



Operated By
NEWSME Landfill Operations, LLC

July 29, 2022

Tanya Hovell
Maine Department of Environmental Protection
Bureau of Air Quality
106 Hogan Road
Bangor, Maine 04401

RE: NEWSME Landfill Operations, LLC
DBA Juniper Ridge Landfill (JRL)
(formerly West Old Town Landfill)
Part 70 Air Emission License A-921-70-F-R
Semiannual Report and Compliance Certification

Dear Ms. Hovell:

Please find enclosed Juniper Ridge Landfill's (JRL's) semiannual report and certification for the period from January 1 to June 30, 2022. This semiannual report was prepared to comply with JRL's Part 70 Air Emission License (A-921-70-F-R) and United States Environmental Protection Agency (USEPA) requirements in Subpart XXX of the New Source Performance Standards (NSPS) and Subpart AAAA of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

If you should require any additional information regarding the enclosed, please feel free to contact me at (207) 249-8025.

Sincerely,

Jeffrey Pelletier
Environmental Manager
NEWSME Landfill Operations, LLC

Enclosure: Part 70 Air Emission License Semiannual Certification
Semiannual Compliance Data Summary
Semiannual NESHAP Subpart AAAA GCCS Report

cc: USEPA Region 1
Bill Longfellow, Bureau of General Services, State of Maine
Wayne Boyd, NEWSME Landfill Operations, LLC

Semiannual Certification Cover Sheet

Facility Name	NEWSME Landfill Operations, LLC DBA Juniper Ridge Landfill
License Number	A-921-70-F-R
Period Covered By Certification	Semiannual: January 1 to June 30, 2022
Total Number of Pages Submitted in Certification (including this cover sheet)	32

I certify under penalty of law that, based on information and belief formed after reasonable inquiry, I believe the information included in the attached document is true, complete, and accurate.



Jeffrey Pelletier, P.E.
Environmental Manager
NEWSME Landfill Operations, LLC

07-29-22

Date

SEMIANNUAL AIR LICENSE COMPLIANCE AND PERIODIC MONITORING REPORT FORM

Facility Name Juniper Ridge Landfill License Numbers A-921-70-F-R From 01 Jan to 30 Jun 2022
(month) (month) (year)

Conditions	Emission Source / Control Device	Periodic Monitoring Parameter	Monitoring Frequency	Limit (From license)	Summary
(1)	Allow Access to Site for Authorized Personnel	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(2)	New / Amended License Prior to Construction or Modification	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(3)	Establish BMP for Fugitive PM	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(4)	Annual Air License Fee	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(5)	Maintain and Operate Emission Units to Minimize Emissions	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(6)	Records Retention for Six Years	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(7)	Comply with Terms and Conditions of the License	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(8)	Perform Stack Testing within 60 Days of Notification	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(9)	Emissions in Excess of Applicable Standards	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(10)	Maintain Records of Deviations from License	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(11)	Determination of Licensee's Compliance Status	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(12)	Submission of Semiannual Reports of Monitoring	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance

<i>Conditions</i>	<i>Emission Source / Control Device</i>	<i>Periodic Monitoring Parameter</i>	<i>Monitoring Frequency</i>	<i>Limit</i> (From license)	<i>Summary</i>
(13)	Submission of Annual Compliance Certification	N/A	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(14)(A)	Solid Waste Landfill Operate to control TRS	Design with cover materials to control moisture and gas	N/A	LFG collection system design criteria	☒ No deviations or exceedances ☒ Continuous compliance
(14)(B)	Solid Waste Landfill Flares	#2 & #3 shall not operate when #4 is. Hours of operation for #2 & #3	As occurs	100 hours per calendar year for #2 and #3	☒ No deviations or exceedances ☒ Continuous compliance
(14)(C)	Solid Waste Landfill Flare #4	The top of Flare #4 shall be at least 265 feet above sea level at its location on the southeast end of the facility.	N/A	LFG collection system design criteria	☒ No deviations or exceedances ☒ Continuous compliance
(14)(D)	Solid Waste Landfill Flares	Short-term Emission Limits	monthly	lb/hr limits for criteria pollutants and opacity limit	☒ No deviations or exceedances ☒ Continuous compliance
(14)(E)	Solid Waste Landfill Annual Emissions	Tons-per-12-months emissions for SO ₂ , VOC, and HAPs	monthly	Tons-per-12-months limits for SO ₂ , VOC, and HAPs	☒ No deviations or exceedances ☒ Continuous compliance
(15)(A)	Control Technology for sulfur	12-month average concentration of TRS in LFG	monthly	1,000 ppmv	☒ No deviations or exceedances ☒ Continuous compliance
(15)(B)	Control Technology for sulfur	Monthly TRS sampling using DEP-approved test method (e.g., lab analysis of grab samples)	monthly	SO ₂ lb/hr and tpy limits and the TRS ppmv limit	☒ No deviations or exceedances ☒ Continuous compliance
(15)(C)	Control Technology for sulfur	LFG flow, H ₂ S sampling with tubes, downtime, bypass, propane use, calibration of flow meters	Morning and afternoon two days per week	Used as an operational tool and not for compliance with numerical limits	☒ No deviations or exceedances ☒ Continuous compliance
(15)(D)	Control Technology for sulfur	Compliance Assurance Monitoring (CAM)	Monthly TRS sampling [see (15)(B)] and monthly flow totals	SO ₂ lb/hr and tpy limits and the TRS ppmv limit	☒ No deviations or exceedances ☒ Continuous compliance
(15)(E)	Control Technology for sulfur	Uptime	Continuous (i.e., every 15-minute) flow readings	95% uptime for all sulfur control equipment on a 12-month rolling total basis	☒ No deviations or exceedances ☒ Continuous compliance
(16)(A)	NSPS Subpart XXX and NESHAP Subpart AAAAA	Operate GCCS and route gas to flare or RNG plant	Continuous for LFG flow and flare temperature	Operational Requirement	☒ No deviations or exceedances ☒ Continuous compliance

