HERRERA
Science + Planning + Design

June 14, 2024

Alan Noell
Washington State Department of Ecology
15700 Dayton Avenue North
Shoreline, Washington 98133

Subject: Go East Landfill / Alpine Estate Landfill Gas Monitoring Data Update

Dear Mr. Noell:

Since the Landfill Gas Monitoring Readiness at Go East Landfill/Alpine Estates Development Report was finalized in February 2024, we have continued routine landfill gas monitoring at the Go East Landfill/Alpine Estates property and have seen exceedances of 5% methane at most of the perimeter soil gas probes. Per our protocol when there are exceedances of 1% methane at probes, we have been checking the house ventilation trench monitoring stations of nearby homes and we continue to see no detection of methane beneath the Alpine Estates home. Additionally, we've been performing surface monitoring around the perimeter of the landfill and in the area of current home construction. Methane levels have been well below 100 ppm (0.01% methane), which is the indoor air criteria per WAC 173-350-400. See the attached data.

Per the Landfill Gas Monitoring Readiness Report (Herrera 2024), we've performed a number of investigations and contingency measures and have seen fluctuations of methane levels in the probes since we started monitoring in November of 2022. Since removing the soil vapor extraction unit and removing the vacuum extraction from the landfill perimeter collection trench and individual probes in November of 2023 we've seen methane presence rebound at the probes and return to conditions that were observed when monitoring first began at the site in November of 2022. This most recent trend upward is leading us towards additional action to attempt to better control methane presence. The below is an outline of proposed steps we are planning and implementing:

1. Reinstall the portable blower unit as it was previously near GP7 and provide a vacuum on the perimeter trench through sump by GP7. Discharge will be routed through the vent connected to sump by GP7. The portable blower unit operates under 200 scfm and therefore does not require a permit. A new electrical service post with meter and outlets is being installed at the lot adjacent to GP7, lot 30, to provide a power source for the blower unit.
    a. Once pulling on perimeter trench, monitor methane concentrations at probes and sump. Probe reads will be weekly when barometric pressure is declining.

   b. Compare methane concentration in sump to methane concentrations at probes.
   c. If methane concentrations at probes do not decline after a month of monitoring (or do not decline significantly), go to Step 2.
2. Keep blower installed and cap the other two vent pipe connections at the other sumps to increase vacuum influence to perimeter trench.
   a. Monitor methane concentrations at probes for a month. Take probe reads weekly when barometric pressure is declining.
   b. Compare methane concentration in sump to methane concentrations at probes.
   c. If methane concentrations at probes do not decline after a month of monitoring (or do not decline significantly), go to Step 3.
3. Install larger blower unit and keep the other two vent pipes capped. This would require us to take a gas sample and perform loading analysis to get discharge permit.
   a. Monitor methane concentrations at probes for a month. Take probe reads weekly when barometric pressure is declining.
   b. Compare methane concentration in sump to methane concentrations at probes.
   c. If methane concentrations at probes do not decline after a month of monitoring (or do not decline significantly), go to Step 4.
4. If perimeter probe methane concentrations have not declined and comparison to methane concentration at sump (in landfill collection trench) suggests methane at probes is not coming from landfill:
   a. May need to install vertical extraction wells beyond landfill boundary and provide vacuum to them.
   b. May need to install additional perimeter probes to evaluate extent of methane presence.
      i. Could install just beyond the former extent of wedge area to determine whether methane observed at existing probes is due to residual gas from previous extents of waste.
5. If perimeter probe and sump methane concentrations decline, suggests methane at probes is coming from landfill.
   a. Extract LFG through vertical wells until probes drop below 5%.
   b. Turn off blower unit and monitor for rebound.
   c. If rebound occurs, establish more permanent location for blower unit.
   d. If no rebound, remove equipment.

