

Bridgeton Landfill, LLC

Monthly Data Submittals

January 2021

Required by Section IX.f of Final Consent Judgement, Case No. 13SL-
CC01088-01
Effective June 29, 2018

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Provided Separately:

- Flare Raw Data Excel Spreadsheet
- Gas Wellfield Raw Data Excel Spreadsheet

February 19, 2021

Commentary on Data

February 19, 2021

The following observations and comments are offered during this time period:

Gas Volume

- As presented in Attachment B-1, the gas collection volumetric rate for this month averaged a total site flow of 1,003 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.

Gas Quality

- Attachments D and E present the monthly data related to gas quality as measured at the respective wellheads.
- Attachment E-1 presents vertical wells which exhibited oxygen levels at or greater than 5% during one (1) or more weekly monitoring events during this reporting period. These consisted of 17 GEW wells that are experiencing low or restricted flows, and 1 LCS well that exhibit low gas flow due to the cooling loops that are installed in these wells. By the end of the month, 15 of the GEW wells still exhibited oxygen levels at or greater than 5% at the wellhead, while oxygen in the LCS well was below 5%. All of these wells are low-flow/vacuum sensitive wells with valves that are only slightly open. On-going tuning, maintenance, and pump operation are being performed to manage the oxygen content.
- Attachment E-2 presents gas temperatures as measured at the wellheads. Three (3) vertical wells (excluding GIW wells) increased by 30°F or more and seventeen (17) decreased by 30°F or more during this reporting period. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period, with the exception of GEW-054 (145.9°F). Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (47 ppm), consistent with past events.
- Site personnel are performing a comprehensive wellfield investigation to optimize the landfill gas collection and control system (GCCS). Wells that have previously been decommissioned due to excessive moisture and/or dangerous conditions have been reviewed and monitored to determine if the wells have obstructions that would prohibit pump installation and would therefore preclude leachate and landfill gas collection. Wells with no identified downhole integrity issues and which are no longer exhibiting excessive moisture and/or dangerous conditions have been brought back online. Wells with no identified downhole integrity issues but which still exhibit excessive moisture and/or dangerous conditions will remain decommissioned until conditions at the location improve. Wells with poor gas quality were decommissioned in the latter half

of 2020. This investigation will continue into the First Quarter 2021. Wellfield expansion and abandonment activities were reported in the quarterly Landfill Gas Corrective Action Update.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 0.14 feet over 28 days during this reporting period (see Attachment E).
- The North Quarry exhibited quarterly maximum settlement up to 0.28 feet over 95 days during this reporting period (see Attachment E).

Bird Monitoring and Mitigation

- Bridgeton Landfill conducted bird monitoring during this reporting period in accordance with the Approved Bird Hazard Monitoring and Mitigation Plan, last updated in December 2016. Birds noted on-site are dispersed using pyrotechnics, a cap gun, vehicles, or on foot. Logs of bird population observations are provided to the Airport and the USDA APHIS Wildlife Services on a weekly basis.

Natural Gas Usage

- Natural gas was used as a supplemental fuel for the destruction of landfill gas in the previous month. The requirements for landfill gas destruction under 40 CFR 60 Subpart WWW were achieved by meeting the provisions of 40 CFR 60 Subpart A under §60.18 for non-assisted flares. A total of 22,000 cubic feet of supplemental fuel was used between 1/27/2021 and 1/28/2021.

Slip Failure or Separation Assessment

- On December 15, 2020, an inspection of the Bridgeton Landfill was performed by P.J. Carey of Feezor Engineering, Inc, to identify visual evidence of instability or incipient failure. This inspection included the north and south quarry fill areas. The findings of this inspection were discussed in a separate report which was submitted on January 30, 2021. A copy of the Slip Failure or Separation Assessment is included in Attachment H.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

FLOW DATA TABLE

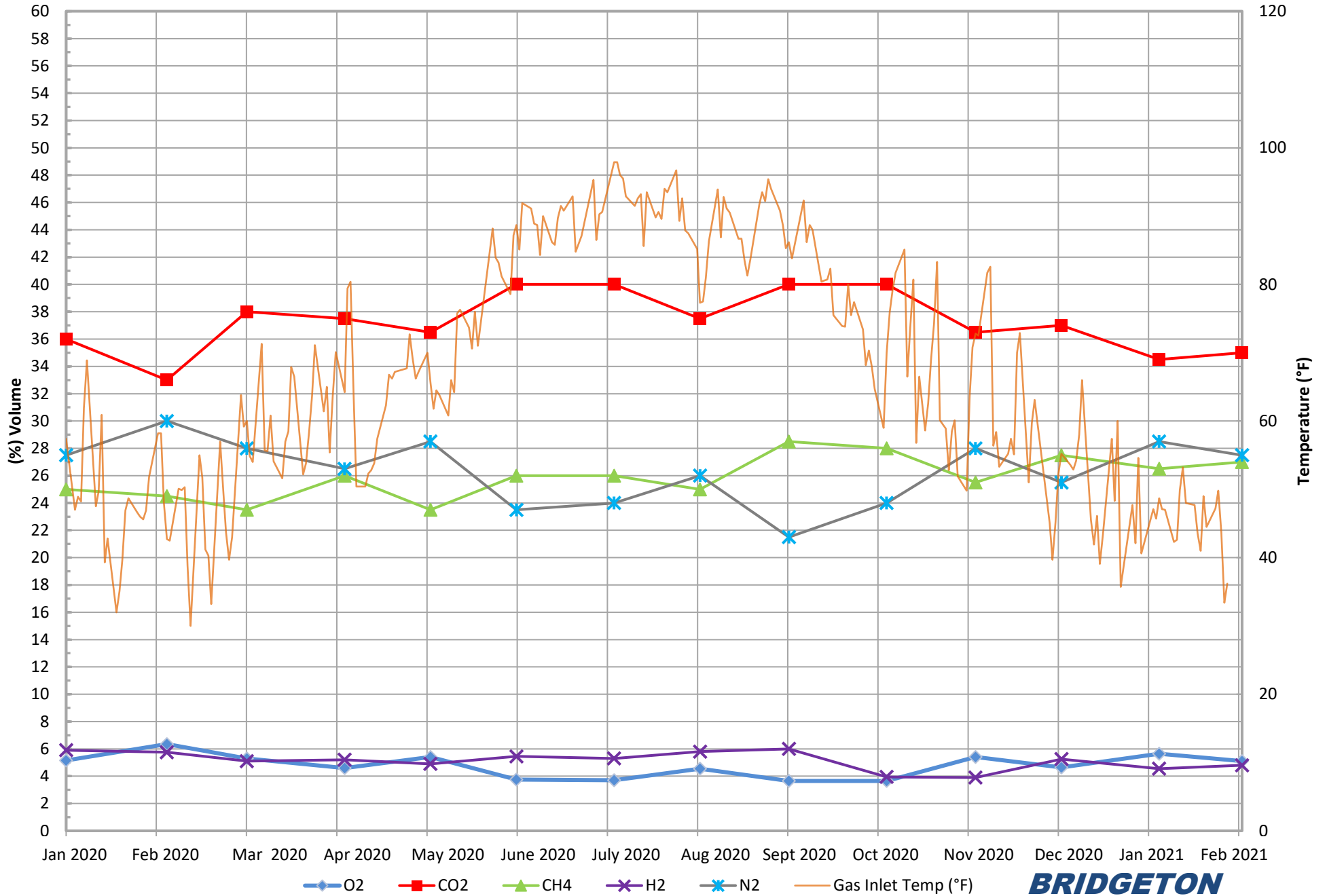
Daily Flare Monitoring Data - Bridgeton Landfill
January 2021

Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
1/1/2021	960	2	1	963
1/2/2021	960	2	1	962
1/3/2021	958	2	1	961
1/4/2021	960	2	1	963
1/5/2021	959	1	1	961
1/6/2021	955	2	1	957
1/7/2021	978	2	1	981
1/8/2021	994	2	1	996
1/9/2021	985	2	1	987
1/10/2021	979	2	1	982
1/11/2021	989	2	1	991
1/12/2021	1,002	1	1	1,004
1/13/2021	1,024	1	0	1,026
1/14/2021	1,029	1	0	1,031
1/15/2021	1,017	2	1	1,019
1/16/2021	1,025	2	1	1,028
1/17/2021	1,030	2	1	1,032
1/18/2021	1,011	1	1	1,013
1/19/2021	1,000	1	1	1,002
1/20/2021	1,032	1	0	1,033
1/21/2021	1,031	1	0	1,033
1/22/2021	1,017	2	1	1,019
1/23/2021	1,018	2	1	1,020
1/24/2021	1,015	1	1	1,017
1/25/2021	999	2	1	1,002
1/26/2021	969	2	1	972
1/27/2021	967	2	1	970
1/28/2021	1,023	2	1	1,025
1/29/2021	1,054	2	1	1,056
1/30/2021	1,049	2	1	1,051
1/31/2021	1,010	2	1	1,012
AVERAGE	1,000	2	1	1,003
* Flows normalized to **Blower Outlet Flowmeter - EPA Method 2 measurement verified				
*** On 3/18/2016, the Bridgeton Landfill began separating the North Quarry gas to the Auxiliary Flare.				
On 10/8/19, the Bridgeton Landfill combined the North Quarry gas and the South Quarry Gas to the Main Flare				

ATTACHMENT A-2

FLOW DATA GRAPHS

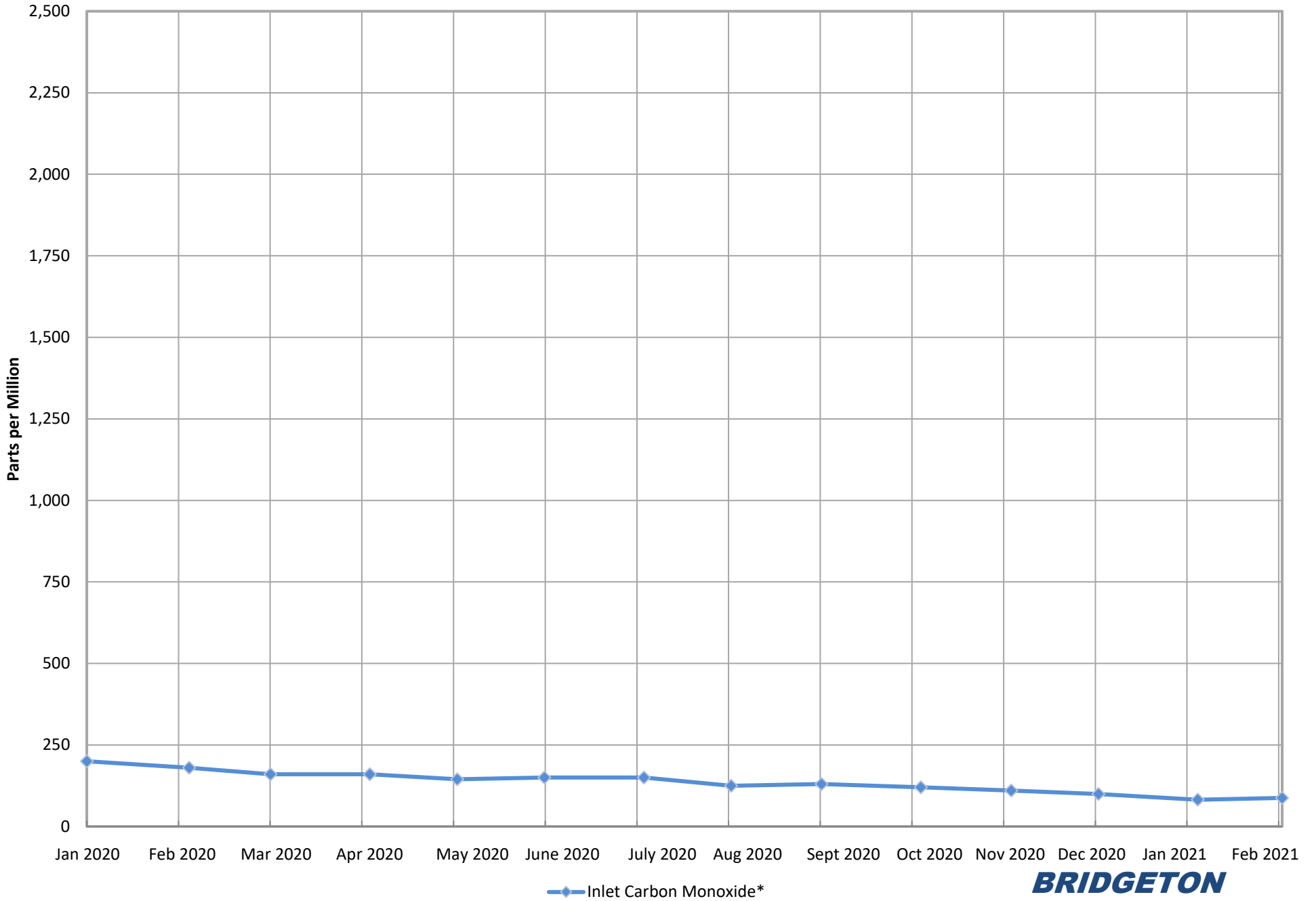
Combined Inlet Gas and Temperature*



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*Gas data collected from Laboratory Reports. Temperature data collected from field readings.

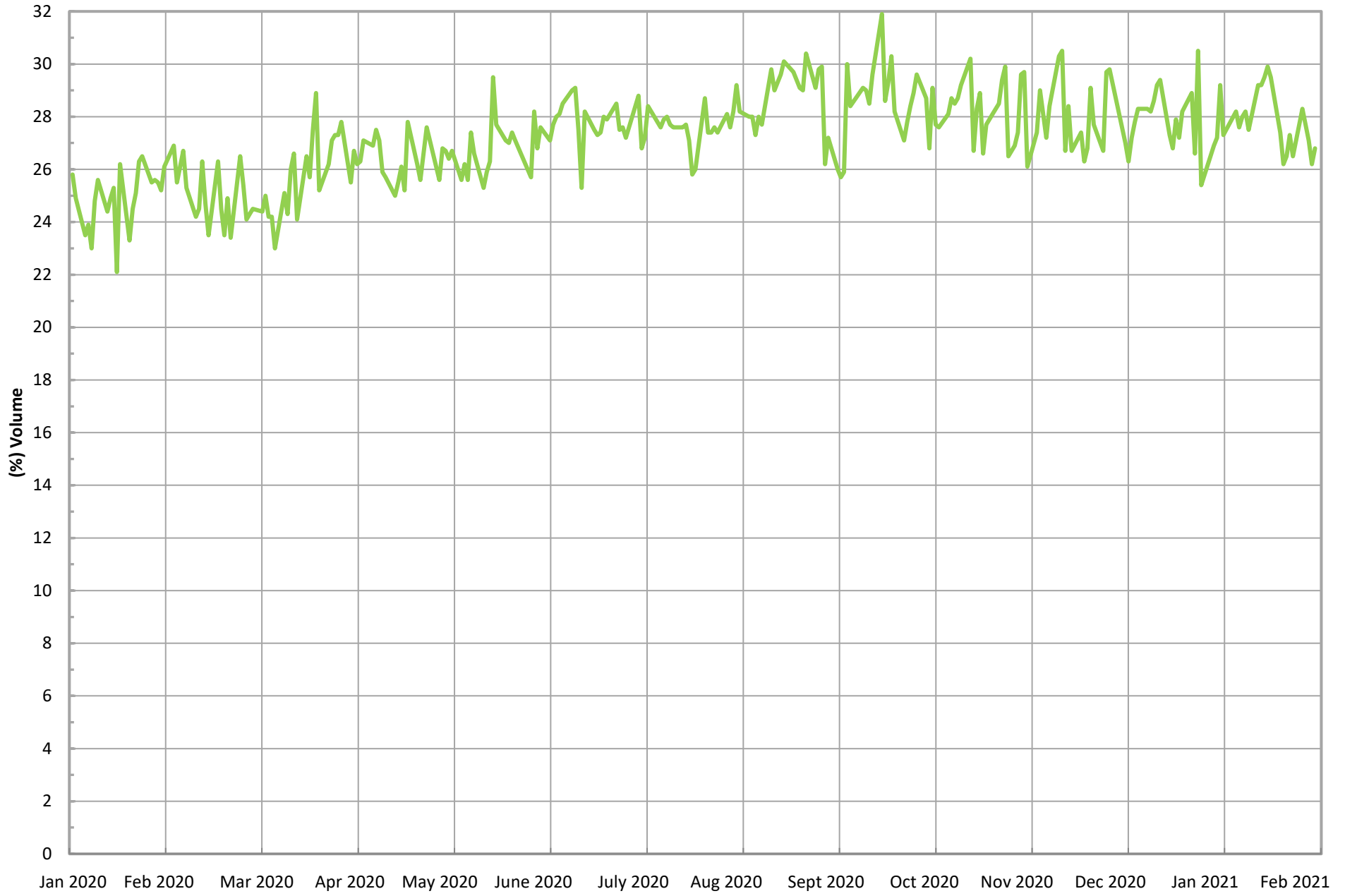
Combined Inlet Carbon Monoxide*



*Data collected from Laboratory Reports.

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Combined Inlet Methane (Field Data)*

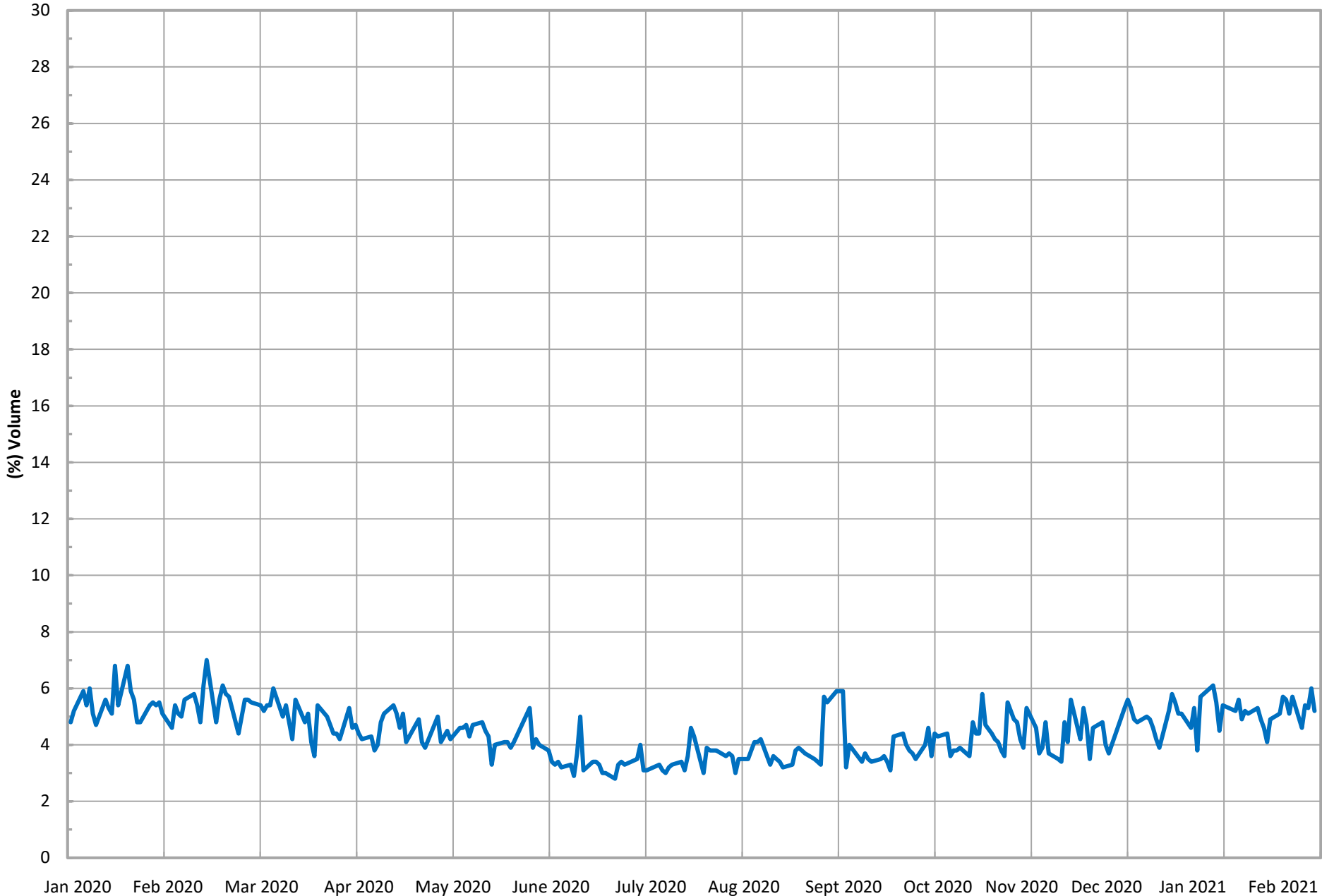


*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)*

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Combined Inlet Oxygen (Field Data)*

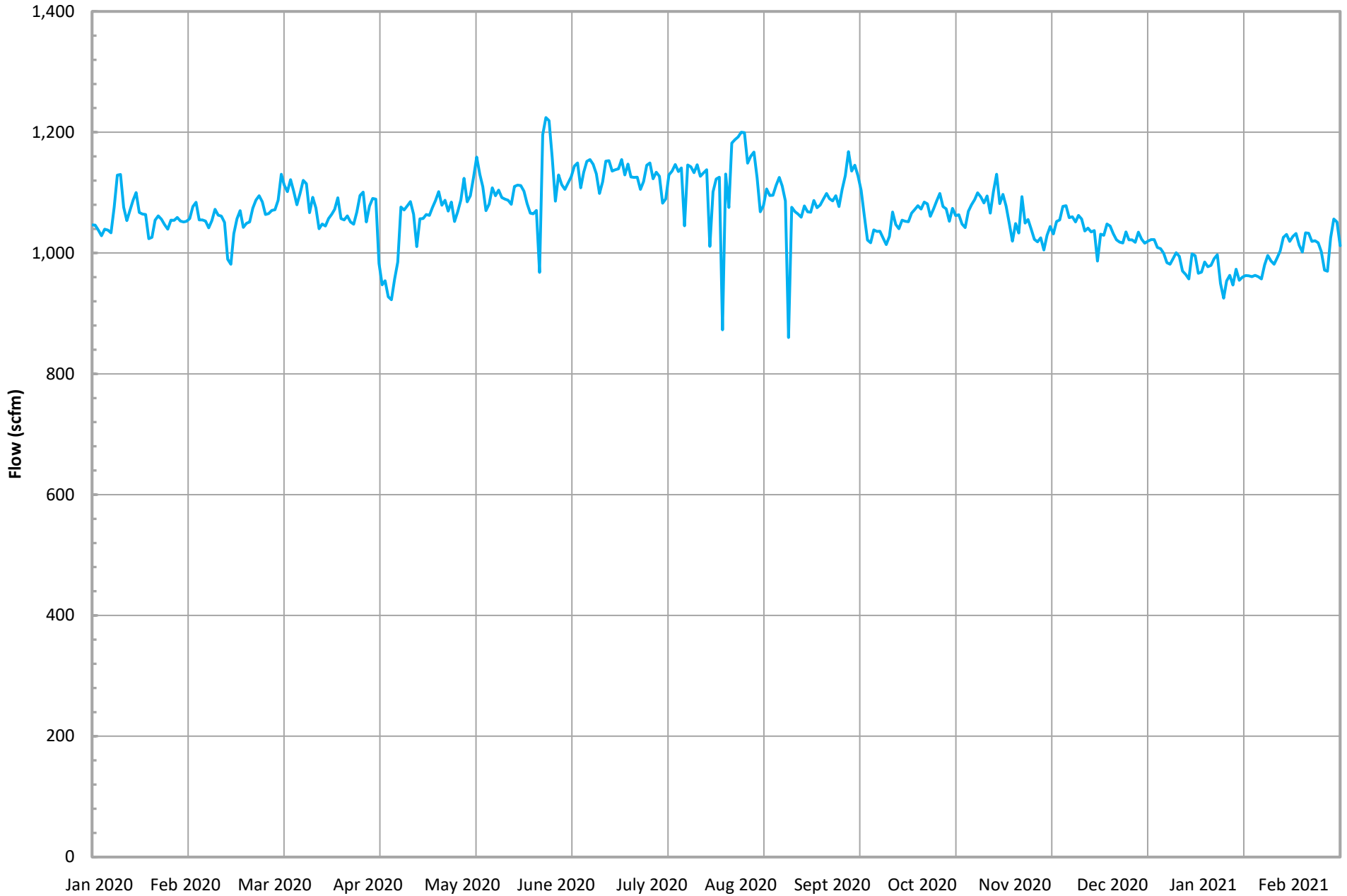


*Gas data collected from field monitoring data

— Combined Inlet Oxygen (Field Data)*

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Total Combined Flow (scfm)*



*Combined flow is based on tabulated flow data collected daily from FL-100, FL-120, FL-140, and the Auxillary Candlestick Flare. On 10/8/19, the Auxillary Candelstick Flare was redirected to the Main Flare.

— Total Combined Flow (scfm)*

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ATTACHMENT B

WELL CONDITON/STATUS REPORT

January 2021		
ID	Well Condition	Comments
GEW-2	Operational	
GEW-2S	Operational	
GEW-3	Operational	
GEW-4	Operational	
GEW-5	Operational	
GEW-6	Operational	
GEW-7	Operational	
GEW-8	Operational	
GEW-9	Operational	
GEW-10	Operational	
GEW-13A	Operational	
GEW-15	Operational	
GEW-16R	Operational	
GEW-18B	Operational	
GEW-19A	Operational	
GEW-39	Operational	
GEW-40	Operational	
GEW-41R	Operational	
GEW-42R	Operational	
GEW-43R	Operational	
GEW-44	Operational	
GEW-45R	Operational	
GEW-46R	Operational	
GEW-47R	Operational	
GEW-48	Operational	
GEW-49	Operational	
GEW-50	Operational	
GEW-51	Operational	
GEW-52	Operational	
GEW-53	Operational	
GEW-54	Operational	
GEW-55	Operational	
GEW-56R	Operational	
GEW-57B	Operational	
GEW-58A	Non-Operational	Decommissioned
GEW-59R	Operational	
GEW-67A	Operational	
GEW-68A	Operational	
GEW-78R	Operational	
GEW-82R	Operational	
GEW-86	Operational	
GEW-87	Operational	
GEW-88	Operational	
GEW-90	Operational	

January 2021

ID	Well Condition	Comments
GEW-91	Operational	
GEW-100	Operational	
GEW-101	Operational	
GEW-102	Operational	
GEW-104	Operational	
GEW-105	Operational	
GEW-106	Operational	
GEW-107	Operational	
GEW-108	Operational	
GEW-109	Operational	
GEW-110	Operational	
GEW-113	Operational	
GEW-116	Operational	
GEW-117	Operational	
GEW-118	Operational	
GEW-120	Operational	
GEW-121	Operational	
GEW-122	Operational	
GEW-123	Operational	
GEW-124	Operational	
GEW-125	Operational	
GEW-126	Operational	
GEW-127	Operational	
GEW-128	Non-Operational	Decommissioned
GEW-129	Operational	
GEW-130	Operational	
GEW-131	Operational	
GEW-132	Operational	
GEW-133	Operational	
GEW-134	Operational	
GEW-135	Operational	
GEW-137	Operational	
GEW-138	Non-Operational	Decommissioned
GEW-139	Operational	
GEW-140	Operational	
GEW-144	Operational	
GEW-145	Operational	
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Non-Operational	Decommissioned
GEW-152	Operational	
GEW-153	Operational	

January 2021

ID	Well Condition	Comments
GEW-154	Non-Operational	Decommissioned
GEW-155	Non-Operational	Decommissioned
GEW-156	Operational	
GEW-157	Operational	
GEW-158	Operational	
GEW-159	Non-Operational	Decommissioned
GEW-160	Operational	
GEW-161	Operational	
GEW-162	Operational	
GEW-163	Operational	
GEW-164	Operational	
GEW-165	Operational	
GEW-166	Operational	
GEW-167	Operational	
GEW-168	Operational	
GEW-169	Operational	
GEW-170	Operational	
GEW-171	Operational	
GEW-172	Operational	
GEW-173	Non-Operational	Decommissioned
GEW-174	Operational	
GEW-175	Operational	
GEW-176	Non-Operational	Decommissioned
GEW-177	Operational	
GEW-178	Operational	
GEW-179	Operational	
GEW-180	Operational	
GEW-181	Operational	
GEW-182	Non-Operational	Decommissioned
GEW-184	Non-Operational	Decommissioned
GEW-185	Operational	
GEW-186	Operational	
GEW-187	Operational	
GEW-188	Non-Operational	Decommissioned
GEW-217	Operational	
GEW-218	Operational	
GEW-219	Non-Operational	Decommissioned
GEW-220	Operational	
GEW-221	Operational	
GEW-222	Operational	
GEW-223	Operational	
GEW-224	Operational	
GEW-225	Operational	
GEW-226	Operational	

January 2021		
ID	Well Condition	Comments
GEW-227	Operational	
GEW-228	Operational	
GEW-229	Operational	
GEW-230	Non-Operational	Decommissioned
GEW-231	Non-Operational	Decommissioned
GEW-232	Operational	
GEW-233	Operational	
GEW-234	Operational	
GEW-235	Operational	
GEW-236	Operational	
GEW-237	Operational	
GEW-238	Operational	
GEW-239	Operational	
GEW-240	Operational	
GIW-1	Operational	
GIW-2	Operational	
GIW-3	Operational	
GIW-4	Operational	
GIW-5	Operational	
GIW-6	Operational	
GIW-7	Operational	
GIW-8	Operational	
GIW-9	Operational	
GIW-10	Operational	
GIW-11	Operational	
GIW-12	Operational	
GIW-13	Operational	

ATTACHMENT C

LABORATORY DATA

ATTACHMENT C-1

LABORATORY ANALYSES SUMMARY

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		North Quarry						
		(%)					(ppm)	
GEW-002	9/15/2020	51	42	ND	6.4	ND	ND	
GEW-002	10/14/2020	51	40	ND	8.0	ND	ND	
GEW-002	11/11/2020	51	40	ND	8.4	ND	ND	
GEW-002	12/8/2020	47	37	ND	15	ND	ND	
GEW-002	1/12/2021	50	39	ND	10	ND	ND	
GEW-02S	9/14/2020	53	36	ND	9.5	ND	ND	
GEW-02S	10/12/2020	58	37	ND	3.7	ND	ND	
GEW-02S	11/10/2020	55	37	ND	7.8	ND	ND	
GEW-02S	12/8/2020	47	34	ND	17	ND	ND	
GEW-02S	1/12/2021	51	38	ND	9.7	ND	ND	
GEW-003	9/15/2020	49	44	ND	6.0	ND	ND	
GEW-003	10/14/2020	53	44	ND	ND	ND	ND	
GEW-003	11/11/2020	47	40	ND	13	ND	ND	
GEW-003	12/8/2020	51	40	ND	7.4	ND	ND	
GEW-003	1/12/2021	54	42	ND	3.7	ND	ND	
GEW-004	9/15/2020	51	41	ND	6.3	ND	ND	
GEW-004	10/14/2020	52	41	ND	6.6	0.051	ND	
GEW-004	11/11/2020	51	42	ND	6.8	0.053	ND	
GEW-004	12/8/2020	52	39	ND	7.9	0.046	ND	
GEW-004	1/12/2021	50	41	ND	9.1	0.053	ND	
GEW-005	9/15/2020	52	39	ND	7.7	ND	ND	
GEW-005	10/14/2020	55	40	ND	4.9	ND	ND	
GEW-005	11/11/2020	56	39	ND	4.4	ND	ND	
GEW-005	12/8/2020	56	39	ND	4.6	ND	ND	
GEW-005	1/12/2021	54	39	ND	7.1	ND	ND	
GEW-006	9/15/2020	54	41	ND	4.8	ND	ND	
GEW-006	10/14/2020	55	40	ND	5.0	ND	ND	
GEW-006	11/11/2020	52	38	ND	9.1	ND	ND	
GEW-006	12/9/2020	52	39	ND	7.5	ND	ND	
GEW-006	1/13/2021	52	39	ND	8.2	ND	ND	
GEW-007	9/9/2020	53	42	ND	3.6	ND	ND	
GEW-007	10/12/2020	54	41	ND	3.7	ND	ND	
GEW-007	11/11/2020	54	41	ND	4.3	ND	ND	
GEW-007	12/9/2020	53	41	ND	5.0	ND	ND	
GEW-007	1/13/2021	53	41	ND	5.0	ND	ND	
GEW-008	9/14/2020	50	44	ND	3.7	1.0	ND	
GEW-008	10/12/2020	51	44	ND	ND	1.2	ND	
GEW-008	11/12/2020	51	43	ND	3.8	1.0	ND	
GEW-008	12/9/2020	51	43	ND	4.2	1.2	ND	
GEW-008	1/13/2021	52	43	ND	3.4	1.3	ND	
GEW-009	9/14/2020	49	44	ND	6.7	0.44	ND	
GEW-009	10/12/2020	50	43	ND	6.4	0.52	ND	
GEW-009	11/12/2020	49	42	ND	7.1	0.62	ND	
GEW-009	12/9/2020	49	42	ND	7.8	0.61	ND	
GEW-009	1/13/2021	51	42	ND	5.2	0.71	ND	
GEW-040	9/14/2020	53	35	ND	11	ND	ND	
GEW-040	10/12/2002	55	34	ND	10	ND	ND	
GEW-040	11/12/2020	59	35	ND	5.2	ND	ND	
GEW-040	12/9/2020	59	34	ND	6.2	ND	ND	
GEW-040	1/13/2021	53	33	ND	13	ND	ND	
GEW-041R	9/14/2020	51	37	ND	11	ND	ND	
GEW-041R	10/12/2020	51	36	ND	12	ND	ND	
GEW-041R	11/12/2020	47	34	ND	18	ND	ND	
GEW-041R	12/9/2020	48	34	ND	17	ND	ND	
GEW-041R	1/12/2021	48	33	ND	18	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)					(ppm)	
GEW-042R	9/14/2020	53	40	ND	5.6	ND	ND	
GEW-042R	10/12/2020	53	39	ND	7.2	ND	ND	
GEW-042R	11/12/2020	51	38	ND	11	ND	ND	
GEW-042R	12/9/2020	52	37	ND	9.6	ND	ND	
GEW-042R	1/12/2021	52	37	ND	10	ND	ND	
GEW-043R	9/14/2020	53	43	ND	3.2	0.100	ND	
GEW-043R	10/12/2020	54	42	ND	3.2	0.11	ND	
GEW-043R	11/13/2020	53	40	ND	5.6	0.11	ND	
GEW-043R	12/9/2020	52	41	ND	6.6	0.11	ND	
GEW-043R	1/12/2021	51	40	ND	7.8	0.12	ND	
GEW-044	9/14/2020	50	39	ND	10.0	ND	ND	
GEW-044	10/12/2020	47	38	ND	14	ND	ND	
GEW-044	11/13/2020	41	35	ND	23	ND	ND	
GEW-044	12/8/2020	36	33	ND	30	ND	ND	
GEW-044	1/12/2021	34	31	ND	34	ND	ND	
GEW-045R	9/14/2020	54	41	ND	4.6	ND	ND	
GEW-045R	10/14/2020	55	40	ND	4.6	ND	ND	
GEW-045R	11/10/2020	52	41	ND	6.7	ND	ND	
GEW-045R	12/8/2020	50	38	ND	9.9	ND	ND	
GEW-045R	1/12/2021	49	38	ND	13	ND	ND	
GEW-046R	9/15/2020	52	44	ND	3.2	ND	ND	
GEW-046R	10/14/2020	53	43	ND	3.6	ND	ND	
GEW-046R	11/10/2020	53	43	ND	3.5	ND	ND	
GEW-046R	12/8/2020	52	41	ND	6.0	0.033	ND	
GEW-046R	1/12/2021	51	41	ND	7.0	0.044	ND	
GEW-047R	9/15/2020	50	42	ND	6.6	ND	ND	
GEW-047R	10/14/2020	51	42	ND	6.0	0.067	ND	
GEW-047R	11/11/2020	49	39	ND	11	ND	ND	
GEW-047R	12/8/2020	48	39	ND	12	ND	ND	
GEW-047R	1/12/2021	47	40	ND	13	ND	ND	
GEW-048	9/15/2020	53	41	ND	5.4	ND	ND	
GEW-048	10/14/2020	53	40	ND	5.5	ND	ND	
GEW-048	11/11/2020	54	40	ND	5.8	ND	ND	
GEW-048	12/8/2020	54	39	ND	6.4	ND	ND	
GEW-048	1/12/2021	52	39	ND	7.9	ND	ND	
GEW-049	9/14/2020	51	42	ND	6.6	ND	ND	
GEW-049	10/14/2020	53	42	ND	3.7	ND	ND	
GEW-049	11/13/2020	48	38	ND	13	ND	ND	
GEW-049	12/8/2020	45	37	ND	17	ND	ND	
GEW-049	1/12/2021	37	34	ND	28	ND	ND	
GEW-050	9/9/2020	52	40	ND	6.6	ND	ND	
GEW-050	10/12/2020	53	40	ND	6.3	ND	ND	
GEW-050	11/11/2020	52	39	ND	8.2	ND	ND	
GEW-050	12/9/2020	50	38	ND	10	ND	ND	
GEW-050	1/13/2021	51	38	ND	9.9	ND	ND	
GEW-051	9/14/2020	52	42	ND	3.7	0.84	ND	
GEW-051	10/12/2020	53	42	ND	3.2	0.91	ND	
GEW-051	11/12/2020	53	42	ND	3.3	0.93	ND	
GEW-051	12/9/2020	53	42	ND	3.9	0.94	ND	
GEW-051	1/13/2021	53	42	ND	3.5	1.2	ND	
GEW-052	9/9/2020	50	41	ND	8.6	ND	ND	
GEW-052	10/12/2020	52	41	ND	5.5	ND	ND	
GEW-052	11/11/2020	49	40	ND	10	ND	ND	
GEW-052	12/9/2020	48	39	ND	12	ND	ND	
GEW-052	1/13/2021	49	39	ND	11	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-053	9/14/2020	48	44	ND	3.7	3.0	57	
GEW-053	10/12/2020	49	43	ND	3.7	3.5	62	
GEW-053	11/12/2020	49	43	ND	3.9	3.6	47	
GEW-053	12/9/2020	49	42	ND	4.9	3.3	47	
GEW-053	1/13/2021	48	42	ND	5.4	3.3	47	
GEW-054	9/14/2020	51	44	ND	ND	1.5	ND	
GEW-054	10/12/2020	51	44	ND	ND	1.6	ND	
GEW-054	11/12/2020	51	43	ND	3.5	1.5	ND	
GEW-054	12/9/2020	51	42	ND	4.4	1.5	ND	
GEW-054	1/13/2021	51	43	ND	3.9	1.4	ND	
GEW-055	9/14/2020	50	44	ND	3.7	1.1	ND	
GEW-055	10/12/2020	51	44	ND	ND	1.2	ND	
GEW-055	11/12/2020	52	43	ND	3.6	1.3	ND	
GEW-055	12/9/2020	50	43	ND	5.0	1.2	ND	
GEW-055	1/13/2021	51	42	ND	4.9	1.3	ND	
Flare Station ²	9/3/2020	28.5	40.0	3.7	21.5	6.0	130	See Note 9
Flare Station ²	10/6/2020	28.0	40.0	3.7	24.0	4.0	120	See Note 9
Flare Station ²	11/5/2020	25.5	36.5	5.4	28.0	3.9	110	See Note 9
Flare Station ²	12/4/2020	27.5	37.0	4.7	25.5	5.3	100	See Note 9
Flare Station ²	1/6/2021	26.5	34.5	5.7	28.5	4.6	82	See Note 9

Notes: (1) Based on the comparison of field to laboratory readings, oxygen to balance gas ratios, and historical concentrations, the sample was determined to be suspect due to oxygen introduction which likely occurred during sample collection or laboratory analytical methods. (2) MDNR also collected duplicate LFG samples at these locations during this sampling period. (3) Based on the oxygen verification readings taken with an Envision meter, it was determined there is a sample train leak. (4) Based on the oxygen verification readings taken with an Envision meter, it was determined that the readings are accurate. (5) Flare station gas concentration data is an average of NQ EP14 A (or 1) and NQ EP14 B (or 2), located in the North Quarry. (6) Flare station gas concentration data is an average of Outlets 1 and 2 (A & B) or SQ OU 1 and OU 2, located in the South Quarry. (7) Sample not reported by lab due to canister leak. (8) Invalid sample due to canister leak; resampled. (9) On 10/8/19 the North Quarry and South Quarry Flares were combined.

