General Permit Requirements § 303.1 [amended 11-/03-/94]

## **6. Permit Revision Rules 501 and 507**

Revisions to this Title V Permit to Operate may be requested pursuant to District Rule 501, General Permit Requirements, Section 400 and District Rule 507, Title V Permit to Operate, Sections 302.6 and 302.7.  
Origin: AC-95-09 (Issued 10/10/95) Condition 4 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 12

Authority: Rule 501, General Permit Requirements § 400 [amended 11-/03-/94]; Rule 507 § 302.6 and § 302.7 [amended 04-/17-/01]

#### **7. Permit Posting Rule 501**

This permit shall be maintained on the premises of the subject equipment.

Origin: Rule 501, General Permit Requirements § 401 [amended 11-/03-/94]

Authority: Rule 501, General Permit Requirements § 401 [amended 11-/03-/94]

#### **8. Permit Not Permission to Violate Laws Rule 501**

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26, Part 4, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. The permit(s) cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies.

Origin: A7C 95-09 (Issued 10/10/95) Proviso 5

Authority: Rule 501, General Permit Requirements § 303.6 [amended 11-/03-/94]

#### **9. Equipment Must Operate as Specified Rule 501**

a. Operation of equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise prescribed by conditions. Any operation of equipment or discharge of emissions to the atmosphere not identified by application submittals made to the District or exceeding the limits of the operation pursuant to which a permit is granted, shall be deemed a violation.

Origin: AC-95-09 (Issued 10/10/95) Condition 1 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 9

Authority: Rule 501, General Permit Requirements § 303.3 [amended 11-/03-/94]

b. Operation of permitted equipment shall be limited to the maximum rates and schedules of operation, and the specified process materials of approved plans and specifications submitted to the District in application submittals unless otherwise prescribed in the conditions.

Origin: AC-95-09 (Issued 10/10/95) Condition 3 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 18

Authority: Rule 501, General Permit Requirements § 303.3 [amended 11-/03-/94]

#### **10. Portable Equipment**

Any equipment, including portable equipment, shall comply with all applicable requirements while operating at the facility, including District Permit and Prohibitory Regulations, or be State-registered portable equipment. State-registered portable equipment shall comply with State registration requirements. A copy of the State registration shall be readily available whenever the State-registered portable equipment is at the facility.

Origin: Rule 501, General Permit Requirements [amended 11/03/94] and Health and Safety Code Section 41753

Authority: Rule 501, General Permit Requirements [amended 11/03/94] and Health and Safety Code Section 41753

#### **3.J. End Violations Rule 502**

1. In the event of any violation of the District Rules and Regulations, WRSL shall take action to end such violation.

Origin: Rule 502, New Source Review [amended 08-/09-/01]

Authority: Rule 502, New Source Review [amended 08-/09-/01]

2. Pursuant to District Rule 502, New Source Review, Section 227, the plant manager, or designee, shall report to the District immediately any changes in production rates or operation schedules, changes in operation methods or fuel characteristics, the addition to or removal of permitted equipment, and changes of any facilities or systems installed or used to achieve compliance with the District Rules and Regulations in addition to the terms and conditions of this Permit to Operate.

Origin: AC-95-09 (Issued 10/10/95) Condition 3 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 11.

Authority: Rule 502, New Source Review [amended 08-/09-/01]

### 3.K. Emission Statement Rule 503

WRSL shall provide the District with a written emission statement showing actual emissions of volatile organic compounds and oxides of nitrogen. Pursuant to District Rule 503, Emission Statement, WRSL shall submit this emission statement on a form or in a format specified by the District Air Pollution Control Officer. The statement shall contain the following information:

1. Information contained in the California Air Resources Board's Emission Inventory Turn Around Document as described in Instructions for the Emission Data System Review and Update Report; and
2. Actual emissions of volatile organic compounds and oxides of nitrogen, in tons per year, for the calendar year prior to the preparation of the emission statement; and
3. Information regarding seasonal or diurnal peaks in the emission of affected pollutants; and
4. Certification by a responsible official of the company that the information contained in the emission statement is accurate to the best knowledge of the individual certifying the emission statement.

Origin: Rule 503, Emission Statement [amended 09-/21-/93]

Authority: Rule 503, Emission Statement [amended 09-/21-/93]

**District Only**

### 3.L. Federal Operating Permit Program Rule 507

Prior to the transfers of ownership or operational control of a stationary source, ~~the~~ the District Air Pollution Control Officer must receive a written agreement which specifies a date for the transfer of permit responsibility, coverage, and liability from the current to the prospective owner.

Origin: Rule 507, Federal Operating Permit Program § 202.4 305 Transfer [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 202.4 Transfer [amended 04-/17-/01]

### 3.M. Miscellaneous Federal Requirements

**1. Protection of Stratospheric Ozone** WRSL shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82.

Origin: 40 CFR Part 82, Protection of Stratospheric Ozone

Authority: 40 CFR Part 82, Protection of Stratospheric Ozone

#### 2. Chemical Accident Prevention Provisions

If, as defined in 40 CFR ~~§Part~~ 68.3, WRSL becomes subject to 40 CFR Part 68, then WRSL shall submit a Risk Management Plan (RMP) by the date specified in 40 CFR ~~§Part~~ 68.10. A certification of compliance with this condition shall be included as part of the annual certification required by this Title V permit to operate.

Origin: 40 CFR Part 68, Chemical Accident Prevention Provisions

Authority: 40 CFR Part 68, Chemical Accident Prevention Provisions

**3. National Emission Standards for Hazardous Air Pollutants, Asbestos** For demolition and renovation projects involving material containing asbestos, WRSL shall comply with the requirements of 40 CFR 61, National Emission Standards for Hazardous Pollutants, ~~§Sections~~ 60.145 through 61.147.

Origin: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subpart M

Authority: 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants, Subpart M

#### 4. New Source Performance Standards for Municipal Solid Waste Landfills

a. WRSL shall calculate annual NMOC emission rate as specified in 40 CFR § 60.754. WRSL shall recalculate the NMOC mass emission rate annually as required under 40 CFR §60.752(b)(1).

b. WRSL shall compare the calculated NMOC mass emission rate to the standard of 50 megagrams per year.

1. If the NMOC emission rate calculated is less than 50 megagrams per year, then WRSL shall submit an emission rate report to U.S. EPA as provided in 40 CFR § 60.757(b)(1) and forward a copy of the report to the District.

2. If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, then WRSL comply with the requirements of 40 CFR § 60.752(b)(2).

Origin: 40 CFR § 60.750 (Subpart WWW)

Authority: 40 CFR § 60.750 (Subpart WWW)

#### **4. Standard Terms and Conditions**

##### **4.A. Permit Life/Term**

This permit to operate shall expire five (5) years from the time of issuance. Permit expiration terminates WRSL's right to operate unless a timely renewal application is submitted.

Origin: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.p [amended 04-17-01]

##### **4.B. Payment of Fees**

WRSL shall pay all District fees including any supplemental annual fee, as calculated the procedures specified in Section 403 of District Rule 507, on a timely basis. Failure to remit fees on a timely basis shall result in the forfeiture of this permit to operate. Operation without a permit subjects the source to potential enforcement action by the District and the U.S. EPA pursuant to § 502(a) of the Clean Air Act.

Origin: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.o [amended 04-17-01]

##### **4.C. Right of Entry**

The Regional Administrator, the Executive Officer of the California Air Resources Board, the APCO District Air Pollution Control Officer, or their authorized representatives, upon the presentation of credentials, shall be permitted:

1. To enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Permit to Operate; and
2. At reasonable times to have access to, inspect and copy any records required to be kept under the terms and conditions of this Permit to Operate; and
3. To inspect any equipment at the stationary source, operation, work practices, emission-related activities or method required in this Permit to Operate; and
4. To sample emissions from the source or other monitoring activities.

Origin: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.j [amended 04-17-01]

##### **4.D. Severability**

The provisions of this Permit to Operate are severable, and, if any provision of this Permit to Operate is held invalid, the remainder of this Permit to Operate shall not be affected thereby.

Origin: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.m [amended 04-17-01]

##### **4.E. Need to Halt or Reduce Activity Not a Defense**

WRSL shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.4 [amended 04-17-01]

##### **4.F. Modification, Revocation, Reopening for Cause**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by WRSL for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any permit condition.

Origin: Rule 507, Federal Operating Permit Program § 401.7, 401.8, and 402.2 k.5 [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 401.7, 401.8, and 402.2 k.5 [amended 04-17-01]

##### **4.G. Submit Information and Records**

Within a reasonable time period, WRSL shall furnish any information requested by the District Air Pollution Control Officer (APCO) of Placer County Air Pollution Control District, in writing, for the purpose of determining:

1. Compliance with the permit, or
2. Whether or not cause exists for a permit or enforcement action.

For information claimed to be confidential, WRSL may furnish such information directly to the District APCO Air Pollution Control Officer along with a claim of confidentiality.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.6 [amended 04-/17-/01]

#### **4.H. Duty to Comply**

WRSL shall comply with provisions of this permit. Any permit noncompliance constitutes grounds for enforcement action; for permit termination, revocation and re-issuance, or modification; or for denial for a permit renewal application.

Origin: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2 k.1 and 402.2.k.3 [amended 04-/17-/01]

#### **4.I. Property Rights**

This permit does not convey property rights or exclusive privilege of any sort.

Origin: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.k.2 [amended 04-/17-/01]

#### **4.J. Duty to Apply for Renewal**

WRSL shall apply for renewal of this permit no earlier than 18 months before the date of expiration nor later than 6 months before the date of expiration.

Origin: Rule 507, Federal Operating Permit Program § 302.4 [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 302.4 [amended 04-/17-/01]

#### **4.K. Emergency Provisions**

##### **1. Emergency Definition**

An "emergency" is any situation arising from a sudden and reasonably unforeseeable event beyond the control of a WRSL (e.g., an act of God) which causes the exceedance of a technology-based emission limitation under a permit and requires immediate corrective action to restore compliance. An "emergency" shall not include noncompliance as a result of improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

Origin: Rule 507, Federal Operating Permit Program § 212 [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 212 [amended 04-/17-/01]

##### **2. Effect of an Emergency**

An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the reporting requirements have been met.

