SHORELINE AMPHITHEATRE
TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Shoreline Amphitheatre Landfill	**Facility ID#:** A2561
Permitted Unit: S-1 – Landfill Gas Collection System	**Reporting Period:** *from* 06/01/2015 *through* 11/30/2015

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
Collection System Installation Dates	BAAQMD 8-34-501.7 and 501.8	Records	Periodic / Event Basis	BAAQMD 8-34-304.1	For Inactive / Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial placement	Continuous	N/A
Gas Flow	BAAQMD 8-34-501.10 and 508	Gas Flow Meter and Recorder (every 15 minutes)	Continuous	BAAQMD 8-34-301.1	Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	Continuous	N/A
Gas Flow	BAAQMD Condition # 876, Parts 10,11, and 18b-e and BAAQMD Regulation 8-34-501.1 and 8-34-501.2	Gas Flow Meter, Flare Alarms, and Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components	Periodic / Daily	BAAQMD Condition # 876, Parts 3 and 4	Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	Continuous	
Collection and Control Systems Shutdown Time	BAAQMD Condition # 876, Parts 18b, 18d, and 18e and BAAQMD 8-34-501.1	Operating Records	Periodic / Daily	BAAQMD 8-34-113.2	≤240 hours/year and 5 consecutive days	Continuous	N/A

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Periods of In-operation for Parametric Monitors	BAAQMD 1-523.4	Operating Records for All Parametric Monitors	Periodic / Daily	BAAQMD 1-523.2	≤15 consecutive days/incident and ≤30 days/12 month period	Continuous	N/A
Continuous monitors	40 CFR 60.7(b)	Operating Records for All Continuous Monitors	Periodic / Daily	40 CFR 60.13(e)	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	Continuous	N/A
Wellhead Pressure	BAAQMD 8-34-414, 501.9 and 505.1 and BAAQMD Condition # 876, Part 18i	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34-305.1 and BAAQMD Condition #876, Part 3b	< 0 psig (applies to each well or collector connected to vacuum)	Continuous	N/A
Temperature of Gas at Wellhead	BAAQMD 8-34-414, 501.9 and 505.2 and BAAQMD Condition # 876, Part 18i	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34-305.2 and BAAQMD Condition #876, Part 3b	<55°C (131°) (applies to each well or collector connected to vacuum)	Continuous	N/A
Gas Concentrations at Wellhead	BAAQMD Condition # 876, Part 3d –e and 18i	Monthly Inspection and Records	Periodic / Monthly	BAAQMD Condition #876, Part 3c(i)	O_2 ≤ 15% by volume (applies to all wells and collectors connected to vacuum, except as described in Part 3c (ii-iii))	Continuous	N/A

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Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
Collection System Component Operating Requirements	BAAQMD Condition # 876, Parts 3d-e and 18i	Monthly Inspection and Records	Periodic / Monthly	BAAQMD 8-34-404 and BAAQMD Condition # 876, Part 3a(i & iii)	≥20 wells and collectors operating continuously at any one time and re-connect wells and collectors to vacuum when wellhead CH_4 > 20% by volume	Continuous	N/A
Well Shutdown Limits	BAAQMD 8-34-117.6 and 501.1	Records	Periodic / Daily	BAAQMD 8-34-117.4	No more than 5 wells at a time or 10% of total collection system, whichever is less	Continuous	N/A
Well Shutdown Limits	BAAQMD 8-34-117.6 and 501.1	Records	Periodic / Daily	BAAQMD 8-34-117.5	≤24 hours per well	Continuous	N/A
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 876, Part 18i	Quarterly Inspection of Collection and Control System Components with Portable Analyzer and Records	Periodic / Quarterly	BAAQMD 8-34-301.2	≤1000 ppmv as methane (component leak limit)	Continuous	N/A
Surface emission monitoring (TOC)	BAAQMD 8-34-415, 416, 501.6, 506 and 510 and BAAQMD Condition # 876, Part 18i	Monthly cover visual inspection of Cover; Quarterly Inspection with Portable Analyzer of Surface, Various Reinspection Times for Leaking Areas and Records	Periodic / Monthly, Quarterly, and Event Basis	BAAQMD 8-34-303	≤500 ppmv as methane at 2 inches above surface (surface leak limit)	Continuous	N/A

