

**SHORELINE AMPHITHEATRE
TITLE V SEMI-ANNUAL MONITORING REPORT**

SITE: SHORELINE AMPHITHEATRE LANDFILL	FACILITY ID#: A2561
REPORTING PERIOD: <i>from</i> 12/01/2016 <i>through</i> 05/31/2017	

List of Permitted Sources and Abatement Device

Permit Unit Number	Equipment Description
S-1	Landfill and Gas Collection System
S-3	Diesel Engine for Emergency Standby Generator
A-1	Carbon Adsorption System
A-2	Landfill Gas Flare

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Site: Shoreline Amphitheatre Landfill	Facility ID#: A2561
Permitted Unit: S-1 – Landfill Gas Collection System	Reporting Period: from 12/01/2016 through 05/31/2017

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	N/A
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
Periods of In-operation for	BAAQMD 1-523.4	Operating Records for All Parametric Monitors	Periodic / Daily	BAAQMD 1-523.2	≤15 consecutive days/incident and ≤30	Continuous	N/A

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Parametric Monitors					days/12 month period		
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
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	Continuous	N/A

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					> 20% by volume		
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)	Intermittent	During a District inspection conducted on 3/17/17, the District inspector detected component leaks above the limits on gas well (GW) #11 and at the carbon beds of the carbon adsorption system (CAS). Upon notification of the exceedances, SCS Field Services (SCSFS) adjusted the

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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
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	valve on GW 11, and the inspector rechecked the location and found it to be in compliance. In addition, SCSFS replaced all of the attachment fittings on all of the CAS canisters on March 27, 2017, and follow-up monitoring by SCSFS indicated no exceedances. Please see attached 5/8/17 NOV response letter for additional information. 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 ₂ S	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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Site: Shoreline Amphitheatre Landfill	Facility ID#: A2561
Permitted Unit: A-2 – Landfill Gas Flare	Reporting Period: from 6/01/2016 through 11/30/2016

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 (NMOOC)	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. Carbon Adsorption System was tested and met the exhaust concentration limit.
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.

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Site: Shoreline Amphitheatre Landfill	Facility ID#: A2561
Permitted Unit: A-2 – Landfill Gas Flare	Reporting Period: from 6/01/2016 through 11/30/2016

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
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.
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 ₂ S	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.

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Site: Shoreline Amphitheatre Landfill	Facility ID#: A2561
Permitted Unit: A-2 – Landfill Gas Flare	Reporting Period: from 6/01/2016 through 11/30/2016

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
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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Site: Shoreline Amphitheatre Landfill	Facility ID#: A2561
Permitted Unit: A-1 – Carbon Adsorption System	Reporting Period: from 6/01/2016 through 11/30/2016

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)	Intermittent	An NOV was issued on 4/27/17 for an exceedance during 8/18/16 source testing. However, the testing was believed to be invalid, and re-testing on 9/9/16 (conducted with the Source Testing Division approval) demonstrated compliance. SCS and Live Nation strongly believe there was no deviation associated with the 2016 source testing. However, 'intermittent' compliance is indicated here in order to avoid creating future compliance issues associated with Title V reporting.

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Permitted Unit: A-1 – Carbon Adsorption System	Reporting Period: from 6/01/2016 through 11/30/2016

Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
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	See NOV response letter dated 5/8/17 provided as attachment to the Annual Compliance Certificate included in this submittal for additional details about the test results and communications with BAAQMD. BAAQMD inspector approved weekly sampling of carbon adsorption system due to consistently low NMOC concentrations.

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Site: Shoreline Amphitheatre Landfill	Facility ID#: A2561
Permitted Unit: S-3 – Diesel Engine	Reporting Period: from 6/01/2016 through 11/30/2016

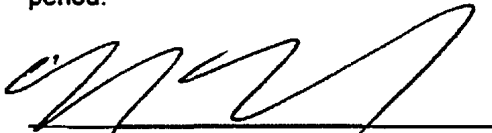
Type of Limit or Criteria	Monitoring Requirement Citation	Parameters Monitored	Monitoring Frequency	Citation of Limit	Limit	Compliance Summary	Corrective Actions Taken
Opacity	None	N/A	No monitoring	BAAQMD 6-1-303	Ringelmann No.2 for <3 minutes/hour	Continuous	N/A
FP	None	N/A	No monitoring	BAAQMD 6-1-310	≤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	BAAQMD 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

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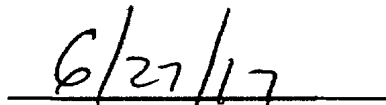
SITE: SHORELINE AMPHITHEATRE LANDFILL	FACILITY ID#: A2561
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CERTIFICATION:

I declare, under penalty of perjury under the laws of the State of California, that, based on information and belief formed after reasonable inquiry, all information provided in this reporting package is true, accurate, and addresses all deviations during the reporting period:



Signature of Responsible Official



Date

Michael Bernal
Name of Responsible Official

Executive Director, Shoreline Amphitheatre
Title of Responsible Official

Mail to:

Director of Compliance and Enforcement
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