With the suggested steps outlined above, Herrera hopes to get answers about the source and extent of methane on the Go East Landfill/Alpine Estates property. Herrera understands that the WAC 173-350-400 lower explosive limit of 5% methane is not being met for gases in soil at the landfill boundary. Monitoring of surface emissions and house ventilation trench monitoring stations has shown that the methane observed in the probes is not migrating to the surface or underneath houses. Herrera believes the environmental controls, monitoring, and contingency response measures installed and performed for the Alpines Estates homes provide safeguards against the

potential threat of persistent methane outside the landfill. The network of house ventilation trench monitoring stations below each of the 96 houses planned for the Alpine Estates development provides a large footprint for monitoring and evaluating landfill gas migration while additional investigations and contingency measures are done to mitigate the presence of landfill gas in the deep soils of the property.

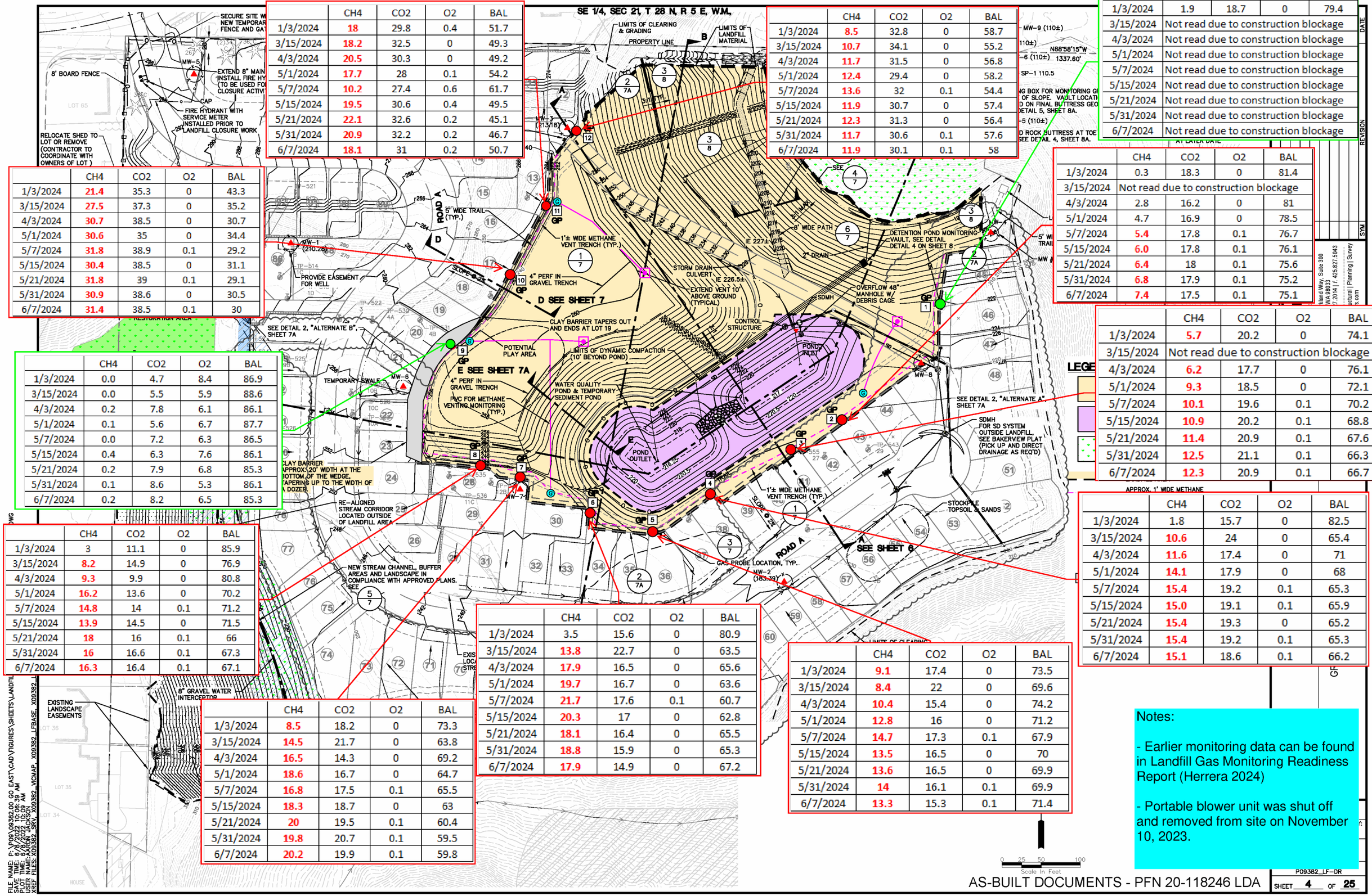
Sincerely,

Herrera Environmental Consultants, Inc.