<i>Conditions</i>	<i>Emission Source / Control Device</i>	<i>Periodic Monitoring Parameter</i>	<i>Monitoring Frequency</i>	<i>Limit</i> (From license)	<i>Summary</i>
(16)(B)	Follow Standards from NESHAP Subpart AAAAA (i.e., temperature limit = 145 °F)	Wellhead pressure and temperature, methane emissions from landfill surface, operate control system, close valves within an hour of shutdown	Monthly for pressure and temperature, quarterly for methane emissions, continuous for control system operation	Negative pressure or HOV, 145 °F or HOV, 500 ppm methane, one hour to close valves/stop venting after shutdown	☒ No deviations or exceedances ☒ Continuous compliance
(16)(C)	NESHAP Subpart AAAAA Monitoring	Wellhead pressure, oxygen, and temperature, enhanced temperature monitoring for exceedances, methane emissions from landfill surface, cover integrity checks, control system flow and flare temperature	Monthly for pressure, oxygen, temperature, and cover integrity, quarterly for methane emissions, continuous for control system flow and flare temperature	Negative pressure or HOV, 145 °F or HOV, 500 ppm methane	☒ No deviations or exceedances ☒ Continuous compliance
(16)(D)	NESHAP Subpart AAAAA Notifications and Reports	90 days before expanding into area not covered by design plan, Initial Performance Test for the Flare, Semi-Annual Reports, Electronic submission of reports; Notification within 24 hours for wellhead gas temperature of 170 °F or more.	Semi-Annual reporting and additional one-time reporting	170 °F wellhead temperature requires 24-hour notification to DEP	☒ No deviations or exceedances ☒ Continuous compliance
(16)(E)	NSPS and NESHAP Records	Design Capacity Report and waste acceptance, NESHAP Subpart AAAAA startup date (1/6/21), control system flow, flare temperature, GCCS downtimes and startup times, control device failures, maps for existing and planned GCCS, monitoring exceedances, enhance temperature monitoring, email transmissions of 24-hr 170 °F reports, Root cause analysis for exceedances that take more than 15-days to correct, other NESHAP Subpart AAAAA monitoring	Continuous for control system flow and flare temperature and additional recordkeeping requirements	Negative pressure or HOV, 145 °F or HOV, 500 ppm methane, 170 °F wellhead temperature requires 24-hour notification to DEP	☒ No deviations or exceedances ☒ Continuous compliance
(17)(A), (B), and (C)	Generator #1 Fuel and Emission Limits	Operate with distillate fuel with sulfur limit of 0.0015% and within emission limits	Fuel deliveries as needed, emissions reported annually	Limits for criteria pollutants	☒ No deviations or exceedances ☒ Continuous compliance
(17)(D)	Generator #1 Visible Emissions	Log startups, operate in accordance with manufacturer's instructions and good air pollution practices, less than 30 minutes to startup	Log each startup date, time, and duration	20% Opacity except for startup	☒ No deviations or exceedances ☒ Continuous compliance

<i>Conditions</i>	<i>Emission Source / Control Device</i>	<i>Periodic Monitoring Parameter</i>	<i>Monitoring Frequency</i>	<i>Limit</i> (From license)	<i>Summary</i>
(17)(E)	Generator #1 NESHAP Subpart ZZZZ	a. Change the oil and filter b. Inspect the air cleaner; and c. Inspect the hoses and belts. Use oil analysis program as needed Non-resettable hour meter 100 hour/year for testing 30 minutes for startup	Oil, oil filter, hoses and belts every 500 hours of operation, annually, or as needed. Air cleaner every 1,000 hours of operation, annually, or as needed. Oil analysis as needed.	500 hours for oil, oil filter, hoses and belts, 1,000 hours for air cleaner, 100 hours for testing, 30 minutes for startup.	☒ No deviations or exceedances ☒ Continuous compliance
(18)	Fugitive Emissions	Visible emissions from a fugitive emission source (including stockpiles and roadways)	5-minute block average basis	20% opacity	☒ No deviations or exceedances ☒ Continuous compliance
(19)	Parameter Monitor General Requirements	Follow manufacturer recommendations, continuous monitoring, record reliable data	Every 15 minutes for continuous monitoring, at least 3 readings per hour Continuous	99% data reliability	☒ No deviations or exceedances ☒ Continuous compliance
(20)	Compliance Assurance Monitoring (CAM)	Follow CAM Plan for sulfur removal system and coordinate changes to CAM plan with DEP	monitoring for flow, monthly grab samples for TRS concentrations	SO2 lb/hr and tpy limits	☒ No deviations or exceedances ☒ Continuous compliance
(21)	Semi-Annual Reporting	Submit to the Bureau of Air Quality semiannual reports which are due on January 31st and July 31st	Semi-Annual Reports	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(22)	Annual Compliance Certification	Submit an annual compliance certification to the Department and EPA by January 31st of each year.	Annual Certifications	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(23)	Annual Emission Statements	Fuel records, TRS data, and hours or operation	Annual reports except for Hazardous Air Pollutants which are reported every three years (e.g., 2023, 2026)	Emission Limits in Air License	☒ No deviations or exceedances ☒ Continuous compliance
(24)	General Applicable State Regulations	Open Burning, Emergencies, Ambient Air, Dispersion, and Mercury	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(25)	Units Containing Ozone Depleting Substances	Standards for recycling and emission reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for motor vehicle air conditioning units in Subpart B. Examples of such units include refrigerators and any size air conditioners that contain CFCs.	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance

<i>Conditions</i>	<i>Emission Source / Control Device</i>	<i>Periodic Monitoring Parameter</i>	<i>Monitoring Frequency</i>	<i>Limit</i> (From license)	<i>Summary</i>
(26)	Asbestos Abatement	Standard for Asbestos Demolition and Renovation	When undertaking Asbestos abatement activities	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(27)	Expiration of a Part 70 license	JRL shall submit a complete Part 70 renewal application at least six but no more than 18 months prior to the expiration of this air license.	Renewal application due between Nov. 24, 2024 and Nov. 24, 2025	N/A	☒ No deviations or exceedances ☒ Continuous compliance
(28)	New Source Review (NSR)	JRL is subject to NSR requirements summarized in the license even if the license expires.	N/A	N/A	☒ No deviations or exceedances ☒ Continuous compliance

1. This form is for the period from January 1, 2022 through June 30, 2022. JRL began operating the GCCS to comply with NSPS Subpart XXX and the updated NESHAP Subpart AAAAA on January 6, 2021, on the date the Part 70 Air License was amended to incorporate the updated NESHAP Subpart AAAAA requirements (i.e., with the higher temperature limit for landfill gas of 145 °F) (A-921-70-H-A, Amendment #1). On May 24, 2021, Maine DEP issued a Part 70 Air License Renewal (A-921-70-F-R) that included these same requirements. This form certifies compliance with the Part 70 Air License Renewal (A-921-70-F-R) that was in place from January 1, 2022 through June 30, 2022.