Origin: 40 CFR §- 70.6(g)(2)

Authority: 40 CFR §- 70.6(g)(2)

##### **3. Affirmative Defense**

The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. WRSL complied with the requirements of Rule 404, Upset Conditions, Breakdown and Scheduled Maintenance, and the emergency provisions contained in all applicable federal requirements; and
- b. That within two weeks of an emergency event, the responsible official submitted to the District a

properly signed, contemporaneous log or other relevant evidence which demonstrates that:

- i. An emergency occurred;
- ii. WRSL can identify the cause(s) of the emergency;
- iii. The facility was being properly operated at the time of the emergency;
- iv. All steps were taken to minimize the emissions resulting from the emergency; and
- v. Within two working days of the emergency event, WRSL provided the District with a description of the emergency and any mitigating or corrective actions taken.

Origin: District Rule 507, Federal Operating Permit Program § 402.2.l [amended 04-17-01]

Authority: District Rule 507, Federal Operating Permit Program § 402.2.l [amended 04-17-01]

#### **4. Burden of Proof**

In any enforcement proceeding, WRSL has the burden of proof for establishing that an emergency occurred.

Origin: Rule 507, Federal Operating Permit Program § 402.2.l.3 [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.l.3 [amended 04-17-01]

#### **4.L. Voluntary Emissions Caps**

To the extent applicable federal requirements provide for averaging emissions increases and decreases within a stationary source without case-by-case approval, a responsible official may request, subject to approval by the District Air Pollution Control Officer, to permit one or more emissions unit(s) under a voluntary emissions cap. The permit for each emissions unit shall include federally-enforceable conditions requiring that:

1. All applicable federal requirements, including those authorizing emissions averaging, are complied with;
2. No individual emissions unit shall exceed any emissions limitation, standard, or other requirement;
3. Any emissions limitation, standard, or other requirement shall be enforced through continuous emission monitoring, where applicable; and
4. All affected emissions units under a voluntary emissions cap shall be considered to be operating in violation of the permit, if the voluntary emissions cap is exceeded.

Origin: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.r [amended 04-17-01]

#### **4.M. Agency Addresses**

Notifications or correspondence as required by this Title V Permit To Operate shall be forwarded to the following addresses:

1. Director, Air Division (Attn: AIR-3)  
U.S. Environmental Protection Agency  
75 Hawthorne Street  
San Francisco, CA 94105
  
2. Air Pollution Control Officer  
Placer County Air Pollution Control District  
~~11464 "B" Avenue~~ 3091 County Center Drive, Suite 240  
Auburn, CA 2053095603

Origin: General Information

Authority: General Information

#### **4.N. Reopening Permit for Cause**

This permit shall be reopened and revised under any of the following circumstances including, but are not limited to, the following:

- a. The need to correct a material mistake or inaccurate statement;
- b. The need to revise or revoke a permit to operate to assure compliance with applicable federal requirements;
- c. The need to incorporate any new, revised, or additional applicable federal requirements, if the remaining authorized life of the permit is 3 years or greater, no later than 18 months after the promulgation of such requirement (where less than 3 years remain in the authorized life of the permit, the District Air Pollution Control Officer shall incorporate these requirements into the permit to operate upon renewal).

Origin: Rule 507, Federal Operating Permit Program § 401.8 [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 401.8 [amended 04-17-01]

#### **4.O. Permit Revision Exemption**

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

Origin: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.u [amended 04-17-01]

#### **4.P. Permit Shield**

A 40 CFR Part 70.6(f) Permit Shield exists. The Permit Shield shall comply with the limitations of 40 CFR Part 70.

##### 1. Shield

~~Compliance with the conditions of this Title V Permit to Operate shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:~~

- ~~a. Such applicable requirements are included and are specifically identified in this Title V Permit to Operate; or~~
- ~~b. In acting on this Title V Permit to Operate application or revision, the District determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.~~

##### 2. Exceptions

~~Nothing in this section or in any part of this permit shall alter or affect the following:~~

- ~~a. The provisions of section 303 of the Clean Air Act (emergency orders), including the authority of the Administrator under that section;~~
- ~~b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;~~
- ~~c. The applicable requirements of the acid rain program, consistent with section 408(a) of the Clean Air Act; or~~
- ~~d. The ability of EPA to obtain information from a source pursuant to section 114 of the Clean Air Act.~~

Origin: 40 CFR § 70.6(f)

Authority: 40 CFR § 70.6(f)

#### **4.Q Indemnification**

WRSL has an obligation to defend and indemnify the District against third party challenges in accordance with District Rule 411.

Origin: Rule 411, Indemnification of District [adopted 02/14/08]

Authority: Rule 411, Indemnification of District [adopted 02/14/08]

**District Only**

## 5. Alternative Scenarios

### 5.A. Upset Conditions

The following alternative operating scenario is for equipment experiencing an unforeseen breakdown that may result in excess emissions for a short period of time (i.e. less than 48 hours). There may be periods when WRS� facility will be operated pursuant to the requirements of the Rule 404 (Upset Conditions, Breakdown or Scheduled Maintenance) and/or the Emergency Provisions under 40 CFR § 70.6(g). During these times, WRS� will comply with all the relevant notification, monitoring, reporting and record keeping requirements contained in Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance, and 40 CFR § 70.6(g).

Origin: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.q [amended 04-17-01]

## 6. Monitoring, Testing, and Recordkeeping

### 6.A. General Monitoring Frequency, Record Keeping and Reporting and Testing Requirements

All monitoring, analytical methods, compliance certification, test methods, equipment management, and statistical procedures shall be consistent with any applicable federal requirement, including those pursuant to Sections 114(a)(3) and 504(b) of the Federal Clean Air Act, and 40 CFR Part 64.

#### 1. Monitoring Frequency

Monitoring (sampling, testing, recording) shall be performed at a frequency sufficient to yield accurate, reliable, and representative data with which the source's compliance with applicable limits or conditions can be demonstrated.

#### 2. Record Keeping

a. WRSL shall:

1. Maintain records of all required monitoring data and support information associated with any applicable federal requirement in form suitable for inspection including:
  - a. Date, place, and time of sampling;
  - b. Operating conditions at the time of sampling;
  - c. Date, place, and method of analysis; and
  - d. The company or entity that performed the analyses;
  - e. Results of the analysis;
  - f. Copies of all reports as required by applicable federal requirements; and
2. Comply with all record keeping requirements deemed necessary by the District Air Pollution Control Officer to ensure compliance with all applicable federal requirements; and

Note: Support information includes information on Continuous Monitoring Equipment operations including:

- 1a. All calibration and maintenance records; and
- 2b. All original recordings for continuous monitoring instrumentation; and
- 3c. Performance and all other information required by 40 CFR 60.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04-/17-/01]

b. All records shall be made available to the District's inspector upon request.

Origin: Rule 501, General Permit Requirements § 503.1 [amended 11/03/94]

Authority: Rule 501, General Permit Requirements § 503.1 [amended 11/03/94]

c. All required monitoring data and support information shall be retained for a period of at least 5 years.

Origin: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04-/17-/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.f.3 [amended 04-/17-/01]

#### 3. Reporting

WRSL shall:

a. Promptly report to the District Air Pollution Control Officer any deviation from permit requirements, including that attributable to upset conditions (as defined in District Rule 404, Upset Conditions, Breakdown or Scheduled Maintenance). All reports of a deviation from permit requirements shall include the probable cause of the deviation and any preventative or corrective action taken. Prompt reporting is as soon as reasonably possible, but no later than two (2) hours after the deviation is detected.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

b. Submit monitoring reports at least every six months identifying deviation from permit requirements, including those previously reported to the District Air Pollution Control Officer in accordance with Subsection 6.A.3.a. Monitoring reports shall be submitted within 45 days of the end of the reporting period (Reporting periods are January 1 - June 30 and July 1 - December 31). Each monitoring report shall be

accompanied by a written statement from the responsible official which certifies the truth, accuracy, and completeness of the report.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04/17/01]

**c.** Submit compliance schedule progress reports on any compliance schedule at least semi-annually. Progress schedule reports shall include;

1. The date when compliance will be achieved,
2. An explanation of why compliance was not, or will not be, achieved by the scheduled date, and
3. A log of any preventative or corrective action taken.

Origin: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.g [amended 04-17-01]

**d.** Submit annual NMOC emissions report to U.S. EPA as specified in 40 CFR § 60.757(b) and forward a copy of this report to the District.

Origin: 40 CFR § 60.750 (Subpart WWW)

Authority: 40 CFR § -60.750 (Subpart WWW)

**e.** Submit amended capacity reports to U.S. EPA as specified in 40 CFR § 60.757(a)(3) and forward a copy to the District.

Origin: 40 CFR § 60.750 (Subpart WWW)

Authority: 40 CFR § -60.750 (Subpart WWW)

#### **4. Testing**

**a.** The District may require the conduct of any emissions testing or analysis deemed necessary to demonstrate compliance with applicable requirements. If the District determines that tests are required, a written notice will be provided to WRSL.

Origin: Rule 501, General Permit Requirements § 303 [amended 11-03-94]

Authority: Rule 501, General Permit Requirements § 303 [amended 11-03-94]

**b.** Except as otherwise specified in District rules, regulations, or permit conditions the test methods used for determining compliance with emission limits shall be from:

1. Methods adopted by the California Air Resources Board and cited in Title 17, California Code of Regulations, Division 3, Subchapter 8, Compliance with Non-vehicular Emission Standards; or
2. Methods identified in 40 CFR ~~part~~ Part 50, Appendix M, Recommended Test Methods for State Implementation Plans; or
3. Methods identified in 40 CFR ~~part~~ Part 60, Appendix A, Test Methods; or
4. Any alternative method approved by the Air Pollution Control Officer.