Tyson Wright, P.E.
Senior Engineer

Enclosure: Landfill gas probe and surface monitoring data

cc: Stacia Bloom, P.E., Century Communities; Megan Bertolacci, Snohomish Health Department



	CH4	CO2	O2	BAL
1/3/2024	18	29.8	0.4	51.7
3/15/2024	18.2	32.5	0	49.3
4/3/2024	20.5	30.3	0	49.2
5/1/2024	17.7	28	0.1	54.2
5/7/2024	10.2	27.4	0.6	61.7
5/15/2024	19.5	30.6	0.4	49.5
5/21/2024	22.1	32.6	0.2	45.1
5/31/2024	20.9	32.2	0.2	46.7
6/7/2024	18.1	31	0.2	50.7

	CH4	CO2	O2	BAL
1/3/2024	8.5	32.8	0	58.7
3/15/2024	10.7	34.1	0	55.2
4/3/2024	11.7	31.5	0	56.8
5/1/2024	12.4	29.4	0	58.2
5/7/2024	13.6	32	0.1	54.4
5/15/2024	11.9	30.7	0	57.4
5/21/2024	12.3	31.3	0	56.4
5/31/2024	11.7	30.6	0.1	57.6
6/7/2024	11.9	30.1	0.1	58

	CH4	CO2	O2	BAL
1/3/2024	1.9	18.7	0	79.4
3/15/2024	Not read due to construction blockage			
4/3/2024	Not read due to construction blockage			
5/1/2024	Not read due to construction blockage			
5/7/2024	Not read due to construction blockage			
5/15/2024	Not read due to construction blockage			
5/21/2024	Not read due to construction blockage			
5/31/2024	Not read due to construction blockage			
6/7/2024	Not read due to construction blockage			

	CH4	CO2	O2	BAL
1/3/2024	21.4	35.3	0	43.3
3/15/2024	27.5	37.3	0	35.2
4/3/2024	30.7	38.5	0	30.7
5/1/2024	30.6	35	0	34.4
5/7/2024	31.8	38.9	0.1	29.2
5/15/2024	30.4	38.5	0	31.1
5/21/2024	31.8	39	0.1	29.1
5/31/2024	30.9	38.6	0	30.5
6/7/2024	31.4	38.5	0.1	30

	CH4	CO2	O2	BAL
1/3/2024	0.3	18.3	0	81.4
3/15/2024	Not read due to construction blockage			
4/3/2024	2.8	16.2	0	81
5/1/2024	4.7	16.9	0	78.5
5/7/2024	5.4	17.8	0.1	76.7
5/15/2024	6.0	17.8	0.1	76.1
5/21/2024	6.4	18	0.1	75.6
5/31/2024	6.8	17.9	0.1	75.2
6/7/2024	7.4	17.5	0.1	75.1

	CH4	CO2	O2	BAL
1/3/2024	0.0	4.7	8.4	86.9
3/15/2024	0.0	5.5	5.9	88.6
4/3/2024	0.2	7.8	6.1	86.1
5/1/2024	0.1	5.6	6.7	87.7
5/7/2024	0.0	7.2	6.3	86.5
5/15/2024	0.4	6.3	7.6	86.1
5/21/2024	0.2	7.9	6.8	85.3
5/31/2024	0.1	8.6	5.3	86.1
6/7/2024	0.2	8.2	6.5	85.3

	CH4	CO2	O2	BAL
1/3/2024	5.7	20.2	0	74.1
3/15/2024	Not read due to construction blockage			
4/3/2024	6.2	17.7	0	76.1
5/1/2024	9.3	18.5	0	72.1
5/7/2024	10.1	19.6	0.1	70.2
5/15/2024	10.9	20.2	0.1	68.8
5/21/2024	11.4	20.9	0.1	67.6
5/31/2024	12.5	21.1	0.1	66.3
6/7/2024	12.3	20.9	0.1	66.7