ND = Analyte not detected in sample.

² = Flare Station measured at EPA Method 2 flow port (blower outlet)

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		%					ppm	
South Quarry								
GEW-010	9/10/2020	53	44	ND	ND	0.066	ND	
GEW-010	10/13/2020	54	42	ND	ND	0.068	ND	
GEW-010	11/12/2020	53	42	ND	4.4	0.058	ND	
GEW-010	12/9/2020	20	15	14	50	ND	ND	See Note 3
GEW-010	12/22/2020	53	39	1.8	6.1	0.057	ND	
GEW-010	1/6/2021	53	41	ND	4.9	0.057	ND	
GEW-013A	10/5/2020	0.010	0.11	22	78	ND	ND	See Note 3
GEW-013A	1/7/2021	5.6	62	ND	5.0	25	590	
GEW-015	10/7/2020	26	47	ND	6.7	19	370	
GEW-015	1/7/2021	26	45	1.6	12	16	270	
GEW-016R	10/7/2020	9.4	48	ND	19	22	580	
GEW-016R	1/7/2021	9.6	50	ND	14	25	510	
GEW-018B	10/7/2020	1.9	48	ND	6.1	41	600	
GEW-018B	1/8/2021	1.4	45	3.0	11	39	460	
GEW-019A	10/9/2020	0.51	33	11	41	14	470	See Note 4
GEW-019A	1/11/2021	1.4	55	5.0	18	21	730	See Note 4
GEW-039	9/11/2020	45	42	ND	12	ND	ND	
GEW-039	10/13/2020	42	41	ND	16	ND	ND	
GEW-039	11/12/2020	38	38	1.8	23	ND	ND	
GEW-039	12/9/2020	36	33	4.4	26	ND	ND	
GEW-039	1/6/2021	35	35	2.3	28	ND	ND	
GEW-056R	9/10/2020	45	45	ND	5.7	3.1	47	
GEW-056R	10/13/2020	42	42	ND	12	2.9	40	
GEW-056R	11/12/2020	47	43	ND	5.4	3.2	34	
GEW-056R	12/9/2020	42	38	3.1	14	2.5	ND	
GEW-056R	1/6/2021	46	41	ND	9.0	2.8	31	
GEW-057B	10/9/2020	1.5	52	ND	ND	41	500	
GEW-057B	1/13/2021	7.8	48	ND	4.9	37	420	
GEW-058A	10/9/2020	7.3	33	2.8	32	24	510	
GEW-059R	10/9/2020	24	39	ND	8.9	27	400	
GEW-059R	1/8/2021	25	38	ND	13	22	280	
GEW-067A	10/5/2020	0.24	1.1	21	77	0.48	ND	See Note 3
GEW-067A	1/7/2021	7.2	45	1.8	11	34	360	
GEW-068A	10/12/2020	16	44	ND	13	25	770	
GEW-068A	1/14/2021	24	47	ND	ND	25	620	
GEW-078R	10/7/2020	23	37	ND	23	15	430	
GEW-078R	1/8/2021	28	36	2.3	19	15	380	
GEW-082R	10/7/2020	8.7	33	ND	38	18	450	
GEW-082R	1/11/2021	10	28	4.5	37	20	440	
GEW-086	10/5/2020	ND	0.087	22	78	ND	ND	See Note 4
GEW-086	1/18/2021	7.8	29	4.5	40	19	260	
GEW-087	10/7/2020	4.7	63	ND	ND	27	650	
GEW-087	1/7/2021	8.7	48	2.7	20	20	410	
GEW-088	10/5/2020	0.27	7.3	18	66	8.1	150	See Note 3
GEW-088	1/7/2021	1.7	43	ND	5.3	49	810	
GEW-090	10/5/2020	7.1	11	16	61	4.3	71	See Note 3
GEW-090	1/7/2021	25	36	2.0	18	19	270	
GEW-091	9/11/2020	2.3	46	2.3	7.9	38	340	
GEW-091	10/14/2020	1.9	49	ND	3.5	42	340	
GEW-091	11/12/2020	6.3	30	8.0	30	26	190	See Note 4
GEW-091	12/9/2020	0.063	0.13	22	78	ND	ND	See Note 3
GEW-091	12/23/2020	2.2	48	ND	3.5	43	280	
GEW-091	1/6/2021	2.3	44	2.6	9.1	41	270	
GEW-100	10/9/2020	17	60	ND	4.4	17	280	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)						
GEW-100	1/14/2021	14	54	2.7	9.2	20	260	
GEW-101	10/9/2020	30	58	1.9	10	ND	ND	
GEW-101	1/14/2021	33	59	ND	5.9	ND	ND	
GEW-102	10/9/2020	29	43	2.1	7.5	17	66	
GEW-102	1/13/2021	17	27	9.2	32	13	ND	See Note 4
GEW-104	10/9/2020	1.9	54	ND	ND	39	460	
GEW-104	1/13/2021	1.7	51	ND	ND	42	370	
GEW-105	10/9/2020	40	43	ND	4.3	12	210	
GEW-105	1/11/2021	43	44	ND	3.2	8.7	110	
GEW-106	10/9/2020	13	41	4.4	19	22	370	
GEW-106	1/11/2021	10.0	40	5.4	21	24	330	See Note 4
GEW-107	10/9/2020	39	49	ND	ND	9.0	210	
GEW-107	1/11/2021	45	49	ND	ND	3.6	96	
GEW-108	9/11/2020	37	45	ND	ND	14	210	
GEW-108	10/14/2020	38	43	ND	ND	14	210	
GEW-108	11/12/2020	37	43	ND	3.8	15	170	
GEW-108	12/9/2020	28	31	6.9	24	9.5	120	See Note 3
GEW-108	12/22/2020	40	42	ND	4.3	13	130	
GEW-108	1/6/2021	40	43	ND	3.7	12	150	
GEW-109	9/11/2020	42	43	1.8	12	0.44	ND	
GEW-109	10/13/2020	43	41	2.0	13	0.46	ND	
GEW-109	11/12/2020	40	38	2.5	20	0.51	ND	
GEW-109	12/9/2020	30	28	8.6	33	0.17	ND	See Note 3
GEW-109	12/22/2020	44	37	3.5	15	0.22	ND	
GEW-109	1/6/2021	46	39	2.3	12	0.25	ND	
GEW-110	9/10/2020	45	45	ND	4.9	3.7	62	
GEW-110	10/13/2020	45	43	ND	8.6	3.0	49	
GEW-110	11/12/2020	42	48	ND	ND	6.5	70	
GEW-110	12/9/2020	24	23	11	40	1.7	ND	See Note 3
GEW-110	12/22/2020	47	43	ND	5.3	3.5	39	
GEW-110	1/6/2021	47	44	ND	4.8	3.7	39	
GEW-113	10/7/2020	12	57	ND	8.1	21	530	
GEW-113	1/7/2021	12	56	1.9	10	19	450	
GEW-116	10/7/2020	27	53	ND	16	2.0	140	
GEW-116	1/8/2021	33	59	ND	4.4	1.2	40	
GEW-117	10/8/2020	32	50	ND	15	1.4	110	
GEW-117	1/11/2021	31	47	2.6	18	1.0	89	
GEW-118	10/9/2020	4.8	47	ND	14	32	670	
GEW-118	1/11/2021	2.2	53	ND	4.8	38	520	
GEW-120	10/8/2020	34	44	1.9	20	0.083	ND	
GEW-120	1/11/2021	39	42	2.3	16	0.11	ND	
GEW-121	10/8/2020	35	51	ND	9.4	3.7	130	
GEW-121	1/11/2021	37	47	1.4	11	3.3	120	
GEW-122	10/8/2020	30	27	6.5	30	5.9	170	See Note 3
GEW-122	10/29/2020	39	38	ND	14	8.7	240	
GEW-122	1/11/2021	39	33	3.3	16	8.5	240	
GEW-123	10/8/2020	31	63	ND	4.2	0.78	120	
GEW-123	1/11/2021	33	54	ND	11	0.63	85	
GEW-124	10/8/2020	38	32	6.4	23	ND	ND	See Note 4
GEW-124	1/11/2021	34	25	9.0	31	ND	ND	See Note 4
GEW-125	10/9/2020	41	50	ND	8.0	ND	ND	
GEW-125	1/13/2021	47	45	1.8	6.1	ND	ND	
GEW-126	10/9/2020	26	52	ND	7.7	13	560	
GEW-126	1/13/2021	21	54	3.7	13	7.5	550	
GEW-127	10/9/2020	17	46	3.2	20	13	660	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)						
GEW-127	1/14/2021	15	28	11	43	3.9	200	See Note 3
GEW-129	10/9/2020	36	52	ND	8.9	1.3	110	
GEW-129	1/14/2021	37	52	ND	7.9	0.99	72	
GEW-130	10/9/2020	23	43	ND	15	17	840	
GEW-130	1/14/2021	25	38	2.9	20	14	590	
GEW-131	10/9/2020	41	43	ND	4.0	11	390	
GEW-131	1/13/2021	41	41	ND	5.3	11	340	
GEW-132	10/8/2020	15	32	ND	40	11	400	
GEW-132	1/11/2021	20	34	1.7	29	14	440	
GEW-133	10/7/2020	4.3	40	ND	39	15	620	
GEW-133	1/8/2021	11	40	2.1	33	14	410	
GEW-134	10/7/2020	6.5	46	ND	24	21	660	
GEW-134	1/8/2021	9.9	34	3.4	38	14	300	
GEW-135	10/7/2020	2.9	49	ND	18	27	530	
GEW-135	1/8/2021	4.8	45	1.6	21	28	470	
GEW-137	10/7/2020	39	42	ND	18	ND	ND	
GEW-137	1/8/2021	41	41	1.8	16	ND	ND	
GEW-139	10/9/2020	14	40	4.2	16	26	950	
GEW-139	1/15/2021	8.5	47	2.0	6.6	36	1,300	
GEW-140	10/9/2020	15	49	ND	3.2	32	1,000	
GEW-140	1/15/2021	23	46	ND	ND	28	650	
GEW-144	10/12/2020	50	47	ND	ND	0.15	ND	
GEW-144	1/14/2021	39	37	5.3	19	0.23	ND	See Note 4
GEW-145	10/9/2020	34	45	ND	ND	18	130	
GEW-145	1/13/2021	28	41	2.3	8.3	18	66	
GEW-147	10/7/2020	16	42	2.1	23	16	360	
GEW-147	1/25/2021	16	44	ND	19	20	360	
GEW-148	10/7/2020	16	52	ND	ND	28	980	
GEW-148	1/7/2021	24	45	2.3	8.0	21	610	
GEW-149	10/5/2020	8.3	21	2.5	67	0.47	ND	
GEW-149	1/7/2021	3.2	14	6.6	76	ND	ND	See Note 3
GEW-150	10/9/2020	32	47	ND	5.5	15	280	
GEW-150	1/11/2021	30	45	ND	7.0	17	240	
GEW-151	10/5/2020	7.7	34	4.8	30	24	420	
GEW-152	10/9/2020	38	44	ND	ND	14	340	
GEW-152	1/11/2021	24	45	2.4	12	17	340	
GEW-153	10/9/2020	32	30	5.1	29	2.7	ND	See Note 3
GEW-153	10/27/2020	31	33	1.5	33	2.1	65	
GEW-153	1/8/2021	31	33	ND	31	3.2	56	
GEW-156	10/12/2020	28	43	2.1	8.6	18	400	
GEW-156	1/25/2021	28	45	ND	5.1	21	370	
GEW-157	10/9/2020	15	45	ND	ND	36	510	
GEW-157	1/13/2021	34	42	ND	4.9	18	170	
GEW-158	10/9/2020	31	46	ND	8.2	14	280	
GEW-158	1/11/2021	32	44	ND	8.4	13	210	
GEW-160	9/11/2020	30	38	ND	18	12	200	
GEW-160	10/14/2020	30	37	ND	20	11	190	
GEW-160	11/12/2020	27	36	1.7	25	10	140	
GEW-160	12/9/2020	12	15	13	55	3.6	65	See Note 3
GEW-160	12/23/2020	29	34	2.4	24	11	130	
GEW-160	1/6/2021	29	34	2.2	24	10.0	140	
GEW-161	9/11/2020	6.9	50	ND	5.8	35	920	
GEW-161	10/14/2020	7.5	48	1.7	8.1	34	810	
GEW-161	11/12/2020	8.9	49	ND	7.0	33	660	
GEW-161	12/9/2020	8.5	39	5.1	20	26	500	See Note 3
GEW-161	12/22/2020	12	48	ND	6.8	31	520	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
		(%)						
GEW-161	1/6/2021	12	46	1.9	9.2	31	610	
GEW-162	9/11/2020	14	63	1.6	11	9.3	420	
GEW-162	10/14/2020	16	62	ND	10.0	11	410	
GEW-162	11/12/2020	12	63	ND	8.6	15	400	
GEW-162	12/9/2020	12	46	6.4	24	10	260	See Note 3
GEW-162	12/22/2020	18	60	ND	6.5	13	330	
GEW-162	1/6/2021	19	59	1.5	7.0	13	360	
GEW-163	10/8/2020	26	44	ND	27	0.95	42	
GEW-163	1/11/2021	24	39	4.0	33	0.16	ND	
GEW-164	10/8/2020	35	49	ND	15	ND	ND	
GEW-164	1/11/2021	36	50	ND	12	ND	ND	
GEW-165	10/8/2020	20	43	4.6	25	7.1	210	
GEW-165	1/13/2021	24	50	3.6	15	6.6	160	
GEW-166	10/8/2020	2.0	57	ND	ND	37	2,100	
GEW-166	1/13/2021	2.4	57	ND	3.6	35	2,000	
GEW-167	10/8/2020	16	45	ND	7.7	30	1,100	
GEW-167	1/13/2021	9.0	47	ND	5.6	37	1,400	
GEW-168	10/9/2020	40	51	ND	4.6	2.4	52	
GEW-168	1/13/2021	45	48	ND	4.9	0.11	ND	
GEW-169	10/9/2020	24	49	ND	14	11	450	
GEW-169	1/13/2021	33	53	ND	3.6	9.7	400	
GEW-170	10/9/2020	9.7	34	6.2	38	12	570	See Note 4
GEW-170	1/14/2021	12	33	6.6	37	11	450	See Note 4
GEW-171	10/9/2020	22	56	3.3	13	5.1	230	
GEW-171	1/14/2021	24	43	6.2	25	1.6	85	See Note 4
GEW-172	10/9/2020	25	44	2.8	10.0	18	560	
GEW-172	1/14/2021	14	46	3.3	11	25	950	
GEW-174	10/9/2020	15	38	ND	31	15	340	
GEW-174	1/15/2021	4.5	37	5.6	20	33	800	See Note 4
GEW-175	10/9/2020	30	39	2.9	27	1.8	72	
GEW-175	1/11/2021	21	21	7.0	50	0.50	70	See Note 4
GEW-177	10/9/2020	17	46	3.2	20	13	660	
GEW-177	1/14/2021	14	41	4.3	27	13	710	
GEW-178	10/9/2020	33	35	4.0	27	ND	ND	
GEW-178	1/13/2021	46	47	ND	5.9	ND	ND	
GEW-179	10/9/2020	36	39	ND	24	ND	ND	
GEW-179	1/13/2021	46	51	ND	ND	ND	ND	
GEW-180	10/12/2020	36	54	1.7	7.4	ND	ND	
GEW-180	1/13/2021	38	54	1.8	6.3	ND	ND	
GEW-181	10/9/2020	26	63	ND	9.5	ND	ND	
GEW-181	1/14/2021	26	61	2.9	10	ND	ND	
GEW-185	10/8/2020	41	55	ND	3.3	ND	ND	
GEW-185	1/11/2021	36	50	ND	13	ND	ND	
GEW-186	10/9/2020	25	32	4.4	37	0.63	36	
GEW-186	1/14/2021	37	45	2.7	15	0.27	ND	
GEW-187	9/11/2020	42	51	ND	ND	2.0	42	
GEW-187	10/14/2020	44	51	ND	ND	1.9	39	
GEW-187	11/12/2020	43	50	ND	3.5	1.7	ND	
GEW-187	12/9/2020	17	19	14	49	0.58	ND	See Note 3
GEW-187	12/22/2020	44	48	ND	5.5	1.5	ND	
GEW-187	1/6/2021	43	49	ND	5.0	1.2	ND	
GEW-217	10/9/2020	14	50	ND	3.6	29	410	
GEW-217	1/13/2021	6.4	47	2.7	9.2	34	400	
GEW-218	10/12/2020	24	45	1.8	16	13	360	
GEW-218	1/13/2021	31	46	ND	6.6	15	270	
GEW-220	10/12/2020	34	44	ND	12	7.7	260	
GEW-220	1/13/2021	20	48	ND	ND	29	430	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)						
GEW-221	10/12/2020	29	50	3.1	17	1.5	33	
GEW-221	1/14/2021	20	53	ND	ND	24	350	
GEW-222	10/12/2020	49	42	ND	6.0	1.7	41	
GEW-222	1/14/2021	47	39	2.7	9.3	2.0	58	
GEW-223	10/9/2020	32	64	ND	ND	0.55	140	
GEW-223	1/14/2021	28	60	2.3	8.0	1.3	210	
GEW-224	10/9/2020	34	58	ND	4.4	3.3	290	
GEW-224	1/14/2021	33	52	2.7	9.7	2.3	200	
GEW-225	10/9/2020	21	49	ND	5.6	23	1,100	
GEW-225	1/14/2021	29	42	2.6	9.6	17	400	
GEW-226	10/9/2020	33	41	ND	8.4	15	530	
GEW-226	1/15/2021	37	45	ND	ND	15	510	
GEW-227	10/7/2020	6.4	32	4.7	39	18	310	
GEW-227	1/8/2021	6.8	33	4.5	33	22	430	
GEW-228	10/7/2020	3.2	23	6.7	54	13	160	See Note 4
GEW-228	1/8/2021	1.9	9.0	15	71	2.7	39	See Note 4
GEW-229	10/7/2020	2.7	23	2.4	69	2.7	87	
GEW-229	1/8/2021	1.4	13	8.1	77	0.61	ND	See Note 4
GEW-230	10/5/2020	7.5	25	7.9	47	12	200	See Note 4
GEW-232	10/7/2020	28	53	2.1	13	3.4	120	
GEW-232	1/7/2021	25	55	ND	8.7	10.0	220	
GEW-233	10/7/2020	4.2	27	6.4	52	10	220	See Note 4
GEW-233	1/8/2021	2.2	27	7.3	46	17	390	See Note 4
GEW-234	10/12/2020	1.1	50	2.3	9.6	35	1,100	
GEW-234	1/11/2021	11	43	ND	21	23	620	
GEW-235	10/8/2020	28	51	ND	8.9	11	210	
GEW-235	1/11/2021	27	48	1.5	12	11	210	
GEW-236	10/7/2020	2.1	38	3.2	14	40	270	
GEW-236	1/15/2021	1.2	45	ND	ND	49	310	
GEW-237	10/9/2020	37	45	1.6	13	2.1	69	
GEW-237	1/11/2021	50	45	ND	ND	2.2	54	
GEW-238	10/7/2020	15	59	ND	6.9	18	400	
GEW-238	1/7/2021	11	56	1.5	9.4	22	520	
GEW-239	10/5/2020	0.25	7.2	19	66	7.9	130	See Note 3
GEW-239	1/7/2021	1.4	47	ND	3.5	46	800	
GEW-240	10/9/2020	6.9	33	ND	42	16	310	
GEW-240	1/15/2021	21	33	ND	29	15	270	
GEW-241	10/27/2020	35	36	4.7	23	ND	ND	
GEW-241	1/13/2021	35	39	3.8	21	0.036	ND	
GEW-242	10/27/2020	43	48	ND	4.1	4.1	200	
GEW-242	1/15/2021	19	49	ND	4.4	26	420	
GEW-243	10/27/2020	41	50	ND	7.4	0.13	140	
GEW-243	1/13/2021	19	66	ND	3.3	10	560	
GEW-244	10/27/2020	2.1	2.1	21	75	ND	ND	See Note 4
GEW-244	1/13/2021	23	56	ND	4.7	14	400	
GEW-245	10/27/2020	30	46	ND	22	0.50	49	
GEW-245	1/11/2021	21	63	ND	3.8	11	760	
GEW-246	10/27/2020	48	46	ND	2.8	2.1	69	
GEW-246	1/7/2021	17	54	ND	4.6	23	560	
GEW-247	10/27/2020	41	43	ND	2.9	13	220	
GEW-247	1/11/2021	36	43	ND	3.7	17	350	
GEW-248	10/27/2020	10	22	7.5	56	3.7	160	See Note 4
GEW-248	1/15/2021	7.1	27	4.7	46	15	380	
GEW-249	10/27/2020	29	44	4.6	21	2.0	99	
GEW-249	1/11/2021	38	55	ND	ND	3.7	88	
GEW-250	10/27/2020	0.45	17	11	69	2.3	110	See Note 4
GEW-250	1/8/2021	0.65	20	10	59	9.1	150	See Note 4

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)						
GEW-251	10/27/2020	5.8	46	ND	10	37	810	
GEW-251	1/7/2021	5.8	47	ND	15	30	440	
GEW-252	10/27/2020	38	44	ND	3.2	13	200	
GEW-252	1/13/2021	28	48	ND	ND	21	210	
GEW-253	10/27/2020	6.1	17	10	63	3.6	120	See Note 4
GEW-253	1/8/2021	2.4	16	11	62	7.9	160	See Note 4
GIW-01	9/10/2020	27	49	3.0	12	8.6	210	
GIW-01	10/12/2020	30	53	ND	6.3	9.0	240	
GIW-01	11/9/2020	32	53	ND	5.0	8.8	190	
GIW-01	12/8/2020	31	53	ND	5.0	9.4	220	
GIW-01	1/6/2021	31	53	ND	6.1	9.1	240	
GIW-02	9/10/2020	8.6	47	4.0	25	15	550	
GIW-02	10/12/2020	8.0	34	6.0	42	9.7	400	See Note 4
GIW-02	11/9/2020	7.8	56	1.8	13	20	590	
GIW-02	12/8/2020	11	57	1.6	14	16	530	
GIW-02	1/6/2021	13	55	1.6	16	15	490	
GIW-03	9/10/2020	21	41	2.9	23	12	320	
GIW-03	10/12/2020	21	43	ND	23	12	350	
GIW-03	11/9/2020	22	44	ND	20	13	290	
GIW-03	12/8/2020	22	43	1.6	21	12	290	
GIW-03	1/6/2021	23	43	1.7	20	12	290	
GIW-04	9/10/2020	23	47	ND	7.1	22	480	
GIW-04	10/12/2020	23	45	ND	8.9	22	500	
GIW-04	11/9/2020	21	42	2.4	12	22	390	
GIW-04	12/8/2020	24	45	ND	7.2	22	420	
GIW-04	1/6/2021	25	43	1.9	8.7	22	400	
GIW-05	9/10/2020	35	39	1.7	13	12	120	
GIW-05	10/12/2020	34	36	3.1	17	10	110	
GIW-05	11/9/2020	32	39	ND	17	11	97	
GIW-05	12/9/2020	24	28	6.8	33	7.7	77	See Note 3
GIW-05	12/23/2020	31	38	2.3	19	9.3	87	
GIW-05	1/6/2021	33	37	1.8	18	9.8	100	
GIW-06	9/10/2020	37	40	ND	18	3.4	40	
GIW-06	10/12/2020	37	39	1.7	18	3.8	35	
GIW-06	11/10/2020	36	38	1.7	20	3.5	ND	
GIW-06	12/9/2020	18	19	12	50	1.8	ND	See Note 3
GIW-06	12/23/2020	33	35	2.6	26	3.0	ND	
GIW-06	1/6/2021	36	37	2.1	22	3.5	ND	
GIW-07	9/10/2020	50	46	ND	ND	ND	ND	
GIW-07	10/12/2020	49	46	ND	3.6	ND	ND	
GIW-07	11/10/2020	49	46	ND	3.9	ND	ND	
GIW-07	12/9/2020	32	29	8.7	31	ND	ND	See Note 3
GIW-07	12/23/2020	48	45	ND	5.4	0.14	ND	
GIW-07	1/6/2021	49	45	ND	5.0	ND	ND	
GIW-08	9/10/2020	29	40	2.0	20	8.7	84	
GIW-08	10/12/2020	47	45	ND	6.4	ND	ND	
GIW-08	11/10/2020	48	43	ND	7.2	ND	ND	
GIW-08	12/9/2020	32	28	8.3	32	ND	ND	See Note 3
GIW-08	12/23/2020	48	42	ND	9.0	ND	ND	
GIW-08	1/6/2021	48	42	ND	9.2	ND	ND	
GIW-09	9/10/2020	47	45	ND	7.2	ND	ND	
GIW-09	10/12/2020	30	40	ND	19	8.7	72	
GIW-09	11/10/2020	32	40	ND	18	8.7	59	
GIW-09	12/9/2020	24	27	7.6	35	6.0	41	See Note 3
GIW-09	12/23/2020	35	40	ND	15	8.6	57	
GIW-09	1/6/2021	35	39	ND	16	8.2	61	
GIW-10	9/10/2020	28	34	ND	28	7.5	98	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
		(%)						
GIW-10	10/12/2020	27	34	ND	30	7.0	91	
GIW-10	11/12/2020	26	32	1.6	33	7.2	78	
GIW-10	12/9/2020	12	13	14	59	2.2	31	See Note 3
GIW-10	12/23/2020	29	32	ND	30	7.0	67	
GIW-10	1/6/2021	30	32	ND	30	7.1	78	
GIW-11	9/10/2020	27	35	ND	34	2.4	99	
GIW-11	10/12/2020	25	32	1.8	38	2.2	100	
GIW-11	11/12/2020	27	33	2.0	36	2.1	98	
GIW-11	12/9/2020	10	11	15	63	0.78	45	See Note 3
GIW-11	12/23/2020	29	31	2.3	35	2.3	120	
GIW-11	1/6/2021	27	30	2.5	39	2.1	140	
GIW-12	9/10/2020	34	38	ND	24	2.1	56	
GIW-12	10/13/2020	32	35	1.8	29	2.4	54	
GIW-12	11/12/2020	36	37	ND	22	3.1	53	
GIW-12	12/9/2020	12	13	15	59	0.79	ND	See Note 3
GIW-12	12/23/2020	35	37	ND	23	3.5	58	
GIW-12	1/6/2021	34	35	2.0	26	2.6	52	
GIW-13	9/10/2020	42	46	ND	6.6	4.3	62	
GIW-13	10/13/2020	40	44	ND	9.1	6.4	60	
GIW-13	11/12/2020	38	40	3.9	15	3.9	36	
GIW-13	12/9/2020	24	24	11	39	2.3	ND	See Note 3
GIW-13	12/23/2020	42	45	ND	6.7	4.6	42	
GIW-13	1/6/2021	43	45	ND	6.8	4.1	42	

Notes: (1) Based on the comparison of field to laboratory readings, oxygen to balance gas ratios, and historical concentrations, the sample was determined to be suspect due to oxygen introduction which likely occurred during sample collection or laboratory analytical methods. (2) MDNR also collected duplicate LFG samples at these locations during this sampling period. (3) Based on the oxygen verification readings taken with an Envision meter, it was determined there is a sample train leak. (4) Based on the oxygen verification readings taken with an Envision meter, it was determined that the readings are accurate. (5) Flare station gas concentration data is an average of NQ EP14 A (or 1) and NQ EP14 B (or 2), located in the North Quarry. (6) Flare station gas concentration data is an average of Outlets 1 and 2 (A & B) or SQ OU 1 and OU 2, located in the South Quarry. (7) Sample not reported by lab due to canister leak. (8) Invalid sample due to canister leak; resampled.

ND = Analyte not detected in sample.

² = Flare Station Inlet measured at EPA Method 2 flow port (blower outlet)

ATTACHMENT C-2

LABORATORY ANALYSES REPORTS



January 27, 2021

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: M011906-01/157

Enclosed are results for sample(s) received 1/19/21 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich, Erin Fanning and Anthony Kimutis; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor and Dan Feezor, Feezor Engineering on 1/26/21.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton , MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
M011906-01	O1409	-21.3	-5	GEW 2S	1/12/2021	8:56	C	LFG	NA	X						4
-02	O1404	-21.5	-5	GEW 2	1/12/2021	9:06	C	LFG	NA	X						4
-03	O1412	-21.1	-5	GEW 3	1/12/2021	9:17	C	LFG	NA	X						4
-04	O1402	-21.4	-5	GEW 4	1/12/2021	9:27	C	LFG	NA	X						4.5
-05	O1405	-21.3	-5	GEW 47R	1/12/2021	9:38	C	LFG	NA	X						4.5
-06	O1401	-21.6	-5	GEW 5	1/12/2021	9:51	C	LFG	NA	X						4
-07	O1398	-21.4	-5	GEW 48	1/12/2021	10:03	C	LFG	NA	X						4
-08	O1421	-21.3	-5	GEW 49	1/12/2021	10:22	C	LFG	NA	X						4.5
-09	O1423	-21.5	-5	GEW 44	1/12/2021	10:35	C	LFG	NA	X						4.5
-10	O1426	-21.5	-5	GEW 45R	1/12/2021	10:48	C	LFG	NA	X						4.5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 1/12/2021

RELINQUISHED BY: Andy Guthrie <i>Andy Guthrie</i>	DATE/TIME: 1/15/2021 1/15/2021	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <i>AS</i>	DATE/TIME: 1/19/21	RECEIVED BY: <i>Duffy</i>	DATE/TIME: 1/19/21 1550
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS

INITIAL VOA VAC "H2"



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 2 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
M011906-11	O1400	-21.4	5	GEW 46R	1/12/2021	11:00	C	LFG	NA	X					4.5
-12	O1407	-21.3	-5	GEW 43R	1/12/2021	11:12	C	LFG	NA	X					4.5
-13	O1410	-21.1	-5	GEW 42R	1/12/2021	11:24	C	LFG	NA	X					4.5
-14	O1422	-21.6	-5	GEW 41R	1/12/2021	11:34	C	LFG	NA	X					4.5
-15	O1419	-21.1	-5	GEW 6	1/13/2021	8:50	C	LFG	NA	X					5
-16	O1415	-21.1	-5	GEW 50	1/13/2021	9:01	C	LFG	NA	X					4.5
-17	O5837	-21.1	-5	GEW 52	1/13/2021	9:19	C	LFG	NA	X					4.5
-18	O1416	-21.2	-5	GEW 7	1/13/2021	9:33	C	LFG	NA	X					4.5
-19	O1425	-21.3	-5	GEW 8	1/13/2021	9:45	C	LFG	NA	X					5
-20	O1420	-21.2	-5	GEW 9	1/13/2021	9:56	C	LFG	NA	X					5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 1/13/2021

RELINQUISHED BY: Andy Guthrie	DATE/TIME: 1/15/2021	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: 1/15/21	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 1/17/21 1550
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS

INITIAL NAME JC "Hg"



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

DELIVERABLES

PAGE: 3 OF 17

Standard 48 hours
Same Day 72 hours
24 hours 96 hours
Other: 5 Day

EDD
EDF
Level 3
Level 4

Condition upon receipt:
Sealed Yes No
Intact Yes No
Chilled _____ deg C

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton , MO 63044
Phone & Fax: 314-683-3921
e-mail: MLambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
Attn: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						INITIALS VAC "Hg
	Cannister ID	Sample Start	Sample End													
M011906-21	O1411	-21	-5	GEW 51	1/13/2021	10:13	C	LFG	NA	X						5
-22	O1408	-21	-5	GEW 53	1/13/2021	10:27	C	LFG	NA	X						4.5
-23	O1399	-20.9	-5	GEW 54	1/13/2021	10:41	C	LFG	NA	X						5
-24	O1413	-21	-5	GEW 55	1/13/2021	10:53	C	LFG	NA	X						5
-25	3164	-21.2	-5	GEW 40	1/13/2021	11:04	C	LFG	NA	X						5
-26	A7780	-21.6	-5	GEW 156	1/8/2021	9:59	C	LFG	NA	X	Cancelled 1/15/21 JP					1
-27	A8072	-21.6	-5	GEW 59R	1/8/2021	10:09	C	LFG	NA	X						4
-28	A8054	-21.5	-5	GEW 153	1/8/2021	10:19	C	LFG	NA	X						4
-29	5304	-21.6	-5	GEW 107	1/11/2021	10:06	C	LFG	NA	X						4
-30	5905	-21.6	-5	GEW152	1/11/2021	10:17	C	LFG	NA	X						4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services
SAMPLED BY: Andy Guthrie COMPANY: Hunt Environmental Specialist DATE/TIME 1/13/2021
RELINQUISHED BY: Andy Guthrie DATE/TIME 1/15/2021
RELINQUISHED BY: Fed Ex 1/17/21 DATE/TIME 1/18/2021
RELINQUISHED BY: Fed Ex 1/19/21 DATE/TIME 1/19/21 1550

RECEIVED BY: _____ DATE/TIME _____
RECEIVED BY: _____ DATE/TIME _____
RECEIVED BY: _____ DATE/TIME _____

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 4 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					INITIALS/REMARKS "Hg"
	Cannister ID	Sample Start	Sample End												
M01906-31	A7795	-22.2	-5	GEW 247	1/11/2021	10:27	C	LFG	NA	X					3.5
-32	A3079	-21.9	-5	GEW 106	1/11/2021	11:04	C	LFG	NA	X					4
-33	5816	-22	-5	GEW 158	1/11/2021	11:15	C	LFG	NA	X					4
-34	A8094	-21.1	-5	GEW 105	1/11/2021	13:47	C	LFG	NA	X					4
-35	A7797	-21.7	-5	GEW 249	1/11/2021	13:58	C	LFG	NA	X					4
-36	A7808	-21.5	-5	GEW 237	1/11/2021	14:08	C	LFG	NA	X					4
-37	A7809	-21.6	-5	GEW 175	1/11/2021	14:20	C	LFG	NA	X					4
-38	5316	-21.4	-5	GEW 150	1/11/2021	14:30	C	LFG	NA	X					4
-39	A7776	-20.5	-5	GEW 104	1/13/2021	14:03	C	LFG	NA	X					5
-40	3040	-20.7	-5	GEW 157	1/13/2021	14:13	C	LFG	NA	X					5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services	COMMENTS
SAMPLED BY: Andy Guthrie	COMPANY: Hunt Environmental Specialist	
RELINQUISHED BY: Andy Guthrie	DATE/TIME: 1/15/2021	
RELINQUISHED BY: [Signature]	DATE/TIME: 1/18/2021	
RELINQUISHED BY: [Signature]	DATE/TIME: 1/19/21	RECEIVED BY: [Signature]
RELINQUISHED BY: [Signature]	DATE/TIME: [Signature]	RECEIVED BY: [Signature]
RELINQUISHED BY: [Signature]	DATE/TIME: [Signature]	RECEIVED BY: [Signature]
METHOD OF TRANSPORT (circle one): Walk-In <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> ATLI <input type="checkbox"/> Other _____		