Note: District The Air Pollution Control Officer shall request the review of the alternate test methods by the U.S. Environmental Protection Agency and the California Air Resources Board.

Origin: Rule 501, General Permit Requirements § 501.1 [amended 11-03-94]

Authority: Rule 501, General Permit Requirements § 501.1 [amended 11-03-94]

**c.** All required testing shall be subject to the following:

1. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the District Air Pollution Control Officer is required for the use of alternate test methods.
2. Independent testing contractors and analytical laboratories shall be Air Resources Board certified to perform the test or analysis conducted.
3. Testing shall be conducted as close as achievable to the maximum process rates or the permitted rates resulting in maximized air pollutant emission rates.
4. The conditions and equipment in operation during testing shall be recorded. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded.
5. The test evaluation results shall be reported to the District within sixty (60) days of testing.

Origin: Rule 501, General Permit Requirements § 501.1 [amended 11-/03-/94]  
Authority: Rule 501, General Permit Requirements § 501.1 [amended 11-/03-/94]

## 6.B. Specific Monitoring

### 1. Flare Sampling Port, Platforms, and Access

The WRSL shall maintain four sampling ports in the large and small flare stack at least two feet above flame zone and at least three feet below the top of the flare shroud or half the diameter of the flare whichever is greater. The ports shall be spaced at 90 degrees. Adequate and safe access to all ports shall be maintained.

Origin: AC-95-09 (Issued 10/10/95) Condition 15 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 1  
Authority: Rule 502, New Source Review § 227 [last-amended 11-/03-/94]

2. For performance test purposes, sampling ports, platforms, and access shall be provided by WRSL on the large and small flare exhaust system in accordance with 40 CFR § 60.8(e).

Origin: 40 CFR § 60.8(e)  
Authority: 40 CFR § 60.8(e)

## 6.C. Logs

WRSL shall establish and maintain a log book or other record detailing the performance and date of preventive maintenance, corrective maintenance, and inspections, as well as reporting breakdowns (per District Rule 404, Upset, Breakdown and Scheduled Maintenance).

Origin: AC-95-09 (Issued 10/10/95) Condition 20 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 5  
Authority: Rule 501, General Permit Requirements § 503.1.a [amended 11-/03-/94]

## 6.D. Compliance Assurance

1. The WRSL shall calibrate, maintain, and operate a device that records flow to or bypass of the large and small flares.

Origin: PTO-PLWR-01-01 (Issued 12/14/01) Condition 4  
Authority: Rule 502, New Source Review § 227 [last-amended 11-/03-/94]

2. ~~The flare~~The large and small flares shall be equipped with a temperature sensor located at least three feet below the top of the flare shroud and 0.6 seconds downstream of the burner.

Origin: AC-95-09 (Issued 10/10/95) Condition 16 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 2  
Authority: Rule 502, New Source Review § 227 [last-amended 11-/03-/94]

3. The landfill gas flow rate to the small and large flares shall be monitored at least every 15 minutes and recorded once per hour.

Origin: AC-95-09 (Issued 10/10/95) Condition 18 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 4  
Authority: Rule 502, New Source Review § 227 [last-amended 11-/03-/94]

4. The following performance tests shall be completed every two years for the large and small flares:

a. Non-Methane Organic Compounds (NMOC) shall be measured at the inlet of the flare and the exhaust -using the EPA ~~method~~Method 25 modified to delete the condensate trap from the sampling train.

b. The inlet flowrate shall be measured using U.S. EPA Method 2 or the continuous flow measuring system.

c. The exhaust flow shall be determined by U.S. EPA Method 2 or the "F" factor method in the Code of Federal Regulations40 CFR §Part 60.45(f)(5).

d. Nitrogen oxides emissions in pounds per million Btu shall be determined using U.S. EPA Method 7.

e. Carbon Monoxide emissions in pounds per million Btu shall be determined using U.S. EPA Method 10.

f. Oxygen concentrate shall be determined using U.S. EPA Method 3A.

g. Gross Calorific Value of the landfill gas shall be measured using ASTM D 1826-77.

Origin: A7C 95-09 (Issued 10/10/95) Condition 21

Authority: Rule 502, New Source Review § 227 [last-amended 11-/03-/94]

**5. The performance tests shall be subject to the following restrictions:**

a. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the District Air Pollution Control Officer detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the District Air Pollution Control Officer is required for the use of alternate test methods.

b. Testing shall be conducted in accordance with 40 CFR §-Part 60, Appendix A, Methods, or equivalent methods approved by the State of California Air Resources Board (ARB) by reference in Title 17 of the California Administrative Code, or other methods specified by Placer County Department of Public Works and approved in writing by the District Air Pollution Control Officer. Independent testing contractors and analytical laboratories shall be California Air Resources Board certified for the test or analysis conducted.

c. Testing shall be conducted as close as achievable to the maximum process rates or the permitted rates resulting in maximized air pollutant emission rates.

d. The evolutions conducted and plant equipment in operation shall be recorded. Installed instrumentation readings for parameters affecting emission character or extent shall be recorded.

e. The performance test evaluation results shall be reported to the District within sixty (60) days of testing.

Origin: AC-95-09 (Issued 10/10/95) Condition 22 and PTO-PLWR-01-01 (Issued 12/14/01) Condition 7.

Authority: Rule 502, New Source Review § 227 [last-amended 11-/03-/94]

## 7. Compliance Plan and Certification

### 7.A. Compliance Plan

WRSL shall follow the compliance plan as submitted with the Title V Permit application. A copy of this compliance plan shall be attached and posted along with this permit.

The compliance plan shall:

1. Describes the compliance status of an emissions unit with respect to each applicable federal requirement;
2. Describes how compliance will be achieved if an emissions unit is not in compliance with an applicable federal requirement at the time of permit issuance;
3. Assures that an emissions unit will continue to comply with those permit conditions with which it is in compliance; and
4. Assures that an emissions unit will comply, on a timely basis, with any applicable federal requirement that will become effective during the permit term.

Origin: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.h [amended 04-17-01]

### 7.B. Compliance Certification

WRSL shall submit compliance certification reports to the U.S. EPA and the APCO District Air Pollution Control Officer every twelve (12) months. The certification report shall:

1. Identify all permit terms or conditions and the means of monitoring each term or condition.2. Include the compliance status and method(s) used to determine compliance for the current time period and over the entire reporting period of each term or condition.
3. Include any additional inspection, monitoring, or entry requirement that may be promulgated pursuant to Sections 114(a) and 504(b) of the Federal Clean Air Act between reports.
4. Be submitted on District approved forms for the compliance certification.
5. Be submitted within 45 days after the end of the reporting period of January 1 - December 31.

The responsible official will certify in writing the truth, accuracy, and completeness of the certification report.

Origin: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.n [amended 04-17-01]

### 7.C. Compliance Schedules

1. Should any emissions unit in compliance with applicable federal requirements become non-compliant during the certification period, WRSL shall develop and submit to the District a compliance schedule. The compliance schedule shall:

- a. Resemble and be at least as stringent as that contained in any judicial consent decree, administrative order, or schedule approved by the District hearing board.
- b. Include:
  - i. A statement that the emissions unit will continue to comply with those federal requirements with which it is still in compliance;
  - ii. A statement that the emissions unit will comply, on a timely basis, with any applicable federal requirement that may become effective during the remaining term of this permit.
  - iii. A list of all preventative or corrective actions or activities taken or proposed to be taken, and the dates when these activities have or will be performed and completed.

The compliance schedule, once approved by the District, shall be incorporated into the compliance certification plan and the revised plan affixed to this permit.

2. WRSL shall submit progress reports consistent with the applicable compliance schedule at least semiannually, or more frequently if specified in the applicable schedule requirements or requested by the District. Progress reports shall include:

- a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and; and The date when compliance will be achieved;

- b. A log or record of dates when such activities, milestones or compliance were achieved; and
- c. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted or taken.

Origin: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04-17-01]

Authority: Rule 507, Federal Operating Permit Program § 402.2.i [amended 04-17-01]

**Attachment II**

**Compliance Plan**



**WESTERN PLACER**  
WASTE MANAGEMENT AUTHORITY

WP-001

*ROBERT WEYGANDT, PLACER COUNTY, CHAIRMAN*

JOHN ALLARD, ROSEVILLE  
ROCKY ROCKHOLM, PLACER COUNTY  
GEORGE MAGNUSON, ROCKLIN  
SPENCER SHORT, LINCOLN  
JAMES DURFEE, EXECUTIVE DIRECTOR

October 17, 2008

Mr. Todd Nishikawa  
Placer County Air Pollution Control District  
Compliance and Enforcement Division  
3091 County Center Drive, Suite 240  
Auburn, CA 95603

**RE: WESTERN REGIONAL SANITARY LANDFILL TITLE V PERMIT RENEWAL  
APPLICATION**

Dear Mr. Nishikawa:

Enclosed is the Title V Permit Renewal Application for the Western Regional Sanitary Landfill. Included are Forms A1, A2, I1, I2, J1, J2 and M per PCAPCD staff. Also included are Forms C1 and C2; sample emissions calculations based on the most recent flare source test data; fugitive emission estimates based on 2007 data; and a facility schematic showing emission points.

Please contact me at (530) 886-4986 should you have questions regarding the enclosed application.

Sincerely,

---

William Zimmerman, P.E.  
Environmental Engineering Program Manager

***RECYCLING AND DISPOSAL MADE EASY***

11476 C AVENUE AUBURN, CA 95603  
(916) 543-3960 / (916) 543-3990 FAX  
WWW.WPWMA.COM

**TITLE V AIR OPERATING PERMIT  
RENEWAL APPLICATION  
WESTERN REGIONAL SANITARY LANDFILL  
LINCOLN, CALIFORNIA**

Prepared by:

Western Placer Waste Management Authority  
11476 C Avenue  
Auburn, California 95603  
October 15, 2008

## INTRODUCTION

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This Title V Air Operating Permit Renewal Application was prepared for the Western Regional Sanitary Landfill (WRSL) by the Western Placer Waste Management Authority (WPWMA) consistent with the Placer County Air Pollution Control District (PCAPCD) Title V program contained in Regulation 5, Rule 507 (Federal Operating Permit Program) of PCAPCD's Rules and Regulations, and published guidance documents.

