

Bridgeton Landfill, LLC

Monthly Data Submittals

March 2020

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

April 20, 2020

Commentary on Data

April 20, 2020

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 1,080 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.
- On October 8, 2019 all landfill gas from the North Quarry was directed to the FL-120 Flare (combined with the South Quarry Landfill Gas). Therefore, as of this date, there was no flare testing nor data from the Auxiliary Flare. For the March 2020 Monthly Report, this affected the Appendix A – Flare Data and Flare Graphs.

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 14 GEW wells that are experiencing low or restricted flows, one (1) leachate collection sump (LCS), and one (1) GIW well that exhibit low gas flow due to the cooling loops that are installed in these wells. By the end of the month, 6 of the GEW wells, one LCS, and one GIW well still exhibited oxygen levels at or greater than 5% at the wellhead. 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. Fifteen (15) vertical wells (excluding GIW wells) increased by 30°F or more during this reporting period. Additionally, five (5) vertical wells (excluding GIW wells) decreased by 30°F or more. 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 (146.3°F). Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (58 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 are planned to be decommissioned in the latter half of 2020. This investigation continued through the remainder of the First Quarter 2020 and will continue into the Second Quarter 2020. Wellfield expansion and abandonment activities will be reported in the quarterly Landfill Gas Corrective Action Update.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 0.29 feet over 29 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 not used as a supplemental fuel for the destruction of landfill gas in the previous month.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

FLOW DATA TABLE

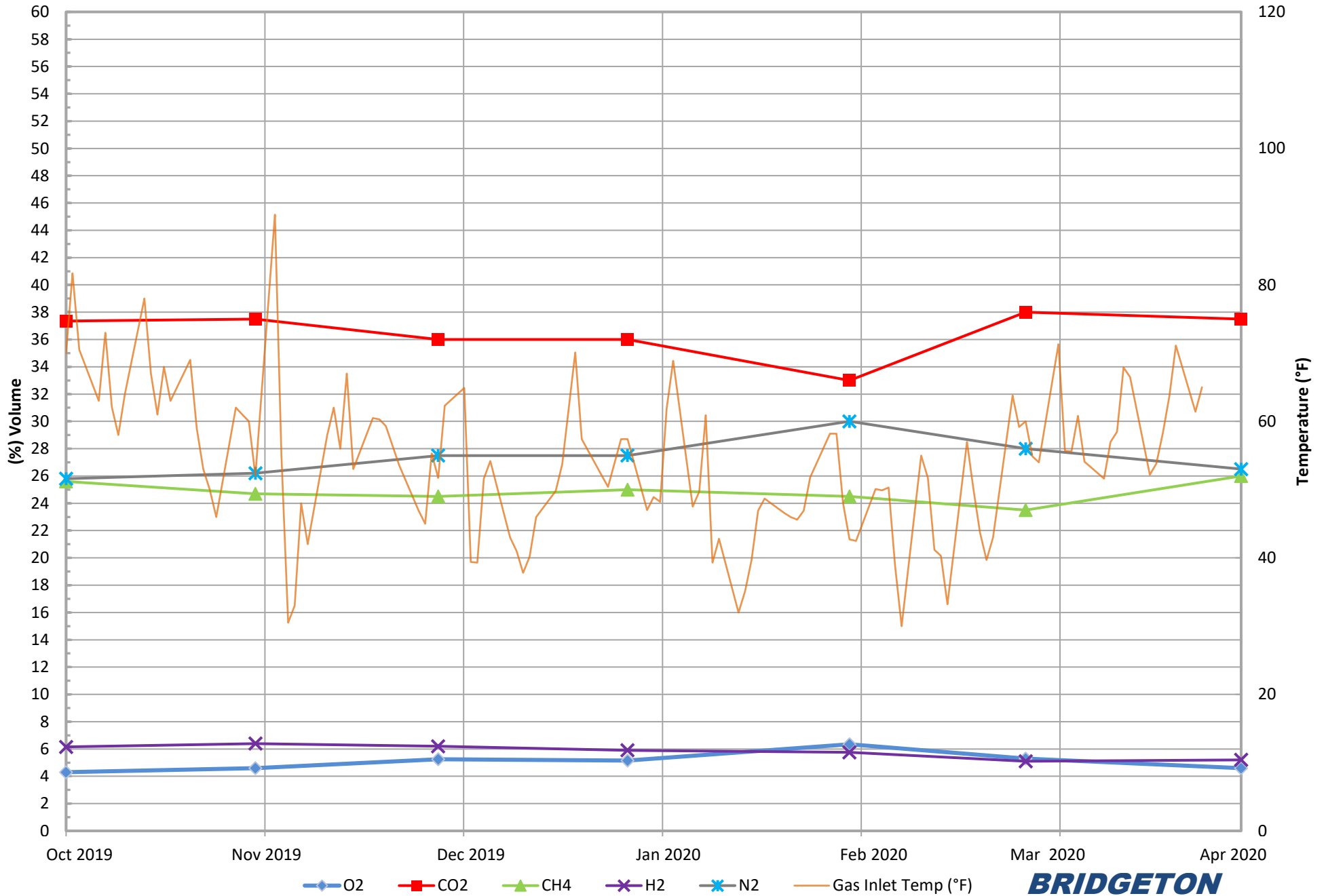
Daily Flare Monitoring Data - Bridgeton Landfill
March 2020

Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
3/1/2020	0	1,130	0	1,131
3/2/2020	0	1,113	0	1,113
3/3/2020	0	1,101	0	1,101
3/4/2020	0	1,122	0	1,122
3/5/2020	0	1,102	0	1,102
3/6/2020	0	1,080	0	1,080
3/7/2020	0	1,098	0	1,099
3/8/2020	0	1,120	0	1,120
3/9/2020	0	1,115	0	1,115
3/10/2020	0	1,067	0	1,067
3/11/2020	0	1,092	0	1,092
3/12/2020	0	1,075	0	1,075
3/13/2020	0	1,040	0	1,040
3/14/2020	0	1,048	0	1,048
3/15/2020	0	1,045	0	1,045
3/16/2020	0	1,057	0	1,057
3/17/2020	0	1,064	0	1,064
3/18/2020	0	1,072	0	1,072
3/19/2020	0	1,092	0	1,092
3/20/2020	0	1,057	0	1,057
3/21/2020	0	1,055	0	1,055
3/22/2020	0	1,062	0	1,062
3/23/2020	0	1,051	0	1,051
3/24/2020	0	1,048	0	1,048
3/25/2020	0	1,068	0	1,068
3/26/2020	0	1,095	0	1,095
3/27/2020	0	1,101	0	1,101
3/28/2020	0	1,051	0	1,051
3/29/2020	0	1,078	0	1,078
3/30/2020	0	1,090	0	1,090
3/31/2020	57	1,033	0	1,089
AVERAGE	2	1,078	0	1,080
* 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