	CH4	CO2	O2	BAL
1/3/2024	3	11.1	0	85.9
3/15/2024	8.2	14.9	0	76.9
4/3/2024	9.3	9.9	0	80.8
5/1/2024	16.2	13.6	0	70.2
5/7/2024	14.8	14	0.1	71.2
5/15/2024	13.9	14.5	0	71.5
5/21/2024	18	16	0.1	66
5/31/2024	16	16.6	0.1	67.3
6/7/2024	16.3	16.4	0.1	67.1

	CH4	CO2	O2	BAL
1/3/2024	1.8	15.7	0	82.5
3/15/2024	10.6	24	0	65.4
4/3/2024	11.6	17.4	0	71
5/1/2024	14.1	17.9	0	68
5/7/2024	15.4	19.2	0.1	65.3
5/15/2024	15.0	19.1	0.1	65.9
5/21/2024	15.4	19.3	0	65.2
5/31/2024	15.4	19.2	0.1	65.3
6/7/2024	15.1	18.6	0.1	66.2

	CH4	CO2	O2	BAL
1/3/2024	3.5	15.6	0	80.9
3/15/2024	13.8	22.7	0	63.5
4/3/2024	17.9	16.5	0	65.6
5/1/2024	19.7	16.7	0	63.6
5/7/2024	21.7	17.6	0.1	60.7
5/15/2024	20.3	17	0	62.8
5/21/2024	18.1	16.4	0	65.5
5/31/2024	18.8	15.9	0	65.3
6/7/2024	17.9	14.9	0	67.2

	CH4	CO2	O2	BAL
1/3/2024	8.5	18.2	0	73.3
3/15/2024	14.5	21.7	0	63.8
4/3/2024	16.5	14.3	0	69.2
5/1/2024	18.6	16.7	0	64.7
5/7/2024	16.8	17.5	0.1	65.5
5/15/2024	18.3	18.7	0	63
5/21/2024	20	19.5	0.1	60.4
5/31/2024	19.8	20.7	0.1	59.5
6/7/2024	20.2	19.9	0.1	59.8

	CH4	CO2	O2	BAL
1/3/2024	9.1	17.4	0	73.5
3/15/2024	8.4	22	0	69.6
4/3/2024	10.4	15.4	0	74.2
5/1/2024	12.8	16	0	71.2
5/7/2024	14.7	17.3	0.1	67.9
5/15/2024	13.5	16.5	0	70
5/21/2024	13.6	16.5	0	69.9
5/31/2024	14	16.1	0.1	69.9
6/7/2024	13.3	15.3	0.1	71.4

Notes:

- Earlier monitoring data can be found in Landfill Gas Monitoring Readiness Report (Herrera 2024)

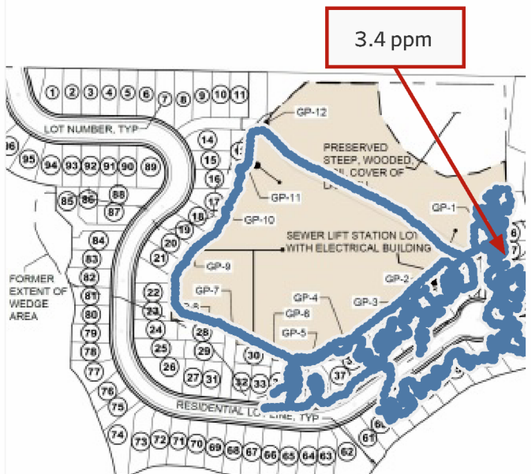
- Portable blower unit was shut off and removed from site on November 10, 2023.