The initial Title V application package submitted in 2001 by the WPWMA included a formal request for a permit shield from non-applicable requirements. The WPWMA requests that this shield be renewed in conjunction with the Title V Permit.

The following forms are included in Appendix A as required by Title V and the PCAPCD:

- Stationary Source Summary
- Combustion Emission Unit Descriptions
- Summary of Exempt Equipment
- Compliance Plan
- Compliance Plan Certification
- Certification Statement

The Title V permit renewal application for the WRSL includes the following sources:

- Two landfill gas flares [emissions of nonmethane organic compounds (NMOC), particulate matter less than 10 microns (PM<sub>10</sub>), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), and carbon monoxide (CO)].
- Fugitive landfill gas emissions (emissions of NMOC).

- Fugitive dust emissions (reported as PM-10) from combustion of landfill gas, daily landfill operations including excavation and placement of soil for daily cover and vehicle travel on unpaved roads.

Appendix B includes the following emissions calculations tables:

- Emissions Estimate Summary
- Actual Landfill Gas Flare Emissions
- Fugitive PM-10 Emissions Associated with Landfill Operations
- Fugitive PM-10 Emissions Resulting from Vehicle Travel on Unpaved Roads
- Maximum Landfill Gas Flare Emissions Estimates

Appendix C contains a facility schematic identifying emission points.

## **PERMIT SHIELD REQUEST**

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Title V requirements applicable to the WRSL are presented on Form 507-J2. Per PCAPCD guidance, non-applicable requirements are not required to be listed on any application form. It is implicitly inferred that requirements that have not been included on the applicable requirements table on Form 507-J2 are not applicable to the WRSL. The WPWMA requests a renewed permit shield from non-applicable requirements, and that the renewed operating permit state that "compliance with the terms and conditions of the operating permit shall be deemed compliant with all applicable requirements contained in the operating permit."

**APPENDIX A**  
**APPLICATION FORMS**

# STATIONARY SOURCE SUMMARY

(FORM 507-A1)

**DISTRICT:** Placer County Air Pollution Control District

**COMPANY NAME:** Western Placer Waste Management Authority

## ▶ DISTRICT USE ONLY ◀

District ID: \_\_\_\_\_

Application #: \_\_\_\_\_

Application Received: \_\_\_\_\_

Application Filing Fee: \_\_\_\_\_

Application Deemed Complete: \_\_\_\_\_

### I. FACILITY IDENTIFICATION

1. Facility Name: Western Regional Sanitary Landfill
2. Four digit SIC Code: 4953 EPA Plant ID: CAH111000280
3. Parent Company (if different than Facility Name): Western Placer Waste Management Authority
4. Mailing Address: 11476 C Avenue, Auburn CA 95603
5. Street Address of Source Location: 3195 Athens Avenue, Lincoln CA 95648
6. UTM Coordinates (if required): N427500, E185500
7. Source located within:  
50 miles of state line  Yes  No  
50 miles of a Native American Nation  Yes  No  Not applicable
8. Type of Organization:  Corporation  Sole Ownership  Government  Partnership  Utility Company
9. Legal Owner's Name: Western Placer Waste Management Authority
10. Owner's Agent Name (if any): Not Applicable
11. Responsible Official: James Durfee, Executive Director, Western Placer Waste Management Authority
12. Plant Site Manager/Contact: Eric Oddo, P.E., Senior Civil Engineer, Western Placer Waste Management Authority
13. Type of facility: Class II/III Solid Waste Sanitary Landfill
14. General description of processes/products: Class II/III solid waste disposal site. Includes a landfill gas recovery system.
15. Does your facility store, or otherwise handle, greater than the threshold quantities of any substance on the Section 112(r) List of Substances and their Thresholds (see attachment A)?  Yes  No
16. Is a Federal Risk Management Plan [pursuant to Section 112(r)] required?  Not applicable  Yes  No  
(If yes, attach verification that Risk Management Plan is registered with appropriate agency or description of status of Risk Management Plan submittal.)

# STATIONARY SOURCE SUMMARY

(FORM 507-A2)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

## II. TYPE OF PERMIT ACTION

	CURRENT PERMIT (permit number)	EXPIRATION (date)
<input type="checkbox"/> Initial Title V Application		
<input checked="" type="checkbox"/> Permit Renewal	WR-001	May 18, 2009
<input type="checkbox"/> Significant Permit Modification		
<input type="checkbox"/> Minor Permit Modification		
<input type="checkbox"/> Administrative Amendment		

## III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:
- a:  Portable Source     Voluntary Emissions Caps  
 Acid Rain Source     Alternative Operating Scenarios  
 Source Subject to MACT Requirements [Section 112]
- b:  None of the options in 1.a. are applicable
2. Is source operating under Compliance Schedule?     Yes     No
3. For permit modifications, provide a general description of the proposed permit modification:    Not Applicable

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# COMBUSTION EMISSION UNIT

(FORM 507-C1)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

**I. PERMIT NUMBER:** PLWR-01-01

**II. EMISSION UNIT DESCRIPTION**

1. Equipment type: Enclosed landfill gas flare (Large Flare)
2. Equipment description: 9-foot Ø x ~ 40-foot tall industrial flare
3. Equipment make, model & serial number: Linklater, Model GF 4000 F
4. Maximum design process rate or maximum power input/output: 75.9 MMBtu/hr; 2,500 scfm
5. Primary use: Methane combustion and NMOC reduction
6. Burner(s) design, operating temperature and capacity: Operating temperature range of 1,400 – 1,800 °F
7. Control device(s) type and description (if any): Flare operates as an NMOC control device

**III. OPERATIONAL INFORMATION**

1. Operating schedule: 24 (hours/day) 8760 (hours/year)
2. Exhaust gas properties (temperature, SCFM, %H<sub>2</sub>O, %O<sub>2</sub> or % CO<sub>2</sub>, %excess air): Per 9/13/06 Flare Source Test:  
Temp 1491 °F; 12,155 SCFM; 7% H<sub>2</sub>O; 13.03% O<sub>2</sub>
3. Fuel specifications:

FUEL TYPE (name)	ANNUAL USAGE (c.f./yr, lb/yr, gal/yr)	HEATING VALUE (BTU/lb or BTU/gal)	SULFUR (%)	NITROGEN (%)
Methane	Varies according to gas generation rate. At maximum throughput (2,500 scfm), ~1,314,000,000 ft <sup>3</sup> is combusted. In 2007, 252,533,262 ft <sup>3</sup> of LFG was combusted.	1,009 Btu/ft <sup>3</sup>	Trace	24

# COMBUSTION EMISSION UNIT

(FORM 507-C1)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

**I. PERMIT NUMBER:** PLWR-05-01

**II. EMISSION UNIT DESCRIPTION**

1. Equipment type: Enclosed landfill gas flare (Small Flare)
2. Equipment description: 6-foot Ø x ~ 30-foot tall industrial flare
3. Equipment make, model & serial number: LFG Specialties; Model EF63016
4. Maximum design process rate or maximum power input/output: 13.9 MMBtu/hr; 450 scfm
5. Primary use: Methane combustion and NMOC reduction
6. Burner(s) design, operating temperature and capacity: Minimum combustion temperature of 1450°F
7. Control device(s) type and description (if any): Flare operates as an NMOC control device

**III. OPERATIONAL INFORMATION**

1. Operating schedule: 24 (hours/day) 8760 (hours/year)
2. Exhaust gas properties (temperature, SCFM, %H<sub>2</sub>O, %O<sub>2</sub> or % CO<sub>2</sub>, %excess air): Per 2/7/07 Flare Source Test: 1,653°F; 3,736 SCFM; 13.4% O<sub>2</sub>
3. Fuel specifications:

FUEL TYPE (name)	ANNUAL USAGE (c.f./yr, lb/yr, gal/yr)	HEATING VALUE (BTU/lb or BTU/gal)	SULFUR (%)	NITROGEN (%)
Methane	Varies according to gas generation rate. At maximum throughput (450 scfm), ~236,520,000 ft <sup>3</sup> is combusted. In 2007, 20,799,052 ft <sup>3</sup> of LFG was combusted.	1,009 Btu/ft <sup>3</sup>	Trace	24

# COMBUSTION EMISSION UNIT

(FORM 507-C2)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

4. Unit Emissions: Maximum emissions are presented. Actual emissions will vary with landfill gas generation. Particulate emissions also result from landfill operations such as excavation and soil transport.

CRITERIA POLLUTANT EMISSIONS (tons per year)					
POLLUTANTS	NMOC	CO	NO <sub>x</sub>	SO <sub>2</sub>	PM-10
A. Emissions <sup>1</sup>	8.23	0.31	5.82	1.85	12.22
B. Pre-modification Emissions <sup>2</sup>					
C. Emission Change <sup>3</sup>					
D. Emission Limit <sup>4</sup>					
OTHER REGULATED AIR POLLUTANT EMISSIONS (tons per year)					
POLLUTANTS					
A. Emissions					
B. Pre-modification Emissions <sup>2</sup>					
C. Emission Change <sup>3</sup>					
D. Emission Limit <sup>4</sup>					

1. Maximum emissions estimates were based on the maximum values predicted using the EPA's landfill gas generation model and unit emission factors calculated during the source tests for the large and small flares (Table 6) and the actual emissions estimates based on the amount of LFG processed through each flare (Tables 2 and 3). Actual emissions will vary from the estimates due to the operation of internal combustion engines operated by others to produce electricity. The operation of those engines reduces the need to operate the flares on a continuous basis.

2. For permit modifications only; emissions prior to project modification.

3. Difference between Pre-Modification Emissions (Section B.) and Emissions (Section A.).

4. For voluntary emissions cap and emission limit [i.e. expressed as parts per million (ppm) corrected for dilution air, pounds per hour (lbs/hr), pounds per million BTU (lb/MMBTU), etc.] required by any federal requirement.