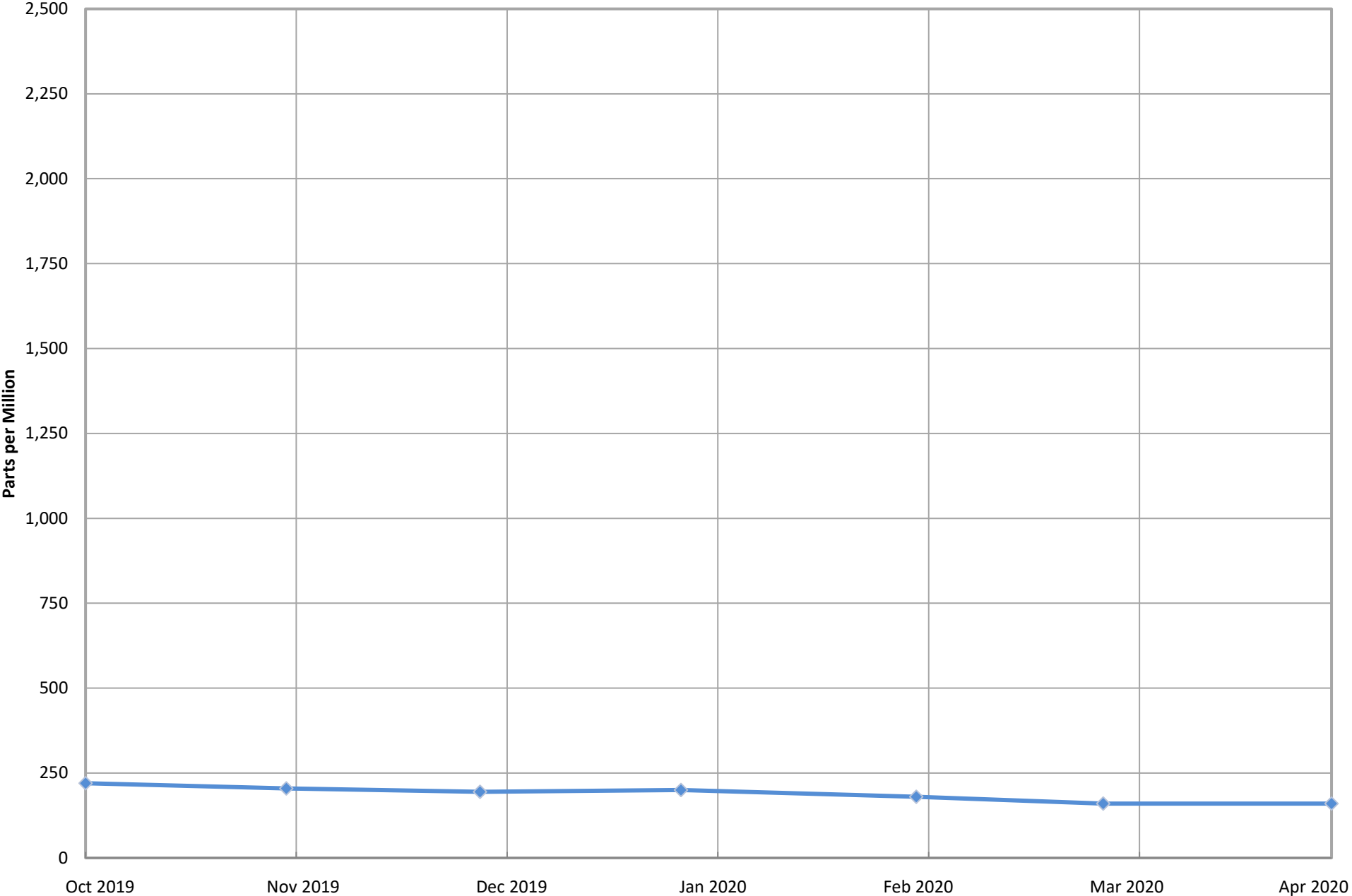
Combined Inlet Gas and Temperature*



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