Juniper Ridge Landfill

Semiannual Compliance Data Summary January 1 to June 30, 2022

Month	Date TRS Sample Taken	TRS Samples Average of 3 samples Total Reduced Sulfur (ppm)		FLOW (scfm)	Exiting Control Equipment		Total landfill gas flow		Flares #2 & #3 Runtime	Sulfur Control Equipment Downtime
		Inlet	Outlet		Rolling Average TRS (ppm)	Rolling Total SO2 (tons/yr)*	Bypass (scf)	Scrubbed (scf)		
January	01/20/22	15,246	294	2,500	526	67	538,367	116,330,979	0	3.4
February	02/16/22	15,276	470	2,577	539	67	392,752	107,957,162	0	2.3
March	03/15/22	13,985	378	2,353	541	66	214,958	101,575,608	0	1.6
April	04/11/22	14,941	295	2,033	532	65	31,081	88,070,232	0	0.2
May	05/10/22	14,852	472	2,302	523	63	216,764	96,839,860	0	2.3
June	06/14/22	13,153	695	2,064	519	62	237,924	89,610,188	0	2.3

*Includes bypass

Additional Conditions:	Limit
Records of inlet and outlet H2S concentrations are maintained onsite and are available upon request.	No limit listed
Records of control equipment downtime are maintained onsite and are available upon request.	No limit listed
Calibration logs of flow meters are maintained on site and are available upon request.	Once per year

**Semiannual Periodic Monitoring Report
NSPS Subpart XXX and NESHAP Subpart AAAA
Landfill Gas Collection and Control System**

FOR PERIOD FROM JANUARY 1 THROUGH JUNE 30, 2022

JUNIPER RIDGE LANDFILL

Old Town, Maine

Prepared for Juniper Ridge Landfill

File No. 2343.22

July 2022



Jeffrey Pelletier
Environmental Manager
NEWSME Landfill Operations, LLC
358 Emerson Mill Road
Hampden, Maine 04444

July 29, 2022
File No. 2343.22

Re: NSPS and NESHAP Semiannual Periodic Monitoring Report
Gas Collection and Control System
Juniper Ridge Landfill
Old Town, Maine

Dear Jeff:

On behalf of NEWSME Landfill Operations, LLC (NEWSME), Sanborn, Head & Associates, Inc. (Sanborn Head) prepared the enclosed semiannual periodic monitoring report for the gas collection and control system (GCCS) at the Juniper Ridge Landfill (JRL) in Old Town, Maine as required by Subpart XXX of the New Source Performance Standards (NSPS) and Subpart AAAA of the National Emission Standards for Hazardous Air Pollutants (NESHAP).

Please contact us with any questions.

Sincerely
SANBORN, HEAD & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read "Jeff Doris".

Jeffrey J. Doris
Project Manager

A handwritten signature in black ink, appearing to read "David E. Adams".

David E. Adams, P.E.
Senior Vice President/Principal

MEC/JJD/DEA: mec

Encl. Semiannual Periodic Monitoring Report

cc: Wayne Boyd, NEWSME (electronic copy)
Michael Abbott, NEWSME (electronic copy)

P:\2300s\2343.22\Source Files\July 2022 Semiannual Rpt\20220729 JRL cov ltr.docx



TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	SITE DESCRIPTION	1
3.0	SEMIANNUAL REPORT REQUIREMENTS	2
4.0	GAS COLLECTION AND CONTROL SYSTEM.....	3
4.1	Monitoring.....	3
4.1.1	Gas Extraction Point Monitoring.....	3
4.1.2	Landfill Surface Monitoring.....	3
4.1.3	Control Device Operation	4
4.2	Landfill Gas Diverted from Control Devices.....	4
4.3	Flare Downtime	4
4.4	GCCS Downtime	5
4.5	Landfill Gas Collection System Modifications	5
4.6	Exceedances that take more than 60 days to correct	5
4.7	Enhanced Temperature Monitoring	5
4.8	Landfill Cover Integrity	5

FIGURE

Figure 1 Landfill Gas Collection and Control System

APPENDICES

Appendix A	Gas Extraction Point Exceedances
Appendix B	Landfill Surface Monitoring
Appendix C	Control System Summary
Appendix D	Actions Taken to Improve the Quality and Quantity of Gas Collected



1.0 INTRODUCTION

On behalf of NEWSME Landfill Operations, LLC (NEWSME), Sanborn, Head & Associates, Inc. (Sanborn Head) prepared this semiannual periodic monitoring report (semiannual report) for the gas collection and control system (GCCS) at the Juniper Ridge Landfill (JRL) in Old Town, Maine. We prepared this report to satisfy the requirements from 40 Code of Federal Regulations (CFR) Part 60 Subpart XXX (the New Source Performance Standards [NSPS] for Municipal Solid Waste [MSW] landfills) and 40 CFR Part 63 Subpart AAAA (the National Emission Standards for Hazardous Air Pollutants [NESHAP] for MSW landfills).

This semiannual report covers the period from January 1 through June 30, 2022.

2.0 SITE DESCRIPTION

JRL is owned by the State of Maine and operated by NEWSME. JRL is located on the western side of Interstate 95 in Old Town, Maine, and is accessible from State Route 16 in Alton, Maine. Under the current license, JRL accepts approximately 2,400 tons per day of construction and demolition debris; residues (ash, front-end process residue [FEPR], and over-sized bulky wastes); bypass MSW; water and wastewater treatment plant sludge; and lesser amounts of miscellaneous non-hazardous wastes.

JRL is located on a 780-acre parcel of land, and the licensed footprint of the landfill is approximately 122 acres. Active filling began in Cell 1 at the site in December 1996. Current landfill operations are in Cells 12, 13, and other adjacent cells on top of the landfill. Intermediate and intermediate-final cover has been placed in Cells 1 through 12. The licensed capacity of JRL is approximately 19.63 million cubic yards (15.01 million m³). With a waste compaction density of approximately 0.86 tons of waste per cubic yard, the estimated capacity on a mass basis is approximately 16.9 million tons (15.3 million Mg).

The JRL GCCS, shown in Figure 1, is designed for active collection of landfill gas (LFG) while maintaining anaerobic conditions within the landfill by limiting air intrusion into the waste. The GCCS is monitored using equipment that measures and records the LFG extraction in standard cubic feet per minute (scfm) and the concentration in LFG of methane, oxygen, carbon dioxide, and balance gas (primarily nitrogen) in percent by volume.

The GCCS is regularly expanded by adding gas extraction points and related infrastructure. LFG is managed in Cells 1 through 13 using nearly horizontal sloped gas collection trenches (GCTs) and/or vertical gas extraction wells. GCTs are temporary collectors installed to collect LFG until vertical wells are installed. Vertical wells are installed as needed, including on the outer slopes of the cells as they are filled to final grades. The vacuum applied at each extraction location is adjusted as needed with a manually controlled valve on the extraction location wellhead. The active system contains approximately 126 vertical wells and 61 gas collection trenches installed throughout Cells 1 through 13. LFG is also collected from six other connections to the leachate and/or condensate collection systems and to additional horizontal collectors to control odors.

The NSPS and NESHAP do not require gas collection in areas where the waste has been in place less than five years, or less than two years for areas that have reached final grade or have been



closed. Although not required by its air license, NSPS Subpart XXX, or NESHAP Subpart AAAA, JRL maintains gas collectors and connections to the leachate system and in recently placed waste and uses them as needed to control odors and minimize greenhouse gas emissions. Although these connections are monitored when in use, readings of non-negative pressure are not classified as exceedances of the monitoring standards.