# COMPLIANCE PLAN

(FORM 507-II)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

**I. PROCEDURE FOR USING FORM 507-I**

*This form shall be submitted as part of the Title V Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 507-I), a Responsible Official shall identify whether the source identified in the Title V Application currently operates in compliance with all applicable federal requirements.*

**II. APPLICABLE FEDERAL REQUIREMENTS**

APPLICABLE FEDERAL REQUIREMENT	EMISSION UNIT or PERMIT NUMBER	IN COMPLIANCE (yes/no/exempt <sup>1</sup> )	EFFECTIVE DATE <sup>2</sup>
PCAPCD <sup>3</sup> Rule 101 – Title	Facility-wide	Yes	See Note 5
PCAPCD Rule 102 – Definitions	Facility-wide	Yes	
PCAPCD Rule 103 – Validity	Facility-wide	Yes	
PCAPCD Rule 201 – Coverage	Facility-wide	Yes	
PCAPCD Rule 202 – Visible Emission	Facility-wide	Yes	
PCAPCD Rule 203 – Exemptions to Rule 202	Facility-wide	Yes	
PCAPCD Rule 210 – Specific Contaminants	Facility-wide	Yes	
PCAPCD Rule 211 – Process Weight	Facility-wide	Yes	
PCAPCD Rule 407 – Circumvention	Facility-wide	Yes	
PCAPCD Rule 408 – Source Recordkeeping and Reporting	Facility-wide	Yes	
PCAPCD Rule 508 – General Conformity	Facility-wide	Yes	
<b>Sacramento Valley Air Basin Regulation I – General Provisions</b>			
SVAB <sup>4</sup> Rule 105 – Civil Action	Facility-wide	Yes	
<b>Sacramento Valley Air Basin Regulation II – Prohibitions</b>			
SVAB Section 51 – Nuisance	Facility-wide	Yes	
SVAB Rule 207 – Particulate Matter	Facility-wide	Yes	

1 *If exempt from applicable federal requirements, attach explanation for exemption.*  
 2 *Indicate the date during the permit term that the applicable federal requirement will become effective*  
 3 *PCAPCD: Placer County Air Pollution Control District*  
 4 *SVAB: Sacramento Valley Air Basin*  
 5 *Applicable upon issuance of the Title V Permit.*

# COMPLIANCE PLAN

(FORM 507-I1)  
- Continued -

<b>DISTRICT:</b> Placer County Air Pollution Control District	<b>▶ DISTRICT USE ONLY: ◀</b>  <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

### III. PROCEDURE FOR USING FORM 507-I

*This form shall be submitted as part of the Title V Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 507-I), a Responsible Official shall identify whether the source identified in the Title V Application currently operates in compliance with all applicable federal requirements.*

### IV. APPLICABLE FEDERAL REQUIREMENTS

APPLICABLE FEDERAL REQUIREMENT	EMISSION UNIT or PERMIT NUMBER	IN COMPLIANCE (yes/no/exempt <sup>1</sup> )	EFFECTIVE DATE <sup>2</sup>
<b>Sacramento Valley Air Basin Regulation IV – Miscellaneous Provisions</b>			
SVAB Rule 401 – Responsibility	Facility-wide	Yes	See Note 5
SVAB Rule 402 – Authority to Inspect	Facility-wide	Yes	
SVAB Rule 403 – Responsibility of Permittee	Facility-wide	Yes	
SVAB Rule 409 – Public Records	Facility-wide	Yes	
<b>Sacramento Valley Air Basin Article 2 – Application for Building Permit</b>			
SVAB Section 10 – Construction Permit Required	Facility-wide	Yes	
SVAB Section 11 – Registration Required	Facility-wide	Yes	
SVAB Section 12 – Exemptions from Permit and Registration	Facility-wide	Yes	
SVAB Section 15 – Standards for Granting Granting Applications for Building Permits	Facility-wide	Yes	
SVAB Section 16 – Conditional Approval	Facility-wide	Yes	
SVAB Section 17 – Denial of Applications	Facility-wide	Yes	
SVAB Section 18 – Further Information	Facility-wide	Yes	
SVAB Section 19 – Application Deemed Denied	Facility-wide	Yes	
SVAB Section 20 – Appeals	Facility-wide	Yes	
<sup>1</sup> If exempt from applicable federal requirements, attach explanation for exemption. <sup>2</sup> Indicate the date during the permit term that the applicable federal requirement will become effective <sup>3</sup> PCAPCD: Placer County Air Pollution Control District <sup>4</sup> SVAB: Sacramento Valley Air Basin <sup>5</sup> Applicable upon issuance of the Title V Permit.			

# COMPLIANCE PLAN

(FORM 507-I1)

- Continued -

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

## V. PROCEDURE FOR USING FORM 507-I

*This form shall be submitted as part of the Title V Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 507-I), a Responsible Official shall identify whether the source identified in the Title V Application currently operates in compliance with all applicable federal requirements.*

## VI. APPLICABLE FEDERAL REQUIREMENTS

APPLICABLE FEDERAL REQUIREMENT	EMISSION UNIT or PERMIT NUMBER	IN COMPLIANCE (yes/no/exempt <sup>1</sup> )	EFFECTIVE DATE <sup>2</sup>
SVAB Rule 507 – Provision of Sampling and Testing Facilities	Facility-wide	Yes	See Note 5
<b>Sacramento Valley Air Basin Article 3 – Fees</b>			
SVAB Section 40 – Hearing Board Fees	Facility-wide	Yes	
SVAB Section 42 – Technical Reports, Charges for	Facility-wide	Yes	
SVAB Rule 602 – Analysis Fees	Facility-wide	Yes	
SVAB Rule 604 – Renewal Fee	Facility-wide	Yes	
SVAB Rule 605 – Exemptions to Rule 604	Facility-wide	Yes	
<b>Sacramento Valley Air Basin Regulation VII – Procedure Before the Hearing Board</b>			
SVAB Rule 701 – General	Facility-wide	Yes	
SVAB Rule 702 – Filing Petitions	Facility-wide	Yes	
SVAB Rule 703 – Contents of Petition	Facility-wide	Yes	
SVAB Rule 704 – Petitions for Variance	Facility-wide	Yes	
SVAB Rule 705 – Appeal from Denial	Facility-wide	Yes	
SVAB Rule 706 – Failure to Comply with Rules	Facility-wide	Yes	
SVAB Rule 707 – Answers	Facility-wide	Yes	
SVAB Rule 708 – Dismissal of Petition	Facility-wide	Yes	

1 *If exempt from applicable federal requirements, attach explanation for exemption.*  
 2 *Indicate the date during the permit term that the applicable federal requirement will become effective*  
 3 *PCAPCD: Placer County Air Pollution Control District*  
 4 *SVAB: Sacramento Valley Air Basin*  
 5 *Applicable upon issuance of the Title V Permit.*

# COMPLIANCE PLAN

(FORM 507-I1)

- Continued -

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

## VII. PROCEDURE FOR USING FORM 507-I

*This form shall be submitted as part of the Title V Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 507-I), a Responsible Official shall identify whether the source identified in the Title V Application currently operates in compliance with all applicable federal requirements.*

## VIII. APPLICABLE FEDERAL REQUIREMENTS

APPLICABLE FEDERAL REQUIREMENT	EMISSION UNIT or PERMIT NUMBER	IN COMPLIANCE (yes/no/exempt <sup>1</sup> )	EFFECTIVE DATE <sup>2</sup>
SVAB Rule 709 – Place of Hearing	Facility-wide	Yes	See Note 5
SVAB Rule 710 – Notice of Hearing	Facility-wide	Yes	
SVAB Rule 711 – Evidence	Facility-wide	Yes	
SVAB Rule 712 – Preliminary Notice	Facility-wide	Yes	
SVAB Rule 713 – Official Notice	Facility-wide	Yes	
SVAB Rule 714 – Continuances	Facility-wide	Yes	
SVAB Rule 715 – Decision	Facility-wide	Yes	
SVAB Rule 716 – Effective Date of Decision	Facility-wide	Yes	
SVAB Rule 717 – Lack of Permit	Facility-wide	Yes	
<b>Sacramento Valley Air Basin Regulation VIII – Enforcement</b>			
SVAB Rule 801 – Enforcement	Facility-wide	Yes	
SVAB Rule 802 – Authority to Arrest	Facility-wide	Yes	
SVAB Rule 803 – Penalties	Facility-wide	Yes	
SVAB Rule 804 – Order for Abatement	Facility-wide	Yes	
1 <i>If exempt from applicable federal requirements, attach explanation for exemption.</i> 2 <i>Indicate the date during the permit term that the applicable federal requirement will become effective</i> 3 <i>PCAPCD: Placer County Air Pollution Control District</i> 4 <i>SVAB: Sacramento Valley Air Basin</i> 5 <i>Applicable upon issuance of the Title V Permit.</i>			

# COMPLIANCE PLAN

(FORM 507-I2)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

### III. COMPLIANCE CERTIFICATION

*Under penalty of perjury, I certify the following:*

- Based on the information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) with which the source is in compliance identified in form 507-I1;*
- Based on information and belief formed after reasonable inquiry, the source identified in this application will comply with the future-effective applicable requirement(s) identified in form 507-I1, on a timely basis<sup>1</sup>;*
- Based on information and belief formed after reasonable inquiry, the source identified in this application is not in compliance with the applicable federal requirement(s), identified in form 507-I1, and I have attached a compliance plan schedule.<sup>2</sup>*

\_\_\_\_\_  
Signature of Responsible Official

\_\_\_\_\_  
Date

1. Unless a more detailed schedule is expressly required by the applicable federal requirement.
2. At the time of expected permit issuance, if the source expects to be out of compliance with an applicable federal requirement, the application is required to provide a compliance schedule with this application, with the following exception. A source which is operating under a variance that is effective for less than 90 days need not submit a Compliance Schedule. For sources operating under a variance, which is in effect for more than 90 days, the Compliance Schedule is the schedule that was approved as part of the variance granted by the hearing board.