Combined Inlet Carbon Monoxide*

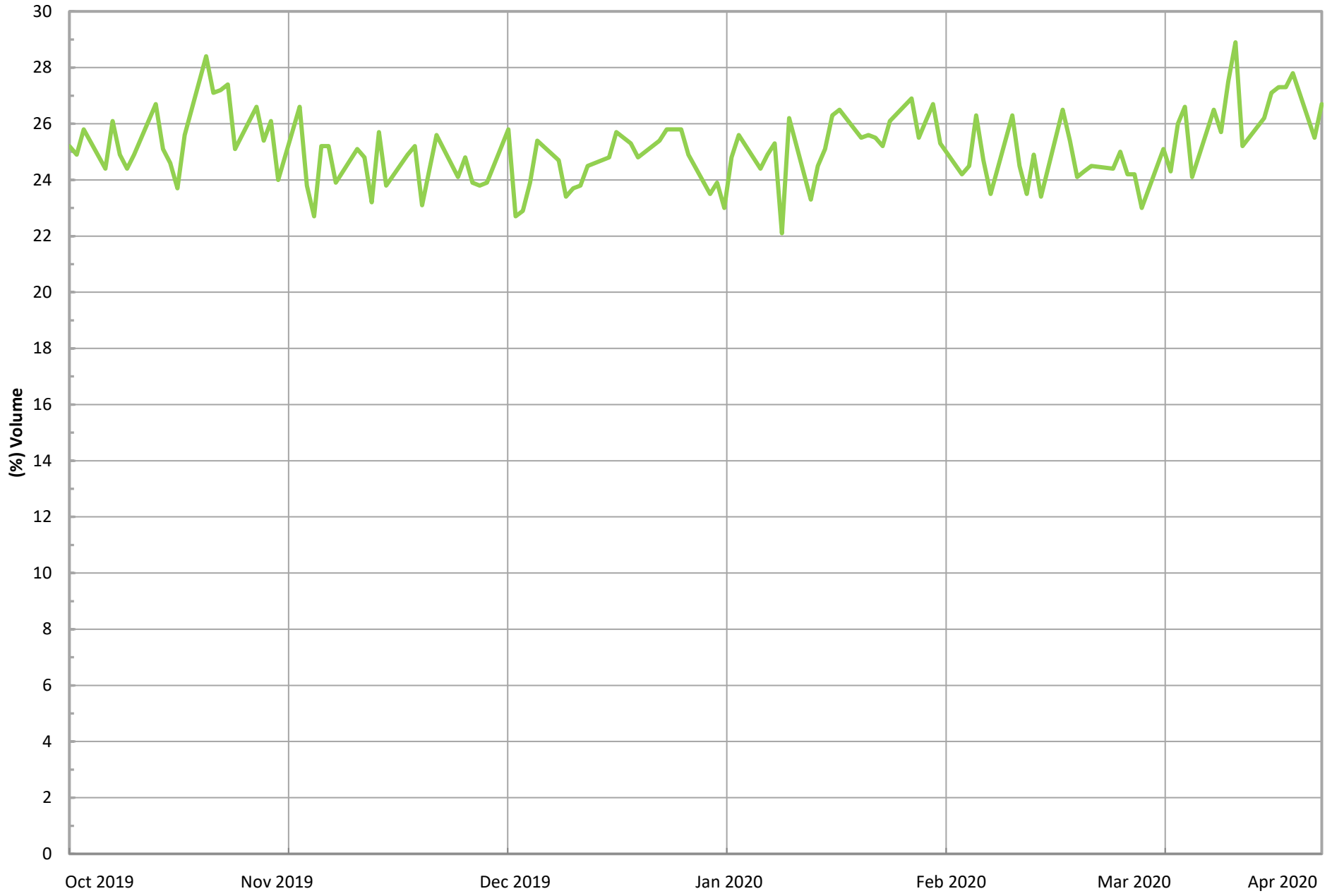


—◆— Inlet Carbon Monoxide*

*Data collected from Laboratory Reports.