LFG extraction points are connected to common header pipes that convey the gas to a 106.5 million British thermal units per hour (MMBtu/hr) open flare (Flare No. 4), which the Maine Department of Environmental Protection (Maine DEP) approved in November 2008. Open Flares No. 2 and No. 3 are licensed as backup LFG control devices, and do not operate simultaneously with Flare No. 4.

Ahead of the July 1, 2015 license deadline, JRL began operating a Thiopaq® sulfur treatment system to remove total reduced sulfur (TRS) compounds from LFG prior to combustion to reduce emissions of sulfur dioxide (SO₂).

Although JRL has a system to remove sulfur from the gas, it does not have a "Treatment System" as defined in the NESHAP Subpart AAAA, which is a system to filter, de-water, and compress LFG for sale or beneficial use.

3.0 SEMIANNUAL REPORT REQUIREMENTS

The semiannual report is required by 40 CFR Part 63.1981(h)(1) through (8) to contain:

1. The number of times that applicable parameters monitored under §63.1958(b), (c), and (d) were exceeded (i.e., limits for wellhead pressure, wellhead temperature, and methane surface emissions) and when the gas collection and control system was not operating under §63.1958(e) (e.g., occasions when one or more valves in the GCCS did not close during a shutdown, and thereby allowed venting of LFG to the atmosphere for an hour or more), including periods of startup, shutdown, or malfunction. For each instance, the date, time, and duration of each exceedance must be reported. For sites with a treatment system for a beneficial use project, the number of times the parameters in the site-specific treatment system plan were exceeded must be included.
2. Description and duration of periods when the gas stream was diverted from the control device or treatment system through a bypass line.
3. Description and duration of periods when the control device or treatment system was not operating.
4. Periods when the collection system was not operating.
5. The location and concentration of each exceedance of the 500-ppm methane concentration as provided in §63.1958(d). The location of each exceedance must be recorded with an accuracy of at least 4 meters and reported in units of latitude and longitude decimal degrees with at least five decimal places.
6. The date of installation and the location of each well or collection system expansion added pursuant to §63.1960(a)(3) and (4), (b), and (c)(4).



7. For any corrective action analysis for which corrective actions are required in §63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.
8. The results of any enhanced monitoring for temperature exceedances.

The semi-annual reports also include the results of monthly landfill cover integrity checks.

4.0 GAS COLLECTION AND CONTROL SYSTEM

4.1 Monitoring

The monitoring required for this report includes the monitoring summarized below for gas extraction points and surface emissions. This section also summarizes the GCCS design and operation to prevent venting of LFG to the atmosphere for an hour or more.

4.1.1 Gas Extraction Point Monitoring

The gas collection wellfield is monitored at least monthly to measure LFG concentrations and the temperature and pressure in the affected wellheads. In areas of the landfill where waste has been in place for at least five years, or areas with final grade and waste in place for at least two years, JRL is required to report gas extraction points with recorded exceedances of the pressure limit (negative gauge pressure, except for areas with geomembrane cover) or temperatures greater than 145° F (or approved alternative). Table A-1 in Appendix A presents the exceedances of the pressure and temperature standards that were recorded during the reporting period.

Operating at the default gas temperature for MSW landfills in NESHAP Subpart AAAA (145° F) has not always been possible at JRL due to the type of waste disposed at the site and the corresponding decomposition temperature. To allow for gas collection with waste decomposition temperatures greater than 145° F, JRL has obtained approval from Maine DEP to operate some gas extraction locations at an alternative operating temperature of 150° F. The HOV approvals are included in Appendix A.

4.1.2 Landfill Surface Monitoring

Landfill surface monitoring scans were performed in general accordance with NSPS Subpart XXX and NESHAP Subpart AAAA requirements to measure the concentration of methane near the surface of the landfill on March 23, 2022 (2022-Q1 scan) and on June 21, 2022 (2022-Q2 scan).

The surface monitoring protocol requires measuring methane surface concentrations within 5 to 10 centimeters (cm; [about 2 to 4 inches]) of the landfill surface while walking at a normal pace around the perimeter of the landfill and along a pattern traversing the landfill at 30-meter (m; approximately 100-foot) intervals.

The walking path for surface monitoring at JRL is included on Figure B in Appendix B. In addition to monitoring along the path, NSPS and NESHAP require surface monitoring in areas with:



- Visible cracks or holes in the landfill cover;
- Visible erosion or water on the landfill surface;
- Visually observed distressed vegetation; and
- Where gas extraction components protrude through the landfill cover system (i.e., where the boots connect to the wells and the lateral collection system piping).

During surface monitoring, JRL personnel used a flame ionization detector (FID) or equivalent device that complies with the NSPS and NESHAP requirements and that was calibrated according to procedures outlined in United States Environmental Protection Agency (USEPA) Method 21.

There were three locations during the Q1-2022 initial scan and one location during the Q2-2022 initial scan with recorded exceedances of the methane surface concentration standard of 500 ppm. During Q1, JRL performed a liner repair, and the exceedances were resolved before the second follow up scan. The return to compliance with the 500-ppm standard was confirmed for each location during the one-month follow-up scan.

The Q2 exceedance was corrected before the initial follow-up scan and the return to compliance with the 500-ppm standard was confirmed during the one-month follow-up scan.

Surface scan results are presented in Appendix B. The results in Appendix B include the location of each exceedance of the 500-ppm methane concentration standard and the concentration recorded at each exceedance location. For each location, the latitude and longitude are recorded using an instrument with an accuracy of at least four meters and the coordinates are in decimal degrees with at least five decimal places.

4.1.3 Control Device Operation

The GCCS uses a Supervisory Control and Data Acquisition (SCADA) system to monitor the flare temperature and the LFG flow rate to the flare system. The SCADA system records indicate there were no periods exceeding one hour when the gas collection system was operating while the flare system was not operating.

During flare shutdowns, the system is designed for the blower to shut down also. When the flame goes out on the flare, the temperature monitoring system alerts the control system to turn off the blower system. During the reporting period, the system operated as designed to prevent venting of LFG to the atmosphere for an hour or more, including during periods of startup, shutdown, and malfunction.

4.2 Landfill Gas Diverted from Control Devices

The LFG collection system is not constructed with a bypass line, and correspondingly, during the reporting period, no LFG was diverted from the control system through a bypass line.

4.3 Flare Downtime

A log of flare downtime is presented in Appendix C that provides a description and the duration of periods when the control device was not operating.

4.4 GCCS Downtime

During the reporting period, the JRL flare was the only control device, and therefore, the downtime for the GCCS corresponds to the downtime of the flare presented in Appendix C. When the flare shuts down, the blower system that applies vacuum to the wellfield and delivers gas to the flare is designed to also shut down.

4.5 Landfill Gas Collection System Modifications

An updated Landfill Gas Collection and Control System Plan is provided as Figure 1. The figure shows additions to the gas collection system since the GCCS Design Report was submitted in July 2019. JRL installs gas collection trenches in some areas of the landfill as waste is placed, which allows gas collection to begin ahead of the schedule required by the standards. To increase LFG collection, and to reduce odors from LFG, these collectors might be used intermittently as needed at relatively low flow rates before gas generation allows negative pressure to be maintained.

