CITY OF MOUNTAIN VIEW
Shoreline Landfill – Facility ID # A2740
TITLE V SEMI ANNUAL MONITORING REPORT (7/1/2014 –12/31/2014)
PERMITTED UNITS: S-1 LANDFILL AND GAS COLLECTION SYSTEM; A-3, A-4, AND A-5 LANDFILL GAS FLARES

Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Amount of Waste Accepted	BAAQMD 8-34-501.7	BAAQMD Condition # 16065, Part 1	0 tons/day and ≤ 12,725,000 tons (cumulative amount of all wastes) and ≤ 18,852,000 yd^3 (cumulative amount of all wastes and cover materials)	Records Closed Landfill No waste accepted	P/A	Continuous Yes	
Gas Flow	BAAQMD 8-34-501.10 and 508	BAAQMD 8-34-301 and 301.1	Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	Gas Flow Meter and Recorder (every 15 minutes)	C	Continuous Yes	
Gas Flow	BAAQMD 8-34-501.1, 501.2, 501.10, and 508 and BAAQMD Condition # 16065, Part 6	BAAQMD Condition # 16065, Parts 2-3	Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	Gas Flow Meter, Flare Alarms, and Records of Collection and Control Systems Downtime	C,P/E	Intermittent Yes	An incidental malfunction of landfill gas Flare # 2 automatically restarted the flare multiple times without reaching the minimum allowable temperature of 1440° F and did not completely shutdown and generated alarm on December 3, 2014. The incident was reported to BAAQMD and to prevent this rare incident in the future, another layer of PLC program change was implemented in the PLC program on December 9, 2014.

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Collection System Installation Dates	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 16065, Parts 15a-b	BAAQMD 8-34-304.1	For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	Records	P/E	Continuous Yes	
Collection and Control Systems Shutdown Time	BAAQMD 8-34-501.1	BAAQMD 8-34-113.2	≤ 240 hours/year and ≤ 5 consecutive days	Operating Records	P/D	Continuous Yes	
Startup Shutdown or Malfunction Procedures	40 CFR 63.1980(a-b)	40 CFR 63.6(e)	Minimize Emissions by Implementing SSM Plan	Records (all occurrences, duration of each, corrective actions)	P/E	Continuous Yes	
Periods of In-operation for Para-metric Monitors	BAAQMD 1-523.4	BAAQMD 1-523.2	≤ 15 consecutive days/incident and ≤ 30 calendar days/12 month period	Operating Records for All Parametric Monitors (for gas flow and temperature monitors)	P/D	Continuous Yes	
Continuous Monitors	40 CFR 60.7(b)	40 CFR 60.13(e)	Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	Operating Records for All Continuous Monitors (for gas flow and temperature Monitors	P/D	Continuous Yes	

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Wellhead Pressure	BAAQMD 8-34-414, 501.9, and 505.1	BAAQMD 8-34-305.1	< 0 psig	Monthly Inspection and Records	P/M	Continuous Yes	
Temperature of Gas at Wellhead	BAAQMD 8-34-414, 501.9 and 505.2	BAAQMD 8-34-305.2	< 55 °C (131 °F) (Wells listed in BAAQMD Condition # 16065, Part 5a are excluded from this limit.)	Monthly Inspection and Records	P/M	Continuous Yes	
Temperature of Gas at Wellhead	BAAQMD 8-34-414, 501.9 and 505.2	BAAQMD Condition # 16065, Part 5a	≤ 140 °F (This limit applies only to wells listed in BAAQMD Condition # 16065, Part 5a)	Monthly Inspection and Records	P/M	Continuous Yes	
Gas Concentrations at Wellhead	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	BAAQMD 8-34-305.3 or 305.4	N_2 < 20% **OR** O_2 < 5% (Wells listed in BAAQMD Condition # 16065, Part 5b are excluded from these limits.)	Monthly Inspection and Records	P/M	Continuous Yes	
Gas Concentrations at Header	BAAQMD Condition # 16065, Part 5b	BAAQMD Condition # 16065, Part 5b	$O_2 \leq 5\%$ by volume, dry basis **AND** $CH_4 \geq 35\%$ by volume, dry basis	Monthly Inspection and Records	P/M	Continuous Yes	
Well Shutdown Limits	BAAQMD 8-34-117.6 and 501.1	BAAQMD 8-34-117.4	No more than 5 wells at a time or 10% of total collection system, whichever is less	Records	P/D	Continuous Yes	
Well Shutdown Limits	BAAQMD 8-34-117.6 and 501.1	BAAQMD 8-34-117.5	≤ 24 hours per well	Records	P/D	Continuous Yes	

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 16065, Part 15c	BAAQMD 8-34-301.2	Component Leak Limit: ≤ 1000 ppmv as methane at 1 cm from component (see BAAQMD Condition # 16065, Part 5c for Clarifications about vaults)	Quarterly Inspection of collection and control system components with Portable Analyzer and Records	P/Q	Continuous Yes	
TOC	BAAQMD 8-34-415, 416, 501.6, 506 and 510 and BAAQMD Condition # 16065, Part 15c	BAAQMD 8-34-303	Surface Leak Limit: ≤ 500 ppmv as methane at 2 inches above surface (see BAAQMD Condition # 16065, Part 5c for clarifications about vaults)	Monthly Visual Inspection of Cover, Quarterly Inspection of Surface with Portable Analyzer, Reinspections as Needed, and Records	P/M, Q, and E	Continuous Yes	

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 16065, Parts 13 and 15c	BAAQMD 8-34-301.3	≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% O_2, expressed as methane (applies to flares only)	Source Tests and Records	P/A	Intermittent Yes	An incidental malfunction of landfill gas Flare # 2 automatically restarted the flare multiple times without reaching the minimum allowable temperature of 1440° F and did not completely shutdown and generated alarm on December 3, 2014. The incident was reported to BAAQMD and to prevent this rare incident in the future, another layer of PLC program change was implemented in the PLC program on December 9, 2014.