AS-BUILT DOCUMENTS - PFN 20-118246 LDA

P09382_LF-DR

SHEET 4 OF 25

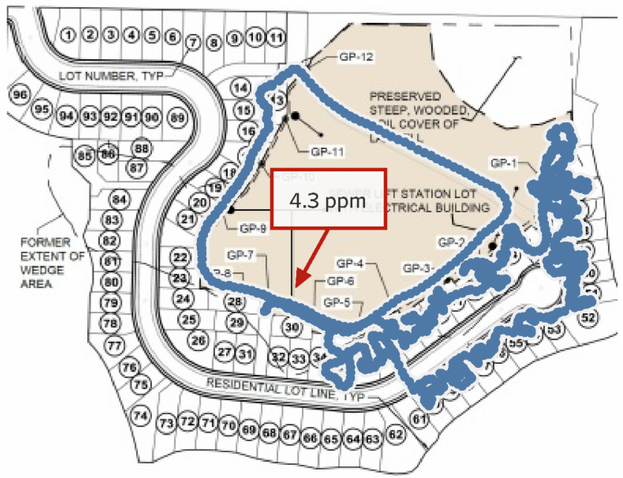
Surface Monitoring
May 15, 2024



CH4 (ppm)

2.9000	3.1000	3.4000
3.0000	3.2000	

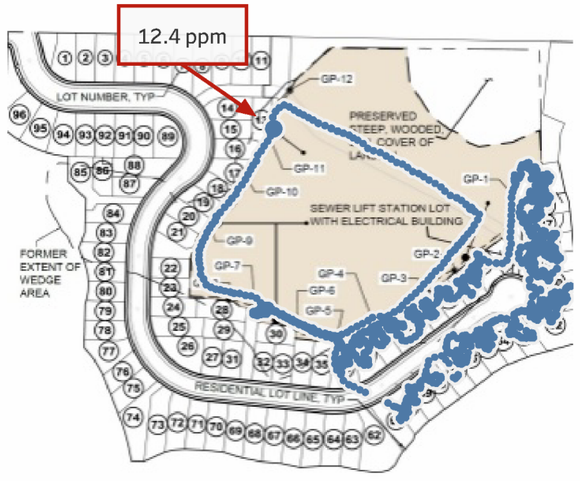
Surface Monitoring
May 21, 2024



CH4 (ppm)

2.700	3.500	4.300
3.000	4.000	

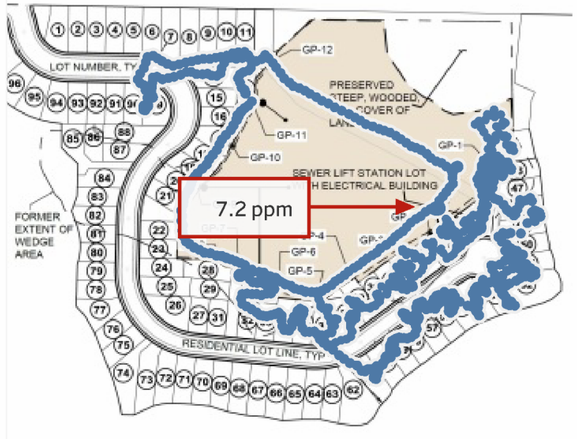
Surface Monitoring
May 31, 2024



CH4 (ppm)

2.00	6.00	10.00
4.00	8.00	12.40

Surface Monitoring
June 7, 2024



CH4 (ppm)

2.100	4.000	6.000
3.000	5.000	7.200

LFG MONITORING FORM

Facility Name: Alpine Estates	**Facility Address:** 4330 108th St SE, Everett, WA
Permit Number: SW-027	**Time of Sampling: Start** 1430 **Finish** 1555
Date of Sampling: 3/15/2024	**Date of Next Full Calibration:** N/A, rental
Gas Meter Type and Serial Number: GEM2000	**Last Field Calibration Date:** 3/15/2024
Monitoring Personnel: Camryn Steiner	**Weather:** Sunny, 59°F
	Barometric Pressure (inches or mm Hg): 30.14 ↓
	Mean Temperature: 59 °F
	Weather/Soil Conditions: sunny / wet
Gas Meter Sample Pump Rate: 300 cc/min	**Sample Pump Time (sec or min):** Between 5.7 + 10.2 min
	Pore Volume (cc): Between 1812 + 4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Did not read due to construction blockage					
2		Did not read due to construction blockage					
3		Did not read due to construction blockage					
4		212%	10.6	0	24.0	N/A	
5		168%	8.4	0.0	22.0	N/A	
6		276%	13.8	0.0	22.7	N/A	
7		290%	14.5	0.0	21.7	N/A	
8		164%	8.2	0.0	14.9	N/A	
9		0%	0.0	5.9	5.5	N/A	
10		550%	27.5	0.0	37.3	N/A	checked lots 16-19 → 0.0% CH4
11		364%	18.2	0.0	32.5	N/A	checked lots 15-16 → 0.0% CH4
12		214%	10.7	0.0	34.1	N/A	checked lot 15 → 0.0% CH4