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 5 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	INITIAL LAB VAC "Hg
	Cannister ID	Sample Start	Sample End								
M011906-41	A7650	-20.2	-5	GEW 57B	1/13/2021	14:25	C	LFG	NA	X	S
-42	5274	-20.2	-5	GEW 252	1/13/2021	14:35	C	LFG	NA	X	S
-43	4648	-18.6	-5	GEW 241	1/13/2021	14:46	C	LFG	NA	X	S
-44	A8089	-20.2	-5	GEW 178	1/13/2021	14:57	C	LFG	NA	X	S
-45	3834	-19.4	-5	GEW 217	1/13/2021	15:06	C	LFG	NA	X	S
-46	A7804	-20.3	-5	GEW 145	1/13/2021	15:16	C	LFG	NA	X	S.S
-47	6144	-20.5	-5	GEW 218	1/13/2021	15:26	C	LFG	NA	X	S
-48	3441	-20.5	-5	GEW 102	1/13/2021	15:40	C	LFG	NA	X	S
-49	A7782	-20.3	-5	GEW 179	1/13/2021	15:50	C	LFG	NA	X	S
-50	9536	-20.4	-5	GEW 220	1/13/2021	16:01	C	LFG	NA	X	S

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 1/13/2021

RELINQUISHED BY: Andy Guthrie	DATE/TIME: 1/13/2021	RECEIVED BY:	DATE/TIME:
<i>Andy Guthrie</i>	1/13/2021	<i>John</i>	1/19/21
RELINQUISHED BY: <i>FedEx</i>	DATE/TIME: 1/19/21	RECEIVED BY: <i>John</i>	DATE/TIME: 1/19/21 1550
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 6 OF 17
Standard <input type="checkbox"/>	48 hours <input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton , MO 63044
Phone& Fax: 314-683-3921
e-mail: mlambrich@republicservices.com

BILLING

P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
M011906-51	R1371	-20.6	-5	GEW 180	1/13/2021	16:57	C	LFG	NA	X					
-52	5901	-20.6	-5	GEW 101	1/14/2021	13:59	C	LFG	NA	X					
-53	A7667	-20.6	-5	GEW 221	1/14/2021	14:09	C	LFG	NA	X					
-54	A7761	-20.7	-5	GEW 68A	1/14/2021	14:20	C	LFG	NA	X					
-55	5920	-20.8	-5	GEW 144	1/14/2021	14:31	C	LFG	NA	X					4.5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 1/14/2021

RELINQUISHED BY: Andy Guthrie	DATE/TIME: 1/15/2021	RECEIVED BY:	DATE/TIME:
<i>[Signature]</i>	1/15/2021	<i>[Signature]</i>	
RELINQUISHED BY: FedEx	DATE/TIME: 1/19/21	RECEIVED BY: [Signature]	DATE/TIME: 1/19/21 1550

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS

INITIAL LAB USE "HG"



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 7 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone & Fax: 314-683-3921
e-mail: mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
M011906-56	R5277	-21.2	-5	GIW 1	1/6/2021	8:47	C	LFG	NA	X					4
-57	A8069	-21.6	-5	GIW 2	1/6/2021	8:58	C	LFG	NA	X					4
-58	3131	-21.5	-5	GIW 3	1/6/2021	9:08	C	LFG	NA	X					4
-59	R2480	21.6	-5	GIW 4	1/6/2021	9:18	C	LFG	NA	X					4
-60	R2201	-21.2	-5	GIW 5	1/6/2021	9:30	C	LFG	NA	X					4
-61	A7794	-21.3	-5	GIW 6	1/6/2021	9:41	C	LFG	NA	X					4
-62	N3680	-20.8	-5	GIW 7	1/6/2021	9:52	C	LFG	NA	X					4
-63	6156	-21.3	-5	GIW 8	1/6/2021	10:18	C	LFG	NA	X					4
-64	A7802	-21.2	-5	GIW 9	1/6/2021	10:26	C	LFG	NA	X					4
-65	N3697	-21.3	-5	GIW 10	1/6/2021	10:46	C	LFG	NA	X					4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Steven Romaine **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 1/6/2021

RELINQUISHED BY: Steven Romaine <i>Steven Romaine</i>	DATE/TIME: 1/15/2021	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: FEN EX	DATE/TIME: 1/19/21	<i>[Signature]</i>	DATE/TIME: 1/19/21 1558
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME DELIVERABLES PAGE: 8 OF 17

Standard	<input type="checkbox"/>	48 hours	<input checked="" type="checkbox"/>	EDD	<input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day	<input type="checkbox"/>	72 hours	<input type="checkbox"/>	EDF	<input type="checkbox"/>	
24 hours	<input type="checkbox"/>	96 hours	<input type="checkbox"/>	Level 3	<input type="checkbox"/>	
Other:	<u>5 Day</u>			Level 4	<input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone& Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING **ANALYSIS REQUEST**

P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				INITIAL LAB VAC "Hg
	Cannister ID	Sample Start	Sample End												
M011906-66	5839	-21.1	-5	GIW 11	1/6/2021	10:56	C	LFG	NA	X					4
-67	N3690	-21	-5	GIW 12	1/6/2021	11:06	C	LFG	NA	X					4
-68	N3681	-21.1	-5	GIW 13	1/6/2021	11:15	C	LFG	NA	X					4
-69	6152	-21	-5	GEW 110	1/6/2021	11:23	C	LFG	NA	X					4
-70	N3678	-21	-5	GEW 10	1/6/2021	11:33	C	LFG	NA	X					4
-71	N3700	-21.5	-5	GEW 56R	1/6/2021	11:42	C	LFG	NA	X					4
-72	5315	-20.8	-5	GEW 39	1/6/2021	13:47	C	LFG	NA	X					4.5
-73	A7805	-20.9	-5	GEW 109	1/6/2021	13:58	C	LFG	NA	X					4.5
-74	A8085	-20.9	-5	GEW 108	1/6/2021	14:09	C	LFG	NA	X					4.5
-75	A7800	-21.1	-5	GEW 187	1/6/2021	14:19	C	LFG	NA	X					4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services	COMMENTS
SAMPLED BY: Steven Romaine	COMPANY: Hunt Environmental Specialist	
RELINQUISHED BY: Steven Romaine	DATE/TIME: 1/15/2021	
RELINQUISHED BY: FELIX	DATE/TIME: 1/19/21	
RELINQUISHED BY:	DATE/TIME:	
RECEIVED BY: [Signature]	DATE/TIME: 1/19/21 1555	
METHOD OF TRANSPORT (circle one): Walk-In <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> ATLI <input type="checkbox"/> Other _____		

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other Rev. 03 - 5/7/09



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME DELIVERABLES PAGE: 9 OF 17

Standard	<input type="checkbox"/>	48 hours	<input checked="" type="checkbox"/>	EDD	<input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day	<input type="checkbox"/>	72 hours	<input type="checkbox"/>	EDF	<input type="checkbox"/>	
24 hours	<input type="checkbox"/>	96 hours	<input type="checkbox"/>	Level 3	<input type="checkbox"/>	
Other:	<u>5 Day</u>			Level 4	<input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING **ANALYSIS REQUEST**

P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				INITIAL USE YAC "HG
	Cannister ID	Sample Start	Sample End												
M011906-76	5928	-20.8	-5	GEW 162	1/6/2021	14:31	C	LFG	NA	X					4
-77	A7775	-21	-5	GEW 161	1/6/2021	14:45	C	LFG	NA	X					4
-78	A7759	-21.2	-5	GEW 160	1/6/2021	14:54	C	LFG	NA	X					4
-79	A7749	-20.4	-5	GEW 91	1/6/2021	15:05	C	LFG	NA	X					4.5
-80	R2490	-21.1	-5	GEW 90	1/7/2021	9:05	C	LFG	NA	X					4
-81	N3687	-20.5	-5	GEW 239	1/7/2021	9:15	C	LFG	NA	X					4
-82	5323	-20.2	-5	GEW 149	1/7/2021	9:34	C	LFG	NA	X					4
-83	R5198	-21	-5	GEW 13A	1/7/2021	9:46	C	LFG	NA	X					4
-84	R4342	-21.5	-5	GEW 88	1/7/2021	9:58	C	LFG	NA	X					4
-85	R2495	-20.6	-5	GEW 251	1/7/2021	10:09	C	LFG	NA	X					4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Steven Romaine **COMPANY:** Hunt Environmental Specialist **DATE/TIME:** 1/7/2021

RELINQUISHED BY: Steven Romaine	DATE/TIME: 1/15/2021	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: FEW EX	DATE/TIME: 1/19/21	RECEIVED BY: [Signature]	DATE/TIME: 1/19/21 1550
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 10 OF 17
Standard <input type="checkbox"/>	48 hours <input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton, MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					INITIAL USE VAC "Hg
	Cannister ID	Sample Start	Sample End												
M011906-86	3826	-21.1	-5	GEW 67A	1/7/2021	10:21	C	LFG	NA	X					4
-87	5272	-21.1	-5	GEW 246	1/7/2021	10:49	C	LFG	NA	X					4
-88	R2207	-21.2	-5	GEW 15	1/7/2021	11:01	C	LFG	NA	X					4
-89	A7666	-21.1	-5	GEW 148	1/7/2021	14:08	C	LFG	NA	X					4
-90	A8078	-21.1	-5	GEW 87	1/7/2021	14:15	C	LFG	NA	X					4
-91	5903	-21.4	-5	GEW232	1/7/2021	14:21	C	LFG	NA	X					3.5
-92	6154	-21	-5	GEW 113	1/7/2021	14:47	C	LFG	NA	X					4
-93	3436	-21.2	-5	GEW 238	1/7/2021	14:57	C	LFG	NA	X					3.5
-94	R5204	-21.2	-5	GEW 16R	1/7/2021	15:07	C	LFG	NA	X					3.5
-95	A7665	-21.2	-5	GEW 147	1/7/2021	15:15	C	LFG	NA	X	Cancelled 1/25/21				0

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: _____ **COMPANY:** _____ **DATE/TIME:** _____

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
STAN [Signature]	1/15/2021	[Signature]	
FEN [Signature]	1/19/21	[Signature]	1/19/21 1550

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME			DELIVERABLES	PAGE: 11 OF 17
Standard	<input type="checkbox"/>	48 hours	<input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day	<input type="checkbox"/>	72 hours	EDF <input type="checkbox"/>	
24 hours	<input type="checkbox"/>	96 hours	Level 3 <input type="checkbox"/>	
Other:	<input checked="" type="checkbox"/>	5 Day	Level 4 <input type="checkbox"/>	

Project No.: _____
Project Name: Bridgeton Landfill
Report To: Mike Lambrich
Company: Republic Services
Street: 13570 St. Charles Rock Rd.
City/State/Zip: Bridgeton , MO 63044
Phone & Fax: 314-683-3921
e-mail: Mlambrich@republicservices.com

BILLING
P.O. No.: PO9583468
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVATION	ANALYSIS REQUEST										
	Cannister ID	Sample Start	Sample End							D1946 + CO ₂ H ₂										
M011906-96	A8096	-21.5	-5	GEW 228	1/8/2021	9:51	C	LFG	NA	X										INITIAL VEG VAC "H ₂
-97	5822	-21.5	-5	GEW 229	1/8/2021	10:03	C	LFG	NA	X										3.5
-98	4644	-21.2	-5	GEW 137	1/8/2021	10:40	C	LFG	NA	X										3.5
-99	4655	-21.6	-5	GEW 253	1/8/2021	10:51	C	LFG	NA	X										3.5
-100	4645	-21.4	-5	GEW 78R	1/8/2021	11:05	C	LFG	NA	X										3.5
-101	3132	-21.4	-5	GEW 135	1/8/2021	11:33	C	LFG	NA	X										3.5
-102	3435	-21.6	-5	GEW 227	1/8/2021	13:56	C	LFG	NA	X										3.5
-103	A7770	-21.5	-5	GEW 233	1/8/2021	14:08	C	LFG	NA	X										3.5
-104	A7766	-21.3	-5	GEW 134	1/8/2021	14:22	C	LFG	NA	X										3
-105	3838	-19.9	-5	GEW 18B	1/8/2021	14:37	C	LFG	NA	X										4


AUTHORIZATION TO PERFORM WORK: **Dave Penoyer** COMPANY: Republic Services


SAMPLED BY: Steven Romaine COMPANY: Hunt Environmental Specialist DATE/TIME 1/8/2021

RELINQUISHED BY Steven Romaine	DATE/TIME 1/15/2021	RECEIVED BY	DATE/TIME
RELINQUISHED BY <i>Steven Romaine</i>	DATE/TIME <i>1/15/2021</i>	RECEIVED BY	DATE/TIME
RELINQUISHED BY <i>TEV EX</i>	DATE/TIME <i>1/17/21</i>	RECEIVED BY <i>[Signature]</i>	DATE/TIME <i>1/19/21 1550</i>


METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS

			18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832			CHAIN OF CUSTODY RECORD										
						TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>				DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>			PAGE: 12 OF 17 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C			
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone& Fax: 314-683-3921 e-mail: MLambrich@republicservices.com			BILLING P.O. No.: PO9583468 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044					ANALYSIS REQUEST D1946 + CO, H2 INITIAL LAB VAC "HG"								
LAB USE ONLY		Cannister Pressure ("hg)		SAMPLE IDENTIFICATION		SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
Cannister ID	Sample Start	Sample End														
M011906-106	A7818	-21.4	-5	GEW 250	1/8/2021	14:51	C	LFG	NA	X						3
-107	A7751	-21.3	-5	GEW 116	1/8/2021	15:03	C	LFG	NA	X						3.5
-108	A7778	-21.5	-5	GEW 133	1/8/2021	15:14	C	LFG	NA	X						3
-109	5311	-21.4	-5	GEW 82R	1/11/2021	9:18	C	LFG	NA	X						3
-110	5904	-21.5	-5	GEW 132	1/11/2021	9:34	C	LFG	NA	X						3
-111	A7764	-21.3	-5	GEW 234	1/11/2021	9:44	C	LFG	NA	X						3.5
-112	5834	-21.4	-5	GEW 118	1/11/2021	9:55	C	LFG	NA	X						3
-113	A7671	-21.4	-5	GEW 120	1/11/2021	10:17	C	LFG	NA	X						3.5
-114	A7820	-21.5	-5	GEW 19A	1/11/2021	10:44	C	LFG	NA	X						3.5
-115	A8068	-21.5	-5	GEW 185	1/11/2021	11:01	C	LFG	NA	X						3.5
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Steven Romaine COMPANY: Hunt Environmental Specialist DATE/TIME 1/11/2021 RELINQUISHED BY Steven Romaine DATE/TIME 1/15/2021 RECEIVED BY DATE/TIME RELINQUISHED BY REX DATE/TIME 1/19/21 RECEIVED BY JRJ DATE/TIME 1/19/21 1550 RELINQUISHED BY DATE/TIME RECEIVED BY DATE/TIME										COMMENTS						
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____																

 <p>18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD																
	TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>	DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>	PAGE: 13 OF 17	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C													
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone& Fax: 314-683-3921 e-mail: MLambrich@republicservices.com	BILLING P.O. No.: PO9583468 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044					ANALYSIS REQUEST D1946 + CO, H2 INITIAL LAB VAC "148"											
LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVA-TION	D1946 + CO, H2							
	Cannister ID	Sample Start	Sample End														
MD11906-116 ↓ -117 -118 -119 -120 -121 -122 -123 -124 -125	3157	-21.4	-5	GEW 117	1/11/2021	10:34	C	LFG	NA	X							3.5
	A8103	-21.5	-5	GEW 121	1/11/2021	11:10	C	LFG	NA	X							3
	6146	-21.4	-5	GEW 235	1/11/2021	11:19	C	LFG	NA	X							3
	A8063	-21.6	-5	GEW 122	1/11/2021	11:29	C	LFG	NA	X							3
	A8066	-21.5	-5	GEW 163	1/11/2021	14:27	C	LFG	NA	X							3
	A8098	-21.3	-5	GEW 123	1/11/2021	14:37	C	LFG	NA	X							3
	5270	-21.5	-5	GEW 165	1/13/2021	11:10	C	LFG	NA	X							5
	A8056	-20.1	-5	GEW 166	1/13/2021	11:23	C	LFG	NA	X							5
	5320	-20.4	-5	GEW 244	1/13/2021	13:52	C	LFG	NA	X							5
	A8099	-20.6	-5	GEW 125	1/13/2021	14:01	C	LFG	NA	X							5


AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services SAMPLED BY: Steven Romaine COMPANY: Hunt Environmental Specialist DATE/TIME 1/13/2021 RELINQUISHED BY <i>Steven Romaine</i> DATE/TIME 1/15/2021 RECEIVED BY DATE/TIME RELINQUISHED BY <i>FedEx</i> DATE/TIME 1/19/21 RECEIVED BY <i>[Signature]</i> DATE/TIME 1/19/21 1550 RELINQUISHED BY DATE/TIME RECEIVED BY DATE/TIME METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____	COMMENTS _____ _____ _____
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	18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832	CHAIN OF CUSTODY RECORD		
	Project No.: _____ Project Name: <u>Bridgeton Landfill</u> Report To: <u>Mike Lambrich</u> Company: <u>Republic Services</u> Street: <u>13570 St. Charles Rock Rd.</u> City/State/Zip: <u>Bridgeton, MO 63044</u> Phone& Fax: <u>314-683-3921</u> e-mail: <u>Mlambrich@republicservices.com</u>	TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>	DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>	PAGE: 14 OF 17 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C

P.O. No.: <u>PO9583468</u> Bill to: <u>Republic Services</u> Attn: <u>Mike Lambrich</u> <u>13570 St. Charles Rock Rd.</u> <u>Bridgeton, MO 63044</u>	BILLING	ANALYSIS REQUEST
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LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
<u>M011906-126</u>	5934	-20.5	-5	GEW 168	1/13/2021	14:12	C	LFG	NA	X						<u>5</u>
<u>-127</u>	A8067	-20.3	-5	GEW 243	1/13/2021	14:25	C	LFG	NA	X						<u>5</u>
<u>-128</u>	5825	-20.5	-5	GEW 126	1/13/2021	14:37	C	LFG	NA	X						<u>5</u>
<u>-129</u>	A8065	-20.5	-5	GEW 167	1/13/2021	15:00	C	LFG	NA	X						<u>5</u>
<u>-130</u>	6135	-20.3	-5	GEW 131	1/13/2021	15:11	C	LFG	NA	X						<u>5</u>
<u>-131</u>	A7662	-19.8	-5	GEW 169	1/13/2021	15:23	C	LFG	NA	X						<u>5</u>
<u>-132</u>	J1717	-20.4	-5	GEW 127	1/14/2021	9:11	C	LFG	NA	X						<u>4.5</u>
<u>-133</u>	5305	-20.5	-5	GEW 186	1/14/2021	9:22	C	LFG	NA	X						<u>5</u>
<u>-134</u>	A8075	-20.4	-5	GEW 170	1/14/2021	9:31	C	LFG	NA	X						<u>5</u>
<u>-135</u>	A7784	-20.7	-5	GEW 129	1/14/2021	9:46	C	LFG	NA	X						<u>5</u>

AUTHORIZATION TO PERFORM WORK: <u>Dave Penoyer</u> COMPANY: <u>Republic Services</u> SAMPLED BY: <u>Steven Romaine</u> COMPANY: <u>Hunt Environmental Specialist</u> DATE/TIME <u>1/14/2021</u> RELINQUISHED BY: <u>Steven Romaine</u> DATE/TIME <u>1/15/2021</u> RECEIVED BY: _____ DATE/TIME _____ RELINQUISHED BY: <u>TEM EX</u> DATE/TIME <u>1/19/21</u> RECEIVED BY: <u>[Signature]</u> DATE/TIME <u>1/19/21 1550</u> RELINQUISHED BY: _____ DATE/TIME _____ RECEIVED BY: _____ DATE/TIME _____	COMMENTS
METHOD OF TRANSPORT (circle one): Walk-In <input type="checkbox"/> FedEx <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> ATLI <input type="checkbox"/> Other _____	



AirTECHNOLOGY
Laboratories, Inc.

18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

Project No.: _____

Project Name: Bridgeton Landfill

Report To: Mike Lambrich

Company: Republic Services

Street: 13570 St. Charles Rock Rd.

City/State/Zip: Bridgeton, MO 63044

Phone & Fax: 314-683-3921


e-mail: mlambrich@republicservices.com


TURNAROUND TIME	DELIVERABLES	PAGE: 15 OF 17
Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day	Level 4 <input type="checkbox"/>	

BILLING	ANALYSIS REQUEST
P.O. No.: PO9583468	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">D1946 + CO, H2</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">INITIALS VAC "HG"</div> </div>
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd.	
Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
M011906-136	R5203	-20.1	-5	GEW 177	1/14/2021	10:01	C	LFG	NA	X						S
-137	N3685	-20.3	-5	GEW 130	1/14/2021	10:26	C	LFG	NA	X						S
-138	A7670	-20.2	-5	GEW 224	1/14/2021	10:38	C	LFG	NA	X						S
-139	R1348	-20.4	-5	GEW 225	1/14/2021	10:47	C	LFG	NA	X						S
-140	N3691	-20.3	-5	GEW 172	1/14/2021	11:21	C	LFG	NA	X						S
-141	3126	-19.8	-5	GEW 223	1/14/2021	11:31	C	LFG	NA	X						S
-142	5307	-20.5	-5	GEW 222	1/14/2021	14:04	C	LFG	NA	X						S
-143	3837	-20.6	-5	GEW 171	1/14/2021	14:15	C	LFG	NA	X						S
-144	A7816	-20.3	-5	GEW 100	1/14/2021	14:25	C	LFG	NA	X						S
-145	N3684	-20.5	-5	GEW 181	1/14/2021	14:36	C	LFG	NA	X						S

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services	COMMENTS
SAMPLED BY: _____ COMPANY: _____ DATE/TIME: _____	
RELINQUISHED BY: <i>Scott Rain</i> DATE/TIME: 1/19/2021 RECEIVED BY: _____ DATE/TIME: _____	
RELINQUISHED BY: <i>FedEx</i> DATE/TIME: 1/19/21 RECEIVED BY: <i>[Signature]</i> DATE/TIME: 1/19/21 1550	
RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____	
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____	

 <p style="font-size: small;">18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832</p>	CHAIN OF CUSTODY RECORD														
	<p>Project No.: _____</p> <p>Project Name: Bridgeton Landfill</p> <p>Report To: Mike Lambrich</p> <p>Company: Republic Services</p> <p>Street: 13570 St. Charles Rock Rd.</p> <p>City/State/Zip: Bridgeton, MO 63044</p> <p>Phone & Fax: 314-683-3921</p> <p>e-mail: MLambrich@republicservices.com</p>	TURNAROUND TIME	DELIVERABLES	PAGE: 16 OF 17											
	Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt:												
	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	Sealed Yes <input type="checkbox"/> No <input type="checkbox"/>												
	24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	Intact Yes <input type="checkbox"/> No <input type="checkbox"/>												
	Other: 5 Day	Level 4 <input type="checkbox"/>	Chilled _____ deg C												
	BILLING					ANALYSIS REQUEST									
	P.O. No.: PO9583468					D1946 + CO, H2 12 MAX LBS MAX "HG"									
	Bill to: Republic Services														
	Attn: Mike Lambrich														
	13570 St. Charles Rock Rd.														
	Bridgeton, MO 63044														
LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
	Cannister ID	Sample Start	Sample End												
	50														
	MOVI 906-146	4667	-20.6	-5	GEW 139	1/15/2021	8:44	C	LFG	NA	X				4
	-147	3439	-20.6	-5	GEW 226	1/15/2021	8:54	C	LFG	NA	X				4
	-148	R5209	-20.7	-5	GEW 140	1/15/2021	9:15	C	LFG	NA	X				4
	-149	A8070	-20.6	-5	GEW 174	1/15/2021	9:30	C	LFG	NA	X				4
	-150	A7767	-20.4	-5	GEW 240	1/15/2021	10:05	C	LFG	NA	X				4
	-151	A7654	-19.3	-5	GEW 236	1/15/2021	10:26	C	LFG	NA	X				6
	-152	R5210	-20.6	-5	GEW 248	1/15/2021	10:41	C	LFG	NA	X				4
	-153	R5221	-20.4	-5	GEW 242	1/15/2021	10:57	C	LFG	NA	X				4
	-154	A7792	-20.8	-5	GEW 86	1/18/2021	9:56	C	LFG	NA	X				4
	-155	6160	-21.4	-5	GEW 164	1/11/2021	14:47	C	LFG	NA	X				4
AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services						COMMENTS									
SAMPLED BY: Steven Romaine COMPANY: Hunt Environmental Specialist DATE/TIME: 1/15/2021															
RELINQUISHED BY: Steven Romaine DATE/TIME: 1/15/2021			RECEIVED BY: _____ DATE/TIME: _____												
RELINQUISHED BY: FED ex DATE/TIME: 1/19/21			RECEIVED BY: [Signature] DATE/TIME: 1/19/21 1550												
RELINQUISHED BY: _____ DATE/TIME: _____			RECEIVED BY: _____ DATE/TIME: _____												
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____															

		18501 E. Gale Ave., Suite 130 City of Industry, CA 91748 Ph: 626-964-4032 Fx: 626-964-5832		CHAIN OF CUSTODY RECORD														
				TURNAROUND TIME Standard <input type="checkbox"/> 48 hours <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> 96 hours <input type="checkbox"/> Other: <u>5 Day</u>			DELIVERABLES EDD <input checked="" type="checkbox"/> EDF <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/>			PAGE: 17 OF 17 Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C								
Project No.: _____ Project Name: Bridgeton Landfill Report To: Mike Lambrich Company: Republic Services Street: 13570 St. Charles Rock Rd. City/State/Zip: Bridgeton, MO 63044 Phone& Fax: 314-683-3921 e-mail: MLambrich@republicservices.com				BILLING P.O. No.: PO9583468 Bill to: Republic Services Attn: Mike Lambrich 13570 St. Charles Rock Rd. Bridgeton, MO 63044				ANALYSIS REQUEST D1946 + CO, H2 IN: TIKU LAB WK "HG"										
LAB USE ONLY		Cannister Pressure ("hg)		SAMPLE IDENTIFICATION			SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End															
	R2222	-21.3	-5	GEW 124	1/11/2021	14:59	C	LFG	NA	X							4	
	3825	-21.6	-5	GEW 245	1/11/2021	15:09	C	LFG	NA	X								4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer		COMPANY: Republic Services	
SAMPLED BY: Steven Romaine		COMPANY: Hunt Environmental Specialist	
		DATE/TIME 1/15/2021	
RELINQUISHED BY: <i>Steven Romaine</i>	DATE/TIME: 1/15/2021	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <i>FEI ex</i>	DATE/TIME: 1/19/21	RECEIVED BY: <i>DMJ</i>	DATE/TIME: 1/19/21 1550
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

COMMENTS _____ _____ _____
--

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-01	M011906-02	M011906-03	M011906-04				
Client Sample I.D.:	GEW 2S	GEW 2	GEW 3	GEW 4				
Date/Time Sampled:	1/12/21 8:56	1/12/21 9:06	1/12/21 9:17	1/12/21 9:27				
Date/Time Analyzed:	1/21/21 11:52	1/21/21 12:06	1/21/21 12:21	1/21/21 12:35				
QC Batch No.:	210121GC8A1	210121GC8A1	210121GC8A1	210121GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.1				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.030	ND d	0.030	ND d	0.030	0.053 d	0.031
Carbon Dioxide	38	0.030	39	0.030	42	0.030	41	0.031
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	9.7	3.0	10	3.0	3.7	3.0	9.1	3.1
Methane	51	0.0030	50	0.0030	54	0.0030	50	0.0031
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-05	M011906-06	M011906-07	M011906-08				
Client Sample I.D.:	GEW 47R	GEW 5	GEW 48	GEW 49				
Date/Time Sampled:	1/12/21 9:38	1/12/21 9:51	1/12/21 10:03	1/12/21 10:22				
Date/Time Analyzed:	1/21/21 13:21	1/21/21 13:35	1/21/21 13:50	1/21/21 14:04				
QC Batch No.:	210121GC8A1	210121GC8A1	210121GC8A1	210121GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.0	3.0	3.1				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.031	ND d	0.030	ND d	0.030	ND d	0.031
Carbon Dioxide	40	0.031	39	0.030	39	0.030	34	0.031
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	13	3.1	7.1	3.0	7.9	3.0	28	3.1
Methane	47	0.0031	54	0.0030	52	0.0030	37	0.0031
Carbon Monoxide	ND	0.0031	ND	0.0030	ND	0.0030	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-09	M011906-10	M011906-11	M011906-12				
Client Sample I.D.:	GEW 44	GEW 45R	GEW 46R	GEW 43R				
Date/Time Sampled:	1/12/21 10:35	1/12/21 10:48	1/12/21 11:00	1/12/21 11:12				
Date/Time Analyzed:	1/21/21 14:19	1/21/21 14:33	1/21/21 14:48	1/21/21 15:02				
QC Batch No.:	210121GC8A1	210121GC8A1	210121GC8A1	210121GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	3.1	3.1				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.031	ND d	0.031	0.044 d	0.031	0.12 d	0.031
Carbon Dioxide	31	0.031	38	0.031	41	0.031	40	0.031
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	34	3.1	13	3.1	7.0	3.1	7.8	3.1
Methane	34	0.0031	49	0.0031	51	0.0031	51	0.0031
Carbon Monoxide	ND	0.0031	ND	0.0031	ND	0.0031	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-13	M011906-14	M011906-15	M011906-16				
Client Sample I.D.:	GEW 42R	GEW 41R	GEW 6	GEW 50				
Date/Time Sampled:	1/12/21 11:24	1/12/21 11:34	1/13/21 8:50	1/13/21 9:01				
Date/Time Analyzed:	1/21/21 15:17	1/21/21 15:31	1/21/21 15:46	1/21/21 16:00				
QC Batch No.:	210121GC8A1	210121GC8A1	210121GC8A1	210121GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	3.2	3.1				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.031	ND d	0.031	ND d	0.032	ND d	0.031
Carbon Dioxide	37	0.031	33	0.031	39	0.032	38	0.031
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.6	ND	1.5
Nitrogen	10	3.1	18	3.1	8.2	3.2	9.9	3.1
Methane	52	0.0031	48	0.0031	52	0.0032	51	0.0031
Carbon Monoxide	ND	0.0031	ND	0.0031	ND	0.0032	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A1

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-17	M011906-18	M011906-19	M011906-20				
Client Sample I.D.:	GEW 52	GEW 7	GEW 8	GEW 9				
Date/Time Sampled:	1/13/21 9:19	1/13/21 9:33	1/13/21 9:45	1/13/21 9:56				
Date/Time Analyzed:	1/21/21 17:43	1/21/21 17:57	1/21/21 18:12	1/21/21 18:26				
QC Batch No.:	210121GC8A2	210121GC8A2	210121GC8A2	210121GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.031	ND d	0.031	1.3 d	0.032	0.71 d	0.032
Carbon Dioxide	39	0.031	41	0.031	43	0.032	42	0.032
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.6	ND	1.6
Nitrogen	11	3.1	5.0	3.1	3.4	3.2	5.2	3.2
Methane	49	0.0031	53	0.0031	52	0.0032	51	0.0032
Carbon Monoxide	ND	0.0031	ND	0.0031	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 1/21/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-21	M011906-22	M011906-23	M011906-24				
Client Sample I.D.:	GEW 51	GEW 53	GEW 54	GEW 55				
Date/Time Sampled:	1/13/21 10:13	1/13/21 10:27	1/13/21 10:41	1/13/21 10:53				
Date/Time Analyzed:	1/21/21 18:41	1/21/21 18:56	1/21/21 19:10	1/21/21 19:25				
QC Batch No.:	210121GC8A2	210121GC8A2	210121GC8A2	210121GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.1	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	1.2 d	0.032	3.3 d	0.031	1.4 d	0.032	1.3 d	0.032
Carbon Dioxide	42	0.032	42	0.031	43	0.032	42	0.032
Oxygen/Argon	ND	1.6	ND	1.5	ND	1.6	ND	1.6
Nitrogen	3.5	3.2	5.4	3.1	3.9	3.2	4.9	3.2
Methane	53	0.0032	48	0.0031	51	0.0032	51	0.0032
Carbon Monoxide	ND	0.0032	0.0047	0.0031	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-25	M011906-27	M011906-28	M011906-29				
Client Sample I.D.:	GEW 40	GEW 59R	GEW 153	GEW 107				
Date/Time Sampled:	1/13/21 11:04	1/8/21 10:09	1/8/21 10:19	1/11/21 10:06				
Date/Time Analyzed:	1/21/21 19:39	1/21/21 20:08	1/21/21 20:23	1/21/21 20:37				
QC Batch No.:	210121GC8A2	210121GC8A2	210121GC8A2	210121GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.032	22	3.0	3.2 d	0.030	3.6 d	0.030
Carbon Dioxide	33	0.032	38	0.030	33	0.030	49	0.030
Oxygen/Argon	ND	1.6	ND	1.5	ND	1.5	ND	1.5
Nitrogen	13	3.2	13	3.0	31	3.0	ND	3.0
Methane	53	0.0032	25	0.0030	31	0.0030	45	0.0030
Carbon Monoxide	ND	0.0032	0.028	0.0030	0.0056	0.0030	0.0096	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2, 210125GC8A4

Reviewed/Approved By: *WJD*
 Mark Johnson
 Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-30	M011906-31	M011906-32	M011906-33				
Client Sample I.D.:	GEW152	GEW 247	GEW 106	GEW 158				
Date/Time Sampled:	1/11/21 10:17	1/11/21 10:27	1/11/21 11:04	1/11/21 11:15				
Date/Time Analyzed:	1/21/21 20:52	1/21/21 21:06	1/21/21 21:21	1/21/21 21:35				
QC Batch No.:	210121GC8A2	210121GC8A2	210121GC8A2	210121GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	2.9	3.0	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	17	3.0	17	2.9	24	3.0	13	3.0
Carbon Dioxide	45	0.030	43	0.029	40	0.030	44	0.030
Oxygen/Argon	2.4	1.5	ND	1.4	5.4	1.5	ND	1.5
Nitrogen	12	3.0	3.7	2.9	21	3.0	8.4	3.0
Methane	24	0.0030	36	0.0029	10.0	0.0030	32	0.0030
Carbon Monoxide	0.034	0.0030	0.035	0.0029	0.033	0.0030	0.021	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-34	M011906-35	M011906-36	M011906-37				
Client Sample I.D.:	GEW 105	GEW 249	GEW 237	GEW 175				
Date/Time Sampled:	1/11/21 13:47	1/11/21 13:58	1/11/21 14:08	1/11/21 14:20				
Date/Time Analyzed:	1/21/21 21:50	1/21/21 22:04	1/21/21 22:19	1/22/21 8:53				
QC Batch No.:	210121GC8A2	210121GC8A2	210121GC8A2	210122GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	8.7	3.0	3.7 d	0.030	2.2 d	0.030	0.50 d	0.030
Carbon Dioxide	44	0.030	55	0.030	45	0.030	21	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	7.0	1.5
Nitrogen	3.2	3.0	ND	3.0	ND	3.0	50	3.0
Methane	43	0.0030	38	0.0030	50	0.0030	21	0.0030
Carbon Monoxide	0.011	0.0030	0.0088	0.0030	0.0054	0.0030	0.0070	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-38	M011906-39	M011906-40	M011906-41				
Client Sample I.D.:	GEW 150	GEW 104	GEW 157	GEW 57B				
Date/Time Sampled:	1/11/21 14:30	1/13/21 14:03	1/13/21 14:13	1/13/21 14:25				
Date/Time Analyzed:	1/22/21 9:07	1/22/21 9:22	1/22/21 9:36	1/22/21 13:48				
QC Batch No.:	210122GC8A1	210122GC8A1	210122GC8A1	210122GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	17	3.0	42	3.2	18	3.2	37	3.2
Carbon Dioxide	45	0.030	51	0.032	42	0.032	48	0.032
Oxygen/Argon	ND	1.5	ND	1.6	ND	1.6	ND	1.6
Nitrogen	7.0	3.0	ND	3.2	4.9	3.2	4.9	3.2
Methane	30	0.0030	1.7	0.0032	34	0.0032	7.8	0.0032
Carbon Monoxide	0.024	0.0030	0.037	0.0032	0.017	0.0032	0.042	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-42	M011906-43	M011906-44	M011906-45				
Client Sample I.D.:	GEW 252	GEW 241	GEW 178	GEW 217				
Date/Time Sampled:	1/13/21 14:35	1/13/21 14:46	1/13/21 14:57	1/13/21 15:06				
Date/Time Analyzed:	1/22/21 15:10	1/22/21 15:24	1/22/21 15:39	1/22/21 15:53				
QC Batch No.:	210122GC8A2	210122GC8A2	210122GC8A2	210122GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	21	3.2	0.036 d	0.032	ND d	0.032	34	3.2
Carbon Dioxide	48	0.032	39	0.032	47	0.032	47	0.032
Oxygen/Argon	ND	1.6	3.8	1.6	ND	1.6	2.7	1.6
Nitrogen	ND	3.2	21	3.2	5.9	3.2	9.2	3.2
Methane	28	0.0032	35	0.0032	46	0.0032	6.4	0.0032
Carbon Monoxide	0.021	0.0032	ND	0.0032	ND	0.0032	0.040	0.0032