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Temperature of Combustion Zone (CT)	BAAQMD 8-34-501.3 and 507	BAAQMD Condition # 16065, Part 7	CT ≥ 1400 °F, averaged over any 3-hour period (applies to each flare, A-3, A-4, and A-5)	Temperature Sensor and Recorder	C	Intermittent Yes	An incidental malfunction of landfill gas Flare # 2 automatically restarted the flare multiple times without reaching the minimum allowable temperature of 1440° F and did not completely shutdown and generated alarm on December 3, 2014. The incident was reported to BAAQMD and to prevent this rare incident in the future, another layer of PLC program change was implemented in the PLC program on December 9, 2014.
SO_2	BAAQMD Condition # 16065, Parts 13g and 15c or 14 and 15c	BAAQMD Regulation 9-1-302	≤ 300 ppm (dry basis) (applies to flares only)	Annual Source Test at Flare or Sulfur Analysis of Landfill Gas and Records	P/A	Continuous Yes	
Landfill Gas Sulfur Content	BAAQMD Condition # 16065, Parts 14 and 15c	BAAQMD Condition # 16065, Part 12	≤ 1300 ppmv, expressed as H_2S (applies if SO_2 testing is not conducted at flare exhaust)	Sulfur Analysis of Landfill Gas and Records	P/A	Continuous Yes	

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
NO_x	BAAQMD Condition # 16065, Parts 13 and 15c	BAAQMD Condition # 16065, Part 9a	≤ 0.13 lbs/MMBTU or ≤ 33 ppmv, at 15% O_2, dry basis (applies to A-3 Flare only)	Source Tests And Records	P/A	Continuous Yes	
NO_x	BAAQMD Condition # 16065, Parts 13 and 15c	BAAQMD Condition # 16065, Part 9b-c	≤ 0.06 lbs/MMBTU or ≤ 15 ppmv, at 15% O_2, dry basis (applies to A-4 and A-5 Flares only)	Source Tests and Records	P/A	Continuous Yes	
CO	BAAQMD Condition # 16065, Parts 13 and 15c	BAAQMD Condition # 16065, Part 10a-c	≤ 0.20 lbs/MMBTU or ≤ 83 ppmv, at 15% O_2, dry basis (applies toA-3, A-4 and A-5 Flares only)	Source Tests and Records	P/A	Continuous Yes	

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C = Continuous Monitoring

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TITLE V SEMI ANNUAL MONITORING REPORT (7/1/2014 – 12/31/2014)
PERMITTED UNITS: S-11 AND S-14 DIESEL ENGINES FOR EMERGENCY STANDBY GENERATORS

Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Liquid Fuel Sulfur Content	BAAQMD Condition # 24175, Part 5f	BAAQMD Regulation 9-1-304	Fuel Sulfur Limit: ≤ 0.5% S by weight	Vendor Certification	P/E	Continuous Yes	
Liquid Fuel Sulfur Content	BAAQMD Condition # 24175, Part 5f	CCR Title 17, Section 93115.5(b) 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)	Vendor Certification	P/E	Continuous Yes	
Operating Hours	BAAQMD Regulation 9-8-530 and BAAQMD Condition # 24175, Parts 4 and 5a-d and CCR Title 17, Section 93115.10(e)(1)&(g)(1)	BAAQMD Condition # 24175, Part 1 and CCR Title 17, Section 93115.6 (b)(3)(A)(1)(b)	For S-11 Diesel Engine: Operating hours for Reliability-Related Activities: ≤ 30 hours in a calendar year	Hour Meter and Records	P/C, M	Continuous Yes	

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Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
Operating Hours	BAAQMD Regulation 9-8-530 and BAAQMD Condition # 24175, Parts 4 and 5a-d and CCR Title 17, Section 93115.10(c)(1)&(g)(1)	BAAQMD Regulation 9-8-330.3 and BAAQMD Condition # 24175, Part 2b	For S-14 Diesel Engine Operating hours for Reliability-Related Activities: ≤ 50 hours in a calendar year (Effective 1/1/2012)	Hour Meter and Records	P/C, M	Continuous Yes (Effective 1/1/2012)	

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TITLE V SEMI ANNUAL MONITORING REPORT (7/1/2014 – 12/31/2014)
PERMITTED UNITS: S-16 MICROTURBINE, AND S-17 MICROTURBINE

Type of Limit	Monitoring Requirement Citation	Citation of Limit	Limit	Parameter Monitored	Monitoring Frequency * (P/C)	Compliance	Comments/Corrective Action Taken
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-501.6 and 503 and BAAQMD Condition # 16065, Part 15c	BAAQMD 8-34-301.2	≤ 1000 ppmv as methane (component leak limit)	Quarterly Inspection of Control System Components with Portable Analyzer and Records	P/Q	Continuous Yes	
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-412 and 501.4 and BAAQMD Condition # 24989, Parts 2 and 3	BAAQMD 8-34-301.4	≥ 98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane	Source Tests and Records	P/A	Continuous Yes	
SO_2	BAAQMD Condition # 16065, Parts 13 and 15c or Parts 14 and15c	BAAQMD Regulation 9-1-302	≤ 300 ppm (dry basis)	Annual Source Test At Flare or Sulfur Analysis of Landfill Gas at Header and Records	P/A	Continuous Yes	

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C = Continuous Monitoring