JRL monitors gas collection points as they are added to the system, including those collectors in areas that cannot sustain continuous methane extraction. For the collectors installed in waste earlier than required, non-negative pressure is not recorded as an exceedance.

In addition to monitoring and adjusting gas collection points, JRL completes routine maintenance to improve the quality and quantity of LFG collected from the landfill and to improve monitoring of the LFG collection system. A summary of GCCS improvements completed during the reporting period is included as Table D-1 in Appendix D.

4.6 Exceedances that take more than 60 days to correct

For exceedances that take more than 60 days to correct, this report should include the root cause analysis for the exceedance, including a description of the recommended corrective actions, the date for corrective actions already completed, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

During the reporting period, there were no exceedances that took more than 60 days to correct.

4.7 Enhanced Temperature Monitoring

No enhanced monitoring was needed during the reporting period for unresolved temperature exceedances. As shown in Table A-1, there were no temperature exceedances that occurred during this reporting period.

4.8 Landfill Cover Integrity

JRL uses geosynthetic membrane cover over portions of the landfill to increase gas collection efficiency, and JRL performs cover repairs and upgrades over the entire landfill cover system as needed to increase gas collection and reduce odors. During the reporting period, JRL performed monthly cover integrity checks and made repairs as needed and as conditions allowed.

P:\2300s\2343.22\Source Files\July 2022 Semiannual Rpt\20220729 JRL NESHAP Subpart AAAA Semiannual Report.docx

Figure

Appendix A

Gas Extraction Point Exceedances

Table A-1
Gas Extraction Point Exceedances
Wellfield Monitoring from January 1, 2022 through
June 30, 2022

Juniper Ridge Landfill
Old Town, Maine

Device Name	Open Date	NSPS Exceedances						
		Type	Value	Duration (days)	Corrective Action within 5 Days?	Resolved within 15 Days?	Resolved Date	Status
JR-GW15R	1/26/2022	Pressure	Initial Static Pressure: 0.08	55	completed	no	3/22/2022	closed
JR-GW59R	1/26/2022	Pressure	Initial Static Pressure: 0.03	0	completed	yes	1/26/2022	closed
JRGW59R2	1/26/2022	Pressure	Initial Static Pressure: 0.02	13	completed	yes	2/8/2022	closed
JR-GW-U	2/1/2022	Pressure	Initial Static Pressure: 0.12	4	completed	yes	2/5/2022	closed
JR-GW23R	2/1/2022	Pressure	Initial Static Pressure: 0.07	4	completed	yes	2/5/2022	closed
JR-GW59R	2/1/2022	Pressure	Initial Static Pressure: 0.01	0	completed	yes	2/1/2022	closed
JR-GW07R	2/1/2022	Pressure	Initial Static Pressure: 0.13	4	completed	yes	2/5/2022	closed
JR-GW-40	2/1/2022	Pressure	Initial Static Pressure: 0.12	4	completed	yes	2/5/2022	closed
JR-GW-V	2/1/2022	Pressure	Initial Static Pressure: 0.16	7	completed	yes	2/8/2022	closed
JR-GW23R	3/1/2022	Pressure	Initial Static Pressure: 0.13	15	completed	yes	3/16/2022	closed
JRCT1124	3/17/2022	Pressure	Initial Static Pressure: 0.14	5	completed	yes	3/22/2022	closed
JR-GW23R	3/17/2022	Pressure	Initial Static Pressure: 0.04	0	completed	yes	3/17/2022	closed
JR-GW07R	4/6/2022	Pressure	Initial Static Pressure: 0.11	0	completed	yes	4/6/2022	closed
JR-GW77R	4/6/2022	Pressure	Initial Static Pressure: 0.03	0	completed	yes	4/6/2022	closed
JR-GW-49	4/6/2022	Pressure	Initial Static Pressure: 0.13	0	completed	yes	4/6/2022	closed
JR-GW-58	4/6/2022	Pressure	Initial Static Pressure: 0.01	0	completed	yes	4/6/2022	closed
JRCT1124	4/6/2022	Pressure	Initial Static Pressure: 0.04	0	completed	yes	4/6/2022	closed
JR-GW07R	4/11/2022	Pressure	Initial Static Pressure: 0.03	0	completed	yes	4/11/2022	closed
JR-GW-40	5/3/2022	Pressure	Initial Static Pressure: 0.04	0	completed	yes	5/3/2022	closed
JR-GW15R	5/3/2022	Pressure	Initial Static Pressure: 0.11	21	completed	no	5/24/2022	closed
JR-GW07R	5/3/2022	Pressure	Initial Static Pressure: 0.06	0	completed	yes	5/3/2022	closed
JR-GW23R	5/19/2022	Pressure	Initial Static Pressure: 0.11	0	completed	yes	5/19/2022	closed
JR-GW15R	6/2/2022	Pressure	Initial Static Pressure: 0.11	0	completed	yes	6/2/2022	closed
JR-GW23R	6/2/2022	Pressure	Initial Static Pressure: 0.04	0	completed	yes	6/2/2022	closed

Notes:

1. Pressure is measured in inches of water and temperature is measured in degrees Fahrenheit. There were no temperature exceedances during the reporting period.
2. Exceedances recorded during the reporting period were resolved within the timeframe allowed by NESHAP Subpart AAAA.



JANET T. MILLS
GOVERNOR

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



MELANIE LOYZIM
COMMISSIONER

April 15, 2021

Jeffrey Pelletier
NEWSME Landfill Operations, LLC
358 Emerson Mill Rd
Hampden, ME 04444

RE: Update to Gas Collectors with Higher Operating Values (HOVs)

Dear Mr. Pelletier,

This letter is in response to a letter dated April 5, 2021, submitted on behalf of NEWSME Landfill Operations, LLC (NEWSME) by Sanborn Head and Associates, Inc. regarding the Juniper Ridge Landfill (JRL) operated by NEWSME and located in Old Town, Maine. This letter addressed updating this list of landfill gas collectors with higher operating values (HOVs).

On January 6, 2021, JRL became subject to the operational standards contained in *Standards of Performance for Municipal Solid Waste Landfills That Commenced Construction, Reconstruction, or Modification After July 17, 2014*, 40 C.F.R. Part 60, Subpart XXX, and *National Emission Standards for Hazardous Air Pollutants (NESHAP): Municipal Solid Waste Landfills*, 40 C.F.R. Part 63, Subpart AAAA. As a landfill with a design capacity greater than 2.5 million cubic meters and a non-methane organic compound (NMOC) emission rate greater than 34 megagrams per year, NEWSME is required to install and operate a collection and control system (GCCS) at JRL pursuant to the requirements of 40 C.F.R. Part 60, Subpart XXX.