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-46	M011906-47	M011906-48	M011906-49				
Client Sample I.D.:	GEW 145	GEW 218	GEW 102	GEW 179				
Date/Time Sampled:	1/13/21 15:16	1/13/21 15:26	1/13/21 15:40	1/13/21 15:50				
Date/Time Analyzed:	1/22/21 16:08	1/22/21 16:22	1/22/21 16:37	1/22/21 16:51				
QC Batch No.:	210122GC8A2	210122GC8A2	210122GC8A2	210122GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.3	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	18	3.3	15	3.2	13	3.2	ND d	0.032
Carbon Dioxide	41	0.033	46	0.032	27	0.032	51	0.032
Oxygen/Argon	2.3	1.6	ND	1.6	9.2	1.6	ND	1.6
Nitrogen	8.3	3.3	6.6	3.2	32	3.2	ND	3.2
Methane	28	0.0033	31	0.0032	17	0.0032	46	0.0032
Carbon Monoxide	0.0066	0.0033	0.027	0.0032	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 1/25/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-50	M011906-51	M011906-52	M011906-53
Client Sample I.D.:	GEW 220	GEW 180	GEW 101	GEW 221
Date/Time Sampled:	1/13/21 16:01	1/13/21 16:57	1/14/21 13:59	1/14/21 14:09
Date/Time Analyzed:	1/22/21 17:06	1/22/21 17:20	1/22/21 17:35	1/22/21 17:49
QC Batch No.:	210122GC8A2	210122GC8A2	210122GC8A2	210122GC8A2
Analyst Initials:	CM	CM	CM	CM
Dilution Factor:	3.2	3.2	3.2	3.2

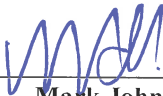
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	29	3.2	ND d	0.032	ND d	0.032	24	3.2
Carbon Dioxide	48	0.032	54	0.032	59	0.032	53	0.032
Oxygen/Argon	ND	1.6	1.8	1.6	ND	1.6	ND	1.6
Nitrogen	ND	3.2	6.3	3.2	5.9	3.2	ND	3.2
Methane	20	0.0032	38	0.0032	33	0.0032	20	0.0032
Carbon Monoxide	0.043	0.0032	ND	0.0032	ND	0.0032	0.035	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-54	M011906-55	M011906-56	M011906-57				
Client Sample I.D.:	GEW 68A	GEW 144	GIW 1	GIW 2				
Date/Time Sampled:	1/14/21 14:20	1/14/21 14:31	1/6/21 8:47	1/6/21 8:58				
Date/Time Analyzed:	1/22/21 18:04	1/22/21 18:18	1/22/21 18:33	1/22/21 18:47				
QC Batch No.:	210122GC8A2	210122GC8A2	210122GC8A2	210122GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.1	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	25	3.2	0.23 d	0.031	9.1	3.0	15	3.0
Carbon Dioxide	47	0.032	37	0.031	53	0.030	55	0.030
Oxygen/Argon	ND	1.6	5.3	1.5	ND	1.5	1.6	1.5
Nitrogen	ND	3.2	19	3.1	6.1	3.0	16	3.0
Methane	24	0.0032	39	0.0031	31	0.0030	13	0.0030
Carbon Monoxide	0.062	0.0032	ND	0.0031	0.024	0.0030	0.049	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-58	M011906-59	M011906-60	M011906-61				
Client Sample I.D.:	GIW 3	GIW 4	GIW 5	GIW 6				
Date/Time Sampled:	1/6/21 9:08	1/6/21 9:18	1/6/21 9:30	1/6/21 9:41				
Date/Time Analyzed:	1/22/21 20:58	1/22/21 21:12	1/22/21 21:27	1/22/21 21:41				
QC Batch No.:	210122GC8A3	210122GC8A3	210122GC8A3	210122GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	12	3.0	22	3.0	9.8	3.0	3.5 d	0.030
Carbon Dioxide	43	0.030	43	0.030	37	0.030	37	0.030
Oxygen/Argon	1.7	1.5	1.9	1.5	1.8	1.5	2.1	1.5
Nitrogen	20	3.0	8.7	3.0	18	3.0	22	3.0
Methane	23	0.0030	25	0.0030	33	0.0030	36	0.0030
Carbon Monoxide	0.029	0.0030	0.040	0.0030	0.010	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-62	M011906-63	M011906-64	M011906-65				
Client Sample I.D.:	GIW 7	GIW 8	GIW 9	GIW 10				
Date/Time Sampled:	1/6/21 9:52	1/6/21 10:18	1/6/21 10:26	1/6/21 10:46				
Date/Time Analyzed:	1/22/21 21:56	1/22/21 22:10	1/22/21 22:25	1/22/21 22:39				
QC Batch No.:	210122GC8A3	210122GC8A3	210122GC8A3	210122GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.030	ND d	0.030	8.2	3.0	7.1	3.0
Carbon Dioxide	45	0.030	42	0.030	39	0.030	32	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	5.0	3.0	9.2	3.0	16	3.0	30	3.0
Methane	49	0.0030	48	0.0030	35	0.0030	30	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	0.0061	0.0030	0.0078	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2

Reviewed/Approved By: _____

 Mark Johnson
 Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-66	M011906-67	M011906-68	M011906-69				
Client Sample I.D.:	GIW 11	GIW 12	GIW 13	GEW 110				
Date/Time Sampled:	1/6/21 10:56	1/6/21 11:06	1/6/21 11:15	1/6/21 11:23				
Date/Time Analyzed:	1/22/21 22:54	1/22/21 23:08	1/22/21 23:23	1/22/21 23:38				
QC Batch No.:	210122GC8A3	210122GC8A3	210122GC8A3	210122GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	2.1 d	0.030	2.6 d	0.030	4.1 d	0.030	3.7 d	0.030
Carbon Dioxide	30	0.030	35	0.030	45	0.030	44	0.030
Oxygen/Argon	2.5	1.5	2.0	1.5	ND	1.5	ND	1.5
Nitrogen	39	3.0	26	3.0	6.8	3.0	4.8	3.0
Methane	27	0.0030	34	0.0030	43	0.0030	47	0.0030
Carbon Monoxide	0.014	0.0030	0.0052	0.0030	0.0042	0.0030	0.0039	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A2, 210125GC8A3

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-70	M011906-71	M011906-72	M011906-73				
Client Sample I.D.:	GEW 10	GEW 56R	GEW 39	GEW 109				
Date/Time Sampled:	1/6/21 11:33	1/6/21 11:42	1/6/21 13:47	1/6/21 13:58				
Date/Time Analyzed:	1/22/21 23:52	1/23/21 0:06	1/23/21 0:21	1/23/21 0:35				
QC Batch No.:	210122GC8A3	210122GC8A3	210122GC8A3	210122GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.1	3.1				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	0.057 d	0.030	2.8 d	0.030	ND d	0.031	0.25 d	0.031
Carbon Dioxide	41	0.030	41	0.030	35	0.031	39	0.031
Oxygen/Argon	ND	1.5	ND	1.5	2.3	1.5	2.3	1.5
Nitrogen	4.9	3.0	9.0	3.0	28	3.1	12	3.1
Methane	53	0.0030	46	0.0030	35	0.0031	46	0.0031
Carbon Monoxide	ND	0.0030	0.0031	0.0030	ND	0.0031	ND	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/22/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-74	M011906-75	M011906-76	M011906-77				
Client Sample I.D.:	GEW 108	GEW 187	GEW 162	GEW 161				
Date/Time Sampled:	1/6/21 14:09	1/6/21 14:19	1/6/21 14:31	1/6/21 14:45				
Date/Time Analyzed:	1/23/21 0:50	1/23/21 1:04	1/23/21 1:19	1/23/21 1:33				
QC Batch No.:	210122GC8A3	210122GC8A3	210122GC8A3	210122GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.0	3.0	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	12	3.1	1.2 d	0.030	13	3.0	31	3.0
Carbon Dioxide	43	0.031	49	0.030	59	0.030	46	0.030
Oxygen/Argon	ND	1.5	ND	1.5	1.5	1.5	1.9	1.5
Nitrogen	3.7	3.1	5.0	3.0	7.0	3.0	9.2	3.0
Methane	40	0.0031	43	0.0030	19	0.0030	12	0.0030
Carbon Monoxide	0.015	0.0031	ND	0.0030	0.036	0.0030	0.061	0.0030

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-78	M011906-79	M011906-80	M011906-81				
Client Sample I.D.:	GEW 160	GEW 91	GEW 90	GEW 239				
Date/Time Sampled:	1/6/21 14:54	1/6/21 15:05	1/7/21 9:05	1/7/21 9:15				
Date/Time Analyzed:	1/23/21 3:58	1/23/21 4:13	1/23/21 4:27	1/23/21 4:42				
QC Batch No.:	210123GC8A1	210123GC8A1	210123GC8A1	210123GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.1	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	10.0	3.0	41	3.1	19	3.0	46	3.0
Carbon Dioxide	34	0.030	44	0.031	36	0.030	47	0.030
Oxygen/Argon	2.2	1.5	2.6	1.5	2.0	1.5	ND	1.5
Nitrogen	24	3.0	9.1	3.1	18	3.0	3.5	3.0
Methane	29	0.0030	2.3	0.0031	25	0.0030	1.4	0.0030
Carbon Monoxide	0.014	0.0030	0.027	0.0031	0.027	0.0030	0.080	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	M011906-82	M011906-83	M011906-84	M011906-85				
Client Sample I.D.:	GEW 149	GEW 13A	GEW 88	GEW 251				
Date/Time Sampled:	1/7/21 9:34	1/7/21 9:46	1/7/21 9:58	1/7/21 10:09				
Date/Time Analyzed:	1/23/21 11:49	1/23/21 10:58	1/23/21 11:13	1/23/21 12:04				
QC Batch No.:	210123GC8A2	210123GC8A2	210123GC8A2	210123GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.030	25	3.0	49	3.0	30	3.0
Carbon Dioxide	14	0.030	62	0.030	43	0.030	47	0.030
Oxygen/Argon	6.6	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	76	3.0	5.0	3.0	5.3	3.0	15	3.0
Methane	3.2	0.0030	5.6	0.0030	1.7	0.0030	5.8	0.0030
Carbon Monoxide	ND	0.0030	0.059	0.0030	0.081	0.0030	0.044	0.0030

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A3

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-86	M011906-87	M011906-88	M011906-89				
Client Sample I.D.:	GEW 67A	GEW 246	GEW 15	GEW 148				
Date/Time Sampled:	1/7/21 10:21	1/7/21 10:49	1/7/21 11:01	1/7/21 14:08				
Date/Time Analyzed:	1/23/21 12:35	1/23/21 12:49	1/23/21 13:04	1/23/21 13:18				
QC Batch No.:	210123GC8A2	210123GC8A2	210123GC8A2	210123GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	34	3.0	23	3.0	16	3.0	21	3.0
Carbon Dioxide	45	0.030	54	0.030	45	0.030	45	0.030
Oxygen/Argon	1.8	1.5	ND	1.5	1.6	1.5	2.3	1.5
Nitrogen	11	3.0	4.6	3.0	12	3.0	8.0	3.0
Methane	7.2	0.0030	17	0.0030	26	0.0030	24	0.0030
Carbon Monoxide	0.036	0.0030	0.056	0.0030	0.027	0.0030	0.061	0.0030

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-90	M011906-91	M011906-92	M011906-93				
Client Sample I.D.:	GEW 87	GEW232	GEW 113	GEW 238				
Date/Time Sampled:	1/7/21 14:15	1/7/21 14:21	1/7/21 14:47	1/7/21 14:57				
Date/Time Analyzed:	1/23/21 13:33	1/23/21 13:47	1/23/21 14:02	1/23/21 14:16				
QC Batch No.:	210123GC8A2	210123GC8A2	210123GC8A2	210123GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	2.9	3.0	2.9				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	20	3.0	10.0	2.9	19	3.0	22	2.9
Carbon Dioxide	48	0.030	55	0.029	56	0.030	56	0.029
Oxygen/Argon	2.7	1.5	ND	1.4	1.9	1.5	1.5	1.4
Nitrogen	20	3.0	8.7	2.9	10	3.0	9.4	2.9
Methane	8.7	0.0030	25	0.0029	12	0.0030	11	0.0029
Carbon Monoxide	0.041	0.0030	0.022	0.0029	0.045	0.0030	0.052	0.0029

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: *Mark Johnson*
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-94	M011906-96	M011906-97	M011906-98				
Client Sample I.D.:	GEW 16R	GEW 228	GEW 229	GEW 137				
Date/Time Sampled:	1/7/21 15:07	1/8/21 9:51	1/8/21 10:03	1/8/21 10:40				
Date/Time Analyzed:	1/23/21 14:31	1/23/21 14:59	1/23/21 15:14	1/23/21 15:29				
QC Batch No.:	210123GC8A2	210123GC8A2	210123GC8A2	210123GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.9	2.9	2.9				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	25	2.9	2.7 d	0.029	0.61 d	0.029	ND d	0.029
Carbon Dioxide	50	0.029	9.0	0.029	13	0.029	41	0.029
Oxygen/Argon	ND	1.4	15	1.4	8.1	1.4	1.8	1.4
Nitrogen	14	2.9	71	2.9	77	2.9	16	2.9
Methane	9.6	0.0029	1.9	0.0029	1.4	0.0029	41	0.0029
Carbon Monoxide	0.051	0.0029	0.0039	0.0029	ND	0.0029	ND	0.0029

Results normalized including non-methane hydrocarbons

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d = Analyzed by secondary analysis, batch 210125GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report




Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-103	M011906-104	M011906-105	M011906-106				
Client Sample I.D.:	GEW 233	GEW 134	GEW 18B	GEW 250				
Date/Time Sampled:	1/8/21 14:08	1/8/21 14:22	1/8/21 14:37	1/8/21 14:51				
Date/Time Analyzed:	1/23/21 18:37	1/23/21 18:51	1/23/21 19:06	1/23/21 19:20				
QC Batch No.:	210123GC8A3	210123GC8A3	210123GC8A3	210123GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.8	3.0	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	17	2.9	14	2.8	39	3.0	9.1	2.8
Carbon Dioxide	27	0.029	34	0.028	45	0.030	20	0.028
Oxygen/Argon	7.3	1.4	3.4	1.4	3.0	1.5	10	1.4
Nitrogen	46	2.9	38	2.8	11	3.0	59	2.8
Methane	2.2	0.0029	9.9	0.0028	1.4	0.0030	0.65	0.0028
Carbon Monoxide	0.039	0.0029	0.030	0.0028	0.046	0.0030	0.015	0.0028

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-107	M011906-108	M011906-109	M011906-110				
Client Sample I.D.:	GEW 116	GEW 133	GEW 82R	GEW 132				
Date/Time Sampled:	1/8/21 15:03	1/8/21 15:14	1/11/21 9:18	1/11/21 9:34				
Date/Time Analyzed:	1/23/21 19:35	1/23/21 19:49	1/23/21 20:04	1/23/21 20:18				
QC Batch No.:	210123GC8A3	210123GC8A3	210123GC8A3	210123GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	1.2 d	0.029	14	2.8	20	2.8	14	2.8
Carbon Dioxide	59	0.029	40	0.028	28	0.028	34	0.028
Oxygen/Argon	ND	1.4	2.1	1.4	4.5	1.4	1.7	1.4
Nitrogen	4.4	2.9	33	2.8	37	2.8	29	2.8
Methane	33	0.0029	11	0.0028	10	0.0028	20	0.0028
Carbon Monoxide	0.0040	0.0029	0.041	0.0028	0.044	0.0028	0.044	0.0028

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-111	M011906-112	M011906-113	M011906-114				
Client Sample I.D.:	GEW 234	GEW 118	GEW 120	GEW 19A				
Date/Time Sampled:	1/11/21 9:44	1/11/21 9:55	1/11/21 10:17	1/11/21 10:44				
Date/Time Analyzed:	1/23/21 22:29	1/23/21 22:43	1/23/21 22:58	1/23/21 23:12				
QC Batch No.:	210123GC8A4	210123GC8A4	210123GC8A4	210123GC8A4				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.8	2.9	2.9				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	23	2.9	38	2.8	0.11 d	0.029	21	2.9
Carbon Dioxide	43	0.029	53	0.028	42	0.029	55	0.029
Oxygen/Argon	ND	1.4	ND	1.4	2.3	1.4	5.0	1.4
Nitrogen	21	2.9	4.8	2.8	16	2.9	18	2.9
Methane	11	0.0029	2.2	0.0028	39	0.0029	1.4	0.0029
Carbon Monoxide	0.062	0.0029	0.052	0.0028	ND	0.0029	0.073	0.0029

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

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Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-115	M011906-116	M011906-117	M011906-118				
Client Sample I.D.:	GEW 185	GEW 117	GEW 121	GEW 235				
Date/Time Sampled:	1/11/21 11:01	1/11/21 10:34	1/11/21 11:10	1/11/21 11:19				
Date/Time Analyzed:	1/23/21 23:27	1/23/21 23:41	1/23/21 23:56	1/24/21 0:10				
QC Batch No.:	210123GC8A4	210123GC8A4	210123GC8A4	210123GC8A4				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.9	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.029	1.0 d	0.029	3.3 d	0.028	11	2.8
Carbon Dioxide	50	0.029	47	0.029	47	0.028	48	0.028
Oxygen/Argon	ND	1.4	2.6	1.4	1.4	1.4	1.5	1.4
Nitrogen	13	2.9	18	2.9	11	2.8	12	2.8
Methane	36	0.0029	31	0.0029	37	0.0028	27	0.0028
Carbon Monoxide	ND	0.0029	0.0089	0.0029	0.012	0.0028	0.021	0.0028


Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

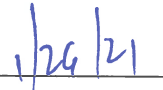
RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A3

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	M011906-119	M011906-120	M011906-121	M011906-122				
Client Sample I.D.:	GEW 122	GEW 163	GEW 123	GEW 165				
Date/Time Sampled:	1/11/21 11:29	1/11/21 14:27	1/11/21 14:37	1/13/21 11:10				
Date/Time Analyzed:	1/24/21 0:24	1/24/21 0:39	1/24/21 0:54	1/24/21 1:08				
QC Batch No.:	210123GC8A4	210123GC8A4	210123GC8A4	210123GC8A4				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	8.5	2.8	0.16 d	0.028	0.63 d	0.028	6.6	3.2
Carbon Dioxide	33	0.028	39	0.028	54	0.028	50	0.032
Oxygen/Argon	3.3	1.4	4.0	1.4	ND	1.4	3.6	1.6
Nitrogen	16	2.8	33	2.8	11	2.8	15	3.2
Methane	39	0.0028	24	0.0028	33	0.0028	24	0.0032
Carbon Monoxide	0.024	0.0028	ND	0.0028	0.0085	0.0028	0.016	0.0032

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-123	M011906-124	M011906-125	M011906-126				
Client Sample I.D.:	GEW 166	GEW 244	GEW 125	GEW 168				
Date/Time Sampled:	1/13/21 11:23	1/13/21 13:52	1/13/21 14:01	1/13/21 14:12				
Date/Time Analyzed:	1/24/21 1:23	1/24/21 1:37	1/24/21 1:51	1/24/21 2:06				
QC Batch No.:	210123GC8A4	210123GC8A4	210123GC8A4	210123GC8A4				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	35	3.2	14	3.2	ND d	0.032	0.11 d	0.032
Carbon Dioxide	57	0.032	56	0.032	45	0.032	48	0.032
Oxygen/Argon	ND	1.6	ND	1.6	1.8	1.6	ND	1.6
Nitrogen	3.6	3.2	4.7	3.2	6.1	3.2	4.9	3.2
Methane	2.4	0.0032	23	0.0032	47	0.0032	45	0.0032
Carbon Monoxide	0.20	0.0032	0.040	0.0032	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A3, 210125GC8A4

Reviewed/Approved By: Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-127	M011906-128	M011906-129	M011906-130				
Client Sample I.D.:	GEW 243	GEW 126	GEW 167	GEW 131				
Date/Time Sampled:	1/13/21 14:25	1/13/21 14:37	1/13/21 15:00	1/13/21 15:11				
Date/Time Analyzed:	1/24/21 2:20	1/24/21 2:35	1/24/21 2:49	1/24/21 3:04				
QC Batch No.:	210123GGC8A4	210123GGC8A4	210123GGC8A4	210123GGC8A4				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	10	3.2	7.5	3.2	37	3.2	11	3.2
Carbon Dioxide	66	0.032	54	0.032	47	0.032	41	0.032
Oxygen/Argon	ND	1.6	3.7	1.6	ND	1.6	ND	1.6
Nitrogen	3.3	3.2	13	3.2	5.6	3.2	5.3	3.2
Methane	19	0.0032	21	0.0032	9.0	0.0032	41	0.0032
Carbon Monoxide	0.056	0.0032	0.055	0.0032	0.14	0.0032	0.034	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-131	M011906-132	M011906-133	M011906-134				
Client Sample I.D.:	GEW 169	GEW 127	GEW 186	GEW 170				
Date/Time Sampled:	1/13/21 15:23	1/14/21 9:11	1/14/21 9:22	1/14/21 9:31				
Date/Time Analyzed:	1/24/21 10:01	1/24/21 10:15	1/24/21 10:30	1/24/21 10:44				
QC Batch No.:	210124GC8A1	210124GC8A1	210124GC8A1	210124GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.1	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	9.7	3.2	3.9 d	0.031	0.27 d	0.032	11	3.2
Carbon Dioxide	53	0.032	28	0.031	45	0.032	33	0.032
Oxygen/Argon	ND	1.6	11	1.5	2.7	1.6	6.6	1.6
Nitrogen	3.6	3.2	43	3.1	15	3.2	37	3.2
Methane	33	0.0032	15	0.0031	37	0.0032	12	0.0032
Carbon Monoxide	0.040	0.0032	0.020	0.0031	ND	0.0032	0.045	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A4

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-135	M011906-136	M011906-137	M011906-138				
Client Sample I.D.:	GEW 129	GEW 177	GEW 130	GEW 224				
Date/Time Sampled:	1/14/21 9:46	1/14/21 10:01	1/14/21 10:26	1/14/21 10:38				
Date/Time Analyzed:	1/24/21 10:59	1/24/21 11:13	1/24/21 11:28	1/24/21 11:42				
QC Batch No.:	210124GC8A1	210124GC8A1	210124GC8A1	210124GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	0.99 d	0.032	13	3.2	14	3.2	2.3 d	0.032
Carbon Dioxide	52	0.032	41	0.032	38	0.032	52	0.032
Oxygen/Argon	ND	1.6	4.3	1.6	2.9	1.6	2.7	1.6
Nitrogen	7.9	3.2	27	3.2	20	3.2	9.7	3.2
Methane	37	0.0032	14	0.0032	25	0.0032	33	0.0032
Carbon Monoxide	0.0072	0.0032	0.071	0.0032	0.059	0.0032	0.020	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A4

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date 1/26/21

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	M011906-139	M011906-140	M011906-141	M011906-142				
Client Sample I.D.:	GEW 225	GEW 172	GEW 223	GEW 222				
Date/Time Sampled:	1/14/21 10:47	1/14/21 11:21	1/14/21 11:31	1/14/21 14:04				
Date/Time Analyzed:	1/24/21 11:57	1/24/21 12:11	1/24/21 12:26	1/24/21 12:40				
QC Batch No.:	210124GC8A1	210124GC8A1	210124GC8A1	210124GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	17	3.2	25	3.2	1.3 d	0.032	2.0 d	0.032
Carbon Dioxide	42	0.032	46	0.032	60	0.032	39	0.032
Oxygen/Argon	2.6	1.6	3.3	1.6	2.3	1.6	2.7	1.6
Nitrogen	9.6	3.2	11	3.2	8.0	3.2	9.3	3.2
Methane	29	0.0032	14	0.0032	28	0.0032	47	0.0032
Carbon Monoxide	0.040	0.0032	0.095	0.0032	0.021	0.0032	0.0058	0.0032

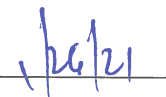
Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A4

Reviewed/Approved By:

 Mark Johnson
 Operations Manager

Date


The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/19/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

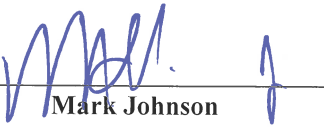
Lab No.:	M011906-143	M011906-144	M011906-145	M011906-146				
Client Sample I.D.:	GEW 171	GEW 100	GEW 181	GEW 139				
Date/Time Sampled:	1/14/21 14:15	1/14/21 14:25	1/14/21 14:36	1/15/21 8:44				
Date/Time Analyzed:	1/24/21 12:55	1/24/21 13:09	1/24/21 13:24	1/24/21 13:38				
QC Batch No.:	210124GC8A1	210124GC8A1	210124GC8A1	210124GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	1.6 d	0.032	20	3.2	ND d	0.032	36	3.0
Carbon Dioxide	43	0.032	54	0.032	61	0.032	47	0.030
Oxygen/Argon	6.2	1.6	2.7	1.6	2.9	1.6	2.0	1.5
Nitrogen	25	3.2	9.2	3.2	10	3.2	6.6	3.0
Methane	24	0.0032	14	0.0032	26	0.0032	8.5	0.0030
Carbon Monoxide	0.0085	0.0032	0.026	0.0032	ND	0.0032	0.13	0.0030

Results normalized including non-methane hydrocarbons

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d = Analyzed by secondary analysis, batch 210125GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 
 1/26/21

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v


ASTM D1946

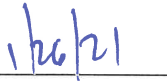
Lab No.:	M011906-147	M011906-148	M011906-149	M011906-150
Client Sample I.D.:	GEW 226	GEW 140	GEW 174	GEW 240
Date/Time Sampled:	1/15/21 8:54	1/15/21 9:15	1/15/21 9:30	1/15/21 10:05
Date/Time Analyzed:	1/24/21 13:53	1/24/21 14:07	1/24/21 14:22	1/24/21 14:36
QC Batch No.:	210124GC8A1	210124GC8A1	210124GC8A1	210124GC8A1
Analyst Initials:	CM	CM	CM	CM
Dilution Factor:	3.0	3.0	3.0	3.0

ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	15	3.0	28	3.0	33	3.0	15	3.0
Carbon Dioxide	45	0.030	46	0.030	37	0.030	33	0.030
Oxygen/Argon	ND	1.5	ND	1.5	5.6	1.5	ND	1.5
Nitrogen	ND	3.0	ND	3.0	20	3.0	29	3.0
Methane	37	0.0030	23	0.0030	4.5	0.0030	21	0.0030
Carbon Monoxide	0.051	0.0030	0.065	0.0030	0.080	0.0030	0.027	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 01/19/21
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	M011906-155	M011906-156	M011906-157					
Client Sample I.D.:	GEW 164	GEW 124	GEW 245					
Date/Time Sampled:	1/11/21 14:47	1/11/21 14:59	1/11/21 15:09					
Date/Time Analyzed:	1/24/21 17:30	1/24/21 17:45	1/24/21 18:00					
QC Batch No.:	210124GC8A2	210124GC8A2	210124GC8A2					
Analyst Initials:	CM	CM	CM					
Dilution Factor:	3.0	3.0	3.0					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v		
Hydrogen	ND d	0.030	ND d	0.030	11	3.0		
Carbon Dioxide	50	0.030	25	0.030	63	0.030		
Oxygen/Argon	ND	1.5	9.0	1.5	ND	1.5		
Nitrogen	12	3.0	31	3.0	3.8	3.0		
Methane	36	0.0030	34	0.0030	21	0.0030		
Carbon Monoxide	ND	0.0030	ND	0.0030	0.076	0.0030		

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch 210125GC8A4

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/26/21

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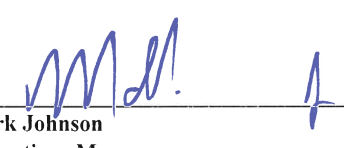
QC Batch No: 210121GC8A1
Matrix: Air
Reporting Units: % v/v

ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/21/21 8:02			1/21/21 8:16		1/21/21 8:31					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.82	96	4.79	96	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.43	94	9.43	94	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.6	106	15.6	106	0.0	70	130	30
Nitrogen	ND	1.0	70	69.6	100	69.7	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.0965	96	0.0960	96	0.5	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0849	85	0.0848	85	0.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report



QC Batch No: 210121GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/21/21 16:59			1/21/21 17:14		1/21/21 17:28					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.64	93	4.64	93	0.0	70	130	30
Carbon Dioxide	ND	0.010	10	9.63	96	9.49	95	1.5	70	130	30
Oxygen/Argon	ND	0.50	15	15.7	106	15.7	106	0.1	70	130	30
Nitrogen	ND	1.0	70	70.1	100	70.1	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.0984	98	0.0992	99	0.9	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0848	85	0.0855	85	0.7	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____

Mark Johnson
 Mark Johnson
 Operations Manager

Date: _____

1/26/21

The cover letter is an integral part of this analytical report



QC Batch No: 210122GC8A3
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/22/21 19:45			1/22/21 20:29		1/22/21 20:43					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.41	108	5.43	109	0.4	70	130	30
Carbon Dioxide	ND	0.010	10	9.76	97	9.74	97	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.2	70	130	30
Nitrogen	ND	1.0	70	69.2	99	69.3	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0901	90	0.0900	90	0.1	70	130	30

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: *Mark Johnson*
 Mark Johnson
 Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report

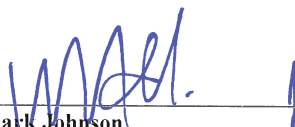


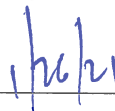
QC Batch No: 210123GC8A1
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/23/21 2:46			1/23/21 3:29		1/23/21 3:43					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.18	104	5.13	103	0.9	70	130	30
Carbon Dioxide	ND	0.010	10	9.55	95	9.53	95	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.2	70	130	30
Nitrogen	ND	1.0	70	68.9	98	69.0	99	0.2	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.0	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0909	91	0.0911	91	0.3	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By:  _____
Mark Johnson
Operations Manager

Date:  _____

The cover letter is an integral part of this analytical report



QC Batch No: 210123GC8A2

Matrix: Air

Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/23/21 6:09			1/23/21 6:52		1/23/21 7:06					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.98	100	5.00	100	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.44	94	9.45	94	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.1	70	130	30
Nitrogen	ND	1.0	70	68.9	98	68.9	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0919	92	0.0918	92	0.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____
↓
Mark Johnson
 Operations Manager

Date: _____
↓
 1/26/21

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QC Batch No: 210123GC8A3
Matrix: Air
Reporting Units: % v/v

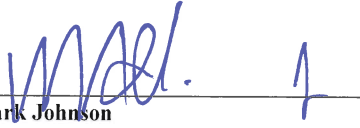
ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		1/23/21 17:24		1/23/21 17:53		1/23/21 18:08					
Analyst Initials:		CM		CM		CM					
Dilution Factor:		1.0		1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.60	112	5.54	111	1.1	70	130	30
Carbon Dioxide	ND	0.010	10	9.75	97	9.73	97	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.2	103	0.2	70	130	30
Nitrogen	ND	1.0	70	68.6	98	68.4	98	0.2	70	130	30
Methane	ND	0.0010	0.10	0.0985	98	0.0981	98	0.3	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0966	97	0.0967	97	0.0	70	130	30

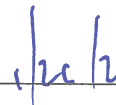
ND = Not Detected (below RL)

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Reviewed/Approved By: _____


Mark Johnson
Operations Manager

Date _____



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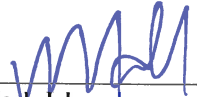


QC Batch No: 210123GC8A4
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		1/23/21 21:31		1/23/21 22:00		1/23/21 22:14					
Analyst Initials:		CM		CM		CM					
Dilution Factor:		1.0		1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.43	109	5.46	109	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.63	96	9.63	96	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.3	103	0.2	70	130	30
Nitrogen	ND	1.0	70	68.4	98	68.5	98	0.2	70	130	30
Methane	ND	0.0010	0.10	0.0981	98	0.0977	98	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0976	98	0.0976	98	0.0	70	130	30

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By:  Date: 1/26/21
 Mark Johnson
 Operations Manager

The cover letter is an integral part of this analytical report



QC Batch No: 210124GC8A1
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/24/21 4:16			1/24/21 4:45		1/24/21 4:59					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result	RL	SPIKE AMT. % v/v	Result	% Rec.	Result	% Rec.	RPD %	Low	High	Max. RPD
	% v/v	% v/v		% v/v		% Rec.			% v/v	% Rec.	
Hydrogen	ND	1.0	5.0	5.25	105	5.27	105	0.3	70	130	30
Carbon Dioxide	ND	0.010	10	9.49	95	9.49	95	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.3	103	0.2	70	130	30
Nitrogen	ND	1.0	70	68.3	98	68.3	98	0.0	70	130	30
Methane	ND	0.0010	0.10	0.0985	99	0.0981	98	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0982	98	0.0982	98	0.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

[Signature]
 Mark Johnson
 Operations Manager

Date

[Signature]

The cover letter is an integral part of this analytical report



QC Batch No: 210124GC8A2
 Matrix: Air
 Reporting Units: % v/v

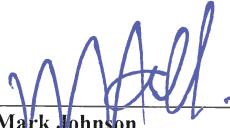
**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		1/24/21 15:34		1/24/21 16:03		1/24/21 16:18					
Analyst Initials:		CM		CM		CM					
Dilution Factor:		1.0		1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.21	104	5.17	103	0.8	70	130	30
Carbon Dioxide	ND	0.010	10	9.61	96	9.58	96	0.4	70	130	30
Oxygen/Argon	ND	0.50	15	15.5	104	15.4	104	0.1	70	130	30
Nitrogen	ND	1.0	70	69.2	99	69.1	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.0975	97	0.0971	97	0.5	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0954	95	0.0952	95	0.2	70	130	30

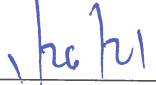
ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



The cover letter is an integral part of this analytical report



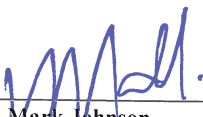
QC Batch No: 210125GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946 Low Level Hydrogen
 LABORATORY CONTROL SAMPLE SUMMARY**

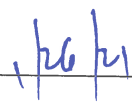
Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/25/21 12:06			1/25/21 11:57		1/25/21 12:01					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	0.866	87	0.865	87	0.2	70	130	30

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date _____



The cover letter is an integral part of this analytical report



QC Batch No: 210125GC8A3
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946 Low Level Hydrogen
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/25/21 14:02			1/25/21 13:52		1/25/21 13:57					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0					
									Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	0.857	86	0.857	86	0.0	70	130	30

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: Mark Johnson *M.J.* 1/26/21 Date 1/26/21
 Mark Johnson
 Operations Manager

The cover letter is an integral part of this analytical report

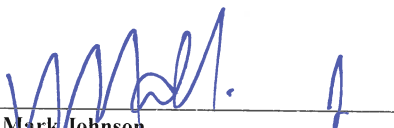


QC Batch No: 210125GC8A4
Matrix: Air
Reporting Units: % v/v

**ASTM D1946 Low Level Hydrogen
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS	LCSD							
Date Analyzed:	1/25/21 15:58		1/25/21 15:48	1/25/21 15:53							
Analyst Initials:	CM		CM	CM							
Dilution Factor:	1.0		1.0	1.0							
					Limits						
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	0.848	85	0.848	85	0.0	70	130	30

ND = Not Detected (below RL)
RL = Reporting Limit

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 1/26/21

The cover letter is an integral part of this analytical report





February 1, 2021

Republic Services
ATTN: Mike Lambrich
13570 St. Charles Rock Rd.
Bridgeton, MO 63044



LA Cert #04140
EPA Methods TO3, TO14A, TO15, 25C/3C,
RSK-175

TX Cert T104704450-14-6
EPA Methods TO14A, TO15

UT Cert CA0133332015-3
EPA Methods TO3, TO14A, TO15, RSK-175

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: M012701-01/02

Enclosed are results for sample(s) received 1/27/21 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNi Standards.
- The enclosed results relate only to the sample(s).

Preliminary results were e-mailed to Mike Lambrich, Erin Fanning and Anthony Kimutis; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor and Dan Feezor, Feezor Engineering on 1/29/21.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink, appearing to read "MJohnson-1".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

Note: The cover letter is an integral part of this analytical report.



