

Periodic Methane Monitoring Report

1st Quarter / 2022
Quarter or Month / Year

Facility Name: <u>Eagle Point Landfill</u>	Date(s) of Monitoring: <u>1/5/2022</u>
Facility Permit #'s: _____	Monitoring Conducted by: <u>EM Services</u>
Permit #'s (cont): <u>058-012D(MSWL)</u>	Equipment Field Calibrated by: <u>N. Walker</u>
County (Location): <u>Forsyth</u>	Date of Field Calibration: <u>1/4/2021</u>
Monitoring Equipment: <u>RKI Eagle 2</u>	Manufacturer Calibration/Service Date: <u>1/3/2022</u>

1. All reports must include a scaled and dated potentiometric surface map, (this applies only to those facilities required to perform groundwater monitoring) that shows ALL monitoring points, accompanied by a table listing the as-built depths and corresponding elevations of the bottoms of the methane monitoring wells and/or barhole punches. The potentiometric surface maps must be updated on an annual basis, signed & sealed by a qualified groundwater scientist. Those facilities that do not conduct groundwater monitoring should, at a minimum, include a site map that shows ALL monitoring locations.

2. All reports must specify whether each monitoring location is a structure, permanent well, barhole punch or vent (e.g. MM-1=scalehouse, MM-1=well, MM-1=BHP (barhole punch), MM-1=vent, or GWC-1=groundwater well).

3. Monitoring Results

a. Permanent Approved COMPLIANCE Monitoring Locations

<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>	<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>
<u>MM-1S</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.8%</u> Time Sampled: <u>1318</u>	<u>MM-4</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.0%</u> Time Sampled: <u>1256</u>
<u>MM-1D</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>20.1%</u> Time Sampled: <u>1315</u>	<u>MM-5</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>17.8%</u> Time Sampled: <u>1253</u>
<u>MM-2S</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>20.0%</u> Time Sampled: <u>1310</u>	<u>MM-6</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>18.4%</u> Time Sampled: <u>1350</u>
<u>MM-2D</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.9%</u> Time Sampled: <u>1307</u>	<u>MM-7</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>14.5%</u> Time Sampled: <u>1347</u>
<u>MM-3S</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>19.0%</u> Time Sampled: <u>1259</u>	<u>MM-8S</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>18.8%</u> Time Sampled: <u>1341</u>
<u>MM-3D</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>18.7%</u> Time Sampled: <u>1302</u>	<u>MM-8D</u> Well	% Methane By Volume: <u>0%</u> % Oxygen: <u>18.4%</u> Time Sampled: <u>1344</u>

a. Permanent Approved COMPLIANCE Monitoring Locations (cont'd)

<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>				<u>Monitoring Results</u>		
<u>MM-9A</u> Well	% Methane By Volume:	<u>0%</u>		<u>MM-10</u> Well	% Methane By Volume:	<u>0%</u>	
	% Oxygen:	<u>18.4%</u>			% Oxygen:	<u>16.7%</u>	
	Time Sampled:	<u>1228</u>			Time Sampled:	<u>1225</u>	
<u>MM-9S</u> Well	% Methane By Volume:	<u>0%</u>		<u>MM-11</u> Well	% Methane By Volume:	<u>0%</u>	
	% Oxygen:	<u>18.1%</u>			% Oxygen:	<u>14.9%</u>	
	Time Sampled:	<u>1335</u>			Time Sampled:	<u>1222</u>	
<u>MM-9D</u> Well	% Methane By Volume:	<u>0%</u>					
	% Oxygen:	<u>17.3%</u>					
	Time Sampled:	<u>1338</u>					

b. Facility Structures (All on-site structures must be monitored, listed, and shown on map)