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Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
H_2S	None	N/A	None	BAAQMD 9-2-301	Property Line Ground Level Limits: ≤0.06 ppm, averaged over 3 minutes and ≤0.03 ppm, averaged over 60 minutes.	Continuous	N/A
Amount of Waste Accepted	BAAQMD Regulation 8-34-501.7	Records	Periodic / Annual	BAAQMD Condition # 876, Part 1	0 tons/day and ≤366,000 tons (cumulative amount of all wastes) and ≤542,000 yd^3 (cumulative amount of all wastes and cover materials)	Continuous	N/A
Startup Shutdown or Malfunction Procedures	40 CFR 63.1980(a-b)	Records (all occurrences, duration of each, corrective actions)	Periodic/Event Basis	40 CFR 63.6(e)	Minimize Emissions by Implementing SSM Plan	Continuous	N/A

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TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Shoreline Amphitheatre Landfill	**Facility ID#:** A2561
Permitted Unit: A-1 – Carbon Adsorption System	**Reporting Period:** *from* 06/01/2015 *through* 11/30/2015

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 876, Parts 16 and 18i	Source Tests and Records	Periodic / Annual	BAAQMD 8-34-301.3	≥98% removal by weight OR < 30 ppmv, dry basis @ 3% O_2, expressed as methane (applies to A-2 Landfill Gas Flare only)	Continuous	Flare A-2 did not operate during the reporting period.
Temperature of Combustion Zone (CT)	BAAQMD 8-34-501.3 and 507 and SIP 8-34-501.3 and BAAQMD Condition # 876, Part 9	Temperature Sensor and Recorder (continuous)	Continuous	BAAQMD Condition # 876, Part 8a	CT ≥1400°F, averaged over any 3-hour period (applies to A-2 Landfill Gas Flare when A-2 is operated alone)	Continuous	Flare A-2 did not operate during the reporting period.
Temperature of Combustion Zone (CT)	BAAQMD 8-34-501.3 and 507 and SIP 8-34-501.3 and BAAQMD Condition # 876, Part 9	Temperature Sensor and Recorder (continuous)	Continuous	BAAQMD Condition # 876, Part 8b	CT ≥1200°F, averaged over any 3-hour period (applies to A-2 Landfill Gas Flare when A-2 is down stream of A-1)	Continuous	Flare A-2 did not operate during the reporting period.
Opacity	None	N/A	None	BAAQMD 6-1-301	Ringlemann No. 1 for <3 minutes/hour (applies to A-1 Carbon Adsorption System and A-2 Landfill Gas Flare)	Continuous	Flare A-2 did not operate during the reporting period.
FP	None	N/A	None	BAAQMD 6-1-310	≤0.15 grains/dscf (applies to A-1 Carbon Adsorption System and A-2 Landfill Gas Flare)	Continuous	Flare A-2 did not operate during the reporting period.

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TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Shoreline Amphitheatre Landfill	**Facility ID#:** A2561
Permitted Unit: A-1 – Carbon Adsorption System	**Reporting Period:** *from* 06/01/2015 *through* 11/30/2015

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
SO_2	None	N/A	None	BAAQMD 9-1-301	Property Line Ground Level Limits: ≤0.5 ppmb for 3 minutes and ≤0.25 ppm for 60 min. and ≤0.05 ppm for 24 hours (applies to A-2 Landfill Gas Flare only)	Continuous	Flare A-2 did not operate during the reporting period.
SO_2	BAAQMD Condition # 876, Parts 16g, or 17 and 18h-i	Annual TRS Analysis of Landfill Gas, or Annual SO_2 Test at Flare, and Records	Periodic/ Annual	BAAQMD Regulation 9-1-302	≤ 300 ppm (dry basis) (applies to A-2 Landfill Gas Flare only)	Continuous	Flare A-2 did not operate during the reporting period.
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 876, Parts 17 and 18h-i	Annual TRS Analysis of Landfill Gas and Records	Periodic/ Annual	BAAQMD Condition # 876, Part 15	≤1300 ppmv, express as H_2S	Continuous	Flare A-2 did not operate during the reporting period.
Heat Input	BAAQMD Condition # 876, Parts 11, 18c, 18e, and 18f	Gas Flow Meter and Records	Periodic / Continuous, Monthly	BAAQMD Condition # 876, Parts 5	≤86.4 MM BTU per day and ≤31,536 MM BTU per year (applies to A-2 landfill Gas Flare only)	Continuous	Flare A-2 did not operate during the reporting period.
NO_x	BAAQMD Condition # 876, Parts 16d and 18i	Source Tests and Records	Annual	BAAQMD Condition # 876, Parts 6	≤30 ppmv of NO_x, corrected to 15% O_2, dry (applies to A-2 Landfill Gas Flare only)	Continuous	Flare A-2 did not operate during the reporting period.
CO	BAAQMD Condition # 876, Parts 16d and 18i	Source Tests and Records	Annual	BAAQMD Condition # 876, Parts 7	≤ 83 ppmv of CO, corrected to 15% O_2, dry (applies to A-2 Landfill Gas Flare only)	Continuous	Flare A-2 did not operate during the reporting period.