18501 E. Gale Ave., Suite 130
City of Industry, CA 91748
Ph: 626-964-4032
Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 1 OF 1
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: 5 Day		Level 4 <input type="checkbox"/>	

Project No.: _____

Project Name: Bridgeton Landfill

Report To: Mike Lambrich

Company: Republic Services

Street: 13570 St. Charles Rock Rd.

City/State/Zip: Bridgeton , MO 63044

Phone& Fax: 314-683-3921

e-mail: MLambrich@republicservices.com

BILLING	ANALYSIS REQUEST
P.O. No.: P07112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
MO12701-01	R1349	-20.4	-5	GEW 156	1/25/2021	14:16	C	LFG	NA	X						
L -02	R5274	-20.7	-5	GEW 147	1/25/2021	14:29	C	LFG	NA	X						

AUTHORIZATION TO PERFORM WORK: Dave Penoyer **COMPANY:** Republic Services

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** _____

RELINQUISHED BY: <i>Andy Guthrie</i>	DATE/TIME: 1-25-2021	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <i>FedEx</i>	DATE/TIME: 1/26/21 1605	RECEIVED BY: <i>Adam Delgado</i>	DATE/TIME: 1/26/21 1605
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

METHOD OF TRANSPORT (circle one): Walk-In **FedEx** UPS Courier ATLI Other _____

COMMENTS

INITIAL LABS VAC 11/15

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 01/26/21
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	M012701-01	M012701-02						
Client Sample I.D.:	GEW 156	GEW 147						
Date/Time Sampled:	1/25/21 14:16	1/25/21 14:29						
Date/Time Analyzed:	1/29/21 10:04	1/29/21 10:18						
QC Batch No.:	210129GC8A1	210129GC8A1						
Analyst Initials:	CM	CM						
Dilution Factor:	3.2	3.2						
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	21	3.2	20	3.2				
Carbon Dioxide	45	0.032	44	0.032				
Oxygen/Argon	ND	1.6	ND	1.6				
Nitrogen	5.1	3.2	19	3.2				
Methane	28	0.0032	16	0.0032				
Carbon Monoxide	0.037	0.0032	0.036	0.0032				

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 1/29/21

The cover letter is an integral part of this analytical report

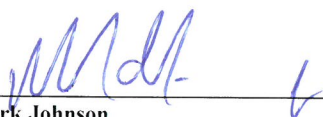


QC Batch No: 210129GC8A1
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946											
LABORATORY CONTROL SAMPLE SUMMARY											

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	1/29/21 9:49			1/29/21 8:50		1/29/21 9:04					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.59	112	5.60	112	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	9.98	100	9.68	97	3.1	70	130	30
Oxygen/Argon	ND	0.50	15	14.9	101	15.3	104	2.7	70	130	30
Nitrogen	ND	1.0	70	67.8	97	69.2	99	2.1	70	130	30
Methane	ND	0.0010	0.10	0.101	101	0.0979	98	3.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0894	89	0.0870	87	2.7	70	130	30

ND = Not Detected (below RL)
 RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 1/29/21

The cover letter is an integral part of this analytical report



ATTACHMENT D

GAS WELLFIELD DATA

ATTACHMENT D-1

WELLFIELD DATA TABLE

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-002	1/5/2021 9:36:01 AM	52.1	38.3	0.0	9.6	109.0	109.0	21.03	21.40	-0.80	-0.78	-14.81
GEW-002	1/12/2021 9:03:29 AM	52.2	39.1	0.0	8.7	108.0	108.0	22.11	24.31	-0.88	-0.88	-14.24
GEW-002	1/12/2021 9:09:27 AM	52.5	39.4	0.0	8.1	108.2	108.2	31.31	32.02	-0.94	-0.93	-14.45
GEW-002	1/20/2021 9:04:55 AM	51.4	39.0	0.0	9.6	107.8	107.8	32.31	32.31	-0.83	-0.83	-14.95
GEW-002	1/26/2021 11:32:43 AM	54.3	40.4	0.0	5.3	108.7	108.7	18.31	18.05	-1.12	-1.10	-14.53
GEW-003	1/5/2021 9:46:19 AM	53.7	42.9	0.0	3.4	64.2	64.2	3.99	6.31	-0.42	-0.42	-13.83
GEW-003	1/12/2021 9:13:52 AM	55.6	42.7	0.0	1.7	78.3	78.4	19.45	19.45	-0.30	-0.30	-13.69
GEW-003	1/12/2021 9:20:15 AM	55.7	43.1	0.0	1.2	80.0	79.6	14.94	15.20	-0.35	-0.32	-13.69
GEW-003	1/20/2021 9:08:13 AM	55.7	42.6	0.0	1.7	79.1	79.3	9.60	9.60	-0.34	-0.34	-13.77
GEW-003	1/26/2021 10:38:34 AM	56.1	40.0	0.0	3.9	73.2	73.4	6.88	6.82	-1.16	-1.16	-13.73
GEW-004	1/5/2021 9:50:17 AM	52.0	40.5	0.0	7.5	106.0	106.0	7.18	8.58	-0.60	-0.59	-14.50
GEW-004	1/12/2021 9:24:24 AM	52.3	41.3	0.0	6.4	105.1	105.2	17.98	18.19	-0.50	-0.49	-14.53
GEW-004	1/12/2021 9:30:26 AM	52.9	39.9	0.0	7.2	105.2	104.5	18.78	18.97	-0.53	-0.52	-14.15
GEW-004	1/20/2021 9:11:49 AM	52.4	41.1	0.0	6.5	104.8	104.8	18.38	17.77	-0.57	-0.58	-14.15
GEW-004	1/26/2021 10:40:24 AM	52.8	40.5	0.0	6.7	103.8	104.0	8.12	6.06	-1.38	-1.37	-14.57
GEW-005	1/5/2021 10:02:59 AM	54.0	39.4	0.0	6.6	71.7	71.6	28.51	27.57	-0.29	-0.29	-13.89
GEW-005	1/12/2021 9:47:59 AM	55.3	40.1	0.0	4.6	68.4	68.6	16.84	16.36	-0.16	-0.16	-13.77
GEW-005	1/12/2021 9:54:12 AM	55.7	38.8	0.0	5.5	68.4	68.4	14.85	14.58	-0.18	-0.18	-13.90
GEW-005	1/20/2021 9:22:51 AM	52.4	40.4	0.0	7.2	67.0	67.1	11.90	11.22	-0.18	-0.18	-13.98
GEW-005	1/26/2021 10:55:08 AM	51.3	38.2	0.0	10.5	63.8	63.5	3.98	4.87	-0.90	-0.91	-13.90
GEW-006	1/5/2021 10:09:31 AM	53.4	38.5	0.0	8.1	80.2	80.1	29.24	28.58	-0.75	-0.73	-13.89
GEW-006	1/13/2021 8:47:06 AM	56.6	36.7	0.0	6.7	80.0	79.8	24.51	25.13	-0.26	-0.24	-13.44
GEW-006	1/13/2021 8:53:27 AM	55.5	37.2	0.0	7.3	80.0	79.9	24.51	25.58	-0.27	-0.28	-13.82
GEW-006	1/20/2021 9:29:22 AM	52.7	39.1	0.0	8.2	79.2	79.1	22.18	22.18	-0.67	-0.67	-14.03
GEW-006	1/26/2021 11:04:37 AM	51.9	38.6	0.0	9.5	78.0	78.0	19.23	19.34	-1.35	-1.35	-14.57
GEW-007	1/4/2021 9:33:18 AM	56.4	40.6	0.0	3.0	84.2	84.1	9.84	10.92	-6.07	-6.07	-13.83
GEW-007	1/13/2021 9:30:37 AM	55.6	40.5	0.0	3.9	85.4	85.1	31.42	31.06	-5.71	-5.71	-13.94
GEW-007	1/13/2021 9:36:32 AM	55.8	40.3	0.0	3.9	85.7	85.4	12.48	12.48	-5.71	-5.71	-13.73
GEW-007	1/18/2021 9:57:40 AM	55.7	40.8	0.0	3.5	85.6	85.6	9.02	9.02	-6.34	-6.34	-13.69
GEW-007	1/26/2021 9:04:25 AM	55.7	42.1	0.0	2.2	83.6	83.8	12.17	12.17	-6.77	-6.77	-13.94
GEW-008	1/4/2021 9:37:58 AM	53.4	42.7	0.0	3.9	109.2	109.0	13.24	15.05	-0.94	-0.94	-14.20
GEW-008	1/13/2021 9:42:03 AM	54.0	41.6	0.0	4.4	109.0	109.2	17.50	17.29	-0.75	-0.74	-14.24
GEW-008	1/13/2021 9:48:10 AM	54.1	41.7	0.0	4.2	109.2	109.0	15.51	15.51	-0.74	-0.74	-14.24
GEW-008	1/18/2021 10:03:11 AM	53.7	42.1	0.0	4.2	108.2	108.9	14.54	13.50	-1.09	-1.09	-13.77
GEW-008	1/26/2021 9:09:14 AM	53.7	43.1	0.0	3.2	107.9	107.7	12.94	14.78	-1.32	-1.32	-14.32
GEW-009	1/4/2021 9:42:52 AM	49.7	41.5	0.0	8.8	117.3	117.3	8.07	6.59	-0.12	-0.12	-13.95
GEW-009	1/4/2021 9:45:02 AM	49.7	41.0	0.0	9.3	117.1	116.8	15.27	15.33	-0.10	-0.10	-13.89
GEW-009	1/13/2021 9:53:34 AM	52.6	42.2	0.0	5.2	118.4	118.4	24.76	24.07	0.05	0.05	-14.45
GEW-009	1/13/2021 10:00:34 AM	52.7	41.9	0.0	5.4	118.2	118.4	13.15	12.30	0.02	0.03	-14.32
GEW-009	1/14/2021 8:50:32 AM	52.7	40.6	0.0	6.7	119.7	118.3	14.92	15.16	-0.06	-0.06	-13.82
GEW-009	1/18/2021 10:05:37 AM	50.0	41.2	0.0	8.8	118.2	118.4	27.87	27.74	-0.17	-0.17	-13.90

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-009	1/26/2021 9:15:14 AM	46.7	41.4	0.0	11.9	115.3	114.8	7.11	7.11	-0.33	-0.33	-14.07
GEW-009	1/26/2021 9:16:57 AM	46.8	41.8	0.0	11.4	114.0	114.5	11.73	11.73	-0.30	-0.30	-13.94
GEW-010	1/6/2021 11:29:51 AM	56.5	43.5	0.0	0.0	74.4	75.0	3.29	1.16	-5.40	-5.40	-19.92
GEW-010	1/6/2021 11:35:00 AM	56.8	40.8	0.0	2.4	75.0	75.2	3.08	1.16	-5.40	-5.40	-20.13
GEW-010	1/13/2021 9:31:54 AM	56.3	43.7	0.0	0.0	70.5	71.1	2.03	5.11	-5.40	-5.40	-20.04
GEW-010	1/20/2021 9:48:51 AM	56.2	43.8	0.0	0.0	67.7	68.0	3.73	3.91	-5.07	-5.07	-19.66
GEW-010	1/28/2021 10:09:00 AM	52.8	47.2	0.0	0.0	70.7	71.1	73.81	73.75	-5.49	-5.49	-19.49
GEW-010	1/29/2021 8:05:23 AM	58.1	40.2	0.0	1.7	56.2	56.5	2.09	2.09	-5.40	-5.40	-19.83
GEW-013A	1/7/2021 9:42:44 AM	7.5	69.6	0.0	22.9	193.8	194.3	9.99	9.16	-1.54	-1.54	-21.06
GEW-013A	1/7/2021 9:49:46 AM	7.2	70.5	0.0	22.3	194.3	194.3	9.93	9.93	-1.55	-1.55	-21.69
GEW-013A	1/19/2021 8:54:05 AM	8.6	72.2	0.0	19.2	194.5	194.8	12.07	8.77	-2.54	-2.55	-20.93
GEW-013A	1/19/2021 8:55:06 AM	8.8	70.1	0.0	21.1	194.7	194.6	11.12	11.33	-2.48	-2.49	-21.23
GEW-015	1/7/2021 10:57:43 AM	28.9	52.6	0.0	18.5	75.9	75.9	6.17	6.17	-3.50	-3.50	-20.42
GEW-015	1/7/2021 11:03:10 AM	29.0	50.6	0.0	20.4	75.7	75.7	4.21	4.81	-3.48	-3.48	-20.34
GEW-015	1/28/2021 3:00:52 PM	28.5	51.8	0.0	19.7	92.9	92.7	5.88	6.60	-3.33	-3.33	-18.73
GEW-016R	1/7/2021 3:04:05 PM	11.1	57.4	0.0	31.5	122.0	121.8	8.29	7.71	-1.71	-1.72	-20.00
GEW-016R	1/7/2021 3:10:07 PM	11.2	56.8	0.0	32.0	123.2	123.4	9.07	9.26	-1.73	-1.73	-20.00
GEW-016R	1/28/2021 3:04:05 PM	12.6	54.8	0.0	32.6	137.0	137.1	8.55	8.74	-1.50	-1.50	-18.65
GEW-016R	1/28/2021 3:04:57 PM	11.8	56.9	0.0	31.3	137.1	137.1	8.68	8.87	-1.51	-1.51	-18.52
GEW-018B	1/8/2021 2:34:44 PM	1.6	60.3	0.0	38.1	198.6	198.6	44.91	44.85	-0.40	-0.39	-20.93
GEW-018B	1/8/2021 2:40:56 PM	1.7	59.6	0.1	38.6	198.0	197.9	44.73	44.82	-0.44	-0.45	-20.55
GEW-018B	1/19/2021 2:54:05 PM	2.2	58.9	0.2	38.7	196.4	195.0	45.29	44.96	-1.00	-0.99	-19.59
GEW-018B	1/19/2021 2:55:18 PM	2.1	61.3	0.1	36.5	196.4	196.4	44.33	44.93	-1.02	-1.03	-19.71
GEW-019A	1/11/2021 10:41:11 AM	1.7	62.0	4.8	31.5	38.8	38.8	5.56	3.64	-16.21	-16.21	-20.00
GEW-019A	1/11/2021 10:52:02 AM	1.3	64.8	4.9	29.0	38.5	38.5	2.10	3.83	-16.88	-16.88	-20.00
GEW-019A	1/22/2021 10:36:41 AM	1.3	65.5	4.7	28.5	41.1	40.9	2.95	1.21	-17.22	-17.22	-20.47
GEW-039	1/6/2021 1:43:42 PM	36.2	36.5	1.0	26.3	97.4	97.7	10.87	11.85	-0.06	-0.07	-19.37
GEW-039	1/6/2021 1:49:51 PM	36.7	36.0	0.9	26.4	97.9	98.0	36.36	37.75	-0.05	-0.05	-19.45
GEW-039	1/13/2021 9:41:41 AM	41.7	41.4	0.7	16.2	96.4	96.7	6.09	6.08	-0.01	-0.01	-20.13
GEW-039	1/20/2021 9:55:36 AM	37.3	39.0	1.1	22.6	96.5	96.6	25.82	27.21	-0.01	-0.01	-19.96
GEW-039	1/28/2021 9:37:28 AM	26.8	33.7	3.4	36.1	96.2	96.2	3.85	2.72	-0.05	-0.05	-19.53
GEW-040	1/4/2021 10:19:16 AM	61.1	35.8	0.0	3.1	40.7	40.7	5.00	4.08	-0.14	-0.13	-13.53
GEW-040	1/4/2021 10:21:42 AM	61.4	34.8	0.0	3.8	40.3	40.3	5.77	5.77	-0.36	-0.36	-13.34
GEW-040	1/13/2021 11:01:23 AM	54.7	34.2	0.0	11.1	51.1	51.1	11.41	11.05	-0.25	-0.26	-13.98
GEW-040	1/13/2021 11:07:31 AM	55.4	33.0	0.0	11.6	51.3	51.3	11.76	11.76	-0.23	-0.23	-13.98
GEW-040	1/18/2021 10:38:35 AM	52.7	34.8	0.0	12.5	44.6	46.7	2.72	2.72	-0.33	-0.33	-13.65
GEW-040	1/18/2021 10:40:19 AM	53.2	34.2	0.0	12.6	44.9	44.9	4.06	4.06	-0.26	-0.25	-13.73
GEW-040	1/26/2021 9:49:30 AM	57.4	36.1	0.0	6.5	41.2	41.2	8.15	5.76	-0.31	-0.31	-13.73
GEW-041R	1/4/2021 10:31:27 AM	50.6	33.5	0.0	15.9	115.5	115.9	6.02	6.02	-0.02	-0.02	-13.59
GEW-041R	1/12/2021 11:30:50 AM	49.9	34.5	0.0	15.6	59.0	59.0	17.91	17.69	0.03	0.04	-13.98
GEW-041R	1/12/2021 11:41:18 AM	50.0	34.0	0.0	16.0	59.7	58.9	15.76	18.87	-0.01	-0.03	-13.69

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-041R	1/18/2021 10:44:45 AM	53.0	34.2	0.0	12.8	53.7	53.7	2.85	2.70	-0.16	-0.16	-13.73
GEW-041R	1/18/2021 10:46:07 AM	52.9	34.5	0.0	12.6	53.9	53.9	6.36	5.69	-0.14	-0.14	-13.69
GEW-041R	1/26/2021 9:53:27 AM	52.1	34.8	0.0	13.1	48.2	48.4	2.86	2.86	-0.25	-0.24	-13.86
GEW-042R	1/4/2021 11:04:51 AM	55.1	36.6	0.0	8.3	96.1	96.2	13.33	12.76	-3.09	-3.09	-13.65
GEW-042R	1/12/2021 11:21:28 AM	53.7	38.1	0.0	8.2	96.4	96.2	17.81	15.84	-2.95	-2.93	-13.90
GEW-042R	1/12/2021 11:26:58 AM	54.4	36.9	0.0	8.7	96.3	96.5	2.72	2.72	-2.92	-2.92	-13.98
GEW-042R	1/18/2021 10:49:52 AM	55.2	36.6	0.0	8.2	96.5	96.3	9.00	9.00	-3.20	-3.20	-13.65
GEW-042R	1/26/2021 9:57:32 AM	56.7	37.8	0.0	5.5	94.8	94.6	7.19	7.68	-3.41	-3.40	-14.11
GEW-043R	1/4/2021 11:14:11 AM	54.3	39.1	0.0	6.6	113.5	113.0	15.45	11.73	-1.50	-1.50	-14.38
GEW-043R	1/12/2021 11:09:36 AM	53.0	41.3	0.0	5.7	113.2	113.2	21.32	21.49	-1.42	-1.42	-14.28
GEW-043R	1/12/2021 11:15:15 AM	53.5	39.7	0.0	6.8	113.5	113.3	23.71	23.10	-1.39	-1.39	-14.32
GEW-043R	1/18/2021 10:55:10 AM	54.4	39.9	0.0	5.7	113.3	113.5	16.54	16.76	-1.75	-1.76	-14.62
GEW-043R	1/26/2021 10:01:43 AM	54.7	40.2	0.0	5.1	112.5	112.4	16.53	16.53	-2.23	-2.23	-13.90
GEW-044	1/5/2021 9:13:59 AM	34.3	32.5	0.0	33.2	52.9	52.9	1.31	1.07	-0.49	-0.49	-13.77
GEW-044	1/5/2021 9:15:36 AM	33.7	33.5	0.0	32.8	52.7	52.8	0.76	0.76	-0.44	-0.44	-13.77
GEW-044	1/12/2021 10:31:50 AM	34.4	33.8	0.0	31.8	61.2	61.3	2.64	2.64	-0.38	-0.38	-13.69
GEW-044	1/12/2021 10:38:23 AM	34.6	33.5	0.0	31.9	60.3	60.2	3.22	3.04	-0.26	-0.25	-13.98
GEW-044	1/18/2021 10:56:44 AM	34.6	32.9	0.0	32.5	55.2	55.4	0.92	0.75	-0.34	-0.34	-13.94
GEW-044	1/18/2021 10:58:28 AM	34.4	33.2	0.0	32.4	53.5	53.4	1.60	1.51	-0.27	-0.27	-13.65
GEW-044	1/26/2021 10:08:01 AM	43.8	34.9	0.0	21.3	45.5	45.2	1.52	1.52	-0.78	-0.78	-13.77
GEW-044	1/26/2021 10:09:35 AM	43.0	34.9	0.0	22.1	45.3	45.0	1.61	1.52	-0.77	-0.77	-13.82
GEW-045R	1/5/2021 9:24:38 AM	51.0	39.1	0.0	9.9	88.4	88.4	7.19	7.19	-6.54	-6.54	-13.71
GEW-045R	1/12/2021 10:45:34 AM	50.7	38.9	0.0	10.4	87.7	87.7	14.88	14.63	-6.09	-6.09	-13.98
GEW-045R	1/12/2021 10:52:40 AM	51.1	38.4	0.1	10.4	87.8	87.7	17.84	18.55	-5.41	-5.41	-13.94
GEW-045R	1/20/2021 8:52:41 AM	50.3	39.1	0.1	10.5	86.1	85.9	15.64	15.40	-5.50	-5.50	-13.65
GEW-045R	1/20/2021 8:54:26 AM	50.3	39.3	0.1	10.3	85.8	86.1	15.18	15.42	-4.97	-4.97	-13.65
GEW-045R	1/26/2021 11:26:14 AM	49.4	37.5	1.0	12.1	81.5	79.8	15.31	14.54	-4.98	-4.98	-14.03
GEW-045R	1/26/2021 2:00:06 PM	49.4	38.4	0.9	11.3	78.0	78.1	9.52	9.52	-5.07	-5.07	-13.77
GEW-045R	1/27/2021 9:25:47 AM	50.3	36.3	0.8	12.6	80.6	80.5	18.40	19.20	-4.65	-4.66	-13.73
GEW-045R	1/27/2021 10:23:38 AM	52.4	38.8	0.0	8.8	79.6	77.1	3.88	4.75	-4.86	-4.87	-13.73
GEW-046R	1/5/2021 9:28:03 AM	53.8	40.8	0.0	5.4	95.5	95.4	7.75	6.71	-0.22	-0.22	-13.77
GEW-046R	1/12/2021 10:57:23 AM	53.6	41.3	0.0	5.1	95.5	95.6	17.09	16.65	-0.17	-0.16	-14.07
GEW-046R	1/12/2021 11:03:16 AM	53.8	40.8	0.0	5.4	95.8	95.5	16.18	16.41	-0.18	-0.17	-14.07
GEW-046R	1/20/2021 8:58:21 AM	52.9	41.0	0.0	6.1	96.1	96.2	17.06	16.62	-0.33	-0.33	-13.65
GEW-046R	1/26/2021 10:25:29 AM	52.7	40.3	0.0	7.0	94.6	95.0	9.48	9.07	-0.67	-0.67	-14.15
GEW-047R	1/5/2021 9:57:33 AM	47.2	40.0	0.0	12.8	90.1	85.9	8.57	9.85	-0.37	-0.36	-13.89
GEW-047R	1/5/2021 9:59:57 AM	47.5	39.2	0.0	13.3	90.5	90.5	9.13	6.03	-0.36	-0.35	-13.77
GEW-047R	1/12/2021 9:35:00 AM	49.3	40.1	0.0	10.6	86.6	86.8	13.79	13.79	-0.28	-0.30	-14.07
GEW-047R	1/12/2021 9:42:39 AM	49.2	39.9	0.0	10.9	86.8	86.6	8.27	7.80	-0.30	-0.29	-14.11
GEW-047R	1/20/2021 9:17:52 AM	48.9	41.2	0.0	9.9	82.6	82.6	33.53	33.73	-0.28	-0.28	-13.94
GEW-047R	1/20/2021 9:19:44 AM	49.0	40.9	0.0	10.1	81.9	81.4	13.09	12.92	-0.30	-0.29	-13.86

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-047R	1/26/2021 10:48:25 AM	46.5	39.9	0.0	13.6	77.1	77.1	14.43	14.96	-0.98	-0.97	-14.03
GEW-047R	1/26/2021 10:50:44 AM	46.8	38.9	0.0	14.3	77.0	76.8	7.35	7.35	-0.97	-0.98	-13.82
GEW-048	1/5/2021 10:06:00 AM	54.5	39.3	0.0	6.2	91.5	91.7	15.05	13.46	-0.75	-0.74	-14.26
GEW-048	1/12/2021 9:58:39 AM	54.2	39.6	0.0	6.2	91.0	91.0	19.60	19.98	-0.63	-0.64	-14.62
GEW-048	1/12/2021 10:07:01 AM	54.4	40.0	0.0	5.6	90.9	90.8	19.99	20.17	-0.55	-0.56	-14.95
GEW-048	1/20/2021 9:26:12 AM	53.1	39.9	0.0	7.0	90.1	90.1	16.24	15.03	-0.61	-0.60	-14.83
GEW-048	1/26/2021 10:58:53 AM	53.8	39.5	0.0	6.7	89.6	89.6	13.15	14.51	-1.39	-1.39	-14.74
GEW-049	1/5/2021 9:19:22 AM	35.6	34.5	0.0	29.9	90.2	90.3	7.28	6.74	-0.33	-0.35	-13.77
GEW-049	1/5/2021 9:21:27 AM	35.4	35.0	0.0	29.6	88.6	88.7	7.30	6.75	-0.32	-0.32	-13.83
GEW-049	1/12/2021 10:19:34 AM	38.6	35.6	0.0	25.8	86.6	86.3	16.09	16.09	-0.18	-0.19	-13.98
GEW-049	1/12/2021 10:27:36 AM	38.2	36.1	0.0	25.7	86.1	86.3	16.86	16.87	-0.22	-0.22	-13.98
GEW-049	1/20/2021 8:46:57 AM	41.7	36.3	0.0	22.0	83.5	83.9	15.64	15.14	-0.17	-0.17	-13.69
GEW-049	1/20/2021 8:49:06 AM	41.0	37.1	0.0	21.9	78.8	78.6	13.02	13.88	-0.08	-0.08	-13.61
GEW-049	1/26/2021 10:13:05 AM	40.5	35.4	0.0	24.1	56.0	56.1	8.51	8.02	-0.74	-0.73	-13.77
GEW-049	1/26/2021 10:14:34 AM	40.1	35.8	0.0	24.1	56.9	57.0	8.50	8.50	-0.72	-0.72	-13.77
GEW-050	1/4/2021 9:21:54 AM	50.2	36.4	0.0	13.4	88.0	88.0	10.68	11.03	-0.39	-0.39	-5.08
GEW-050	1/4/2021 9:23:41 AM	49.3	38.7	0.0	12.0	88.4	88.6	12.93	10.68	-0.37	-0.37	-6.36
GEW-050	1/13/2021 8:57:48 AM	53.0	37.9	0.0	9.1	91.0	91.1	15.30	14.55	0.02	0.03	-4.97
GEW-050	1/13/2021 9:07:15 AM	52.7	38.4	0.0	8.9	91.5	91.0	22.94	22.90	-0.01	-0.01	-6.57
GEW-050	1/18/2021 9:46:21 AM	47.6	35.2	0.0	17.2	91.8	91.8	11.31	10.26	-0.50	-0.49	-6.36
GEW-050	1/18/2021 9:48:05 AM	47.0	35.8	0.0	17.2	91.7	91.5	11.64	10.63	-0.48	-0.48	-5.94
GEW-050	1/26/2021 8:51:58 AM	47.4	36.1	0.0	16.5	86.3	86.4	13.50	13.49	-0.87	-0.88	-5.90
GEW-050	1/26/2021 8:53:59 AM	46.7	36.6	0.0	16.7	85.6	85.4	12.63	13.51	-0.82	-0.81	-5.14
GEW-051	1/4/2021 9:53:09 AM	54.3	41.1	0.0	4.6	108.0	108.2	11.49	10.13	-0.57	-0.56	-13.83
GEW-051	1/4/2021 9:54:47 AM	54.1	41.6	0.0	4.3	107.5	107.5	9.39	7.17	-0.47	-0.47	-13.40
GEW-051	1/13/2021 10:10:03 AM	54.9	40.8	0.0	4.3	107.2	107.8	14.34	13.82	0.11	0.11	-13.82
GEW-051	1/13/2021 10:18:51 AM	54.7	41.0	0.0	4.3	105.2	105.2	14.36	13.84	0.07	0.07	-13.69
GEW-051	1/14/2021 8:55:28 AM	54.6	42.2	0.0	3.2	102.3	102.5	14.13	15.39	-0.11	-0.11	-13.73
GEW-051	1/18/2021 10:11:24 AM	54.7	41.7	0.0	3.6	100.8	100.6	9.03	7.70	-0.47	-0.48	-13.65
GEW-051	1/26/2021 9:23:35 AM	55.3	42.8	0.0	1.9	95.7	96.0	10.21	9.05	-1.08	-1.09	-13.73
GEW-051	1/26/2021 9:25:18 AM	55.2	43.0	0.0	1.8	95.1	95.0	13.51	12.58	-1.06	-1.06	-13.73
GEW-052	1/4/2021 9:27:40 AM	46.8	37.1	0.0	16.1	93.6	93.6	15.72	15.08	-0.11	-0.11	-13.77
GEW-052	1/4/2021 9:29:41 AM	46.4	37.6	0.0	16.0	93.6	93.4	5.49	4.76	-0.12	-0.12	-13.83
GEW-052	1/13/2021 9:15:38 AM	51.4	39.3	0.0	9.3	97.2	97.4	11.92	13.94	0.11	0.11	-13.90
GEW-052	1/13/2021 9:24:14 AM	51.5	39.6	0.0	8.9	98.1	98.4	30.76	31.17	-0.03	-0.03	-14.24
GEW-052	1/18/2021 9:52:37 AM	43.4	35.2	0.0	21.4	98.9	98.9	17.57	16.57	-0.23	-0.23	-13.77
GEW-052	1/18/2021 9:54:14 AM	43.1	35.7	0.0	21.2	98.4	98.4	6.69	6.69	-0.19	-0.19	-14.07
GEW-052	1/26/2021 8:58:05 AM	41.8	35.9	0.0	22.3	93.4	93.6	12.56	12.56	-0.37	-0.37	-13.90
GEW-052	1/26/2021 9:00:13 AM	41.6	36.7	0.0	21.7	91.9	91.8	14.74	14.61	-0.36	-0.37	-13.69
GEW-053	1/4/2021 9:58:58 AM	50.1	41.7	0.0	8.2	140.9	140.9	11.18	10.20	-0.37	-0.38	-13.95
GEW-053	1/4/2021 10:00:34 AM	49.8	42.2	0.0	8.0	140.2	140.8	13.70	13.70	-0.34	-0.34	-13.77

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-053	1/13/2021 10:24:23 AM	49.9	42.3	0.0	7.8	139.3	138.7	10.86	12.07	-0.16	-0.15	-14.41
GEW-053	1/13/2021 10:30:24 AM	50.2	41.8	0.0	8.0	140.2	140.8	19.87	22.18	-0.22	-0.21	-14.07
GEW-053	1/18/2021 10:19:48 AM	50.4	41.5	0.0	8.1	139.3	139.3	13.42	13.42	-0.69	-0.69	-13.86
GEW-053	1/18/2021 10:21:28 AM	50.1	42.1	0.0	7.8	139.3	139.4	22.01	22.94	-0.69	-0.69	-13.82
GEW-053	1/26/2021 9:32:27 AM	50.8	42.4	0.0	6.8	135.3	135.4	7.91	7.91	-1.18	-1.17	-13.77
GEW-053	1/26/2021 9:33:54 AM	50.4	43.4	0.0	6.2	134.4	134.7	11.80	10.56	-1.20	-1.19	-13.86
GEW-054	1/4/2021 10:08:06 AM	53.6	42.3	0.0	4.1	145.9	145.9	51.15	51.47	-4.48	-4.48	-14.20
GEW-054	1/4/2021 10:09:45 AM	53.2	42.4	0.0	4.4	145.9	145.9	49.69	49.69	-4.44	-4.44	-13.89
GEW-054	1/13/2021 10:37:28 AM	53.1	42.7	0.0	4.2	144.9	144.9	43.60	43.83	-4.09	-4.10	-14.70
GEW-054	1/13/2021 10:44:39 AM	53.4	42.4	0.0	4.2	144.9	144.9	41.17	41.17	-4.00	-4.00	-14.87
GEW-054	1/18/2021 10:24:53 AM	53.3	42.9	0.0	3.8	144.8	144.8	42.42	42.42	-4.33	-4.33	-13.61
GEW-054	1/18/2021 10:26:49 AM	53.2	43.0	0.0	3.8	144.8	144.8	34.92	32.42	-4.38	-4.40	-13.65
GEW-054	1/26/2021 9:37:53 AM	53.6	44.0	0.0	2.4	144.9	144.9	42.27	44.52	-4.93	-4.93	-14.32
GEW-054	1/26/2021 9:40:00 AM	53.5	44.4	0.0	2.1	144.9	144.9	35.46	35.93	-4.76	-4.75	-14.45
GEW-055	1/4/2021 10:15:33 AM	52.7	41.3	0.0	6.0	125.3	125.3	6.85	5.73	-0.69	-0.70	-13.65
GEW-055	1/13/2021 10:50:07 AM	52.3	42.5	0.0	5.2	121.2	121.0	4.22	5.76	-0.43	-0.43	-14.49
GEW-055	1/13/2021 10:56:37 AM	52.6	42.4	0.0	5.0	119.4	120.2	4.02	4.76	-0.43	-0.43	-13.94
GEW-055	1/18/2021 10:34:43 AM	52.9	42.4	0.0	4.7	120.2	120.5	3.45	3.45	-0.89	-0.89	-13.82
GEW-055	1/26/2021 9:45:53 AM	52.9	43.2	0.0	3.9	114.8	114.5	5.89	5.89	-1.32	-1.32	-13.94
GEW-056R	1/6/2021 11:39:29 AM	48.0	41.8	0.0	10.2	60.4	60.4	3.43	2.42	-0.20	-0.21	-20.04
GEW-056R	1/6/2021 11:44:57 AM	47.8	42.0	0.0	10.2	60.2	60.2	3.43	3.43	-0.22	-0.23	-20.04
GEW-056R	1/13/2021 9:38:21 AM	50.2	42.4	0.0	7.4	70.5	70.5	3.14	3.14	-0.22	-0.22	-20.17
GEW-056R	1/20/2021 9:51:39 AM	47.4	40.5	0.0	12.1	65.9	66.5	2.08	1.69	-0.24	-0.23	-19.75
GEW-056R	1/28/2021 9:33:45 AM	44.5	40.7	0.0	14.8	82.6	83.0	1.64	4.49	-0.37	-0.36	-19.15
GEW-057B	1/13/2021 2:22:03 PM	8.1	59.7	0.6	31.6	147.7	145.5	7.68	7.68	-13.53	-13.53	-18.49
GEW-057B	1/13/2021 2:27:44 PM	8.3	57.8	0.3	33.6	150.6	149.5	15.13	14.17	-14.21	-14.21	-19.12
GEW-057B	1/21/2021 11:04:45 AM	3.5	57.8	1.4	37.3	154.4	153.7	5.80	3.50	-6.63	-6.63	-19.62
GEW-057B	1/21/2021 11:07:56 AM	3.2	56.4	2.6	37.8	144.5	144.5	6.45	4.74	-3.78	-3.78	-19.96
GEW-059R	1/8/2021 10:06:23 AM	26.9	43.6	0.0	29.5	77.9	77.9	5.95	5.48	-7.36	-7.36	-20.72
GEW-059R	1/8/2021 10:13:01 AM	26.7	43.1	0.0	30.2	79.1	79.1	4.95	5.34	-7.70	-7.70	-20.51
GEW-059R	1/22/2021 1:52:26 PM	28.2	41.9	0.0	29.9	93.3	93.4	5.04	4.64	-6.85	-6.85	-19.84
GEW-067A	1/7/2021 10:17:41 AM	9.2	55.5	0.0	35.3	184.5	183.3	3.74	7.49	-5.74	-5.74	-20.17
GEW-067A	1/7/2021 10:24:46 AM	8.9	55.3	0.0	35.8	184.1	183.7	5.61	9.63	-6.75	-6.75	-20.08
GEW-067A	1/19/2021 8:58:42 AM	9.3	58.2	0.0	32.5	183.9	182.7	1.67	4.53	-7.09	-7.09	-20.13
GEW-067A	1/19/2021 9:00:25 AM	9.2	58.4	0.0	32.4	184.1	184.5	4.18	5.17	-8.06	-8.06	-20.17
GEW-068A	1/14/2021 2:16:58 PM	24.7	57.7	0.0	17.6	163.3	162.9	17.62	17.65	-7.10	-7.10	-19.97
GEW-068A	1/14/2021 2:23:14 PM	25.6	56.8	0.0	17.6	161.1	161.0	17.55	16.92	-7.44	-7.44	-20.26
GEW-068A	1/21/2021 11:38:16 AM	25.6	54.6	0.0	19.8	166.6	166.5	15.48	15.48	-7.02	-7.02	-20.47
GEW-068A	1/21/2021 11:39:15 AM	25.7	55.0	0.0	19.3	166.6	166.5	15.97	15.69	-7.02	-7.02	-19.92
GEW-078R	1/8/2021 11:03:06 AM	32.7	41.8	0.0	25.5	141.2	141.3	32.27	31.24	-7.43	-7.43	-20.51
GEW-078R	1/8/2021 11:09:38 AM	32.7	40.3	0.0	27.0	142.5	142.5	30.61	31.45	-7.51	-7.51	-20.47