The compliance schedule shall contain a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with this applicable federal requirement. For sources operating under a variance, the compliance schedule is part of the variance granted by the hearing board. The compliance schedule shall resemble, and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. For sources not operating under a variance, consult the Air Pollution Control Officer regarding procedures for obtaining a compliance schedule.

# COMPLIANCE PLAN CERTIFICATION

(FORM 507-J1)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

**I. CERTIFICATION STATUS**

1. Indicate the dates the applicant intends to submit the **COMPLIANCE CERTIFICATION REPORT** to the district during the entire permit term. The district federal operating permits rule requires the applicant to submit this report at least annually.

Annual compliance certification reports have been and will continue to be submitted on or before January 31

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for each subsequent calendar year of the term of the permit.

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2. For sources required to have a schedule of compliance to remedy a violation, indicate the dates the applicant intends to submit **CERTIFIED PROGRESS REPORTS** to the district during the permit term. The district federal operating permits rule requires the applicant to submit this report at least annually.

Not applicable: there are no compliance issues at the facility.

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3. Describe the compliance status of the source with respect to applicable enhanced monitoring, and compliance certification requirements of Section 114(a)(3) of the Clean Air Act.

The LFG flare has permit limits on NOx (19.9 tons per year) and CO (66.4 tons per year) emissions.

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Since these limits are less than the major source threshold (25 tpy for NOx and 100 tpy for CO), the flare is exempt per 40 CFR 64.2(a)(3).

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NMOC emissions from the landfill are subject to the New Source Performance Standards in 40 CFR Subpart C.

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# COMPLIANCE PLAN CERTIFICATION

(FORM 507-J2)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

## II. CERTIFICATION INFORMATION

EMISSION UNIT or PERMIT NUMBER: LFG Flares

 APPLICABLE FEDERAL REQUIREMENT: 40 CFR Part 60 - NSPS

METHOD	DESCRIPTION OR REFERENCE METHOD
Monitoring	Pursuant to 40 CFR 60.756
Reporting	Pursuant to 40 CFR 60.757
Record Keeping	Pursuant to 40 CFR 60.758
Test Methods	Pursuant to 40 CFR 60.752-60.759

EMISSION UNIT or PERMIT NUMBER: Surface emissions

 APPLICABLE FEDERAL REQUIREMENT: 40 CFR Part 60 - NSPS

METHOD	DESCRIPTION OR REFERENCE METHOD
Monitoring	Pursuant to 40 CFR 60.756
Reporting	Pursuant to 40 CFR 60.757
Record Keeping	Pursuant to 40 CFR 60.758
Test Methods	Pursuant to 40 CFR 60.752-60.759

# CERTIFICATION STATEMENT

(FORM 507-M)

<b>DISTRICT:</b> Placer County Air Pollution Control District	▶ <b>DISTRICT USE ONLY:</b> ◀ <b>DISTRICT ID:</b>
<b>COMPANY NAME:</b> Western Placer Waste Management Authority	<b>FACILITY NAME:</b> Western Regional Sanitary Landfill

Identify, by checking off below, the forms and attachments that are part of your application. If the application contains forms or attachments that are not identified below, please identify these attachments in the blank space provided below. Review the instructions if you are unsure of the forms and attachments that need to be included in a complete application.

**Forms included with application**

Stationary Source Summary Form

Total Stationary Source Emission Form

Compliance Plan Form

Compliance Plan Certification Form

Exempt Equipment Form

Certification Statement Form

**List other forms or attachments**

Combustion emission unit (507-C1 & C2)

\_\_\_\_\_

\_\_\_\_\_

check here if additional forms listed on back

**Attachments included with application**

Description of Operating Scenarios

Sample emission calculation

Fugitive emission estimates

List of Applicable requirements

Discussion of units out of compliance with applicable federal requirements and, if required, submit a schedule of Compliance

Facility schematic showing emission points

NSR Permit

PSD Permit

Enhanced monitoring protocols

I certify under penalty of law, based on information and belief formed after reasonable inquiry, that the information contained in this application, composed of the forms and attachments identified above, are true, accurate, and complete.

I certify that I am the responsible official, as defined in Rule 507, Federal Operating Permit Program.

\_\_\_\_\_  
Signature of Responsible Official date

James Durfee

\_\_\_\_\_  
Print Name of Responsible Official

Executive Director, Western Placer Waste Management Authority

\_\_\_\_\_  
Title of Responsible Official and Company Name

**APPENDIX B**  
**EMISSION CALCULATIONS TABLES**

**Table 1**  
**EMISSIONS ESTIMATE SUMMARY**  
**(Based on flare source tests conducted September 13, 2006 and February 7, 2007)**

CRITERIA POLLUTANT EMISSIONS (tons per year)					
POLLUTANTS	NMOC	CO	NO <sub>x</sub>	SO <sub>2</sub>	PM-10
A. Estimated 2007 Emissions	8.23	0.14	5.82	1.85	12.22
B. Actual 2007 Emissions <sup>1</sup>	4.98	0.31	2.33	0.65	12.22
C. Maximum 2007 Emissions Estimates	8.23	0.31	5.82	1.85	12.22

*1. Emissions based on actual 2007 flows processed through a combination of the large and small flares.*

**Table 2**  
**Actual Landfill Gas Flare Emissions - Large Flare**  
**(Based on flare source test conducted September 13, 2006)**

**Carbon Monoxide**

Total LFG processed through flare	252,533,262 scf/yr
CO emissions (outlet) measured during source test	0.027 lb/hr
LFG flow through flare measured during source test	1,097 scfm
CO emissions per unit flowrate of LFG	2.461E-05 lb/hr/scfm
Estimated CO emissions	<u>0.05 tons</u>

**Non-Methane Organic Compounds**

Total LFG processed through flare	252,533,262 scf/yr
NMOC emissions (outlet) measured during source test	0.46 lb/hr
LFG flow through flare measured during source test	1,097 scfm
NMOC emissions per unit flowrate of LFG	2.461E-05 lb/hr/scfm
Landfill gas collection system efficiency	80 %
Estimated LFG flow not processed through the flare	63,133,316 scf/yr
NMOC emissions (inlet) measured during source test	9.48 lb/hr
LFG flow through flare measured during source test	1,097 scfm
NMOC emissions per unit flowrate of LFG	8.642E-03 lb/hr/scfm
Estimated NMOC emissions	<u>4.60 tons</u>

**Nitrogen Oxides**

Total LFG processed through flare	252,533,262 scf/yr
NO <sub>x</sub> emissions (outlet) measured during source test	1.135 lb/hr
LFG flow through flare measured during source test	1,097 scfm
NO <sub>x</sub> emissions per unit flowrate of LFG	1.035E-03 lb/hr/scfm
Estimated NO <sub>x</sub> emissions	<u>2.18 tons</u>

**Particulate Matter - 10 Micron**

Total LFG processed through flare	252,533,262 scf/yr
PM <sub>10</sub> emissions per unit flowrate of methane (AP-42)	1.018E-03 lb/hr/scfm
Methane content of landfill gas	39.5 %
Estimated PM <sub>10</sub> emissions per unit flowrate of LFG	4.021E-04 lb/hr/scfm
Estimated PM <sub>10</sub> emissions	<u>0.85 tons</u>

**Sulfur Dioxide**

Total LFG processed through flare	252,533,262 scf/yr
SO <sub>2</sub> emissions per unit flowrate of LFG (AP-42)	1.646E-07 tons/yr/scfm
Estimated SO <sub>2</sub> emissions	<u>0.69 tons</u>

**Note:** Estimated emissions may vary from those presented on Tables B-2 through B-6 since the landfill gas flowrates shown herein are based on actual site monitoring data whereas the estimates shown on Tables B-2 through B-6 are based on the EPA's predictive model.

**Table 3**  
**Actual Landfill Gas Flare Emissions - Small Flare**  
**(Based on flare source test conducted February 07, 2007)**

**Carbon Monoxide**

Total LFG processed through flare	20,799,052 scf/yr
CO emissions (outlet) measured during source test	0.55 lb/hr
LFG flow through flare measured during source test	369 scfm
CO emissions per unit flowrate of LFG	1.491E-03 lb/hr/scfm
Estimated CO emissions	<u>0.26 tons</u>

**Non-Methane Organic Compounds**

Total LFG processed through flare	20,799,052 scf/yr
NMOC emissions (outlet) measured during source test	0.014 lb/hr
LFG flow through flare measured during source test	369 scfm
NMOC emissions per unit flowrate of LFG	1.491E-03 lb/hr/scfm
Landfill gas collection system efficiency	80 %
Estimated LFG flow not processed through the flare	5,199,763 scf/yr
NMOC emissions (inlet) measured during source test	1.057 lb/hr
LFG flow through flare measured during source test	369 scfm
NMOC emissions per unit flowrate of LFG	2.864E-03 lb/hr/scfm
Estimated NMOC emissions	<u>0.38 tons</u>

**Nitrogen Oxides**

Total LFG processed through flare	20,799,052 scf/yr
NO <sub>x</sub> emissions (outlet) measured during source test	0.313 lb/hr
LFG flow through flare measured during source test	369 scfm
NO <sub>x</sub> emissions per unit flowrate of LFG	8.482E-04 lb/hr/scfm
Estimated NO <sub>x</sub> emissions	<u>0.15 tons</u>

**Particulate Matter - 10 Micron**

Total LFG processed through flare	20,799,052 scf/yr
PM <sub>10</sub> emissions per unit flowrate of methane (AP-42)	1.018E-03 lb/hr/scfm
Methane content of landfill gas	39.5 %
Estimated PM <sub>10</sub> emissions per unit flowrate of LFG	4.021E-04 lb/hr/scfm
Estimated PM <sub>10</sub> emissions	<u>0.07 tons</u>

**Sulfur Dioxide**

Total LFG processed through flare	20,799,052 scf/yr
SO <sub>2</sub> emissions per unit flowrate of LFG (AP-42)	1.646E-07 tons/yr/scfm
Estimated SO <sub>2</sub> emissions	<u>0.06 tons</u>

**Note:** Estimated emissions may vary from those presented on Tables B-2 through B-6 since the landfill gas flowrates shown herein are based on actual site monitoring data whereas the estimates shown on Tables B-2 through B-6 are based on the EPA's predictive model.