Note: If needed, attach additional data forms.

General Comments: Followed contingency protocol per Figure C-1 of CMCP for probes w/ methane exceedances

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: [signature] **TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Go East Landfill	**Facility Address:** 4330 108th St SE, Everett, WA
Permit Number: SW-027	**Time of Sampling: Start** 1030 **Finish** 1215
Date of Sampling: 4/3/2024	**Date of Next Full Calibration:** N/A, rental
Gas Meter Type and Serial Number: MRU Optimax	**Last Field Calibration Date:** 4/3/2024
Monitoring Personnel: Camryn Stever	**Weather:** Rainy, high 40s
	Barometric Pressure (inches or mm Hg): 29.82 ↑
	Mean Temperature: 48°
	Weather/Soil Conditions: rainy/wet
Gas Meter Sample Pump Rate: 300 cc/min	**Sample Pump Time (sec or min):** 5.7-10.2 min
	Pore Volume (cc): 1812-4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		56	2.8	0	16.2	0	
3		124	6.2	0	17.7	0	
4		232	11.6	0	17.4	3	
5		208	10.4	0	15.4	2	
6		358	17.9	0	16.5	3	
7		330	16.5	0	14.3	26	
8		186	9.3	0	9.9	11	
9		4	0.2	6.1	7.8	0	
10		614	30.7	0	38.5	1	checked lots 16-19 ↑→0% CH4
11		410	20.5	0	30.3	9	checked lots 15-16→0% CH4
12		237	11.7	0	31.5	1	checked lot 15→0% CH4

Note: If needed, attach additional data forms.

General Comments: Followed contingency protocol per figure C-1 of GMCP for probe methane exceedance

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: Camryn Stever **TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Go East Landfill

Facility Address: 4330 108th St SE, Everett WA

Permit Number: SW-027

Time of Sampling: Start 1100 Finish 1230

Date of Sampling: 5/1/2024

Date of Next Full Calibration: April 2025

Gas Meter Type and Serial Number: GEM5000

Last Field Calibration Date: 5/1/2024

Weather: low 50s, cloudy

Barometric Pressure (inches or mm Hg): 30.19 ↓

Monitoring Personnel: Camryn Stemer

Mean Temperature: 53°

Weather/Soil Conditions: cloudy, wet

Gas Meter Sample Pump Rate: 300 cc/min

Sample Pump Time (sec or min): 5.7-10.2 min

Pore Volume (cc): 1812-4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		94%	4.7	16.9 ↔ 0		0	
3		186%	9.3	18.5 ↔ 0		0	
4		282%	14.1	0	17.9	3	
5		256%	12.8	0	16	2	
6		394%	19.7	0	16.7	3	
7		372%	18.6	0	16.7	54	
8		324%	16.2	0	13.6	9	
9		2%	0.1	6.7	5.6	0	
10		612%	30.6	0	35	1	checked lots 16-19 → 0% CH_4
11		354%	17.7	0.1	28	9	checked lots 15-16 → 0% CH_4
12		248%	12.4	0	29.4	2	checked lot 15 → 0% CH_4

Note: If needed, attach additional data forms.