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-078R	1/19/2021 2:04:19 PM	32.3	43.0	0.0	24.7	141.2	142.3	30.57	30.69	-7.10	-7.10	-19.08
GEW-078R	1/19/2021 2:05:20 PM	31.4	43.2	0.0	25.4	143.2	143.1	28.82	30.42	-7.10	-7.10	-19.21
GEW-082R	1/11/2021 9:14:58 AM	14.6	37.2	0.2	48.0	167.1	166.7	2.64	3.00	-2.97	-2.98	-20.30
GEW-082R	1/11/2021 9:21:37 AM	13.6	38.3	0.0	48.1	167.9	168.1	2.23	1.99	-2.99	-2.99	-20.04
GEW-082R	1/21/2021 8:51:00 AM	13.4	37.3	0.3	49.0	171.9	171.6	2.97	1.72	-2.93	-2.93	-20.00
GEW-082R	1/21/2021 8:52:25 AM	12.7	38.5	0.1	48.7	172.1	172.1	1.98	2.21	-2.93	-2.94	-20.04
GEW-086	1/15/2021 4:24:21 PM	18.2	39.1	0.0	42.7	143.2	143.5	3.47	3.47	-0.03	-0.03	-20.25
GEW-086	1/15/2021 4:25:12 PM	18.2	39.2	0.0	42.6	143.2	143.2	2.77	2.56	-0.02	-0.03	-20.25
GEW-086	1/18/2021 9:52:27 AM	9.2	33.2	3.8	53.8	141.9	142.2	5.24	2.56	-0.06	-0.05	-19.83
GEW-086	1/18/2021 9:59:08 AM	9.5	33.7	3.7	53.1	140.2	141.2	1.49	2.35	-0.04	-0.05	-19.96
GEW-086	1/21/2021 3:13:18 PM	16.7	43.6	0.3	39.4	153.7	155.2	2.06	1.45	-0.04	-0.04	-19.11
GEW-086	1/21/2021 3:14:13 PM	16.9	43.7	0.2	39.2	155.7	156.9	2.90	4.46	-0.02	-0.02	-18.99
GEW-087	1/7/2021 2:14:48 PM	10.5	55.5	0.4	33.6	188.3	191.7	47.59	47.67	-10.47	-10.47	-20.17
GEW-087	1/7/2021 2:21:20 PM	10.4	56.0	0.4	33.2	192.9	192.9	45.93	45.93	-10.81	-10.81	-19.96
GEW-087	1/20/2021 11:28:05 AM	9.9	57.2	0.6	32.3	194.3	194.3	49.18	49.88	-8.44	-8.44	-18.86
GEW-087	1/20/2021 11:29:00 AM	9.7	58.6	0.5	31.2	194.3	194.3	50.11	49.58	-8.44	-8.44	-19.03
GEW-088	1/7/2021 9:55:06 AM	1.8	54.5	0.0	43.7	133.4	134.1	19.93	19.90	-0.83	-0.83	-20.21
GEW-088	1/7/2021 10:01:02 AM	1.9	52.0	0.0	46.1	135.0	134.7	13.85	15.06	-0.20	-0.20	-20.08
GEW-088	1/19/2021 8:45:30 AM	2.6	52.8	0.1	44.5	120.8	122.1	11.37	11.24	-0.67	-0.65	-20.13
GEW-090	1/7/2021 9:01:55 AM	29.1	41.0	0.0	29.9	149.4	149.5	1.02	1.44	-7.43	-7.43	-20.25
GEW-090	1/7/2021 9:07:55 AM	28.7	41.1	0.0	30.2	151.7	151.7	1.01	2.26	-7.43	-7.43	-20.25
GEW-090	1/19/2021 9:05:14 AM	28.4	48.0	0.0	23.6	153.3	153.3	1.75	2.85	-8.10	-8.10	-20.34
GEW-090	1/19/2021 9:06:16 AM	28.8	46.2	0.0	25.0	153.4	153.3	2.85	1.75	-8.10	-8.10	-20.38
GEW-091	1/6/2021 3:02:03 PM	3.0	53.8	1.0	42.2	192.3	189.6	30.53	30.66	-4.74	-4.74	-19.37
GEW-091	1/6/2021 3:08:48 PM	2.6	57.0	1.0	39.4	192.6	192.3	28.66	28.68	-4.59	-4.59	-19.53
GEW-091	1/13/2021 10:04:36 AM	3.0	58.5	0.0	38.5	195.0	195.0	37.05	37.40	1.33	1.34	-19.96
GEW-091	1/13/2021 3:42:29 PM	3.3	58.9	0.0	37.8	198.6	198.6	13.43	9.52	-0.30	-0.31	-19.32
GEW-091	1/20/2021 10:18:24 AM	3.8	56.9	0.1	39.2	196.4	194.3	10.12	12.78	-7.09	-7.09	-19.58
GEW-091	1/20/2021 10:19:44 AM	3.3	57.8	0.1	38.8	196.4	196.0	8.44	7.78	-7.09	-7.09	-19.32
GEW-091	1/28/2021 10:00:42 AM	3.6	56.6	0.0	39.8	195.9	196.9	9.47	9.69	-6.12	-6.12	-19.24
GEW-091	1/28/2021 10:01:55 AM	3.0	57.2	0.0	39.8	197.2	196.6	9.81	9.69	-6.46	-6.46	-19.32
GEW-100	1/14/2021 2:22:31 PM	17.0	63.5	0.2	19.3	127.4	127.2	21.76	21.76	-10.60	-10.60	-19.66
GEW-100	1/14/2021 2:28:41 PM	16.9	66.0	0.1	17.0	122.6	122.6	21.75	21.86	-11.19	-11.19	-20.21
GEW-100	1/29/2021 9:05:23 AM	18.3	62.0	0.0	19.7	109.2	109.2	25.52	26.13	-10.47	-10.47	-19.37
GEW-101	1/14/2021 1:55:51 PM	34.5	63.5	0.6	1.4	58.4	58.4	8.29	8.41	-2.99	-2.98	-20.13
GEW-101	1/14/2021 2:02:15 PM	34.1	63.2	0.4	2.3	58.4	58.5	7.18	7.18	-2.99	-2.99	-19.71
GEW-101	1/29/2021 9:29:51 AM	35.5	64.4	0.0	0.1	63.1	63.2	5.80	6.26	-7.43	-7.43	-20.08
GEW-102	1/13/2021 3:36:31 PM	22.9	34.9	6.7	35.5	60.4	60.4	0.73	0.90	-18.60	-18.60	-18.87
GEW-102	1/13/2021 3:44:02 PM	17.3	25.0	11.3	46.4	61.8	61.8	2.53	2.31	-18.60	-18.60	-19.21
GEW-102	1/21/2021 11:22:19 AM	32.8	33.4	7.4	26.4	64.8	64.0	0.61	1.49	-19.38	-19.38	-19.37
GEW-102	1/21/2021 11:24:24 AM	32.8	33.4	7.4	26.4	64.7	64.2	0.63	1.08	-19.25	-19.25	-19.28

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		(% vol)				°F		scfm		H ₂ O		
GEW-104	1/13/2021 2:00:06 PM	1.9	61.3	0.0	36.8	166.6	166.6	4.41	4.85	0.07	0.07	-18.87
GEW-104	1/13/2021 2:06:49 PM	1.8	67.2	0.0	31.0	183.3	183.3	7.81	6.88	-0.76	-0.78	-18.87
GEW-104	1/21/2021 10:55:37 AM	3.7	59.2	0.1	37.0	183.9	183.9	7.45	7.70	-0.38	-0.38	-19.62
GEW-104	1/21/2021 10:56:47 AM	3.3	60.8	0.0	35.9	185.1	184.5	6.84	8.74	-0.37	-0.37	-19.58
GEW-105	1/11/2021 1:44:43 PM	46.1	49.1	0.0	4.8	60.8	60.9	4.00	4.00	-3.84	-3.84	-19.55
GEW-105	1/11/2021 1:50:47 PM	45.6	48.0	0.0	6.4	61.6	61.6	4.34	5.77	-3.84	-3.84	-19.55
GEW-105	1/22/2021 2:20:40 PM	52.5	44.3	0.0	3.2	62.6	62.5	2.70	1.21	-2.50	-2.50	-19.59
GEW-106	1/5/2021 2:43:49 PM	5.3	40.1	6.9	47.7	151.0	150.6	1.65	0.69	-2.76	-2.76	-19.16
GEW-106	1/5/2021 3:15:09 PM	6.0	39.3	7.0	47.7	154.4	155.2	1.45	2.00	-2.99	-2.98	-18.91
GEW-106	1/6/2021 2:28:27 PM	16.7	37.8	7.0	38.5	154.0	154.0	5.50	5.50	-7.61	-7.61	-19.29
GEW-106	1/6/2021 2:33:33 PM	15.4	36.9	7.6	40.1	151.7	151.7	2.89	5.01	-5.50	-5.50	-19.12
GEW-106	1/6/2021 2:49:30 PM	14.7	34.2	7.7	43.4	113.7	113.0	3.12	2.21	-0.38	-0.40	-18.87
GEW-106	1/11/2021 11:01:13 AM	10.9	47.6	4.9	36.6	78.1	78.2	3.72	5.26	-0.58	-0.57	-20.35
GEW-106	1/11/2021 11:07:26 AM	10.5	47.8	5.3	36.4	75.0	75.0	7.76	7.76	-0.58	-0.58	-20.39
GEW-106	1/11/2021 11:08:53 AM	10.5	48.8	4.9	35.8	68.8	68.6	11.04	11.04	-0.26	-0.26	-20.64
GEW-106	1/13/2021 4:13:22 PM	9.3	52.3	3.6	34.8	82.8	83.3	5.34	5.82	-0.61	-0.60	-18.91
GEW-106	1/18/2021 2:48:12 PM	10.5	40.5	6.6	42.4	75.4	76.4	3.32	3.10	-0.86	-0.86	-19.32
GEW-106	1/18/2021 2:50:33 PM	10.6	40.9	6.6	41.9	79.8	78.9	2.61	2.86	-0.91	-0.91	-19.11
GEW-107	1/11/2021 10:03:10 AM	46.8	50.4	0.0	2.8	87.7	87.6	17.48	17.27	-2.74	-2.72	-19.97
GEW-107	1/11/2021 10:09:01 AM	46.9	50.9	0.0	2.2	87.7	87.5	14.70	14.70	-2.75	-2.75	-20.09
GEW-107	1/22/2021 2:02:09 PM	47.7	51.8	0.0	0.5	97.5	97.5	12.00	9.68	-2.45	-2.45	-19.88
GEW-108	1/6/2021 2:06:19 PM	43.5	45.3	0.0	11.2	108.7	108.5	3.98	3.98	-1.64	-1.64	-19.07
GEW-108	1/6/2021 2:12:37 PM	43.7	45.8	0.0	10.5	105.0	104.1	3.14	3.15	-1.76	-1.76	-19.11
GEW-108	1/13/2021 9:47:43 AM	43.2	46.3	0.0	10.5	104.0	104.0	10.92	10.92	-1.46	-1.46	-20.04
GEW-108	1/20/2021 10:01:48 AM	44.5	45.2	0.0	10.3	108.2	108.5	5.30	4.28	-1.75	-1.76	-19.15
GEW-108	1/28/2021 9:43:54 AM	44.8	45.5	0.0	9.7	114.3	114.3	8.81	8.25	-2.14	-2.15	-19.15
GEW-109	1/6/2021 1:54:30 PM	49.1	40.8	1.0	9.1	57.2	57.2	5.57	3.85	-0.91	-0.90	-18.94
GEW-109	1/6/2021 2:00:59 PM	49.2	40.6	1.0	9.2	56.5	56.5	3.85	2.72	-0.90	-0.90	-19.15
GEW-109	1/13/2021 9:44:42 AM	48.8	41.4	1.1	8.7	51.8	52.1	3.48	5.22	-0.73	-0.73	-20.04
GEW-109	1/20/2021 9:58:40 AM	49.4	41.1	1.0	8.5	48.5	48.5	2.14	2.14	-0.85	-0.85	-19.11
GEW-109	1/28/2021 9:40:53 AM	48.5	41.2	1.1	9.2	49.3	49.5	1.24	1.75	-0.96	-0.97	-19.20
GEW-110	1/6/2021 11:19:59 AM	49.1	45.5	0.0	5.4	101.8	101.8	5.81	4.87	-1.75	-1.74	-20.17
GEW-110	1/6/2021 11:25:41 AM	49.0	44.3	0.0	6.7	102.2	102.1	9.74	9.74	-1.77	-1.77	-20.08
GEW-110	1/13/2021 9:26:19 AM	49.2	47.8	0.0	3.0	90.9	90.8	9.19	13.15	-1.78	-1.79	-20.04
GEW-110	1/20/2021 9:45:24 AM	48.6	46.6	0.0	4.8	88.3	88.3	7.77	5.73	-1.68	-1.67	-19.79
GEW-110	1/28/2021 9:28:17 AM	48.2	45.4	0.0	6.4	99.9	99.9	2.24	4.20	-1.54	-1.53	-19.32
GEW-113	1/7/2021 2:43:43 PM	15.1	60.7	0.1	24.1	171.0	171.0	9.60	10.05	-1.70	-1.70	-20.51
GEW-113	1/7/2021 2:49:48 PM	14.7	62.0	0.1	23.2	171.0	170.0	9.85	9.87	-1.72	-1.72	-20.38
GEW-113	1/20/2021 11:40:36 AM	14.7	65.2	0.2	19.9	174.2	174.2	10.44	9.96	-1.47	-1.48	-19.20
GEW-113	1/20/2021 11:41:30 AM	14.6	65.6	0.2	19.6	174.2	173.8	10.34	10.77	-1.48	-1.49	-19.15
GEW-116	1/8/2021 3:01:28 PM	36.5	63.3	0.1	0.1	91.9	91.9	9.63	7.66	-0.08	-0.08	-20.34

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Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-116	1/8/2021 3:07:33 PM	36.4	62.2	0.1	1.3	91.7	91.7	10.60	10.47	-0.10	-0.11	-20.51
GEW-116	1/22/2021 10:04:07 AM	37.2	62.8	0.0	0.0	94.8	94.8	7.54	8.80	-0.05	-0.04	-20.68
GEW-117	1/11/2021 10:24:07 AM	36.3	55.4	0.0	8.3	106.7	107.5	4.82	7.22	-12.83	-12.83	-20.00
GEW-117	1/11/2021 10:37:00 AM	35.3	55.4	0.0	9.3	108.2	107.2	6.88	10.50	-12.83	-12.83	-20.17
GEW-117	1/22/2021 10:32:25 AM	38.9	56.8	0.0	4.3	115.3	115.8	9.19	5.51	-13.17	-13.17	-20.38
GEW-118	1/11/2021 9:51:57 AM	2.6	64.6	0.0	32.8	201.7	201.7	16.60	15.59	-1.73	-1.72	-20.68
GEW-118	1/11/2021 9:58:58 AM	2.5	65.7	0.0	31.8	202.3	202.2	17.99	18.39	-1.61	-1.63	-20.97
GEW-118	1/21/2021 9:01:07 AM	2.0	65.3	0.0	32.7	203.1	203.1	18.68	18.68	-0.57	-0.57	-21.14
GEW-118	1/21/2021 9:02:27 AM	1.6	66.6	0.0	31.8	203.1	203.1	19.80	19.60	-0.64	-0.64	-21.31
GEW-120	1/11/2021 10:14:10 AM	42.5	52.9	0.6	4.0	98.2	98.4	11.28	11.28	-4.60	-4.60	-20.04
GEW-120	1/11/2021 10:20:22 AM	43.3	46.4	0.6	9.7	97.9	97.9	12.04	12.54	-4.62	-4.61	-20.38
GEW-120	1/22/2021 10:39:35 AM	41.1	58.2	0.3	0.4	94.7	94.4	10.79	11.96	-4.28	-4.28	-20.47
GEW-121	1/11/2021 11:07:33 AM	39.5	53.6	0.0	6.9	102.1	102.3	7.46	7.21	-3.32	-3.32	-19.66
GEW-121	1/11/2021 11:12:28 AM	39.8	52.0	0.0	8.2	105.6	105.7	6.82	6.63	-3.36	-3.37	-19.37
GEW-121	1/22/2021 10:58:09 AM	41.9	52.4	0.3	5.4	126.4	126.3	3.85	3.21	-2.68	-2.68	-18.86
GEW-122	1/11/2021 11:25:40 AM	43.0	41.2	1.2	14.6	52.6	52.6	31.38	31.59	-4.46	-4.46	-20.00
GEW-122	1/11/2021 11:31:43 AM	43.9	37.4	1.5	17.2	53.5	53.2	36.44	36.50	-4.50	-4.51	-20.00
GEW-122	1/22/2021 3:24:32 PM	41.7	42.0	1.0	15.3	58.0	57.7	7.61	5.51	-4.95	-4.95	-19.66
GEW-123	1/11/2021 2:33:43 PM	35.3	55.5	0.0	9.2	56.0	56.0	6.20	4.87	-1.96	-1.97	-18.94
GEW-123	1/11/2021 2:39:12 PM	35.6	56.2	0.0	8.2	57.2	57.2	5.94	5.29	-1.96	-1.97	-18.90
GEW-123	1/29/2021 2:32:45 PM	37.7	61.9	0.2	0.2	69.8	69.8	7.53	7.63	-1.82	-1.81	-18.91
GEW-124	1/11/2021 2:56:15 PM	37.2	28.0	7.5	27.3	48.5	48.5	0.68	0.72	-18.70	-18.70	-18.99
GEW-124	1/11/2021 3:02:28 PM	40.0	27.8	6.7	25.5	47.6	47.6	0.63	1.04	-18.70	-18.70	-18.99
GEW-124	1/21/2021 9:11:01 AM	45.5	35.3	4.2	15.0	49.5	49.4	0.69	0.66	-19.54	-19.54	-20.00
GEW-125	1/13/2021 1:58:02 PM	46.5	44.7	0.7	8.1	57.7	57.6	3.42	3.20	-2.56	-2.56	-18.60
GEW-125	1/13/2021 2:03:16 PM	50.6	48.5	0.1	0.8	57.3	57.3	4.37	4.02	-2.77	-2.76	-18.94
GEW-125	1/22/2021 3:10:55 PM	41.4	40.4	0.5	17.7	45.2	45.3	2.15	2.48	-1.94	-1.94	-19.66
GEW-126	1/13/2021 2:34:07 PM	14.5	66.2	1.8	17.5	59.0	58.7	1.71	1.71	-3.16	-3.16	-18.99
GEW-126	1/13/2021 2:48:55 PM	28.7	58.1	2.3	10.9	57.5	57.5	2.09	1.71	-3.97	-3.96	-19.03
GEW-126	1/25/2021 10:42:32 AM	31.9	38.4	0.9	28.8	38.1	38.3	2.16	4.13	-6.08	-6.08	-19.79
GEW-127	1/14/2021 8:46:49 AM	23.1	44.3	3.9	28.7	51.3	51.3	82.60	82.17	-5.45	-5.45	-20.00
GEW-127	1/14/2021 9:15:08 AM	24.1	39.8	3.9	32.2	53.7	53.7	91.22	91.22	-5.53	-5.53	-20.04
GEW-127	1/25/2021 11:11:21 AM	22.5	40.6	4.0	32.9	43.7	43.6	84.16	83.74	-5.74	-5.74	-19.75
GEW-129	1/14/2021 9:43:00 AM	40.5	56.6	0.0	2.9	96.8	96.8	22.35	23.08	-2.80	-2.79	-20.17
GEW-129	1/14/2021 9:50:26 AM	40.7	57.1	0.0	2.2	98.2	98.0	22.67	22.79	-2.78	-2.78	-19.83
GEW-129	1/27/2021 10:16:12 AM	40.5	55.5	0.0	4.0	83.3	83.5	23.66	23.34	-2.74	-2.74	-20.63
GEW-130	1/14/2021 10:23:20 AM	28.9	47.8	0.0	23.3	126.1	126.4	5.10	6.58	-13.17	-13.17	-20.38
GEW-130	1/14/2021 10:28:51 AM	29.4	45.7	0.0	24.9	127.1	127.5	6.57	5.69	-13.17	-13.17	-20.08
GEW-130	1/25/2021 11:19:49 AM	26.9	44.8	0.0	28.3	134.7	134.1	5.14	5.55	-12.20	-12.20	-20.17
GEW-130	1/25/2021 11:21:09 AM	25.9	46.6	0.0	27.5	134.9	134.7	5.44	5.73	-12.28	-12.28	-20.38
GEW-131	1/13/2021 3:07:49 PM	43.3	50.0	0.0	6.7	110.0	110.2	8.39	8.38	-5.40	-5.40	-19.45

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		(% vol)				°F		scfm		H ₂ O		
GEW-131	1/13/2021 3:13:43 PM	44.8	44.6	0.0	10.6	112.7	112.7	7.83	7.04	-5.74	-5.74	-19.28
GEW-131	1/25/2021 11:30:36 AM	43.5	47.5	0.0	9.0	90.5	90.1	8.12	9.30	-6.75	-6.75	-19.96
GEW-132	1/11/2021 9:30:27 AM	22.3	40.5	0.1	37.1	84.9	85.0	5.03	3.05	-1.05	-1.04	-20.08
GEW-132	1/11/2021 9:35:59 AM	22.0	38.1	0.2	39.7	83.7	84.1	2.83	3.47	-1.05	-1.06	-20.30
GEW-132	1/22/2021 11:24:15 AM	22.7	39.0	0.1	38.2	91.5	90.1	3.42	3.43	-0.99	-0.99	-20.30
GEW-133	1/8/2021 3:12:24 PM	12.0	48.6	0.3	39.1	42.1	42.1	5.60	2.80	-1.14	-1.12	-17.97
GEW-133	1/8/2021 3:18:03 PM	12.2	45.9	0.3	41.6	42.5	42.5	6.38	6.38	-1.11	-1.11	-18.10
GEW-133	1/22/2021 10:07:06 AM	16.9	50.8	0.6	31.7	54.4	54.6	5.60	6.91	-1.39	-1.40	-19.70
GEW-134	1/8/2021 2:19:42 PM	12.2	43.5	0.2	44.1	37.8	37.9	1.27	1.27	-0.10	-0.10	-20.55
GEW-134	1/8/2021 2:26:29 PM	12.3	43.1	0.1	44.5	37.8	37.8	2.53	2.53	-0.12	-0.12	-20.30
GEW-134	1/22/2021 10:01:15 AM	12.9	36.6	0.3	50.2	40.5	40.5	1.26	1.26	-0.21	-0.21	-20.51
GEW-135	1/8/2021 11:31:28 AM	6.3	51.4	0.0	42.3	48.5	48.7	3.92	2.48	-0.17	-0.17	-18.94
GEW-135	1/8/2021 11:37:05 AM	5.6	54.0	0.0	40.4	49.3	49.4	2.77	1.75	-0.19	-0.18	-18.27
GEW-135	1/22/2021 9:50:59 AM	6.5	49.6	0.5	43.4	52.7	52.9	3.69	1.74	-0.28	-0.28	-18.44
GEW-137	1/8/2021 10:37:37 AM	45.2	43.3	0.0	11.5	38.2	38.5	4.37	5.04	-1.57	-1.57	-20.38
GEW-137	1/8/2021 10:43:18 AM	44.9	43.1	0.0	12.0	38.2	38.5	3.57	3.33	-1.56	-1.56	-20.25
GEW-137	1/29/2021 10:52:16 AM	30.0	39.2	2.6	28.2	47.9	47.9	1.75	1.75	-1.01	-1.01	-19.28
GEW-139	1/15/2021 8:41:02 AM	10.5	57.1	1.2	31.2	46.7	46.8	3.51	2.48	-0.69	-0.69	-19.24
GEW-139	1/15/2021 8:46:46 AM	9.2	55.8	1.4	33.6	47.9	47.7	2.15	3.04	-0.75	-0.74	-19.41
GEW-139	1/29/2021 11:01:15 AM	11.2	48.4	2.7	37.7	56.3	56.7	1.22	1.72	-1.33	-1.32	-19.53
GEW-140	1/15/2021 9:06:35 AM	25.1	53.2	0.0	21.7	38.5	38.5	1.26	5.36	-0.48	-0.47	-18.60
GEW-140	1/15/2021 9:17:31 AM	25.4	51.8	0.0	22.8	37.7	37.7	5.06	3.10	-0.51	-0.51	-18.77
GEW-140	1/25/2021 3:06:18 PM	26.2	50.0	0.0	23.8	41.2	41.2	5.34	5.77	0.15	0.15	-18.22
GEW-140	1/25/2021 3:08:04 PM	25.2	54.1	0.0	20.7	42.1	42.1	7.94	6.28	-0.18	-0.18	-18.22
GEW-144	1/14/2021 2:28:20 PM	37.1	36.0	5.5	21.4	44.9	44.7	0.43	0.39	-17.25	-17.25	-19.63
GEW-144	1/14/2021 2:36:07 PM	43.8	38.7	3.6	13.9	43.8	43.8	0.38	0.38	-18.94	-18.94	-19.67
GEW-144	1/25/2021 11:19:13 AM	42.8	38.8	3.7	14.7	40.9	40.9	0.60	0.61	-19.37	-19.37	-20.43
GEW-144	1/29/2021 9:42:57 AM	23.5	27.3	11.6	37.6	40.1	40.3	3.70	3.89	-9.46	-9.46	-20.00
GEW-144	1/29/2021 9:44:10 AM	26.7	25.6	10.6	37.1	41.0	41.2	2.99	3.22	-12.83	-12.83	-19.87
GEW-145	1/13/2021 3:13:28 PM	29.9	45.1	1.6	23.4	55.4	55.5	3.56	2.37	-14.55	-14.55	-18.87
GEW-145	1/13/2021 3:19:18 PM	29.5	43.9	1.9	24.7	55.7	55.7	6.29	5.94	-13.53	-13.53	-18.87
GEW-145	1/22/2021 2:52:13 PM	26.8	46.7	1.9	24.6	42.5	42.7	11.02	10.30	-6.77	-6.77	-19.55
GEW-147	1/7/2021 3:14:44 PM	17.3	52.3	0.1	30.3	144.6	144.9	21.95	22.06	-6.42	-6.42	-20.51
GEW-147	1/7/2021 3:21:09 PM	17.7	48.2	0.1	34.0	143.2	143.4	9.60	9.59	-6.42	-6.42	-20.59
GEW-147	1/20/2021 11:32:26 AM	18.2	53.0	0.3	28.5	150.2	150.2	52.90	52.75	-4.39	-4.39	-19.24
GEW-147	1/20/2021 11:33:32 AM	18.5	52.2	0.3	29.0	149.9	149.7	47.92	47.82	-4.73	-4.73	-19.03
GEW-147	1/25/2021 2:26:12 PM	16.4	52.7	0.2	30.7	150.5	149.8	16.32	16.92	-4.82	-4.83	-19.97
GEW-147	1/25/2021 2:32:55 PM	16.2	52.1	0.3	31.4	150.0	149.9	12.99	13.31	-4.84	-4.85	-20.01
GEW-148	1/7/2021 2:04:14 PM	28.6	51.0	0.0	20.4	108.5	108.8	7.55	7.70	-11.14	-11.14	-19.66
GEW-148	1/7/2021 2:10:50 PM	28.5	52.6	0.0	18.9	103.0	102.8	8.51	8.16	-11.14	-11.14	-19.66
GEW-148	1/28/2021 2:56:54 PM	28.8	54.0	0.0	17.2	121.3	121.5	5.88	5.87	-11.06	-11.06	-18.65

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		(% vol)				°F		scfm		H ₂ O		
GEW-149	1/7/2021 9:31:17 AM	4.0	19.2	2.5	74.3	32.3	32.8	2.56	3.14	-0.07	-0.07	-20.04
GEW-149	1/7/2021 9:38:03 AM	4.2	16.5	2.5	76.8	38.9	38.8	1.79	2.83	-0.08	-0.07	-20.13
GEW-149	1/28/2021 2:11:33 PM	5.7	20.5	3.2	70.6	58.7	58.9	3.22	3.22	-0.07	-0.07	-18.60
GEW-150	1/11/2021 2:27:44 PM	32.0	51.4	0.1	16.5	136.5	136.2	16.18	13.96	-1.75	-1.75	-19.55
GEW-150	1/11/2021 2:34:13 PM	31.9	51.1	0.1	16.9	135.7	136.2	19.47	18.59	-1.96	-1.98	-19.50
GEW-150	1/21/2021 9:28:11 AM	31.9	47.4	0.8	19.9	143.9	143.5	36.08	36.03	-0.92	-0.92	-20.17
GEW-150	1/21/2021 9:29:38 AM	31.2	49.5	0.8	18.5	143.5	143.5	33.72	33.70	-0.93	-0.93	-20.17
GEW-152	1/11/2021 10:13:43 AM	24.4	43.8	3.2	28.6	39.5	39.5	26.52	26.55	-2.82	-2.84	-20.35
GEW-152	1/11/2021 10:20:14 AM	26.2	50.0	1.9	21.9	39.5	39.5	24.41	23.82	-2.73	-2.70	-20.77
GEW-152	1/22/2021 2:04:25 PM	27.3	46.2	1.8	24.7	53.7	53.7	3.47	3.47	-1.81	-1.81	-19.38
GEW-153	1/8/2021 10:16:26 AM	31.8	37.1	0.0	31.1	67.7	67.7	9.41	8.46	-3.46	-3.46	-20.89
GEW-153	1/8/2021 10:21:59 AM	32.5	34.9	0.0	32.6	66.5	66.5	8.73	8.97	-3.46	-3.45	-20.85
GEW-153	1/22/2021 1:54:40 PM	32.7	37.2	0.0	30.1	70.9	70.9	4.88	5.80	-3.35	-3.35	-19.88
GEW-156	1/8/2021 9:56:21 AM	33.1	48.2	0.0	18.7	71.3	71.4	3.21	0.87	-5.75	-5.75	-20.39
GEW-156	1/8/2021 10:02:35 AM	33.1	47.8	0.0	19.1	72.8	72.8	3.20	2.98	-6.00	-6.00	-20.77
GEW-156	1/22/2021 1:49:59 PM	33.2	48.0	0.1	18.7	80.2	80.3	4.77	4.33	-5.41	-5.41	-19.71
GEW-156	1/25/2021 2:13:30 PM	30.3	51.4	0.0	18.3	83.1	83.1	2.59	2.31	-3.82	-3.82	-19.76
GEW-156	1/25/2021 2:19:41 PM	30.2	51.3	0.0	18.5	82.6	82.6	2.59	3.47	-3.82	-3.82	-19.80
GEW-157	1/13/2021 2:10:47 PM	34.9	53.0	0.1	12.0	59.4	59.4	6.52	5.68	-3.46	-3.45	-18.79
GEW-157	1/13/2021 2:15:44 PM	37.3	45.8	0.1	16.8	59.7	59.7	6.51	6.04	-3.63	-3.62	-18.87
GEW-157	1/22/2021 2:30:46 PM	7.0	36.7	6.9	49.4	47.0	47.1	1.25	1.77	-0.05	-0.06	-19.42
GEW-157	1/22/2021 2:42:24 PM	6.7	36.6	7.0	49.7	47.0	47.0	1.25	1.25	-0.10	-0.10	-19.88
GEW-158	1/11/2021 11:12:35 AM	34.9	54.9	0.0	10.2	59.5	59.5	1.72	2.72	-0.99	-1.00	-20.43
GEW-158	1/11/2021 11:18:15 AM	35.7	50.2	0.0	14.1	61.5	61.6	1.21	1.21	-1.01	-1.01	-20.39
GEW-158	1/22/2021 2:12:14 PM	36.0	53.7	0.0	10.3	71.5	71.5	4.45	4.90	-1.20	-1.20	-19.92
GEW-160	1/6/2021 2:51:19 PM	29.5	37.0	1.7	31.8	49.1	49.1	1.22	1.73	-4.92	-4.93	-19.32
GEW-160	1/6/2021 2:58:03 PM	32.9	38.0	0.2	28.9	49.5	49.4	1.73	1.73	-5.74	-5.74	-19.24
GEW-160	1/13/2021 10:00:54 AM	31.9	42.0	0.2	25.9	50.7	50.7	1.73	2.73	-4.73	-4.73	-20.00
GEW-160	1/20/2021 10:14:52 AM	29.3	37.5	1.7	31.5	45.2	45.2	1.23	2.14	-4.73	-4.73	-19.70
GEW-160	1/28/2021 9:57:43 AM	30.4	40.1	0.4	29.1	47.4	47.5	3.68	3.88	-5.11	-5.11	-19.32
GEW-161	1/6/2021 2:42:03 PM	12.5	49.4	1.7	36.4	61.2	61.4	1.20	3.39	-3.22	-3.22	-19.41
GEW-161	1/6/2021 2:47:36 PM	13.7	55.6	0.3	30.4	62.1	62.2	3.97	6.22	-3.35	-3.35	-19.58
GEW-161	1/13/2021 9:57:56 AM	13.8	55.0	0.6	30.6	61.8	62.0	2.08	4.80	-3.09	-3.09	-19.92
GEW-161	1/20/2021 10:11:41 AM	15.0	53.8	0.9	30.3	57.4	57.5	8.02	4.98	-3.36	-3.35	-19.49
GEW-161	1/28/2021 9:54:44 AM	15.4	52.6	1.0	31.0	67.9	67.7	2.05	4.10	-3.66	-3.66	-19.15
GEW-162	1/6/2021 2:28:15 PM	21.8	64.4	0.0	13.8	50.2	50.2	1.74	1.74	-1.49	-1.49	-19.24
GEW-162	1/6/2021 2:34:12 PM	21.5	64.4	0.1	14.0	49.5	49.5	2.47	2.14	-1.59	-1.59	-19.58
GEW-162	1/13/2021 9:54:41 AM	24.0	63.4	0.0	12.6	54.4	54.5	1.22	1.22	-1.51	-1.51	-20.00
GEW-162	1/20/2021 10:08:30 AM	22.4	63.6	0.0	14.0	46.8	46.8	3.72	2.77	-1.59	-1.58	-19.41
GEW-162	1/28/2021 9:51:16 AM	21.9	62.1	0.0	16.0	53.4	53.7	3.23	3.23	-1.89	-1.89	-19.49
GEW-163	1/11/2021 2:23:23 PM	25.9	39.9	2.5	31.7	78.9	79.4	25.98	25.81	-3.72	-3.73	-18.90