Pursuant to 40 C.F.R. § 60.762(b)(2)(iv) and 40 C.F.R. § 63.1958(c), NEWSME must operate each interior wellhead in the collection system with a landfill gas temperature less than 145 °F. However, NEWSME may establish a higher operating temperature value for a particular well(s) by submitting a request to the Department demonstrating that the elevated temperature neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens.

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

NEWSME previously requested, and the Department approved, a temperature HOV of 150 °F for the following landfill gas collectors.

Previous Temperature HOVs			
JRGCT508	JRGCT919	JR-GW-31R	JR-GW-75
JRGCT511	JR-GW-13	JR-GW-33R	JR-GW-76
JRGCT704	JR-GW-19R	JR-GW-51	JR-GW-77R
JRGCT706	JR-GW-20R	JR-GW-59R	JR-GW-79
JRGCT711	JR-GW-23R	JR-GW-60	
JRGCT916	JR-GW-30R	JR-GW-70	

NEWSME has since removed the following collectors from the site's GCCS: JRGCT704, JRGCT916, JRGCT919, JR-GW31R, JR-GW-51, and JR-GW-60.

On January 14, 2021, NEWSME replaced collector JR-GW-51 (which had an approved temperature HOV) with collector JR-GW51R. The replacement collector was installed adjacent to the removed collector with the purpose of collecting the gas generated in the same area. In accordance with 40 C.F.R. § 63.1958(c)(2), NEWSME has requested a temperature HOV of 150°F for the replacement landfill gas collector, JR-GW-51R.

Supporting data provided for the request included temperature, oxygen, and methane levels for the new landfill gas collector from January 2021 through March 2021. The oxygen levels for the new landfill gas collector listed above has averaged well below 5% and methane levels were consistently above 40%.

Based on the supporting information presented by NEWSME, it appears that the methanogenic process is still at an anaerobic phase at the higher landfill gas temperatures and no evidence of subsurface landfill fire is present at the site. Therefore, Maine DEP approves NEWSME's request for an operating temperature HOV of 150°F for landfill gas collector JR-GW-51R. Following is an updated list of landfill gas collectors with approved HOVs of 150 °F.

Current Temperature HOVs			
JRGCT508	JR-GW-19R	JR-GW-51R	JR-GW-77R
JRGCT511	JR-GW-20R	JR-GW-59R	JR-GW-79
JRGCT706	JR-GW-23R	JR-GW-70	
JRGCT711	JR-GW-30R	JR-GW-75	
JR-GW-13	JR-GW-33R	JR-GW-76	

If you have any questions about this matter, please contact me at (207) 287-2229 or lynn.muzzey@maine.gov.

Sincerely,

A handwritten signature in blue ink that reads "Lynn Muzzey". The signature is fluid and cursive, with a long horizontal stroke extending from the end of the name.

Lynn Muzzey, P.E.
Air Licensing Section

cc: Jeffery Doris [Sanborn Head]
Tanya Hovell [Maine DEP]
Kathy Tarbuck [Maine DEP]

Appendix B

Landfill Surface Monitoring



GRAPHICAL SCALE

1" = 100'

0 100 200 300

PROJECT NUMBER

2343.22

FIGURE

B

JUNIPER RIDGE LANDFILL

OLD TOWN, MAINE

SURFACE MONITORING PLAN

DRAWN BY: L. ZUCHOWSKI

DESIGNED BY: L. ZUCHOWSKI

REVIEWED BY: R. CLAY

PROJECT MGR: J. DORIS

PIC: D. ADAMS

DATE: JULY 2022

Table B-1
1st Quarter Surface Conditions Monitoring
Juniper Ridge Landfill
Old Town, Maine

Name	Northing	Eastng	Latitude	Longitude	Initial Reading Date	Initial Reading	Initial Reading Notes	First Rescan Date	First Rescan Reading	First Rescan Notes	Second Rescan Date	Second Rescan Reading	Second Rescan Notes	Third Rescan Date	Third Rescan Reading	Status
2022-Q1-01	479564.7	926576.2	44.58204	-68.72250	3/23/2022	535 ppm	Top of cell 12	4/1/2022	2,673 ppm	Dirt cover applied; further repair scheduled	4/7/2022	13 ppm	Liner repaired and dirt cover applied	4/21/2022	11 ppm	closed
2022-Q1-02	478028.2	928954.0	44.57782	-68.72143	3/23/2022	794 ppm	Top southeast corner	4/1/2022	26,572 ppm	Temporary liner repair; further repair scheduled	4/7/2022	20 ppm	Liner repaired and dirt cover applied	4/21/2022	21 ppm	closed
2022-Q1-03	478218.9	925925.2	44.57835	-68.72154	3/23/2022	56,898 ppm	Top southeast side	4/1/2022	24,165 ppm	Temporary liner repair; further repair scheduled	4/7/2022	4 ppm	Liner repaired and dirt cover applied	4/21/2022	12 ppm	closed

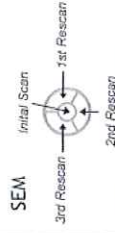
Notes:

1. The initial surface scan performed by Juniper Ridge Landfill (JRL) personnel on the date listed above detected the listed "Initial Reading" exceedance(s) of the methane concentration limit of 500 ppm.

Juniper Ridge Landfill

Q1-2022
Surface Emissions
Monitoring

Color Legend



<200 200 < 500 >500

Symbol Legend

- Gas Well
- Other
- Horizontal
- Condensate Trap
- Cleanout
- Flare

A radius of influence of 100 ft. is depicted at each device.

Reporting Period:

All Time

Map Generated On: 07/13/2022

SEM: 03/23/2022 - 04/21/2022

SANBORN HEAD

LANDFILL GAS MANAGEMENT SYSTEM

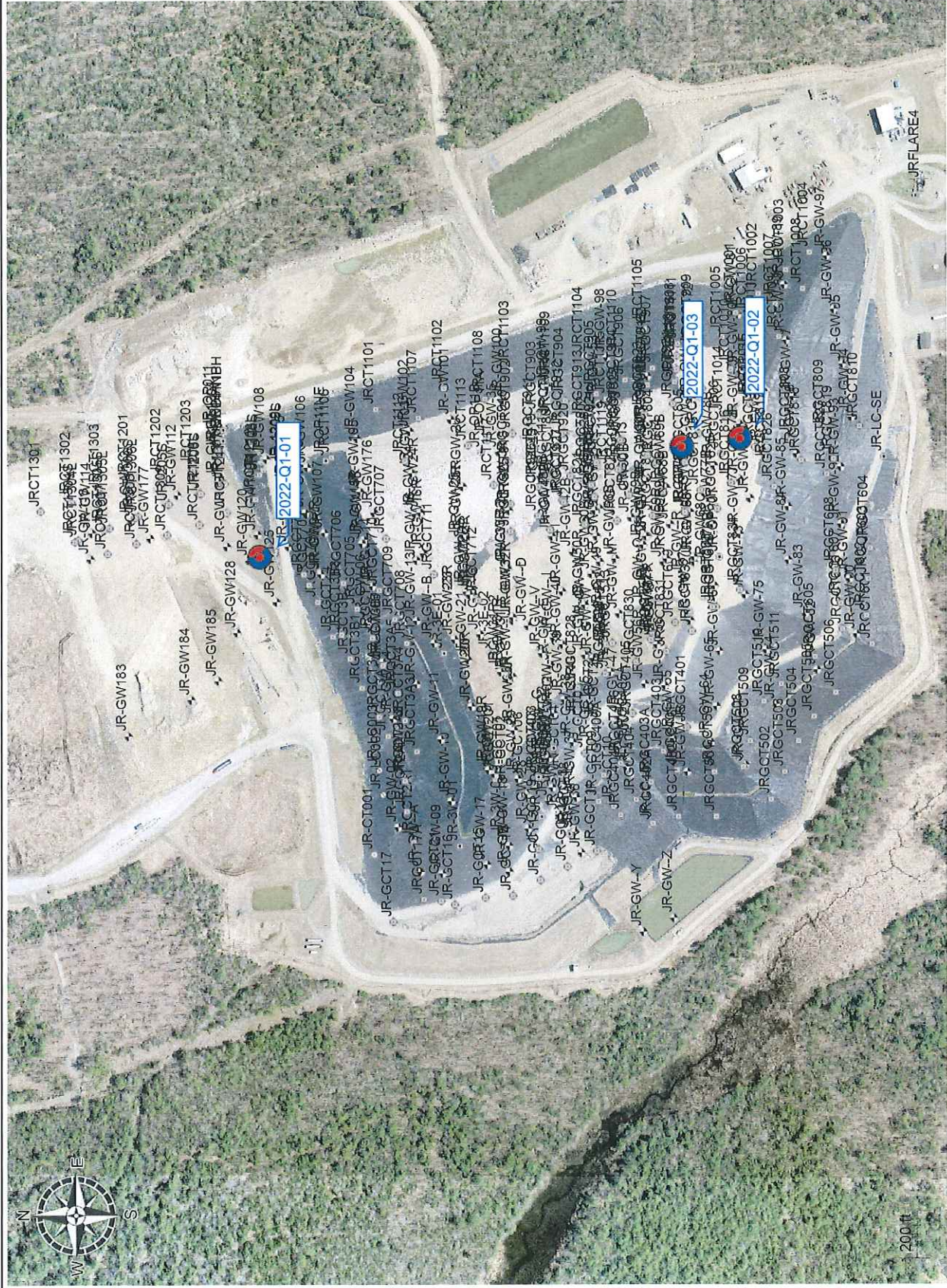


Table B.2
2nd Quarter Surface Emissions Monitoring
Juniper Ridge Landfill
Old Town, Maine

Name	Northing	Easting	Latitude	Longitude	Initial Reading Date	Initial Reading	Initial Reading Notes	First Rescan Date	First Rescan Reading	First Rescan Notes	Second Rescan Date	Second Rescan Reading	Second Rescan Notes	Status
2022-02-01	479284.7	926051.0	44.98126	-68.72290	6/11/2022	890.6 ppm	Added cover material around horizontal leachate cleanout pipe	6/28/2022	12.2 ppm	Located north end of cell 2 and cell 3A at ground level	7/15/2022	116.2	North end of cell 2 and cell 3a at ground level	closed

Notes:

1. The initial surface scan performed by Juniper Ridge Landfill (JRL) personnel on the date noted above detected the listed "Initial Reading" exceedance(s) of the methane concentration limit of 500 ppm.

Appendix C

Control System Summary

Table C-1
Control System Operating Status Summary
from January 1, 2022 through June 30, 2022

Juniper Ridge Landfill
Old Town, Maine

Date	Approximate Time of Shutdown	Approximate Time of Restart	Notes
1/2/2022	1:39 PM	1:53 PM	Filtrate tank high-level shutdown.
1/3/2022	10:13 AM	12:17 PM	Low air pressure plant shut down.
1/11/2022	8:22 AM	9:02 AM	Power bump.
1/31/2022	1:21 PM	1:37 PM	Flare failure.
2/20/2022	5:58 AM	6:10 AM	Vacuum transmitter malfunction.
2/20/2022	6:36 AM	6:47 AM	Vacuum transmitter malfunction.
2/21/2022	1:20 PM	1:31 PM	Vacuum transmitter troubleshooting.
2/23/2022	12:17 AM	12:39 AM	Power bump.
2/23/2022	12:53 AM	1:07 AM	Power bump.
2/23/2022	1:22 AM	1:31 AM	Power bump.
3/9/2022	8:45 AM	9:18 AM	Blower maintenance.
3/29/2022	9:23 AM	9:32 AM	System troubleshooting.
4/5/2022	7:57 AM	8:58 AM	KOP #3 pump replacement and flame arrestor cleaning.
4/20/2022	10:21 AM	10:33 AM	Power bump.
5/1/2022	10:27 PM	10:47 PM	Power bump.
5/2/2022	9:18 AM	9:29 AM	PLC diagnostic.
5/13/2022	3:14 PM	5:15 PM	Power outage.
5/13/2022	6:47 PM	7:02 PM	Power bump.
5/13/2022	7:22 PM	7:37 PM	Power bump.
6/5/2022	7:13 AM	7:42 AM	Power bump.
6/24/2022	5:37 PM	5:58 PM	Power outage.
6/24/2022	7:28 PM	7:44 PM	Power outage.

Notes:

- During the reporting period, the flare at Juniper Ridge Landfill (JRL) operated except for the times shown.

Appendix D

Actions Taken to Improve The Quality And Quantity of Gas Collected

Table D-1
Actions to Improve the Quality and Quantity of Gas Collected
from January 1, 2022 through June 30, 2022