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TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Shoreline Amphitheatre Landfill	**Facility ID#:** A2561
Permitted Unit: A-1 – Carbon Adsorption System	**Reporting Period:** *from* 06/01/2015 *through* 11/30/2015

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
NMOC	BAAQMD 8-34-501.11 and 8-34-509 and BAAQMD Condition # 876, Parts 14 and 18g	Periodic Monitoring of A-1 Exhaust with a Portable Analyzer and Records	Periodic / Event Basis (at least once for every 16 hours of A-1 operation; after conc. Is > 90 ppm, at least once for every 8 hours of A-1 operation)	BAAQMD 8-34-301.4	98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane (applies to A-1 Carbon Adsorption System only)	Continuous	BAAQMD inspector approved weekly sampling of carbon adsorption system due to consistently low NMOC concentrations.
NMOC	BAAQMD Condition # 876, Parts 14 and 18g	Periodic Monitoring of A-1 Exhaust with a Portable Analyzer and Records	Periodic / Event Basis (at least once for every 16 hours of A-1 operation; after conc. Is > 90 ppm, at least once for every 8 hours of A-1 operation)	BAAQMD Condition # 876, Parts 13	Replace carbon when exhaust concentration exceeds 108 ppmv, dry basis @ 3% O_2, expressed as methane (applies to A-1 Carbon Adsorption System only)	Continuous	BAAQMD inspector approved weekly sampling of carbon adsorption system due to consistently low NMOC concentrations.

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TITLE V SEMI-ANNUAL MONITORING REPORT

Site: Shoreline Amphitheatre Landfill	**Facility ID#:** A2561
Permitted Unit: S-3 – Diesel Engine	**Reporting Period:** *from* 06/01/2015 *through* 11/30/2015

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
Opacity	None	N/A	No monitoring	BAAQMD 6-1-303	Ringelmann No.2 for <3 minutes/hour	Continuous	N/A
FP	None	N/A	No monitoring	BAAQMD 6-1-310	≤0.15 grains/dscf	Continuous	N/A
SO^2	None	N/A	No monitoring	BAAQMD 9-1-301	Property Line Ground Level Limits: ≤0.5 ppm for 3 minutes and ≤0.25 ppm for 60 minn and ≤0.05 ppm for 24 hours	Continuous	N/A
Liquid Fuel Sulfur Content	BAAQMD Condition # 19912, Part 4f	Vendor certification	Periodic / Event Basis	BAAQMD Regulation 9-1-304	Fuel Sulfur Limit: 0.5% by weight	Continuous	N/A
Liquid Fuel Sulfur Content	BAAMQD Condition # 19912, Part 4f	Vendor certification	Periodic / Event Basis	CCR Title 17, Section 93115.5 9b) and CCR Title 13, Section 2281 (a)(1-5)	Standby Engines must use CARB Diesel Fuel or other CARB Approved Alternative Fuel, which has Fuel Sulfur Limits of: ≤500 ppmw of S (≤0.05% S, by weight) or ≤15 ppmw of S (for fuel sold after 6/1/06)	Continuous	N/A
Operating Hours	BAAQMD Regulation 9-8-502.1 and 9-8-530 and BAAQMD Condition # 19912, Parts 3 and 4a-d and CCR Title 17, Section 93115.10(e)(1) & (g)(1)	Meter to record either operating hours or fuel usage and records	Periodic / Continuous, Monthly	BAAQMD Condition # 19912, Part 1 and CCR Title 17, Section 93115.6(b)(3)(A)(1)(a)	Operating Hours for Reliability-Related Activities: ≤20 hours in a calendar year	Continuous	N/A