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-163	1/11/2021 2:30:04 PM	25.7	40.5	2.3	31.5	77.9	77.8	26.91	26.05	-3.45	-3.45	-19.11
GEW-163	1/22/2021 11:04:01 AM	25.8	46.4	2.6	25.2	67.0	67.1	5.66	4.90	-2.06	-2.06	-20.08
GEW-164	1/11/2021 2:44:00 PM	38.3	53.9	0.0	7.8	126.4	126.4	22.96	25.12	-0.55	-0.54	-18.31
GEW-164	1/11/2021 2:49:57 PM	38.7	51.9	0.0	9.4	126.7	126.7	13.25	11.11	-0.54	-0.54	-18.18
GEW-164	1/22/2021 2:59:38 PM	44.2	51.8	0.3	3.7	121.8	121.5	9.28	9.28	-0.26	-0.26	-19.66
GEW-165	1/13/2021 11:07:17 AM	25.9	57.4	2.7	14.0	114.0	114.0	15.21	11.67	-0.07	-0.08	-19.79
GEW-165	1/13/2021 11:12:40 AM	26.3	56.1	2.7	14.9	113.7	113.5	7.38	10.11	-0.08	-0.07	-19.32
GEW-165	1/22/2021 3:06:49 PM	16.8	42.9	6.6	33.7	108.5	109.7	28.61	19.67	-0.09	-0.08	-19.66
GEW-165	1/22/2021 3:07:37 PM	17.1	41.7	6.7	34.5	109.0	109.0	18.79	14.89	-0.09	-0.09	-19.66
GEW-166	1/13/2021 11:20:04 AM	3.0	66.6	0.0	30.4	170.0	168.5	5.19	5.21	-0.52	-0.52	-19.37
GEW-166	1/13/2021 11:25:45 AM	2.6	67.0	0.0	30.4	173.1	172.6	5.45	4.45	-0.63	-0.63	-19.45
GEW-166	1/21/2021 2:32:45 PM	4.2	67.1	0.2	28.5	172.1	171.0	3.86	2.64	-0.88	-0.89	-18.82
GEW-166	1/21/2021 2:34:00 PM	4.0	63.2	0.1	32.7	171.6	171.6	4.11	7.39	-0.93	-0.93	-18.99
GEW-167	1/13/2021 2:57:00 PM	10.7	54.7	0.0	34.6	110.2	110.2	1.56	2.70	-0.73	-0.73	-19.28
GEW-167	1/13/2021 3:03:05 PM	10.3	56.6	0.0	33.1	111.7	112.0	2.20	1.56	-0.79	-0.78	-19.28
GEW-167	1/22/2021 3:21:38 PM	13.4	53.5	0.0	33.1	106.5	106.5	4.42	3.31	-3.26	-3.26	-19.41
GEW-168	1/13/2021 2:09:34 PM	47.8	49.7	0.4	2.1	75.0	75.0	4.85	3.96	-0.32	-0.33	-17.25
GEW-168	1/13/2021 2:14:51 PM	47.5	50.4	0.4	1.7	75.5	75.4	6.85	6.25	-0.34	-0.34	-17.25
GEW-168	1/27/2021 9:55:22 AM	30.0	38.5	1.8	29.7	45.7	45.8	10.64	10.22	-1.37	-1.38	-18.44
GEW-169	1/13/2021 3:19:21 PM	36.7	57.0	0.0	6.3	74.1	74.1	10.86	10.11	-0.02	-0.02	-19.28
GEW-169	1/13/2021 3:24:54 PM	37.0	55.2	0.0	7.8	76.3	76.3	7.39	7.39	-0.02	-0.02	-19.28
GEW-169	1/25/2021 11:03:20 AM	31.1	45.7	1.8	21.4	46.7	46.7	5.91	8.87	-0.02	-0.02	-19.75
GEW-170	1/14/2021 9:28:18 AM	13.6	38.5	5.8	42.1	78.4	78.4	41.53	40.11	-0.11	-0.11	-19.96
GEW-170	1/14/2021 9:33:29 AM	12.9	36.9	5.9	44.3	78.7	78.7	6.81	4.81	-0.14	-0.14	-20.00
GEW-170	1/21/2021 11:28:43 AM	13.7	33.0	6.8	46.5	81.4	81.3	13.05	12.75	-0.11	-0.11	-19.76
GEW-170	1/21/2021 11:30:13 AM	13.5	33.5	6.7	46.3	81.2	81.3	13.35	13.06	-0.09	-0.09	-19.04
GEW-171	1/14/2021 2:11:36 PM	25.9	42.8	4.9	26.4	48.7	48.5	2.13	2.13	-3.03	-3.02	-17.89
GEW-171	1/14/2021 2:18:25 PM	25.5	42.6	4.8	27.1	48.2	48.2	3.01	3.01	-4.57	-4.58	-17.84
GEW-171	1/29/2021 9:02:17 AM	26.2	49.8	3.5	20.5	38.3	38.3	1.26	1.26	-2.80	-2.81	-17.59
GEW-172	1/14/2021 11:18:06 AM	15.8	52.9	2.3	29.0	102.3	102.5	9.94	7.97	-1.13	-1.13	-18.82
GEW-172	1/14/2021 11:23:23 AM	15.2	56.9	2.0	25.9	102.3	102.5	7.51	4.60	-1.11	-1.12	-18.69
GEW-172	1/29/2021 9:55:51 AM	13.0	47.3	4.9	34.8	89.3	88.5	2.70	2.70	-4.27	-4.27	-19.07
GEW-174	1/15/2021 9:27:10 AM	4.0	34.7	8.7	52.6	36.3	36.2	8.53	5.23	-0.09	-0.10	-20.59
GEW-174	1/15/2021 9:33:36 AM	4.8	40.0	6.5	48.7	36.6	36.5	6.03	8.53	-0.15	-0.14	-20.30
GEW-174	1/21/2021 11:42:58 AM	15.2	46.4	2.5	35.9	63.9	64.0	15.48	12.21	-0.04	-0.05	-19.42
GEW-175	1/5/2021 2:12:13 PM	16.5	22.5	8.8	52.2	104.8	104.4	27.74	27.86	-0.13	-0.14	-18.97
GEW-175	1/5/2021 2:21:11 PM	16.7	22.3	8.5	52.5	94.8	94.1	2.72	3.84	-0.04	-0.04	-19.22
GEW-175	1/11/2021 2:17:33 PM	21.5	25.3	6.0	47.2	50.8	50.8	12.15	13.50	-0.05	-0.05	-19.50
GEW-175	1/11/2021 2:23:30 PM	21.6	23.8	6.1	48.5	51.2	51.0	15.45	15.99	-0.05	-0.04	-19.46
GEW-175	1/19/2021 8:36:57 AM	14.5	17.5	10.7	57.3	36.8	37.0	6.03	4.26	-0.01	-0.01	-20.34
GEW-175	1/19/2021 8:38:09 AM	14.4	17.9	10.6	57.1	38.2	38.5	5.21	3.00	-0.01	-0.01	-20.30

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		(% vol)				°F		scfm		H ₂ O		
GEW-177	1/14/2021 9:57:53 AM	17.1	52.4	1.6	28.9	157.3	157.4	20.91	16.03	-14.86	-14.86	-19.96
GEW-177	1/14/2021 10:04:52 AM	16.9	51.8	1.3	30.0	157.7	157.3	16.52	18.70	-14.86	-14.86	-19.62
GEW-177	1/21/2021 11:32:45 AM	15.9	49.1	1.3	33.7	155.6	155.6	4.12	5.66	-14.42	-14.42	-19.71
GEW-177	1/21/2021 11:34:19 AM	15.9	50.8	1.3	32.0	156.0	156.0	19.16	18.11	-14.42	-14.42	-19.55
GEW-178	1/13/2021 2:54:18 PM	47.3	48.3	0.0	4.4	56.7	56.7	6.13	5.62	-0.10	-0.11	-19.21
GEW-178	1/13/2021 2:59:41 PM	47.4	47.8	0.0	4.8	56.6	56.6	6.13	5.62	-0.10	-0.09	-18.87
GEW-178	1/22/2021 3:06:45 PM	44.6	44.2	0.9	10.3	52.4	52.6	4.63	4.10	-0.19	-0.19	-19.84
GEW-179	1/13/2021 3:47:39 PM	47.7	52.3	0.0	0.0	70.1	70.0	3.78	2.39	-0.02	-0.03	-19.25
GEW-179	1/13/2021 3:52:38 PM	49.8	50.2	0.0	0.0	68.6	68.6	2.40	2.68	-0.03	-0.02	-19.21
GEW-179	1/22/2021 2:46:18 PM	49.5	44.5	0.0	6.0	66.5	66.5	5.24	5.24	-0.72	-0.72	-19.71
GEW-180	1/13/2021 4:54:00 PM	45.0	55.0	0.0	0.0	58.1	58.1	3.70	1.65	-17.97	-17.97	-18.87
GEW-180	1/13/2021 4:59:34 PM	45.4	54.6	0.0	0.0	58.4	58.3	3.51	4.96	-17.93	-17.93	-19.08
GEW-180	1/29/2021 9:32:43 AM	40.6	59.4	0.0	0.0	51.3	51.3	2.88	4.40	-18.57	-18.57	-20.21
GEW-181	1/14/2021 2:32:54 PM	29.5	70.5	0.0	0.0	52.0	51.8	14.15	18.20	-17.39	-17.39	-19.87
GEW-181	1/14/2021 2:38:59 PM	30.7	68.5	0.1	0.7	51.3	51.3	26.37	30.10	-17.48	-17.48	-19.58
GEW-181	1/29/2021 9:11:08 AM	34.0	63.5	0.0	2.5	42.8	42.8	13.78	14.64	-19.25	-19.25	-20.00
GEW-185	1/11/2021 10:58:14 AM	38.1	57.3	0.0	4.6	60.9	60.9	4.19	4.19	-0.49	-0.49	-20.21
GEW-185	1/11/2021 11:03:52 AM	38.3	55.0	0.0	6.7	61.0	61.1	4.01	3.20	-0.48	-0.48	-20.00
GEW-185	1/22/2021 10:45:35 AM	40.5	56.9	0.0	2.6	65.7	65.6	4.48	5.08	-0.45	-0.45	-20.25
GEW-186	1/14/2021 9:19:11 AM	39.1	48.4	1.6	10.9	65.0	65.0	2.40	2.40	-0.11	-0.11	-20.00
GEW-186	1/14/2021 9:25:03 AM	39.5	47.8	1.5	11.2	65.7	65.6	1.70	2.08	-0.10	-0.10	-20.04
GEW-186	1/25/2021 11:15:16 AM	39.1	48.1	1.2	11.6	52.9	53.0	11.79	12.04	-0.15	-0.14	-20.00
GEW-187	1/6/2021 2:16:13 PM	46.8	52.0	0.0	1.2	91.7	91.3	11.84	15.85	-3.08	-3.08	-18.86
GEW-187	1/6/2021 2:21:33 PM	46.7	52.4	0.0	0.9	92.4	92.8	10.26	7.84	-3.10	-3.09	-18.94
GEW-187	1/13/2021 9:51:00 AM	47.3	52.2	0.0	0.5	93.6	93.1	9.39	5.88	-3.10	-3.11	-19.53
GEW-187	1/20/2021 10:04:37 AM	47.1	51.5	0.0	1.4	91.0	91.4	11.96	18.47	-3.28	-3.27	-19.28
GEW-187	1/28/2021 9:47:16 AM	45.3	50.7	0.0	4.0	93.5	93.4	11.53	11.53	-3.16	-3.16	-18.82
GEW-217	1/13/2021 3:03:13 PM	7.8	61.2	0.0	31.0	96.7	96.9	5.21	3.41	-0.73	-0.73	-19.17
GEW-217	1/13/2021 3:08:29 PM	7.7	63.1	0.0	29.2	95.3	95.5	7.38	8.05	-1.02	-1.04	-19.08
GEW-217	1/22/2021 2:57:35 PM	13.6	57.9	0.1	28.4	100.6	100.6	11.37	11.37	-3.77	-3.77	-19.71
GEW-218	1/13/2021 3:23:35 PM	32.6	51.7	0.0	15.7	77.8	77.8	7.45	7.17	-0.15	-0.14	-19.12
GEW-218	1/13/2021 3:29:11 PM	33.0	51.7	0.0	15.3	78.0	78.0	7.99	8.07	-0.17	-0.16	-19.17
GEW-218	1/22/2021 2:54:45 PM	15.9	44.2	0.2	39.7	69.8	69.8	10.55	10.76	-0.46	-0.46	-19.67
GEW-220	1/13/2021 3:58:11 PM	22.8	53.1	0.0	24.1	67.0	67.0	4.33	2.08	-1.04	-1.04	-18.87
GEW-220	1/13/2021 4:03:56 PM	24.0	53.4	0.0	22.6	74.8	75.0	4.09	3.91	-1.66	-1.66	-19.21
GEW-220	1/25/2021 10:38:16 AM	24.8	57.4	0.0	17.8	61.2	61.1	3.06	2.81	-0.56	-0.55	-20.43
GEW-220	1/29/2021 11:06:54 AM	32.6	44.1	1.8	21.5	58.9	58.9	3.94	2.66	-8.78	-8.78	-19.45
GEW-221	1/14/2021 2:05:51 PM	20.9	60.1	0.0	19.0	47.6	47.6	5.82	5.08	6.77	6.77	-19.55
GEW-221	1/14/2021 2:12:35 PM	21.0	62.1	0.0	16.9	57.7	57.5	3.59	4.14	-9.47	-9.47	-19.76
GEW-221	1/25/2021 11:08:30 AM	30.0	50.3	1.1	18.6	44.9	44.9	4.59	4.64	-15.86	-15.86	-20.43
GEW-221	1/29/2021 9:40:18 AM	26.3	45.7	1.6	26.4	51.0	51.5	3.96	3.77	-13.51	-13.51	-19.87

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		(% vol)				°F		scfm		H ₂ O		
GEW-222	1/14/2021 2:01:36 PM	51.7	45.2	0.5	2.6	59.0	59.1	11.88	10.83	-11.14	-11.14	-19.03
GEW-222	1/14/2021 2:07:05 PM	52.8	42.2	0.4	4.6	59.0	58.8	8.43	9.38	-11.44	-11.44	-19.20
GEW-222	1/29/2021 9:47:07 AM	52.9	40.5	0.5	6.1	48.5	48.5	5.74	5.07	-14.44	-14.44	-20.00
GEW-223	1/14/2021 11:27:52 AM	31.7	68.2	0.0	0.1	112.2	112.6	6.73	10.29	-4.07	-4.06	-18.99
GEW-223	1/14/2021 11:33:18 AM	31.9	66.9	0.0	1.2	112.5	112.3	7.79	6.07	-4.03	-4.03	-19.53
GEW-223	1/29/2021 8:53:48 AM	33.3	63.4	0.0	3.3	110.0	110.2	10.67	10.44	-4.23	-4.25	-19.66
GEW-224	1/14/2021 10:34:20 AM	38.5	58.8	0.0	2.7	130.0	130.1	11.37	13.71	-13.51	-13.51	-17.12
GEW-224	1/14/2021 10:39:45 AM	38.3	59.5	0.0	2.2	129.8	130.0	6.20	9.02	-13.51	-13.17	-15.73
GEW-224	1/29/2021 8:43:20 AM	29.9	50.2	4.6	15.3	119.2	119.4	15.49	15.83	-13.17	-13.17	-17.46
GEW-225	1/14/2021 10:43:42 AM	32.7	50.4	0.5	16.4	114.0	114.0	11.57	12.67	-8.95	-8.95	-20.30
GEW-225	1/14/2021 10:51:09 AM	33.0	50.6	0.5	15.9	115.5	116.0	9.88	10.86	-9.12	-9.12	-20.21
GEW-225	1/29/2021 8:39:16 AM	29.6	48.0	0.0	22.4	143.8	143.2	8.51	7.95	-7.64	-7.64	-19.83
GEW-225	1/29/2021 8:40:06 AM	26.7	52.4	0.0	20.9	143.2	142.9	10.32	10.22	-7.43	-7.43	-20.00
GEW-226	1/15/2021 8:51:01 AM	38.2	55.8	0.0	6.0	161.6	161.1	16.95	17.17	-1.41	-1.41	-19.49
GEW-226	1/15/2021 8:57:10 AM	39.9	47.5	0.0	12.6	162.4	162.4	17.19	17.13	-1.47	-1.48	-19.66
GEW-226	1/21/2021 11:50:33 AM	39.9	49.6	0.0	10.5	162.9	162.4	16.66	16.91	-1.32	-1.33	-19.04
GEW-226	1/21/2021 11:52:27 AM	39.7	49.6	0.0	10.7	163.3	164.3	87.09	87.09	-13.49	-13.49	-20.43
GEW-226	1/21/2021 11:53:59 AM	40.1	49.0	0.0	10.9	165.2	165.2	16.42	16.91	-1.34	-1.33	-19.08
GEW-227	1/5/2021 8:54:42 AM	1.8	52.1	0.2	45.9	177.5	178.0	1.71	4.19	0.02	0.03	-19.70
GEW-227	1/5/2021 8:58:02 AM	1.2	57.4	0.1	41.3	190.9	191.1	5.97	6.71	-0.15	-0.15	-19.70
GEW-227	1/8/2021 1:53:43 PM	8.5	42.3	2.4	46.8	172.6	174.5	2.44	4.21	-0.40	-0.39	-20.25
GEW-227	1/8/2021 2:00:33 PM	8.6	40.9	2.3	48.2	175.3	176.9	3.44	4.53	-0.40	-0.40	-20.59
GEW-227	1/18/2021 2:22:14 PM	9.5	38.4	3.0	49.1	178.6	178.6	1.97	2.79	-0.48	-0.48	-19.28
GEW-227	1/18/2021 2:24:32 PM	9.4	38.9	2.8	48.9	171.0	172.1	3.00	2.64	-0.24	-0.24	-19.15
GEW-228	1/8/2021 9:49:19 AM	2.1	8.0	14.9	75.0	114.3	113.7	4.66	4.66	-0.09	-0.08	-20.25
GEW-228	1/8/2021 9:55:46 AM	2.1	8.7	14.8	74.4	113.0	113.2	4.26	4.26	-0.08	-0.08	-19.92
GEW-228	1/19/2021 1:54:01 PM	2.3	12.4	13.0	72.3	105.5	105.3	5.01	5.37	-0.15	-0.15	-19.12
GEW-228	1/19/2021 1:55:28 PM	2.3	12.4	13.0	72.3	103.8	103.5	5.84	5.51	-0.12	-0.13	-19.04
GEW-229	1/8/2021 10:00:41 AM	1.5	12.8	6.6	79.1	71.8	70.2	11.92	11.21	-0.06	-0.06	-20.08
GEW-229	1/8/2021 10:06:23 AM	1.5	12.8	6.5	79.2	79.2	79.1	11.03	7.93	-0.05	-0.05	-20.30
GEW-229	1/19/2021 1:59:29 PM	1.8	14.5	7.6	76.1	78.9	79.1	7.34	6.91	-0.12	-0.15	-19.38
GEW-229	1/19/2021 2:01:09 PM	1.7	15.5	7.6	75.2	78.2	78.1	5.13	5.13	-0.15	-0.15	-18.96
GEW-232	1/7/2021 2:26:31 PM	27.6	59.8	0.0	12.6	91.5	91.5	4.43	1.98	-0.26	-0.27	-20.13
GEW-232	1/7/2021 2:32:10 PM	27.9	58.2	0.0	13.9	84.4	83.7	4.17	5.80	-0.31	-0.31	-19.96
GEW-232	1/29/2021 10:28:33 AM	26.5	59.7	0.0	13.8	107.0	107.2	10.72	7.62	-0.31	-0.30	-19.79
GEW-233	1/8/2021 2:06:22 PM	2.4	33.3	6.4	57.9	35.7	35.9	11.45	8.53	-0.13	-0.12	-20.17
GEW-233	1/8/2021 2:12:50 PM	2.4	30.6	6.5	60.5	35.6	35.6	5.54	8.53	-0.10	-0.11	-20.30
GEW-233	1/19/2021 2:45:39 PM	1.7	29.0	8.4	60.9	42.9	42.9	6.90	7.35	-0.12	-0.11	-19.50
GEW-233	1/19/2021 2:47:04 PM	1.7	29.4	8.4	60.5	42.8	42.8	6.30	7.02	-0.10	-0.09	-19.55
GEW-234	1/11/2021 9:40:13 AM	13.2	49.6	0.0	37.2	198.6	197.9	13.01	11.00	-0.38	-0.39	-18.99
GEW-234	1/11/2021 9:46:29 AM	12.2	51.2	0.0	36.6	198.6	198.4	12.36	12.08	-0.36	-0.36	-20.72

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Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-234	1/21/2021 8:56:24 AM	13.8	49.8	0.0	36.4	195.6	195.0	12.04	11.30	-0.33	-0.33	-19.32
GEW-234	1/21/2021 8:57:28 AM	13.3	49.7	0.0	37.0	195.2	195.1	12.72	12.35	-0.32	-0.33	-19.28
GEW-235	1/11/2021 11:16:22 AM	30.8	55.3	0.0	13.9	102.8	103.3	5.09	6.17	-3.89	-3.90	-19.96
GEW-235	1/11/2021 11:21:36 AM	30.5	55.2	0.0	14.3	105.2	105.2	4.42	5.74	-3.94	-3.94	-20.00
GEW-235	1/22/2021 11:00:56 AM	32.4	52.6	0.0	15.0	110.8	111.0	10.90	7.97	-3.49	-3.49	-20.34
GEW-236	1/15/2021 10:22:37 AM	1.7	56.3	0.0	42.0	203.9	203.9	5.37	3.29	-0.05	-0.05	-19.92
GEW-236	1/15/2021 10:28:33 AM	1.2	57.5	0.0	41.3	203.1	203.9	3.92	3.29	-0.02	-0.03	-19.28
GEW-236	1/21/2021 2:46:26 PM	6.5	28.5	6.8	58.2	196.6	196.5	23.35	24.14	-1.99	-2.00	-18.31
GEW-236	1/21/2021 2:49:21 PM	6.4	28.5	6.8	58.3	196.5	196.4	14.99	16.48	-1.15	-1.16	-18.65
GEW-237	1/11/2021 2:05:35 PM	50.1	49.9	0.0	0.0	106.0	106.3	4.62	2.50	0.08	0.09	-19.33
GEW-237	1/11/2021 2:12:04 PM	51.5	46.7	0.0	1.8	132.6	132.9	5.45	4.54	-0.19	-0.19	-19.25
GEW-237	1/11/2021 2:13:45 PM	50.8	46.7	0.0	2.5	135.3	135.9	11.93	13.13	-0.28	-0.27	-19.25
GEW-237	1/21/2021 9:24:26 AM	45.0	41.3	1.5	12.2	128.3	128.6	12.08	8.70	-0.05	-0.04	-20.17
GEW-238	1/7/2021 2:53:10 PM	13.0	63.0	0.0	24.0	186.4	184.5	41.38	41.48	-1.78	-1.78	-19.58
GEW-238	1/7/2021 2:59:39 PM	13.1	63.4	0.0	23.5	186.4	187.0	41.74	42.24	-1.84	-1.84	-18.65
GEW-238	1/20/2021 11:36:37 AM	15.6	62.9	0.4	21.1	185.9	186.1	40.63	42.29	-1.19	-1.19	-18.35
GEW-238	1/20/2021 11:37:39 AM	15.1	63.9	0.4	20.6	185.9	186.4	42.36	41.23	-1.13	-1.14	-18.73
GEW-239	1/7/2021 9:11:53 AM	1.6	56.4	0.0	42.0	192.9	192.3	9.94	8.48	-0.13	-0.12	-20.08
GEW-239	1/7/2021 9:19:24 AM	1.2	57.1	0.0	41.7	196.4	196.4	8.04	7.92	-0.12	-0.12	-20.04
GEW-239	1/19/2021 9:10:48 AM	1.5	58.3	0.0	40.2	200.1	199.3	8.43	8.49	-0.42	-0.43	-20.42
GEW-239	1/19/2021 9:11:59 AM	1.3	57.1	0.0	41.6	200.1	200.0	8.95	8.27	-0.41	-0.42	-20.38
GEW-240	1/15/2021 10:02:28 AM	22.1	39.0	0.0	38.9	185.7	185.7	12.39	11.84	-0.05	-0.05	-20.59
GEW-240	1/15/2021 10:08:04 AM	22.8	36.7	0.0	40.5	186.1	185.7	9.66	11.76	-0.05	-0.04	-20.47
GEW-240	1/21/2021 11:46:23 AM	17.7	38.4	0.0	43.9	185.7	185.6	9.05	10.34	-0.09	-0.08	-19.38
GEW-240	1/21/2021 11:47:18 AM	17.7	36.9	0.0	45.4	185.7	185.2	11.10	9.61	-0.08	-0.08	-19.38
GEW-241	1/13/2021 2:43:41 PM	41.4	48.8	0.0	9.8	122.9	122.9	14.70	17.49	-0.16	-0.15	-20.18
GEW-241	1/13/2021 2:50:08 PM	42.1	47.8	0.0	10.1	122.6	122.4	15.11	14.76	-0.15	-0.17	-18.70
GEW-241	1/25/2021 10:09:03 AM	40.1	43.3	0.0	16.6	119.4	119.4	11.17	12.29	-0.11	-0.11	-20.94
GEW-242	1/15/2021 10:53:33 AM	20.3	54.4	1.1	24.2	155.2	155.2	8.96	9.44	-13.97	-13.97	-20.47
GEW-242	1/15/2021 10:59:40 AM	21.1	56.7	0.4	21.8	156.1	156.0	10.67	10.67	-14.77	-14.77	-20.55
GEW-242	1/28/2021 3:40:48 PM	13.9	50.3	3.1	32.7	158.5	154.6	3.63	3.66	-4.89	-4.89	-19.28
GEW-242	1/28/2021 3:43:42 PM	13.4	51.7	2.7	32.2	148.0	150.2	2.73	1.78	-2.49	-2.50	-19.11
GEW-243	1/13/2021 2:22:12 PM	21.7	68.3	0.0	10.0	63.1	68.6	13.09	12.63	-0.08	-0.07	-19.28
GEW-243	1/13/2021 2:29:34 PM	20.4	69.5	0.0	10.1	101.4	101.1	5.73	6.65	-0.11	-0.10	-19.24
GEW-243	1/25/2021 10:46:17 AM	21.4	38.0	0.0	40.6	157.7	157.7	4.97	4.55	-11.14	-11.14	-20.25
GEW-243	1/25/2021 10:47:16 AM	20.3	39.6	0.0	40.1	157.7	157.7	15.47	13.17	-11.48	-11.14	-20.68
GEW-244	1/13/2021 1:49:07 PM	25.9	63.2	0.1	10.8	101.3	101.1	2.23	2.95	-2.76	-2.76	-18.90
GEW-244	1/13/2021 1:54:43 PM	25.8	62.0	0.0	12.2	102.5	102.5	2.23	2.94	-3.00	-3.00	-18.82
GEW-244	1/22/2021 3:18:03 PM	16.4	51.6	0.0	32.0	114.3	114.3	2.18	2.44	-2.15	-2.14	-19.32
GEW-245	1/11/2021 3:05:55 PM	25.0	62.9	0.0	12.1	49.9	49.9	3.71	3.27	-0.40	-0.39	-18.99
GEW-245	1/11/2021 3:12:28 PM	23.3	65.5	0.0	11.2	50.2	50.2	2.47	3.27	-0.49	-0.48	-19.03

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Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-245	1/22/2021 3:02:29 PM	24.7	64.3	0.0	11.0	49.4	49.4	6.06	5.39	-0.39	-0.40	-19.66
GEW-246	1/7/2021 10:45:23 AM	19.0	62.7	0.0	18.3	193.6	194.3	6.95	6.17	-0.17	-0.16	-20.34
GEW-246	1/7/2021 10:51:56 AM	19.1	62.2	0.0	18.7	193.1	192.9	2.89	4.83	-0.28	-0.27	-20.42
GEW-246	1/20/2021 11:45:10 AM	17.9	63.5	0.0	18.6	200.1	200.8	5.49	8.16	-0.11	-0.11	-18.94
GEW-246	1/20/2021 11:46:08 AM	17.5	62.1	0.0	20.4	200.8	200.8	4.58	4.58	-0.13	-0.13	-18.94
GEW-247	1/11/2021 10:24:13 AM	37.8	48.6	0.0	13.6	44.3	44.3	5.99	5.00	-2.38	-2.40	-20.56
GEW-247	1/11/2021 10:30:36 AM	38.3	47.7	0.0	14.0	45.2	45.1	4.83	4.83	-2.39	-2.39	-20.68
GEW-247	1/29/2021 11:18:04 AM	13.5	52.9	0.0	33.6	85.2	87.1	9.80	6.81	-0.83	-0.83	-19.41
GEW-248	1/4/2021 3:24:31 PM	9.5	29.3	6.2	55.0	182.7	182.1	8.61	8.27	-0.07	-0.07	-19.62
GEW-248	1/4/2021 3:26:24 PM	8.9	30.8	6.1	54.2	182.1	182.1	7.73	6.51	-0.07	-0.08	-19.45
GEW-248	1/15/2021 10:37:21 AM	5.4	45.1	2.1	47.4	71.6	71.8	15.81	11.11	-0.42	-0.41	-20.55
GEW-248	1/15/2021 10:44:14 AM	8.8	30.4	4.2	56.6	72.0	72.0	13.40	9.76	-0.42	-0.42	-20.51
GEW-248	1/18/2021 10:57:43 AM	13.2	23.2	8.4	55.2	121.6	117.1	13.31	13.72	-0.59	-0.58	-19.92
GEW-248	1/18/2021 11:00:23 AM	13.1	22.5	8.4	56.0	116.6	116.3	13.56	15.54	-0.29	-0.29	-19.70
GEW-249	1/11/2021 1:54:39 PM	39.0	59.5	0.0	1.5	93.9	93.9	2.80	5.12	0.02	0.04	-19.55
GEW-249	1/11/2021 2:01:30 PM	39.0	59.8	0.0	1.2	112.8	113.7	4.69	4.69	-0.21	-0.21	-19.63
GEW-249	1/29/2021 11:12:10 AM	39.9	55.7	0.0	4.4	104.3	104.5	3.35	1.93	-0.01	-0.02	-19.28
GEW-250	1/8/2021 2:48:29 PM	0.7	26.7	9.2	63.4	141.2	140.5	5.35	7.72	-0.02	-0.03	-20.34
GEW-250	1/8/2021 2:54:43 PM	0.7	22.9	9.4	67.0	139.6	139.9	13.74	15.22	-0.37	-0.37	-20.30
GEW-250	1/19/2021 2:50:09 PM	0.4	22.4	11.9	65.3	153.3	153.3	3.10	2.73	-0.05	-0.06	-19.63
GEW-250	1/19/2021 2:51:40 PM	0.4	21.6	11.9	66.1	152.5	152.5	4.39	4.27	-0.03	-0.04	-19.63
GEW-251	1/7/2021 10:05:51 AM	6.9	58.5	0.0	34.6	199.3	199.3	16.39	14.44	-0.17	-0.16	-21.18
GEW-251	1/7/2021 10:12:29 AM	7.3	56.1	0.0	36.6	198.2	198.1	15.26	14.21	-0.16	-0.17	-20.97
GEW-251	1/19/2021 8:49:13 AM	8.3	63.1	0.0	28.6	201.6	201.6	16.20	15.25	-0.17	-0.18	-21.14
GEW-251	1/19/2021 8:50:17 AM	7.9	62.8	0.0	29.3	201.6	201.6	16.37	16.37	-0.17	-0.17	-21.61
GEW-252	1/13/2021 2:32:12 PM	29.3	56.2	0.0	14.5	173.6	173.7	5.83	5.83	0.07	0.07	-18.83
GEW-252	1/13/2021 2:38:48 PM	30.2	56.1	0.0	13.7	179.2	179.2	6.11	7.28	-0.33	-0.31	-18.74
GEW-252	1/21/2021 11:11:45 AM	33.8	56.9	0.0	9.3	177.8	176.5	14.07	11.35	-2.60	-2.60	-19.62
GEW-252	1/21/2021 11:12:52 AM	34.7	53.5	0.0	11.8	178.0	176.8	10.67	11.40	-2.53	-2.54	-19.49
GEW-253	1/8/2021 10:49:21 AM	2.2	19.8	11.0	67.0	180.3	180.3	6.15	6.89	-0.01	-0.01	-20.63
GEW-253	1/8/2021 10:56:54 AM	2.4	17.7	11.0	68.9	180.3	179.8	6.96	5.83	-0.01	-0.01	-20.51
GEW-253	1/19/2021 2:28:38 PM	2.3	23.6	8.9	65.2	177.5	178.0	4.10	5.07	-0.03	-0.02	-19.50
GEW-253	1/19/2021 2:29:35 PM	2.3	23.7	9.0	65.0	178.0	177.8	7.57	6.51	-0.04	-0.03	-19.42
GEW-25	1/5/2021 9:32:00 AM	57.1	39.0	0.0	3.9	58.2	58.1	8.29	9.86	-0.73	-0.73	-14.14
GEW-25	1/12/2021 8:53:07 AM	55.6	37.9	0.0	6.5	52.4	52.3	2.67	2.66	-1.18	-1.18	-14.36
GEW-25	1/12/2021 8:59:16 AM	55.0	37.8	0.0	7.2	52.6	52.6	3.90	4.27	-1.18	-1.18	-13.86
GEW-25	1/13/2021 4:23:06 PM	61.8	38.2	0.0	0.0	53.4	53.5	5.66	5.92	0.20	0.20	-13.48
GEW-25	1/13/2021 4:30:45 PM	67.8	32.2	0.0	0.0	57.6	57.7	4.69	3.98	-0.53	-0.52	-13.69
GEW-25	1/14/2021 8:32:00 AM	61.4	37.0	0.0	1.6	50.2	50.2	5.55	4.97	-0.35	-0.34	-13.82
GEW-25	1/14/2021 8:33:37 AM	61.0	37.1	0.0	1.9	51.5	51.6	7.32	7.32	-0.65	-0.65	-13.61
GEW-25	1/20/2021 9:01:31 AM	58.5	40.0	0.0	1.5	53.2	53.3	7.30	8.19	-0.42	-0.42	-13.98

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Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-2S	1/26/2021 10:30:27 AM	60.7	39.3	0.0	0.0	51.3	51.3	3.71	4.29	-0.56	-0.56	-14.24
GEW-2S	1/26/2021 10:32:03 AM	60.8	39.0	0.0	0.2	52.0	52.1	3.03	3.71	-0.69	-0.69	-14.11
GIW-01	1/6/2021 8:44:12 AM	33.9	57.5	0.0	8.6	103.8	103.8	3.86	3.86	-1.26	-1.26	-19.75
GIW-01	1/6/2021 8:50:04 AM	34.0	56.1	0.0	9.9	104.0	104.0	8.12	8.11	-1.27	-1.26	-19.62
GIW-01	1/13/2021 8:34:08 AM	34.8	57.1	0.2	7.9	100.4	100.1	5.02	5.61	-1.14	-1.14	-20.00
GIW-01	1/20/2021 9:05:43 AM	35.5	56.1	0.4	8.0	109.7	109.7	11.93	12.82	-1.33	-1.34	-19.96
GIW-01	1/28/2021 8:45:23 AM	35.6	53.7	0.5	10.2	116.6	116.8	1.89	1.89	-1.31	-1.30	-18.48
GIW-02	1/6/2021 8:55:11 AM	14.3	59.2	0.3	26.2	38.5	38.5	1.26	1.79	-0.28	-0.27	-20.51
GIW-02	1/6/2021 9:00:54 AM	14.3	60.3	0.2	25.2	38.7	38.8	3.57	2.53	-0.28	-0.27	-20.30
GIW-02	1/13/2021 8:37:02 AM	15.0	63.8	0.3	20.9	43.7	43.7	3.54	3.07	-0.16	-0.17	-20.30
GIW-02	1/20/2021 9:08:31 AM	13.1	56.7	1.9	28.3	49.1	49.3	3.91	3.50	-0.24	-0.24	-20.13
GIW-02	1/28/2021 8:48:30 AM	15.5	57.8	0.3	26.4	48.0	48.5	2.77	2.77	-0.33	-0.32	-19.49
GIW-03	1/6/2021 9:04:24 AM	24.9	54.6	0.0	20.5	39.9	39.8	2.15	1.75	-7.43	-7.43	-20.38
GIW-03	1/6/2021 9:10:51 AM	26.0	47.2	0.0	26.8	40.0	40.0	3.03	1.75	-7.51	-7.51	-20.34
GIW-03	1/13/2021 8:40:07 AM	23.5	54.3	0.0	22.2	43.7	43.7	1.74	2.46	-7.05	-7.05	-20.30
GIW-03	1/20/2021 9:11:06 AM	24.4	54.8	0.0	20.8	45.6	45.6	3.67	3.67	-7.43	-7.43	-20.38
GIW-03	1/28/2021 8:52:53 AM	24.2	53.4	0.0	22.4	43.1	43.2	1.74	1.74	-7.13	-7.13	-19.92
GIW-04	1/6/2021 9:15:08 AM	25.4	45.3	2.0	27.3	39.2	39.1	3.96	3.76	-3.55	-3.54	-20.30
GIW-04	1/6/2021 9:20:23 AM	27.9	48.0	0.3	23.8	39.2	39.2	2.80	4.15	-3.56	-3.56	-20.30
GIW-04	1/13/2021 8:44:23 AM	23.7	47.9	1.7	26.7	42.5	42.5	1.25	1.76	-2.82	-2.81	-20.00
GIW-04	1/20/2021 9:16:27 AM	26.2	46.3	1.8	25.7	41.5	41.5	1.76	3.74	-3.27	-3.28	-19.96
GIW-04	1/28/2021 8:58:58 AM	27.7	45.7	1.9	24.7	45.7	45.8	1.24	1.24	-2.92	-2.92	-19.53
GIW-05	1/6/2021 9:26:35 AM	33.7	38.1	1.2	27.0	38.5	38.6	2.16	2.50	-5.40	-5.40	-20.55
GIW-05	1/6/2021 9:32:29 AM	36.8	40.4	0.0	22.8	39.0	39.1	3.74	2.79	-5.45	-5.45	-20.51
GIW-05	1/13/2021 8:48:54 AM	34.6	40.2	0.8	24.4	42.4	42.5	1.75	2.48	-4.98	-4.98	-19.96
GIW-05	1/20/2021 9:20:40 AM	34.4	39.5	1.4	24.7	40.6	40.5	2.78	3.05	-5.15	-5.15	-19.96
GIW-05	1/28/2021 9:02:48 AM	33.5	37.6	1.7	27.2	37.0	37.1	3.76	3.54	-5.11	-5.11	-19.53
GIW-06	1/6/2021 9:38:29 AM	37.9	37.6	0.3	24.2	39.2	39.2	2.43	1.72	-15.53	-15.53	-20.30
GIW-06	1/6/2021 9:44:21 AM	39.6	39.3	0.0	21.1	39.7	39.8	3.43	2.71	-15.53	-15.53	-20.30
GIW-06	1/13/2021 8:56:51 AM	36.0	38.6	0.0	25.4	43.7	43.7	2.73	2.99	-10.81	-10.81	-19.92
GIW-06	1/20/2021 9:23:44 AM	38.2	41.2	0.0	20.6	42.2	42.5	2.47	1.74	-7.34	-7.34	-20.00
GIW-06	1/28/2021 9:05:46 AM	37.4	45.3	0.0	17.3	42.1	42.8	3.30	2.16	-2.43	-2.43	-19.49
GIW-07	1/6/2021 9:48:29 AM	51.3	46.1	0.1	2.5	40.1	40.1	4.53	3.77	-1.79	-1.78	-20.34
GIW-07	1/6/2021 9:55:25 AM	52.1	46.1	0.0	1.8	41.2	41.2	3.07	3.31	-1.78	-1.78	-20.42
GIW-07	1/13/2021 8:59:39 AM	51.7	46.3	0.1	1.9	46.1	46.1	3.72	3.72	-1.48	-1.48	-20.30
GIW-07	1/20/2021 9:26:20 AM	49.9	45.6	0.6	3.9	43.4	43.6	4.14	4.14	-1.61	-1.61	-20.04
GIW-07	1/28/2021 9:08:35 AM	48.1	46.8	0.7	4.4	47.6	47.9	3.50	3.50	-1.68	-1.68	-19.66
GIW-08	1/6/2021 10:15:05 AM	51.0	43.3	0.0	5.7	44.2	44.3	3.51	3.29	-2.78	-2.78	-20.30
GIW-08	1/6/2021 10:20:40 AM	51.4	42.5	0.0	6.1	44.8	44.9	5.41	3.92	-2.80	-2.80	-20.42
GIW-08	1/13/2021 9:10:38 AM	52.7	43.2	0.0	4.1	47.9	47.9	3.49	1.75	-2.47	-2.47	-20.30
GIW-08	1/20/2021 9:29:23 AM	50.9	45.0	0.0	4.1	46.7	46.8	2.77	2.14	-2.55	-2.56	-19.83