General Comments: Followed contingency protocol per Fig C-1 of CMCP for probes w/ methane exceedances + nearby occupied houses

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: Camryn Stemer **TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Go East Landfill	**Facility Address:** 4330 108th St SE, Everett, WA
Permit Number: SW-027	**Time of Sampling: Start** 1110 **Finish** 1300
Date of Sampling: 5/1/2024	**Date of Next Full Calibration:** April 2025
Gas Meter Type and Serial Number: GEM5000	**Last Field Calibration Date:** 5/1/2024
Monitoring Personnel: Camryn Stever	**Weather:** Sunny, high 50s
	Barometric Pressure (inches or mm Hg): 30.08 ↑
	Mean Temperature: 56°
	Weather/Soil Conditions: sunny, wet
Gas Meter Sample Pump Rate: 300 cc/min	**Sample Pump Time (sec or min):** 5.7-10.2mm
	Pore Volume (cc): 1812-4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		~~300~~ 108	5.4	0.1	17.8	0	
3		202	10.1	0.1	19.6	0	
4		308	15.4	0.1	19.2	2	
5		294	14.7	0.1	17.3	1	
6		434	21.7	0.1	17.6	2	
7		336	16.8	0.1	17.5	50	
8		296	14.8	0.1	14	7	
9		0	0	6.3	7.2	0	
10		636	31.8	0.1	38.9	0	checked lots 16-19 → 0% CH_4
11		204	10.2	0.6	27.4	~~0~~ 1	checked lots 15-16 → 0% CH_4
12		272	13.6	0.1	32	0	checked lot 15 → 0% CH_4

Note: If needed, attach additional data forms.

General Comments:
Followed contingency protocol per figure C-1 of CMCP for probe methane exceedance

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: Camryn Stever **TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Go East Landfill	**Facility Address:** 4330 108th St SE, Everett, WA
Permit Number: SW-027	**Time of Sampling: Start** 0930 **Finish** 1045
Date of Sampling: 5/15/2024	**Date of Next Full Calibration:** April 2025
Gas Meter Type and Serial Number: GEM5000	**Last Field Calibration Date:** 5/1/2024
Monitoring Personnel: Camryn Stever	**Weather:** Cloudy, Mid 50s
	Barometric Pressure (inches or mm Hg): 30.01 ↓
	Mean Temperature: 58°
	Weather/Soil Conditions: Cloudy/wet
Gas Meter Sample Pump Rate: 300 cc/mm	**Sample Pump Time (sec or min):** 5.7-10.2 min
	Pore Volume (cc): 1812-4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		120	6.0	0.1	17.8	0	
3		218	10.9	0.1	20.2	0	
4		300	15.0	0.1	19.1	2	
5		270	13.5	0	16.5	1	
6		406	20.3	0	17	2	
7		366	18.3	0	18.7	37	
8		278	13.9	0	14.5	8	
9		8	0.4	7.6	6.3	1	
10		608	30.4	0	38.5	0	checked lots 16-19 → 0% CH_4
11		390	19.5	0.4	30.6	7	checked lots 15-16 → 0% CH_4
12		238	11.9	0	30.7	1	checked lot 15 → 0% CH_4

Note: If needed, attach additional data forms.

General Comments: Followed contingency protocol per figure C-1 of CMCP for probes above 1% methane

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: Camryn Stever **TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Alpine Estates / Go East Landfill

Facility Address: 4330 108th St SE, Everett, WA

Permit Number: SW-027

Time of Sampling: Start 1025 **Finish** 1140

Date of Sampling: 5/21/2024

Date of Next Full Calibration: April 2025

Gas Meter Type and Serial Number: GEM5000

Last Field Calibration Date: 5/1/2024

Weather: rainy, 51°

Barometric Pressure (inches or mm Hg): 30.05 ↓

Mean Temperature: 51°

Weather/Soil Conditions: rainy / wet

Monitoring Personnel: Camryn Stever

Gas Meter Sample Pump Rate: 300 cc/min

Sample Pump Time (sec or min): 5.7 – 10.2 min

Pore Volume (cc): 1812 – 4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		128	6.4	0.1	18	0	
3		228	11.4	0.1	20.9	0	
4		308	15.4	0	19.3	2	
5		272	13.6	0	16.1	1	
6		362	18.1	0	16.4	1	
7		400	20	0.1	19.5	40	
8		360	18	0.1	16	7	
9		4	0.2	6.8	7.9	1	
10		636	31.8	0.1	39	0	checked lots 16-19 → 0% CH_4
11		442	22.1	0.2	32.6	7	checked lots 15-16 → 0% CH_4
12		246	12.3	0	31.3	1	checked lot 15 → 0% CH_4

Note: If needed, attach additional data forms.