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Combined Inlet Methane (Field Data)*

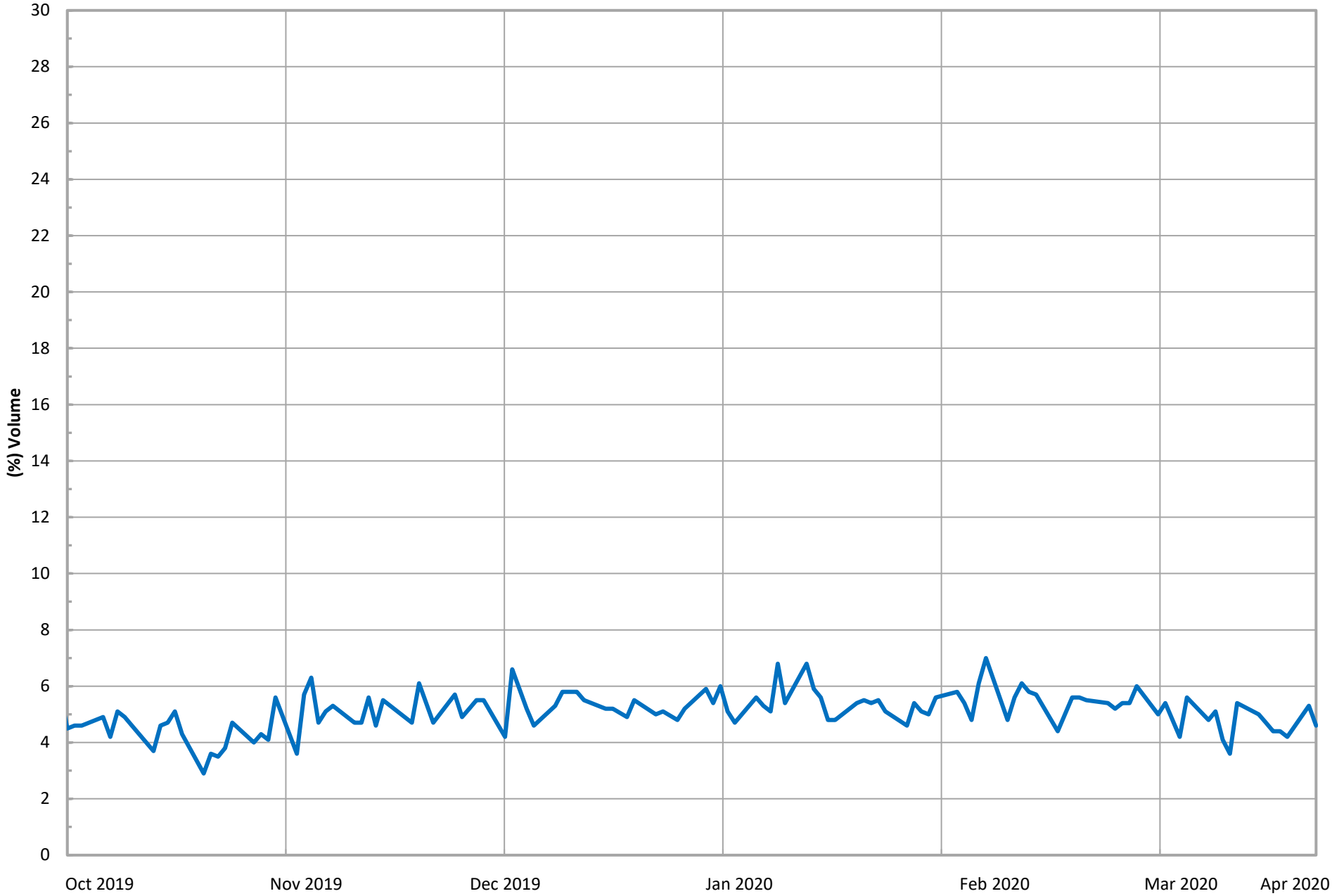


*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)*

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Combined Inlet Oxygen (Field Data)*