**Table 4**  
**Fugitive PM-10 Emissions Associated with Landfill Operations**

**1) Refuse and Soil Compaction**

**Method:** AP-42, 5th Edition, Table 11.9-1

**Equation:**  $E_1 = (c)(0.75)(1.0)(s^{1.5})/(M^{1.4})$  [lb/year]

**Variables:**  
 s = material silt content [%]  
 M = material moisture content [%]  
 c = annual operating hours [hours]

**Values:**  
 s = 6.9% (AP-42 Table 11.9-3)  
 M = 7.9% (AP-42 Table 11.9-3)  
 c = 4,194 (operate 12 hours per day, Mon - Sat and 10 hours per day Sunday, w/ 6 holidays/yr)

**Calculation:**  $E_1 = (4,194 \text{ hours/yr})(0.75)(1.0)(.069^{1.5})/[(.079^{1.4})(2000 \text{ lbs/ton})]$

$E_1 = 1.00 \text{ tons/year}$

**2) Scraper Loading and Unloading of Soils**

**Method:** AP-42, 5th Edition, Table 11.9-4

**Equation:**  
 $E_{2L} = (0.058)(\text{tons of soil loaded})$  [lb/ton]  
 $E_{2U} = (0.04)(\text{tons of soil unloaded})$  [lb/ton]  
 $E_2 = E_{2L} + E_{2U}$

**Variables:** tons of soil loaded/unloaded

**Values:** For the purposes of detailing the calculation, the actual soil usage as reported by the landfill operator in their quarterly reports to the WPWMA was used. The annual soil usage figure is presented on Table B-7a.

**Calculation:**  $E_2 = (0.058+0.04)(64,223 \text{ tons/yr})(2,000 \text{ lb/ton})$

$E_2 = 3.15 \text{ tons/yr}$

**3) Scraper in Travel**

**Method:** AP-42, 5th Edition, Table 11.9-1 (Section 13.2.2)

**Equation:**  $E_3 = [(VMT)(k)(s/12)^a(W/3)^b]/(M/0.2)^c$  [lb/yr]

**Variables:**  
 VMT = vehicle miles traveled by scraper per year [miles]  
 s = material silt content [%]  
 W = mean vehicle weight [tons]  
 M = material moisture content [%]  
 k = AP-42 constant [lb/VMT]  
 a, b & c = AP-42 constants

**Values:**  
 VMT = 2,120 (Based on actual soil usage @ 15yd<sup>3</sup> soil/scraper load and a roundtrip distance of approximately 0.56 miles.)  
 s = 7.5% (AP-42, Table 13.2.4-1)  
 W = 53.1 (Average of loaded & unloaded weights. Unloaded weight: ~89,000 lbs  
 Loaded weight adds ~ 17.2 tons [based on 15 yd<sup>3</sup> @ 2,295 lb/yd<sup>3</sup>])  
 M = 20% (AP-42, Section 13.2.2)  
 k = 2.6 (AP-42, Table 13.2.2-2)

**Table 4**  
**Fugitive PM-10 Emissions Associated with Landfill Operations**

a = 0.8 (AP-42, Table 13.2.2-2)  
 b = 0.4 (AP-42, Table 13.2.2-2)  
 c = 0.3 (AP-42, Table 13.2.2-2)

**Calculation:**  $E_3 = \{[(2,120 \text{ miles})(2.6 \text{ lb/mile})(0.09/12)^{0.8}(53.1 \text{ tons}/3)^{0.4}]/(0.2/0.2)^{0.3}\}/(2000 \text{ lb/ton})$

$E_3 = 0.15 \text{ tons/yr}$

**4) Road Grading**

**Method:** AP-42, 5th Edition, Table 11.9-1

**Equation:**  $E_4 = (0.60)(0.051)(S)^{2.0}(\text{VMT}) \text{ [lb/yr]}$

**Variables:** S = mean vehicle speed [miles per hour]  
 VMT = vehicle miles traveled by grader per year [miles/yr]

**Values:** S = 7.1 (AP-42, Table 11.9-3)  
 VMT = 63.2 (WPWMA staff estimate)

**Calculation:**  $E_4 = (0.60)(0.051)(7.1 \text{ mph})^{2.0}(63 \text{ miles/yr})/(2000 \text{ lb/ton})$

$E_4 = 0.05 \text{ tons/yr}$

**4) Wind Erosion of Exposed Surfaces**

**Method:** CEQA Air Quality Handbook, SCAQMD 1993

**Equation:**  $E_5 = (1.7)(G/1.5)([365-H]/235)(I/15)(J)(SA) \text{ [lb/yr]}$

**Variables:** G = silt content of soils  
 H = number of days with at least 0.01 inches of precipitation  
 I = percentage of time wind speeds exceed 12 mph  
 J = fraction of total suspended particulates  
 SA = exposed surface area (acres)

**Values:** G = 7.5 (AP-42, Table 13.2.4-1)  
 H = 41 Lincoln weather station (cdec.water.ca.gov)  
 I = 10 Lincoln weather station (cdec.water.ca.gov), assumed value for wind gusts  
 J = 0.5 (SCAQMD recommendation)  
 SA = 36.5 (WPWMA EIR January 2003)

**Calculation:**  $E_5 = (1.7)(.075/1.5)([365-41]/235)(.7/15)(.5)(36.5)(365 \text{ days/year})/(2000 \text{ lb/ton})$

$E_5 = 1.43 \text{ tons/yr}$

**Total Landfill Operational Emissions**

$E_T = E_1 + E_2 + E_3 + E_4 + E_5$

$E_T = 5.77 \text{ tons/yr}$

**Table 5**  
**Fugitive PM-10 Emissions Resulting from Vehicle Travel on Unpaved Roads**

Vehicle Type	Material Type	Vehicle Weight (tons) <sup>1</sup>			Annual Vehicle Count <sup>1</sup>	Cumulative Weight <sup>2</sup> (tons)	Relative Contribution <sup>3</sup>	Effective Weight <sup>4</sup> (tons)	Total Miles Traveled <sup>5</sup> (miles)
		Loaded	Unloaded	Average					
self-haul vehicles	Inert	5.2	3.8	4.5	8,200	36,900	5.59%	0.25	2,795
	MSW	6.7	5.7	6.2	2,676	16,591	2.52%	0.16	2,331
	C&D	7.9	6.2	7.1	4,425	31,196	4.73%	0.33	3,855
10-wheel truck	Inert	15.8	9.4	12.6	3,540	44,604	6.76%	0.85	1,207
	MSW	15.9	12.0	14.0	5,291	73,251	11.11%	1.55	4,575
	C&D	14.2	10.9	12.6	4,169	52,321	7.93%	1.00	3,632
	Food Waste	23.9	17.3	20.6	3,614	74,448	11.29%	2.33	3,149
	Residue	18.5	14.0	16.3	970	15,763	2.39%	0.39	845
	ADC	24.2	13.0	18.6	1,176	21,874	3.32%	0.62	1,025
	Sludge (dried)	33.9	14.2	24.1	9	216	0.03%	0.01	8
Sludge	21.2	12.1	16.7	1,623	27,023	4.10%	0.68	1,414	
18-wheel truck	Residue	33.8	18.1	26.0	10,228	265,417	40.24%	10.44	8,911
<b>Totals</b>		221.2	136.7	179.0	45,881	659,604	100.00%	18.60	33,746

**Notes:**

- Source of data: Western Placer Waste Management Authority, January 1, 2007 - December 31, 2007.
- Equal to the product of the average vehicle weight and the annual vehicle count.
- Equal to the relative percentage of the cumulative weight of each vehicle class compared to the total weight for all vehicle classes.
- Equal to the product of the average vehicle weight and the relative contribution for a particular vehicle class.
- Equal to the product of the annual vehicle miles and the average roundtrip mileage traveled on the unpaved section of road at the landfill.
- Based on AP-42 values assuming low silt content due to frequency of vehicle traffic on the haul road.
- Based on data for Lincoln as compiled by Weather Underground (www.wunderground.com).
- Moisture content assumed based on routine road watering operations conducted by landfill operator.
- PM-10 generation reduction factor based on regular watering of

**Fugitive PM-10 Emissions Estimate:**

$$E_U = [k (s/12)^a (W/3)^b (365-p)] / [365 (M/0.2)^c] \times (1-\alpha) \quad (\text{AP-42, 5th Edition, Chapter 13})$$

Variable	Value	Units	Description
$E_T$	see below	tons	Total Emissions
$E_U$	see below	lb/VMT	Emissions per mile traveled
k	2.6	lb/VMT	AP-42 constant
$s^6$	2.2	%	surface material silt content
W	18.60	ton	mean vehicle weight
$p^7$	63	days	# of days with at least 0.01" precip.
$M^8$	1.0	%	surface material moisture content
a	0.8	-	AP-42 constant
b	0.4	-	AP-42 constant
c	0.3	-	AP-42 constant
$\alpha$	70	%	Watering control factor