January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GIW-08	1/28/2021 9:11:27 AM	50.7	45.2	0.0	4.1	51.3	51.5	3.24	1.22	-2.61	-2.61	-19.49
GIW-09	1/6/2021 10:23:38 AM	37.3	38.4	0.0	24.3	44.4	44.6	3.06	3.06	-0.75	-0.74	-20.59
GIW-09	1/6/2021 10:29:07 AM	37.8	39.7	0.0	22.5	45.2	45.2	4.98	3.94	-0.80	-0.79	-20.30
GIW-09	1/13/2021 9:13:03 AM	39.4	40.3	0.0	20.3	45.5	45.6	2.16	2.16	-0.43	-0.43	-20.00
GIW-09	1/20/2021 9:32:10 AM	38.9	40.9	0.0	20.2	41.5	41.6	1.78	2.17	-0.69	-0.68	-20.08
GIW-09	1/28/2021 9:14:02 AM	38.1	39.4	0.0	22.5	43.7	44.8	3.06	3.06	-0.67	-0.68	-19.49
GIW-10	1/6/2021 10:43:30 AM	31.7	36.0	0.0	32.3	44.6	45.2	3.28	2.48	-3.36	-3.36	-20.30
GIW-10	1/6/2021 10:49:04 AM	31.8	34.0	0.0	34.2	44.9	44.9	2.15	2.15	-3.33	-3.33	-20.30
GIW-10	1/13/2021 9:15:37 AM	31.8	38.4	0.0	29.8	47.9	47.9	4.77	3.49	-3.01	-3.01	-20.30
GIW-10	1/20/2021 9:34:36 AM	32.0	37.2	0.0	30.8	44.1	44.3	3.28	3.72	-3.36	-3.36	-19.92
GIW-10	1/28/2021 9:16:34 AM	31.8	37.4	0.0	30.8	47.2	47.4	5.09	5.08	-3.26	-3.27	-19.28
GIW-11	1/6/2021 10:52:52 AM	28.1	33.4	0.6	37.9	40.2	40.2	5.74	3.07	-2.31	-2.32	-16.66
GIW-11	1/6/2021 10:58:36 AM	28.3	31.6	0.7	39.4	45.5	45.5	4.80	4.80	-2.28	-2.26	-18.48
GIW-11	1/13/2021 9:18:30 AM	29.2	35.7	0.7	34.4	46.2	46.2	4.64	4.29	-2.18	-2.18	-18.48
GIW-11	1/20/2021 9:37:28 AM	27.7	33.6	0.9	37.8	41.9	42.1	1.77	3.53	-2.35	-2.34	-18.35
GIW-11	1/28/2021 9:20:16 AM	27.1	33.3	0.2	39.4	43.2	44.4	5.29	4.48	-2.19	-2.18	-15.10
GIW-12	1/6/2021 11:03:06 AM	36.0	36.9	0.6	26.5	45.3	45.2	3.05	2.16	-0.29	-0.29	-20.30
GIW-12	1/6/2021 11:08:37 AM	36.0	35.9	0.6	27.5	45.6	45.6	4.32	3.30	-0.28	-0.28	-20.08
GIW-12	1/13/2021 9:21:13 AM	36.4	38.7	0.5	24.4	46.2	46.1	3.05	3.05	-0.29	-0.29	-19.96
GIW-12	1/20/2021 9:40:08 AM	34.6	36.7	0.9	27.8	40.9	41.0	2.81	2.52	-0.27	-0.26	-19.79
GIW-12	1/28/2021 9:23:03 AM	33.7	36.6	0.7	29.0	46.7	46.9	3.73	3.29	-0.35	-0.35	-19.45
GIW-13	1/6/2021 11:11:59 AM	46.0	45.4	0.0	8.6	47.0	47.0	3.92	4.11	-1.12	-1.12	-13.53
GIW-13	1/6/2021 11:16:59 AM	45.7	44.7	0.0	9.6	48.8	49.0	2.14	2.76	-1.16	-1.17	-13.91
GIW-13	1/13/2021 9:23:45 AM	45.2	47.2	0.0	7.6	48.8	48.8	3.03	1.75	-1.13	-1.13	-14.76
GIW-13	1/20/2021 9:42:50 AM	45.3	46.4	0.0	8.3	42.5	42.8	2.17	3.31	-1.12	-1.12	-14.00
GIW-13	1/28/2021 9:25:45 AM	45.3	45.2	0.0	9.5	42.3	42.8	2.80	1.25	-1.21	-1.20	-13.91
LCS-1D	1/5/2021 8:48:12 AM	51.9	35.4	2.7	10.0	46.2	46.1	3.66	2.99	-8.78	-8.78	-15.22
LCS-1D	1/28/2021 2:06:57 PM	49.5	34.6	3.3	12.6	57.3	57.3	1.69	2.07	-8.82	-8.82	-14.21
LCS-2D	1/4/2021 2:44:41 PM	54.9	41.2	0.6	3.3	40.8	40.8	11.44	10.58	-17.18	-17.18	-19.32
LCS-2D	1/29/2021 9:08:15 AM	52.7	46.1	0.0	1.2	32.2	32.7	44.75	44.70	-18.57	-18.57	-19.15
LCS-3D	1/15/2021 11:25:23 AM	39.4	60.2	0.1	0.3	100.4	100.6	13.94	12.72	-17.98	-17.98	-20.21
LCS-3D	1/25/2021 10:23:49 AM	36.0	64.0	0.0	0.0	136.2	136.6	9.88	9.88	-9.09	-9.09	-19.92
LCS-3D	1/25/2021 10:25:27 AM	35.5	64.5	0.0	0.0	137.1	137.1	12.24	11.87	-9.09	-9.09	-19.84
LCS-3D	1/25/2021 2:45:48 PM	38.0	61.4	0.1	0.5	135.6	135.6	11.00	12.47	-9.12	-9.12	-18.73
LCS-3D	1/25/2021 2:46:33 PM	37.7	62.2	0.0	0.1	135.9	135.9	11.71	11.43	-9.12	-9.12	-19.20
LCS-4B	1/15/2021 11:18:34 AM	10.7	38.3	10.4	40.6	36.8	36.8	4.73	5.66	-1.36	-1.36	-19.66
LCS-4B	1/15/2021 11:20:42 AM	10.9	42.0	10.2	36.9	36.7	36.8	3.59	1.79	-0.20	-0.19	-19.28
LCS-4B	1/21/2021 2:40:24 PM	14.7	55.3	4.8	25.2	62.4	62.4	3.41	3.61	-0.87	-0.86	-17.76
LCS-5A	1/4/2021 10:03:42 AM	56.0	43.1	0.0	0.9	91.3	91.2	39.86	34.94	-7.09	-7.09	-14.14
LCS-5A	1/14/2021 8:58:36 AM	56.3	42.4	0.0	1.3	88.4	88.6	39.36	39.36	-7.10	-7.10	-13.94
LCS-5A	1/18/2021 10:16:05 AM	56.5	42.5	0.0	1.0	88.4	88.0	49.14	49.14	-7.10	-7.10	-13.86

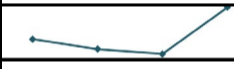
January 2021 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
LCS-5A	1/26/2021 9:28:47 AM	55.2	43.0	0.3	1.5	50.7	50.5	4.03	4.03	-13.53	-13.53	-13.82
LCS-5B	1/4/2021 10:13:02 AM	53.8	42.2	0.1	3.9	123.9	123.9	9.50	10.29	-11.81	-11.81	-13.83
LCS-5B	1/14/2021 9:01:32 AM	54.1	42.3	0.0	3.6	112.2	112.3	17.09	18.19	-12.85	-12.85	-13.94
LCS-5B	1/18/2021 10:32:15 AM	53.9	42.5	0.1	3.5	117.4	117.1	5.79	7.08	-12.39	-12.39	-13.94
LCS-5B	1/26/2021 9:42:54 AM	53.5	43.4	0.2	2.9	105.2	106.2	11.63	11.63	-12.18	-12.18	-14.11
LCS-6B	1/5/2021 9:53:18 AM	51.7	42.7	0.3	5.3	78.6	78.7	5.59	6.84	-0.95	-0.95	-13.77
LCS-6B	1/14/2021 9:05:59 AM	53.9	43.0	0.0	3.1	69.5	69.8	2.84	2.84	-0.35	-0.35	-13.65
LCS-6B	1/20/2021 9:16:01 AM	52.9	44.0	0.3	2.8	69.3	69.8	12.99	13.88	-0.72	-0.72	-13.86
LCS-6B	1/26/2021 10:45:07 AM	53.5	43.5	0.3	2.7	65.4	65.7	4.69	5.81	-1.59	-1.58	-13.94
SEW-002	1/4/2021 2:03:03 PM	33.1	48.2	1.9	16.8	41.5	41.5	3.85	4.56	-12.79	-12.79	-19.03
SEW-002	1/27/2021 10:12:26 AM	33.7	49.4	2.7	14.2	32.8	32.9	3.89	4.26	-15.53	-15.53	-20.30
SEW-003	1/4/2021 1:56:26 PM	2.2	33.5	2.6	61.7	47.3	47.3	4.81	5.27	-0.06	-0.06	-19.24
SEW-003	1/28/2021 2:53:17 PM	1.7	29.0	8.8	60.5	61.1	61.1	5.80	6.29	-0.10	-0.10	-18.60
SEW-003	1/28/2021 2:54:03 PM	1.6	27.7	8.9	61.8	61.3	61.2	5.67	5.93	-0.10	-0.10	-18.94
T-56	1/5/2021 10:11:30 AM	44.1	34.9	0.5	20.5	46.0	46.0	14.65	13.17	-0.04	-0.03	-13.77
T-56	1/14/2021 9:11:23 AM	58.0	38.4	0.0	3.6	46.4	46.4	15.71	13.75	0.05	0.05	-13.98
T-56	1/14/2021 9:14:32 AM	58.5	37.1	0.0	4.4	46.4	46.5	20.33	22.12	-0.02	-0.01	-14.11
T-56	1/20/2021 9:31:44 AM	31.6	31.8	0.7	35.9	43.0	43.1	16.76	16.76	-0.07	-0.07	-13.73
T-56	1/20/2021 9:33:05 AM	31.5	32.0	0.7	35.8	43.4	43.4	18.40	18.62	-0.03	-0.03	-13.73
T-56	1/26/2021 11:07:37 AM	49.0	34.8	0.9	15.3	45.2	45.2	12.18	13.46	-0.07	-0.07	-14.15
T-56	1/26/2021 11:09:17 AM	49.2	34.7	0.9	15.2	45.2	45.2	12.84	12.18	-0.04	-0.05	-14.24

ATTACHMENT D-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	October 2020	November 2020	December 2020	January 2021	><30°F	
GEW-002	113.2	110.5	109.5	109.0		
GEW-003	111.8	99.9	89.8	80.0		
GEW-004	114.3	109.3	106.3	106.0		
GEW-005	89.8	77.1	66.1	71.7		
GEW-006	88.4	84.9	82.3	80.2		
GEW-007	92.6	90.5	87.2	85.7		
GEW-008	111.5	109.7	110.2	109.2		
GEW-009	120.5	118.4	120.2	119.7		
GEW-010	100.6	87.7	83.7	75.2		
GEW-013A	195.0	196.4	192.9	194.8		
GEW-015	105.2	116.6	85.4	92.9		
GEW-016R	164.3	162.9	151.0	137.1		
GEW-018B	200.8	194.7	197.2	198.6		
GEW-019A	60.4	74.4	60.3	41.1		
GEW-039	107.2	100.6	97.3	98.0		
GEW-040	79.8	71.1	62.1	51.3		
GEW-041R	89.3	81.0	76.9	115.9		
GEW-042R	104.5	99.8	100.4	96.5		
GEW-043R	114.8	114.0	114.5	113.5		
GEW-044	87.0	79.8	69.1	61.3		
GEW-045R	100.1	95.5	91.7	88.4		
GEW-046R	106.5	102.2	98.4	96.2		
GEW-047R	110.2	101.1	94.0	90.5		
GEW-048	98.7	95.2	92.9	91.7		
GEW-049	94.3	81.9	93.7	90.3		
GEW-050	99.6	98.4	92.6	91.8		
GEW-051	116.2	113.0	112.5	108.2		
GEW-052	103.8	103.0	97.9	98.9		
GEW-053	141.9	139.9	141.4	140.9		
GEW-054	145.1	144.9	146.3	145.9		
GEW-055	128.6	126.0	128.9	125.3		
GEW-056R	111.7	94.8	84.2	83.0		
GEW-057B	189.6	170.0	156.5	154.4		
GEW-058A	90.5	112.5	76.6	--		Temporarily decommissioned
GEW-059R	80.0	129.3	117.3	93.4		
GEW-067A	197.2	192.9	187.6	184.5		
GEW-068A	173.1	170.5	168.1	166.6		
GEW-078R	160.7	158.1	151.7	143.2		
GEW-082R	173.1	171.0	169.8	172.1		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	October 2020	November 2020	December 2020	January 2021	><30°F	
GEW-086	142.3	149.9	174.2	156.9		
GEW-087	203.0	197.4	201.6	194.3		
GEW-088	171.6	160.7	157.8	135.0		
GEW-090	162.4	162.9	157.3	153.4		
GEW-091	198.6	197.2	198.6	198.6		
GEW-100	173.2	67.3	159.8	127.4		
GEW-101	99.9	85.6	86.8	63.2		
GEW-102	89.8	71.4	64.4	64.8		
GEW-104	187.0	191.6	183.3	185.1		
GEW-105	120.5	105.4	83.0	62.6		
GEW-106	136.3	154.8	132.9	155.2		
GEW-107	123.5	128.9	115.0	97.5		
GEW-108	143.9	124.0	133.8	114.3		
GEW-109	104.0	81.2	70.7	57.2		
GEW-110	110.0	111.2	112.2	102.2		
GEW-113	177.5	178.0	176.4	174.2		
GEW-116	144.9	128.9	127.5	94.8		
GEW-117	144.2	136.5	125.8	115.8		
GEW-118	203.0	202.3	201.6	203.1		
GEW-120	117.3	114.3	112.5	98.4		
GEW-121	132.6	133.8	107.0	126.4		
GEW-122	106.2	78.1	55.5	58.0		
GEW-123	101.1	80.3	52.1	69.8		
GEW-124	90.8	68.2	44.7	49.5		
GEW-125	84.2	67.7	44.6	57.7		
GEW-126	94.8	67.2	44.7	59.0		
GEW-127	101.1	75.9	51.2	53.7		
GEW-128	--	--	--	--		Temporarily decommissioned
GEW-129	122.9	116.6	99.1	98.2		
GEW-130	151.3	147.4	137.4	134.9		
GEW-131	125.6	125.8	98.4	112.7		
GEW-132	140.6	130.7	118.6	91.5		
GEW-133	132.9	102.3	91.9	54.6		
GEW-134	111.5	85.6	74.9	40.5		
GEW-135	127.5	115.0	107.0	52.9		
GEW-137	93.9	71.4	48.2	47.9		
GEW-138	--	--	--	--		Temporarily decommissioned
GEW-139	138.7	137.1	130.8	56.7		


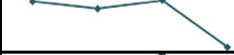
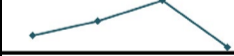
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	October 2020	November 2020	December 2020	January 2021	><30°F	
GEW-140	66.8	69.5	72.4	42.1		
GEW-144	70.7	81.2	81.7	44.9		
GEW-145	92.9	75.3	53.0	55.7		
GEW-147	159.8	159.0	152.5	150.5		
GEW-148	106.5	141.2	125.0	121.5		
GEW-149	73.9	85.8	52.8	58.9		
GEW-150	156.5	145.9	149.2	143.9		
GEW-151	87.2	117.1	62.0	--		
GEW-152	84.2	105.7	91.0	53.7		
GEW-153	79.6	106.7	93.4	70.9		
GEW-154	--	--	--	--		Temporarily decommissioned
GEW-155	--	--	--	--		Temporarily decommissioned
GEW-156	120.2	120.5	113.4	83.1		
GEW-157	95.8	82.8	61.6	59.7		
GEW-158	98.4	109.0	90.2	71.5		
GEW-159	--	--	--	--		Temporarily decommissioned
GEW-160	103.3	74.3	78.4	50.7		
GEW-161	124.9	90.3	98.5	67.9		
GEW-162	96.7	74.3	81.9	54.5		
GEW-163	117.3	104.5	79.8	79.4		
GEW-164	135.4	131.3	127.2	126.7		
GEW-165	143.5	134.7	121.8	114.0		
GEW-166	164.7	163.4	159.0	173.1		
GEW-167	152.9	140.6	131.4	112.0		
GEW-168	100.3	91.2	60.9	75.5		
GEW-169	121.0	101.9	77.3	76.3		
GEW-170	123.4	97.4	88.2	81.4		
GEW-171	98.7	76.8	67.8	48.7		
GEW-172	141.5	135.0	127.8	102.5		
GEW-173	--	--	--	--		Temporarily decommissioned
GEW-174	86.3	85.4	76.8	64.0		
GEW-175	138.7	128.0	120.2	104.8		
GEW-176	--	--	--	--		Temporarily decommissioned
GEW-177	165.2	162.9	159.0	157.7		
GEW-178	96.3	81.4	65.9	56.7		
GEW-179	100.1	85.8	75.5	70.1		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	October 2020	November 2020	December 2020	January 2021	><30°F	
GEW-180	79.2	77.3	79.6	58.4		
GEW-181	97.0	82.1	76.6	52.0		
GEW-182	--	--	--	--		Temporarily decommissioned
GEW-184	--	--	--	--		Temporarily decommissioned
GEW-185	87.3	85.1	79.5	65.7		
GEW-186	94.6	82.1	56.2	65.7		
GEW-187	112.8	101.1	98.2	93.6		
GEW-188	--	--	--	--		Temporarily decommissioned
GEW-217	168.1	109.0	48.3	100.6		
GEW-218	115.8	93.4	88.8	78.0		
GEW-219	--	--	--	--		Temporarily decommissioned
GEW-220	154.2	165.8	52.7	75.0		
GEW-221	81.2	83.5	89.9	57.7		
GEW-222	85.4	78.1	78.4	59.1		
GEW-223	136.1	124.5	130.3	112.6		
GEW-224	154.0	145.3	148.8	130.1		
GEW-225	159.4	155.6	153.6	143.8		
GEW-226	175.8	172.6	171.9	165.2		
GEW-227	192.3	183.9	179.2	191.1		
GEW-228	182.1	173.1	171.6	114.3		
GEW-229	113.6	101.6	103.5	79.2		
GEW-230	156.2	157.3	148.8	--		Temporarily decommissioned
GEW-231	--	--	--	--		Temporarily decommissioned
GEW-232	161.0	134.7	109.7	107.2		
GEW-233	125.8	76.6	68.6	42.9		
GEW-234	203.1	203.9	202.3	198.6		
GEW-235	135.3	125.8	107.0	111.0		
GEW-236	203.9	200.9	201.6	203.9		
GEW-237	146.6	135.0	129.1	135.9		
GEW-238	188.8	188.3	190.2	187.0		
GEW-239	203.1	202.2	199.3	200.1		
GEW-240	192.3	189.6	188.6	186.1		
GEW-241	65.1	120.5	116.0	122.9		
GEW-242	48.5	199.3	193.6	158.5		
GEW-243	45.6	94.3	67.8	157.7		
GEW-244	56.5	100.6	99.4	114.3		

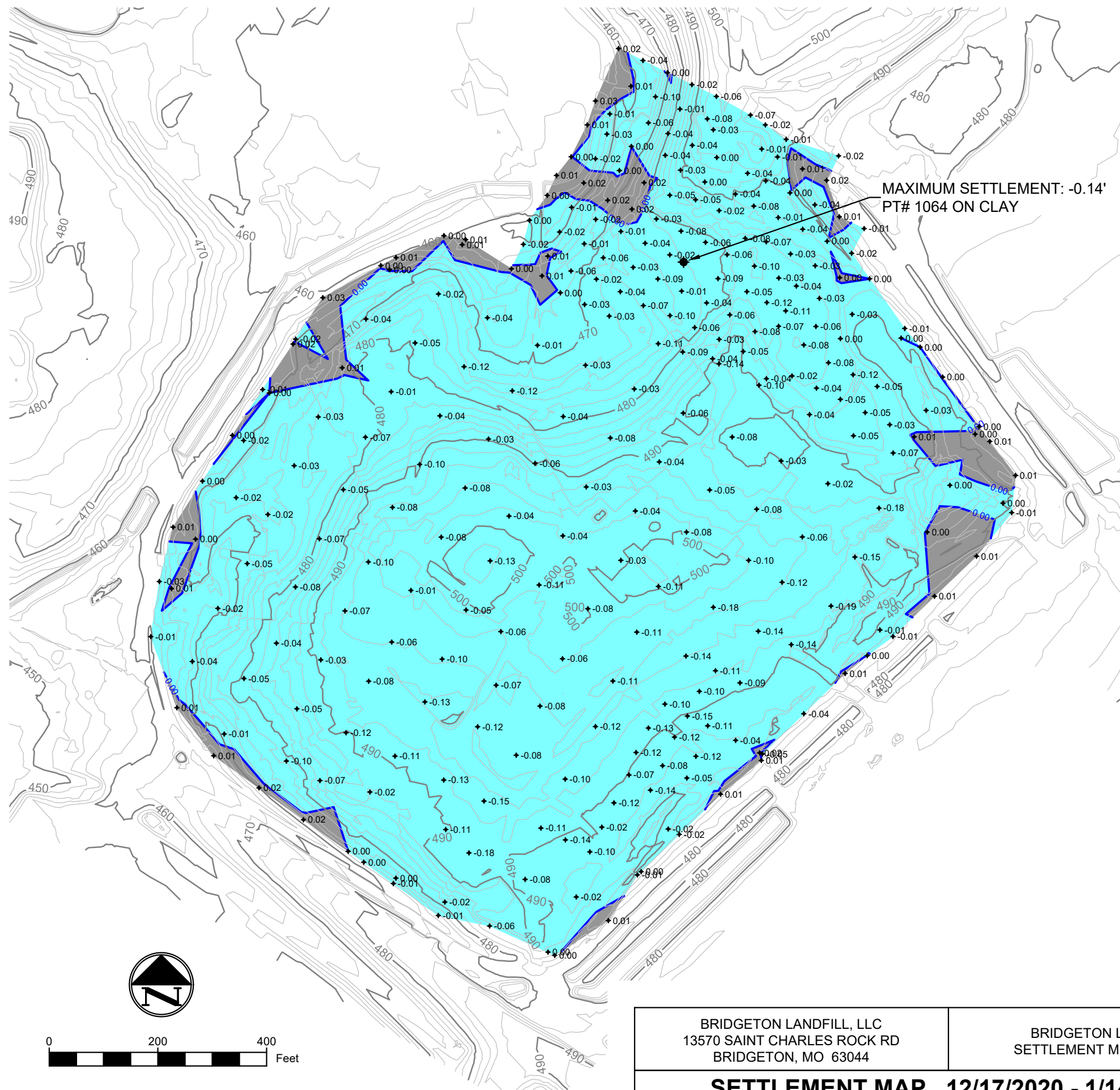
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	October 2020	November 2020	December 2020	January 2021	><30°F	
GEW-245	75.0	96.5	45.8	50.2		
GEW-246	79.1	199.6	200.8	200.8		
GEW-247	63.1	90.5	148.8	87.1		
GEW-248	75.8	202.4	196.4	182.7		
GEW-249	61.8	127.9	122.7	113.7		
GEW-250	115.5	200.1	168.1	153.3		
GEW-251	64.1	202.9	198.5	201.6		
GEW-252	103.8	176.9	182.4	179.2		
GEW-253	131.5	204.7	187.0	180.3		
GEW-2S	88.2	76.4	67.3	58.2		
GIW-01	143.5	125.2	122.9	116.8		
GIW-02	97.0	82.0	67.6	49.3		
GIW-03	99.6	81.0	57.2	45.6		
GIW-04	96.7	87.5	63.0	45.8		
GIW-05	100.1	86.3	52.3	42.5		
GIW-06	102.0	72.0	58.2	43.7		
GIW-07	100.4	73.2	65.7	47.9		
GIW-08	98.7	73.6	62.8	51.5		
GIW-09	98.4	73.6	62.1	45.6		
GIW-10	92.4	75.9	62.6	47.9		
GIW-11	89.4	73.0	63.9	46.2		
GIW-12	92.2	70.9	65.4	46.9		
GIW-13	92.9	71.6	64.5	49.0		
LCS-1D	67.7	81.4	52.9	57.3		
LCS-2D	72.2	67.2	73.0	40.8		
LCS-3D	145.6	156.0	171.0	137.1		
LCS-4B	75.0	69.0	45.6	62.4		
LCS-5A	96.0	92.6	92.7	91.3		
LCS-5B	131.4	122.9	133.5	123.9		
LCS-6B	103.0	92.2	95.0	78.7		
SEW-002	76.3	77.9	47.4	41.5		
SEW-003	75.0	87.7	60.3	61.3		
T-56	75.9	66.2	57.6	46.5		

-- = Indicates no data available.

ATTACHMENT E

SETTLEMENT FRONT MAP



Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Medium Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	1,436,730.78	Cyan
6	0.00	1.00	95,640.10	Grey

LEGEND

- 12-09-2020 TOPOGRAPHY (2' CONTOUR)
 - 12-09-2020 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - 0.03 SPOT ELEVATION DIFFERENCE (12-17-2020 to 1-14-2021)
 - 1-2021 *SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.26' PER 28 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR JANUARY 2021

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 9, 2020.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 12-17-20 FROM SPOT ELEVATIONS SURVEYED ON 1-14-21.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

BRIDGETON LANDFILL, LLC
13570 SAINT CHARLES ROCK RD
BRIDGETON, MO 63044

BRIDGETON LANDFILL
SETTLEMENT MONITORING

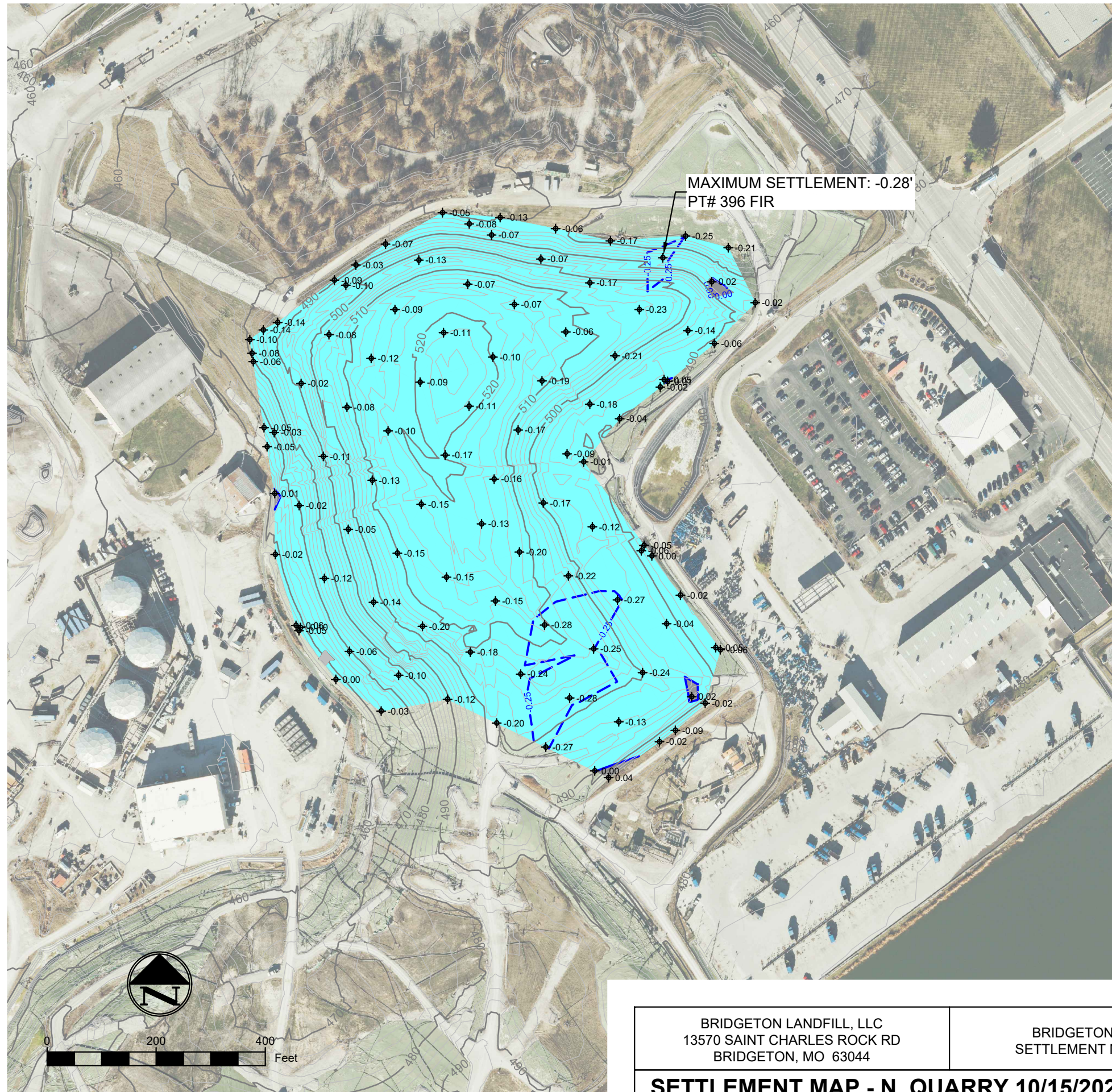
SETTLEMENT MAP 12/17/2020 - 1/14/2021

PROJECT NUMBER: BT-145 | FILE PATH: C:\Users\User\Desktop\Feezor Engineering\Bridgeton\100-149BT-145 (Agreed Order Reporting)\Monthly Reports\2021\01-2021 Report\Internal Draft Site Data\Settlement\Settlement And Fill 1-14-2021.dwg



JANUARY 2021	
DESIGNED BY: IN	
APPROVED BY: DRF	
REVISION	DATE

DRAWING NO.:
001



Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Medium Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	639,646.75	Cyan
6	0.00	1.00	2,617.51	Grey

LEGEND

- 12-09-2020 TOPOGRAPHY (2' CONTOUR)
 - 500 12-09-2020 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - 0.03 SPOT ELEVATION DIFFERENCE (10-15-2020 to 1-18-2021)
 - 1-2021 *SETTLEMENT FRONT CONTOUR FOR AREA WITH 4.28' PER 95 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR 10-15-2020 THROUGH 1-18-2021

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 9, 2020.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 1-18-21 FROM SPOT ELEVATIONS SURVEYED ON 10-15-20.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL SETTLEMENT MONITORING		JANUARY 2021 DESIGNED BY: IN APPROVED BY: DRF	DRAWING NO.:
SETTLEMENT MAP - N. QUARRY 10/15/2020 - 1/18/2021			REVISION DATE	003
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\User\Dropbox (Feezor Engineering)\Bridgeton\100-149\BT-145 (Agreed Order Reporting)\Quarterly Settlement\2021-01\Quarterly NQ Settlement 1-18-2021.dwg		Engineering for a Better World FEEZOR ENGINEERING, INC.		

ATTACHMENT F

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant January 2021

Liquid Characterization Data

Liquid characterization data is made available to MDNR on an ongoing basis. No additional leachate characterization data, beyond that produced for MSD, was collected during the prior month.

Hauled Disposal to MSD – Bissell Point

Date	Waste	Source	Transporter	Quantity
1/1/2021				0
1/2/2021				0
1/3/2021				0
1/4/2021				0
1/5/2021				0
1/6/2021				0
1/7/2021				0
1/8/2021				0
1/9/2021				0
1/10/2021				0
1/11/2021				0
1/12/2021				0
1/13/2021				0
1/14/2021				0
1/15/2021				0
1/16/2021	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
1/17/2021				0
1/18/2021				0
1/19/2021				0
1/20/2021				0
1/21/2021				0
1/22/2021				0
1/23/2021				0
1/24/2021				0
1/25/2021				0
1/26/2021				0
1/27/2021				0
1/28/2021				0
1/29/2021				0
1/30/2021				0
1/31/2021				0
Total				0

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
1/1/2021			173,828
1/2/2021			163,996
1/3/2021			176,428
1/4/2021			163,532
1/5/2021			186,708
1/6/2021			179,140
1/7/2021			172,188
1/8/2021			170,964
1/9/2021			168,872
1/10/2021			145,144
1/11/2021			123,528
1/12/2021			169,836
1/13/2021			183,552
1/14/2021			136,684
1/15/2021		Through Tank AST 97k	159,520
1/16/2021	LPTP Permeate	(MSD Sampling Point 013)	121,992
1/17/2021			148,392
1/18/2021			138,992
1/19/2021			89,392
1/20/2021			115,056
1/21/2021			163,696
1/22/2021			151,676
1/23/2021			133,852
1/24/2021			128,528
1/25/2021			170,732
1/26/2021			158,276
1/27/2021			219,764
1/28/2021			216,488
1/29/2021			144,784
1/30/2021			175,888
1/31/2021			153,772
Total			4,905,200

ATTACHMENT G

VOLUMES OF LEACHATE PROCESSED

Bridgeton Landfill - Leachate Volumes

January 2021

Total volume of leachate from the individual leachate collection sumps during the month. Additional non-LCS leachate was collected and the total volume was 2,961,822 gallons. Therefore, the total leachate collected was 3,702,750 gallons.

ID	Volume
LCS -1D	0
LCS-2D	0
LCS-3D	60,938
LCS-4B	0
LCS-5A	642,304
LCS-5B	31,296
LCS-6B	6,390

ATTACHMENT H

SLIP FAILURE AND SEPARATION ASSESSMENT



January 29, 2021

Ms. Erin Fanning
Division Manager
Bridgeton Landfill, LLC.
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Bridgeton Slip Failure and Separation Assessment
4th Quarter 2020 Inspection

Dear Erin

On December 15, 2020, I performed an inspection of the Bridgeton Landfill for the purpose of identifying any visual evidence of instability or incipient failure. The inspection included the North and South Quarry fill areas. This inspection was for the 4th quarter of 2020. The previous inspection was performed on September 23, 2020.

The observation of the slopes for both the North and South Quarry areas was performed to look for telltale signs of movements related to instability, including areas of suspension of the membrane on the upslope areas that would result if scarping, not visible due to the temporary membrane cap, existed. In addition, areas that showed indicated localized differential settlement were walked over to determine if any open tension cracking, an indication of separation, was present. The observations were made while walking along the areas within the landfill boundaries.

The inspection did not identify any previously unobserved (and reported) movements or signs of movement within the North or South Quarry that could be potential signs of instability. The landfill surface in the South Quarry shows signs of continued settlement with minor areas of tension in the membrane along the eastern side approximately above the underlying Quarry wall related to differential settlement in the area.

Since the quarterly inspections were begun in 2013, the sloping portions of the landfill are noticeably flatter and therefore, less prone to instability. As mentioned in the past few inspection reports, there are very few areas within the heat-affected portions of the South Quarry that have slopes exceeding 20%. This general reduction in vertical relief has essentially eliminated any potential for instability of any consequence in the South Quarry. The only slopes that are close to the original ground surface slopes in the South Quarry are those south of the neck area. These areas were examined for any signs of movement and none was observed.

Fill materials continue to be placed in the locally depressed areas to allow for drainage of stormwater in the South Quarry. No open tension cracking was indicated in area of the differential settlement when pressing the membrane down to contact the underlying ground surface in this area. Fill material placement and lining was ongoing northeast of the north quarry fill limits at the time of this inspection.

The North Quarry cap construction has been completed since the second quarter inspection of 2017. No signs of instability were observed in the North Quarry.

In addition, a review of the monthly settlement at grid points in the South Quarry for the past quarter and settlement in the North Quarry between October 15, 2020 and January 18, 2021 was performed. I did not see any indication of instability in the data. No indication of instability was observed in the South Quarry based on settlement patterns. As mentioned in previous reports, the Bridgeton site has not exhibited a coupling of instability and settlement.

This is the thirty-third (33) review I have performed of this type at the Bridgeton Landfill since the fall of 2012. To date, no signs of impending instability of any consequence has been identified or occurred.

I hope this information is helpful to you. Please call if there are any questions.

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Sincerely,



Peter Carey, P.E.
Feezor Engineering, Inc.