<u>Facility Structure</u>	<u>Monitoring Results</u>			<u>Facility Structure</u>	<u>Monitoring Results</u>		
<u>MM-12</u> Scale House	% LEL:	<u>0%</u>		<u>MM-15</u> Maintenance Shop	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1326</u>			Time Sampled:	<u>1332</u>	
<u>MM-13</u> Storage Shed A	% LEL:	<u>0%</u>		<u>MM-16</u> Break Trailer	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1220</u>			Time Sampled:	<u>1213</u>	
<u>MM-13</u> Storage Shed B	% LEL:	<u>0%</u>		<u>MM-17</u> Operations Trailer	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1219</u>			Time Sampled:	<u>1216</u>	
<u>MM-14</u> Office	% LEL:	<u>0%</u>		<u>MM-18</u> Pump Maint. Bldg.	% LEL:	<u>0%</u>	
	% Methane by Volume:	<u>0%</u>			% Methane by Volume:	<u>0%</u>	
	% Oxygen:	<u>20.9%</u>			% Oxygen:	<u>20.9%</u>	
	Time Sampled:	<u>1329</u>			Time Sampled:	<u>1210</u>	

c. Miscellaneous Monitoring Locations (vents, trenches not part of compliance monitoring)

<u>Monitoring Point Identification</u>	<u>Monitoring Results</u>		
<u>N/A</u>	% Methane By Volume:	<u> </u>	
	% Oxygen:	<u> </u>	
	Time Sampled:	<u> </u>	

d. Adjacent Off-site Structures (off-site structures at facilities with known release)

<u>Off-site Structure</u>	<u>Monitoring Results</u>
N/A	% LEL: _____
	% Methane by Volume: _____
	% Oxygen: _____
	Time Sampled: _____

4. Climatic/Physical Conditions at Site

Samples must be collected under normal/average conditions of temperature, pressure, and climate for the season. Barhole punch sampling should not be performed during or immediately after rain events, or when soils are saturated or frozen. **All sampling at compliance monitoring locations must be performed after 12:00 pm, and completed by 6:00 pm.** Barometric information can be obtained from many locations (i.e. <http://weather.noaa.gov>).

- a. Soil Conditions: Wet
- b. Weather Conditions: Sunny
- c. Temperature: 50 - 52 °F
- d. Barometric Conditions: Rising _____ Falling x Steady _____ Reading: 30.05 - 30.01 "
- e. Relative Humidity 10%-90%? Yes _____ No x Range: 75 - 71 %
- f. Condition/Access: Sampling points are properly identified, secured and maintained? Yes _____ No x

If no please list deficiencies observed:

g. If stressed vegetation due to the presence of methane gas is noted, describe the extent and location in the space provided below.

None noticed

5. Description of Sampling Techniques: Provide a clear and concise description for each type of sampling (well, barhole punch, structure, etc.) performed during the monitoring event. Wells are **NOT** to be vented, peak readings should be reported. Any exceptions should be noted here.

Wells are opened and tested immediately.

Peak readings are recorded.

6. **Additional Comments**

EM Services uses the RKI Eagle, Eagle 2, GX-2003 or GX-2012. Operating manuals can be found at:
Eagle - <https://www.rkiinstruments.com/pdf/71-0028RK.pdf>
Eagle 2 - <https://www.rkiinstruments.com/pdf/71-0154RK.pdf>
GX-2012 - <https://www.rkiinstruments.com/pdf/71-0335.pdf>
GX-2003 - <https://www.rkiinstruments.com/pdf/mgx2003.pdf>

CERTIFICATION

I CERTIFY that all required information on this form is complete and accurate, and

I further CERTIFY that methane sampling was conducted by myself or my authorized representative in accordance with all applicable rules and current EPD guidance. Concentrations of methane detected during this sampling/monitoring event do / x **do not** exceed 25 percent of the lower explosive limit (LEL) for methane in facility structures (excluding the gas recovery system components) and gas concentrations do / x **do not** exceed the LEL for methane at the approved compliance monitoring locations.

(IF THIS STATEMENT IS NOT SIGNED OR THE FORM IS ALTERED THE DIVISION WILL NOT ACCEPT THE RESULTS FROM THE SUBJECT FACILITY)



(Signature)

Owner, EM Services

(Title)

1/7/2022

(Date)

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(Typed Name, Address, and Telephone Number)