General Comments: followed contingency protocol Fig C-1 of CMCP for methane exceedances + occupied homes

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: Camryn Stever **TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Go East Landfill	**Facility Address:** 4330 108th St SE Everett, WA
Permit Number: SW-027	**Time of Sampling: Start** 0930 **Finish** 1130
Date of Sampling: 5/31/2024	**Date of Next Full Calibration:** April 2025
Gas Meter Type and Serial Number: GEM 5000	**Last Field Calibration Date:** 5/1/2024
Monitoring Personnel: Camryn Steiner	**Weather:** sunny, high 50s
	Barometric Pressure (inches or mm Hg): 29.96 ↓
	Mean Temperature: 58°
	Weather/Soil Conditions: sunny, wet
Gas Meter Sample Pump Rate: 300 cc/min	**Sample Pump Time (sec or min):** 5.7-10.2 min
	Pore Volume (cc): 1812-4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		1380	6.8	0.1	17.9	0	
3		250	12.5	0.1	24.1	0	
4		308	15.4	0.1	19.2	3	
5		280	14	0.1	16.1	1	
6		376	18.8	0	15.9	2	
7		396	19.8	~~20~~ 0.1	20.7	33	
8		320	16	0.1	16.6	12	
9		2	0.1	5.3	8.6	0	
10		618	30.9	0	38.6	0	checked lots 16-19 → 0% CH_4
11		418	20.9	0.2	32.2	5	checked lots 15-16 → 0% CH_4
12		~~338~~ 234	11.7	0.1	30.6	1	checked lot 15 → 0% CH_4

Note: If needed, attach additional data forms.

General Comments: Followed contingency plan Fig C-1 of GMCP for methane exceedances

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: Camryn Steiner	**TITLE:** Engineer II

LFG MONITORING FORM

Facility Name: Go East Landfill	**Facility Address:** 4330 108th St SE, Everett, WA
Permit Number: SW-027	**Time of Sampling: Start** 1140 **Finish** 1250
Date of Sampling: 6/7/2024	**Date of Next Full Calibration:** April 2025
Gas Meter Type and Serial Number: GEM5000	**Last Field Calibration Date:** 5/1/2024
Monitoring Personnel: Camryn Stenner	**Weather:** sunny, high 60s
	Barometric Pressure (inches or mm Hg): 30.01 ↓
	Mean Temperature: 67°
	Weather/Soil Conditions: sunny, mostly dry
Gas Meter Sample Pump Rate: 300 cc/min	**Sample Pump Time (sec or min):** 5.7 - 10.2 min
	Pore Volume (cc): 1812-4474

Results:

Perimeter Probe No.	Initial Percent LEL	Stabilized Percent LEL	Percent CH_4 (volume)	Percent O_2 (volume)	Percent CO_2 (volume)	H_2S (ppmV)	NOTES
1		Not read due to construction blockage					
2		148	7.4	0.1	17.5	0	
3		246	12.3	0.1	20.9	0	
4		302	15.1	0.1	18.6	4	
5		266	13.3	0.1	15.3	1	
6		358	17.9	0.0	14.9	2	
7		404	20.2	0.1	17.9	35	
8		326	16.3	0.1	16.4	13	
9		4	0.2	6.5	8.2	0	
10		628	31.4	0.1	38.5	0	checked lots 16-19 → 0% CH4
11		362	18.1	0.2	31.0	7	checked lots 15-16 → 0% CH4
12		238	11.9	0.1	30.1	1	checked lots 15 → 0% CH4

Note: If needed, attach additional data forms.

General Comments:

Followed contingency protocol per Figure C-1 of CMCP for probe methane exceedance

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification.

SIGNATURE: [signature] **TITLE:** Engineer II