Juniper Ridge Landfill
Old Town, Maine

Improvement Number	Recommended Improvements	Date Recommended	Anticipated Completion Date	Status	Date Completed	Performed By
1038	Installed 12" valve by pump house 13	01-04-2022	01-04-2022	Completed	01-04-2022	Pipe Crew
1039	Installed 6" vac line to GW-128	01-05-2022	01-05-2022	Completed	01-05-2022	Pipe Crew
1040	Installed vac lines GCT-1303 GCT-1302	01-14-2022	01-14-2022	Completed	01-14-2022	Pipe Crew
1041	Installed perf half pipe for GCT-1306	01-18-2022	01-18-2022	Completed	01-18-2022	Pipe Crew
1042	Installed 360' GCT-1306 L+S to complete install	01-20-2022	01-20-2022	Completed	01-20-2022	Pipe Crew
1043	Installed west end of GCT-1305 perf	01-26-2022	01-26-2022	Completed	01-26-2022	Pipe Crew
1044	Finished GCT-1305 L+S	01-27-2022	01-27-2022	Completed	01-27-2022	Pipe Crew
1045	Installed 370' GCT-1304	02-02-2022	02-02-2022	Completed	02-02-2022	Pipe Crew
1046	Installed 360' GCT-1304 L+S	02-07-2022	02-07-2022	Completed	02-07-2022	Pipe Crew
1047	Finished GCT-1304	02-10-2022	02-10-2022	Completed	02-10-2022	Pipe Crew
1048	Installed 102' South Header from Trap in Cell 13	02-11-2022	02-11-2022	Completed	02-11-2022	Pipe Crew
1049	Installed 90' GCT-1306 28' GCT-1305	02-15-2022	02-15-2022	Completed	02-15-2022	Pipe Crew
1050	Installed 163' vac line for GCT-1304	02-16-2022	02-16-2022	Completed	02-16-2022	Pipe Crew
1051	Installed well heads on 1304, 1305, 1306	02-18-2022	02-18-2022	Completed	02-18-2022	Pipe Crew
1052	Repaired GW-60R vacuum line	03-14-2022	03-14-2022	Completed	03-14-2022	Pipe Crew
1053	Capped 12" trap on old flare from Fig pipe	03-15-2022	03-15-2022	Completed	03-15-2022	Pipe Crew
1054	GCT1205L Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1055	GCT1205S Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1056	GCT1206L Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1057	GCT1207L Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1058	GCT1208L Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1059	GCT1209L Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1060	GCT1002 Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1061	GCT1003 Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1062	GCT1006 Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1063	GCT1007 Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1064	GCT1201 Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1065	GCT1210 Decommissioned	03-20-2022	03-20-2022	Completed	03-20-2022	Pipe Crew
1066	Extended 2 4" vac lines off 12" Fig pipe	03-22-2022	03-22-2022	Completed	03-22-2022	Pipe Crew
1067	Capped 12" stub on Cell 3B	03-25-2022	03-25-2022	Completed	03-25-2022	Pipe Crew
1068	GWA Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1069	GW6 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1070	GW10 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1071	GW12 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1072	GW16 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1073	GW19R Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1074	GW31R2 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1075	GCT2A1 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1076	GCT3A4 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1077	GCT3B2 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1078	GCT705 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1079	GCT708 Decommissioned	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1080	Extended 4" Vac line off Fig pipe	03-28-2022	03-28-2022	Completed	03-28-2022	Pipe Crew
1081	Extended 6" vac off fig header	04-01-2022	04-01-2022	Completed	04-01-2022	Pipe Crew
1082	Extended 4" Vac line off fig pipe	04-06-2022	04-06-2022	Completed	04-06-2022	Pipe Crew
1083	Extended 4" Vac line off fig pipe	04-06-2022	04-06-2022	Completed	04-06-2022	Pipe Crew
1084	Extended 6" Vac line off fig pipe	04-06-2022	04-06-2022	Completed	04-06-2022	Pipe Crew
1085	Installed 240' 8" vac in cell 12 to cell 13	04-12-2022	04-12-2022	Completed	04-12-2022	Pipe Crew
1086	Installed 290' of 6" perf of gct1306	04-20-2022	04-20-2022	Completed	04-20-2022	Pipe Crew
1087	Installed 400' of 6" perf of gct1307	04-25-2022	04-25-2022	Completed	04-25-2022	Pipe Crew
1088	Drilled GW113	04-30-2022	04-30-2022	Completed	04-30-2022	Well driller
1089	Drilled GW114	04-30-2022	04-30-2022	Completed	04-30-2022	Well driller
1090	Drilled GW185, 184, 183, 177,	05-02-2022	05-02-2022	Completed	05-02-2022	Well driller
1091	Drilled GW118	05-03-2022	05-03-2022	Completed	05-03-2022	Well driller
1092	Repaired GCT1305, GCT1309 from machine strike.	05-06-2022	05-06-2022	Completed	05-06-2022	Pipe Crew
1093	Installed 428' of 6" perf for 1307	05-07-2022	05-07-2022	Completed	05-07-2022	Pipe Crew
1094	Installed 428' of perf for GCT1308	05-07-2022	05-07-2022	Completed	05-07-2022	Pipe Crew
1095	Repaired GCT1309 from machine strike.	05-09-2022	05-09-2022	Completed	05-09-2022	Pipe Crew
1096	Installed 110' of perf and 60' solid for GCT1305	05-10-2022	05-10-2022	Completed	05-10-2022	Pipe Crew
1097	Extended GW4	05-11-2022	05-11-2022	Completed	05-11-2022	Pipe Crew
1098	Extended GW5	05-12-2022	05-12-2022	Completed	05-12-2022	Pipe Crew
1099	Installed 420' of 6" perf for GCT1308	05-15-2022	05-15-2022	Completed	05-15-2022	Pipe Crew
1100	Extended GCT709	05-17-2022	05-17-2022	Completed	05-17-2022	Pipe Crew
1101	Hard capped 12" stick up in 3B	05-17-2022	05-17-2022	Completed	05-17-2022	Pipe Crew
1102	Extended GW3 and repaired from machine strike.	05-18-2022	05-18-2022	Completed	05-18-2022	Pipe Crew
1103	Extended GCT709	05-20-2022	05-20-2022	Completed	05-20-2022	Pipe Crew
1104	Installed 6" vac for GW184 & GW185	05-24-2022	05-24-2022	Completed	05-24-2022	Pipe Crew
1105	Installed 6" vac for GW113 & GW114	05-25-2022	05-25-2022	Completed	05-25-2022	Pipe Crew
1106	Installed 12" header in cell 13 84'	05-26-2022	05-26-2022	Completed	05-26-2022	Pipe Crew
1107	Restored vac to GW15R 102' 6" solid	05-27-2022	05-27-2022	Completed	05-27-2022	Pipe Crew
1108	Extended 6" vac in cell 3A-3B	05-31-2022	05-31-2022	Completed	05-31-2022	Pipe Crew
1109	Installed 196' of 6" vac	06-06-2022	06-06-2022	Completed	06-06-2022	Pipe Crew
1110	Installed 84' of 6" vac	06-07-2022	06-07-2022	Completed	06-07-2022	Pipe Crew
1111	Connected vac to GCT1307 GCT1308 GCT1309 GW118 & GW177	06-09-2022	06-09-2022	Completed	06-09-2022	Pipe Crew
1112	Pipe repair in cell 2 from a machine strike.	06-14-2022	06-14-2022	Completed	06-14-2022	Pipe Crew
1113	Installed well heads and brought online for collection, GW118 GW177 GW113	06-15-2022	06-15-2022	Completed	06-15-2022	Pipe Crew
1114	Installed well heads and brought online for collection, GW183 GW184 GW 185 GW 114	06-16-2022	06-16-2022	Completed	06-16-2022	Pipe Crew
1115	Restored vac to GW15r 106' of 6"	06-26-2022	06-26-2022	Completed	06-26-2022	Pipe Crew