Unit Emissions	$E_U =$	0.21	lb/VMT
Total Emissions	$E_T =$	3.59	tons

Table 6  
 WRSL Maximum Landfill Gas Flare Emissions Estimates

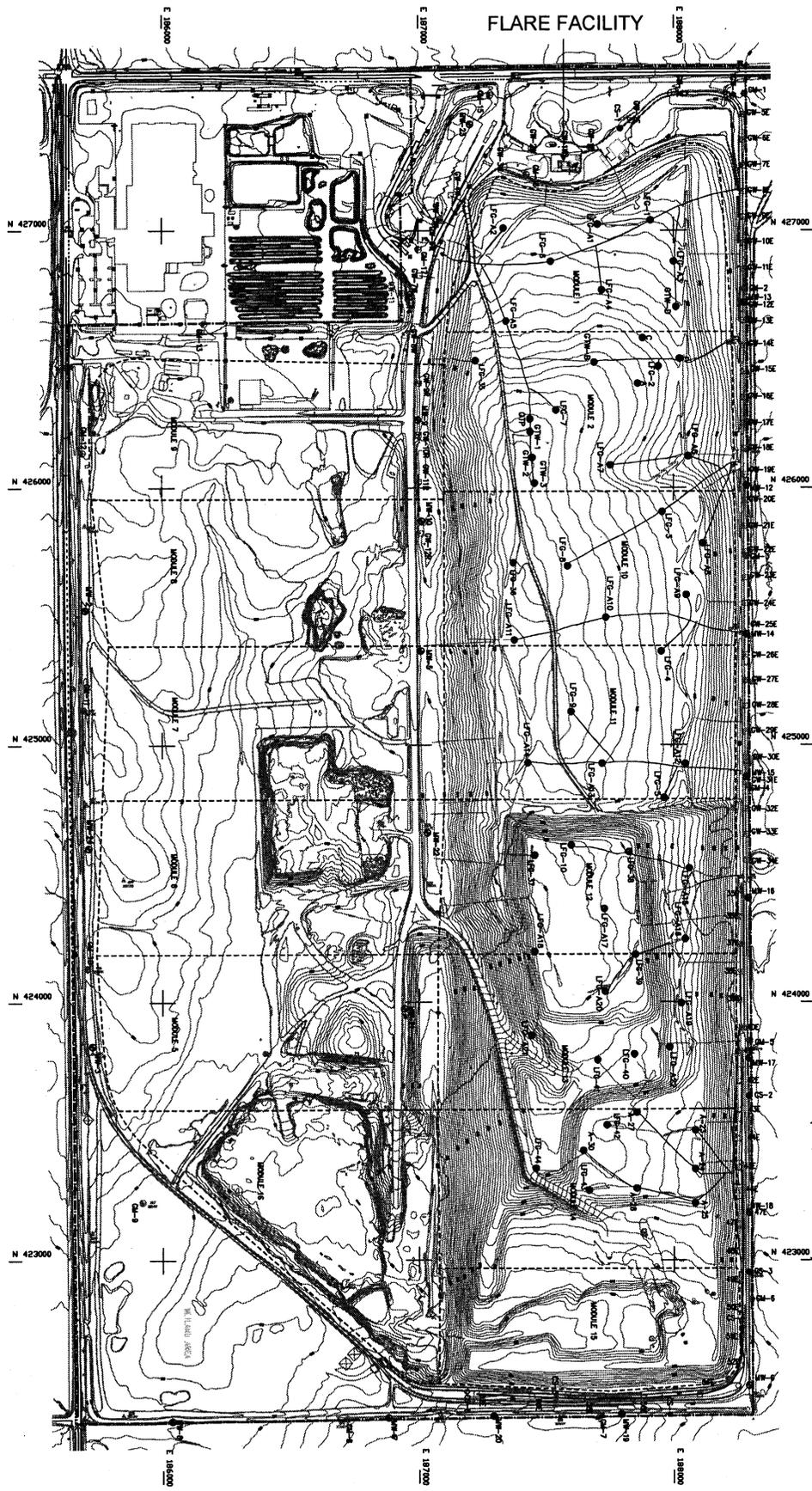
Year	LFG Generation	LFG Extraction	Flow to Large Flare	Flow to small flare	CO	NMOC	NO <sub>x</sub>	PM-10	SO <sub>2</sub>
2007	1606	1284	1284	0	0.14	8.23	5.82	2.86	1.85
2008	1662	1330	1330	0	0.14	8.52	6.03	2.96	1.92
2009	1715	1372	1372	0	0.15	8.79	6.22	3.06	1.98
2010	1767	1413	1413	0	0.15	9.05	6.41	3.15	2.04
2011	1819	1455	1455	0	0.16	9.32	6.60	3.24	2.10
2012	1872	1498	1498	0	0.16	9.60	6.79	3.34	2.16
2013	1928	1542	1542	0	0.17	9.88	6.99	3.44	2.22
2014	1985	1588	1588	0	0.17	10.17	7.20	3.54	2.29
2015	2043	1635	1635	0	0.18	10.47	7.41	3.64	2.36
2016	2104	1683	1683	0	0.18	10.78	7.63	3.75	2.43
2017	2166	1733	1733	0	0.19	11.10	7.86	3.86	2.50
2018	2231	1785	1785	0	0.19	11.43	8.09	3.98	2.57
2019	2297	1838	1838	0	0.20	11.77	8.33	4.10	2.65
2020	2365	1892	1892	0	0.20	12.12	8.58	4.22	2.73
2021	2436	1948	1948	0	0.21	12.48	8.83	4.34	2.81
2022	2508	2006	2006	0	0.22	12.86	9.10	4.47	2.89
2023	2583	2066	2066	0	0.22	13.24	9.37	4.61	2.98
2024	2660	2128	2128	0	0.23	13.63	9.65	4.74	3.07
2025	2739	2191	2191	0	0.24	14.04	9.93	4.88	3.16
2026	2821	2256	2256	0	0.24	14.46	10.23	5.03	3.25
2027	2905	2324	2324	0	0.25	14.89	10.53	5.18	3.35
2028	2991	2393	2393	0	0.26	15.33	10.85	5.34	3.45
2029	3081	2465	2465	0	0.27	15.79	11.17	5.49	3.55
2030	3173	2538	2500	38	0.52	16.51	11.48	5.66	3.66
2031	3267	2614	2500	114	1.01	17.48	11.76	5.83	3.77
2032	3365	2692	2500	192	1.52	18.48	12.05	6.00	3.88
2033	3466	2773	2500	273	2.05	19.52	12.35	6.18	4.00
2034	3569	2855	2500	355	2.59	20.58	12.65	6.37	4.12
2035	3676	2941	2500	441	3.15	21.67	12.97	6.56	4.24
2036*	3786	3029	3,029	0	0.33	19.41	13.73	6.75	4.37
2037	3899	3119	3,119	0	0.34	19.99	14.14	6.95	4.50
2038	4016	3213	3,213	0	0.35	20.58	14.56	7.16	4.63
2039	4136	3309	3,309	0	0.36	21.20	15.00	7.38	4.77
2040	4260	3408	3,408	0	0.37	21.84	15.45	7.60	4.91
2041	4387	3510	3,510	0	0.38	22.49	15.91	7.83	5.06
2042	4519	3615	3,615	0	0.39	23.16	16.39	8.06	5.21
2043	4518	3614	3,614	0	0.39	23.16	16.38	8.06	5.21
2044	4340	3472	3,472	0	0.37	22.25	15.74	7.74	5.01
2045	4170	3336	3,336	0	0.36	21.38	15.12	7.44	4.81

\*A second 2,500 scfm flare would be introduced to accommodate these future increased flows .

**APPENDIX C**

**FACILITY SCHEMATIC – EMISSION POINTS**

FLARE FACILITY



ACTIVE MODULES  
(13, 14 AND 15)

SCALE: 1" = 200'  
DATE: 04/19/07  
PROJECT: WESTERN REGIONAL SANITARY LANDFILL  
SHEET: 13, 14 AND 15  
BY: [UNRECOGNIZABLE]  
CHECKED BY: [UNRECOGNIZABLE]  
APPROVED BY: [UNRECOGNIZABLE]

**SCE ENGINEERS**  
Environmental Consultants  
3050 Fire Circle, Suite 101  
Sacramento, California 95827  
(916) 361-1297 FAX: (916) 361-1299  
PROJECT: WESTERN REGIONAL SANITARY LANDFILL  
SHEET: 13, 14 AND 15  
DATE: 04/19/07  
BY: [UNRECOGNIZABLE]  
CHECKED BY: [UNRECOGNIZABLE]  
APPROVED BY: [UNRECOGNIZABLE]

WESTERN PLACER WASTE  
MANAGEMENT AUTHORITY

SHEET TITLE: MARCH 1, 2007 TOPOGRAPHY  
PROJECT TITLE: WESTERN REGIONAL SANITARY LANDFILL  
PLACER COUNTY, CALIFORNIA

NO.	REVISION	DATE
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1 stabilization levels by reducing overall emissions to fifty percent  
2 below 1990 levels, or seventy percent below the state's expected  
3 emissions that year.

4 (b) By December 1, 2008, the department shall submit a greenhouse  
5 gas reduction plan for review and approval to the legislature,  
6 describing those actions necessary to achieve the emission reductions  
7 in (a) of this subsection by using existing statutory authority and any  
8 additional authority granted by the legislature. Actions taken using  
9 existing statutory authority may proceed prior to approval of the  
10 greenhouse gas reduction plan.

11 (c) Except where explicitly stated otherwise, nothing in this act  
12 limits any state agency authorities as they existed prior to the  
13 effective date of this section.

14 (d) Consistent with this directive, the department shall take the  
15 following actions:

16 (i) Develop and implement a system for monitoring and reporting  
17 emissions of greenhouse gases as required under RCW 70.94.151; and

18 (ii) Track progress toward meeting the emission reductions  
19 established in this subsection, including the results from policies  
20 currently in effect that have been previously adopted by the state and  
21 policies adopted in the future, and report on that progress.

22 (2) By December 31st of each even-numbered year beginning in 2010,  
23 the department and the department of community, trade, and economic  
24 development shall report to the governor and the appropriate committees  
25 of the senate and house of representatives the total emissions of  
26 greenhouse gases for the preceding two years, and totals in each major  
27 source sector. The department shall ensure the reporting rules adopted  
28 under RCW 70.94.151 allow it to develop a comprehensive inventory of  
29 emissions of greenhouse gases from all significant sectors of the  
30 Washington economy.

31 (3) Except for purposes of reporting, emissions of carbon dioxide  
32 from industrial combustion of biomass in the form of fuel wood, wood  
33 waste, wood byproducts, and wood residuals shall not be considered a  
34 greenhouse gas as long as the region's silvicultural sequestration  
35 capacity is maintained or increased.

36 NEW SECTION. **Sec. 4.** (1)(a) The director shall develop, in  
37 coordination with the western climate initiative, a design for a