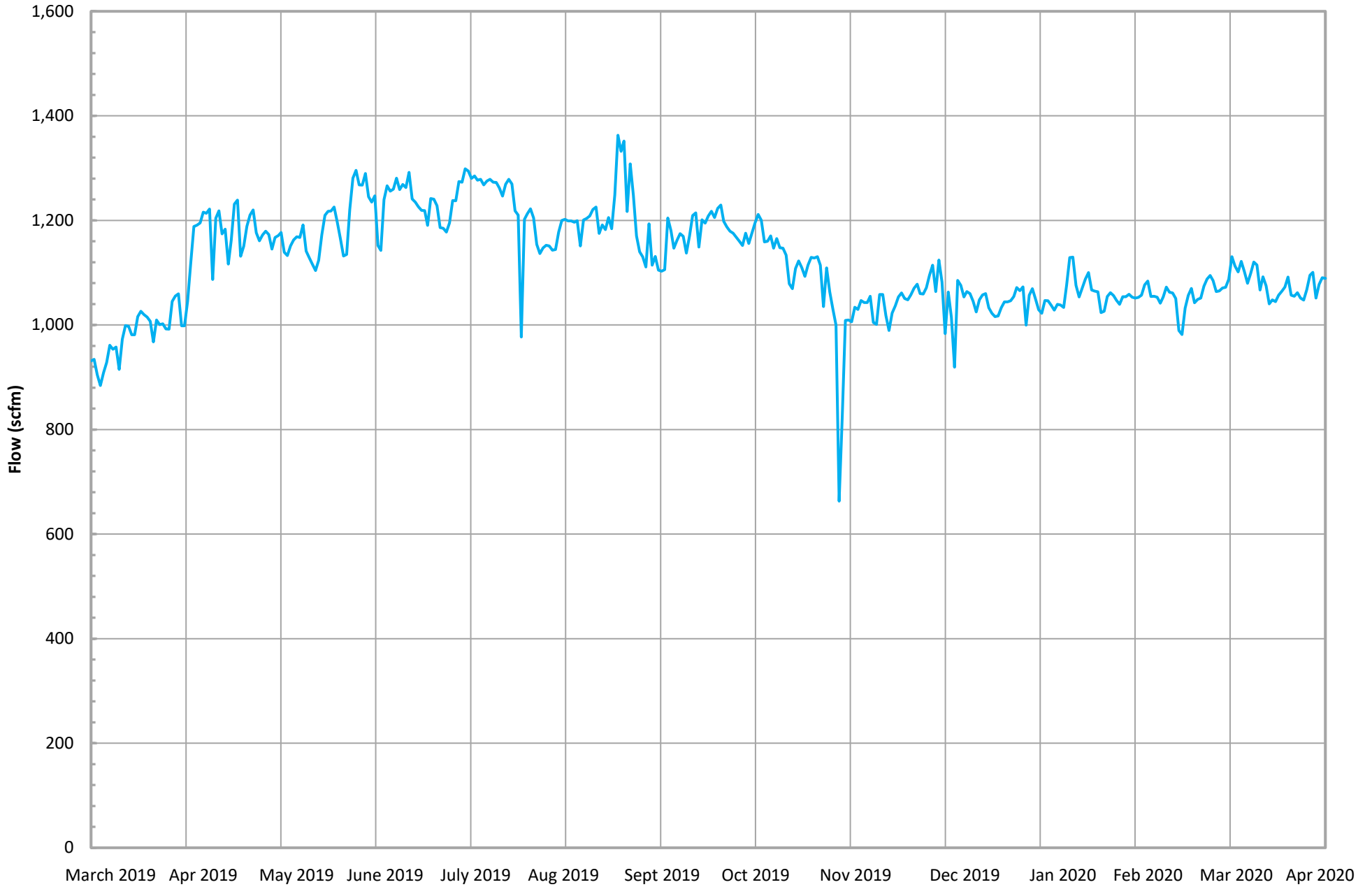


*Gas data collected from field monitoring data

— 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

March 2020

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	Operational	
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	

March 2020

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	Non-Operational	Decommissioned
GEW-145	Operational	
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Operational	
GEW-152	Operational	
GEW-153	Operational	

March 2020

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	

March 2020		
ID	Well Condition	Comments
GEW-227	Operational	
GEW-228	Operational	
GEW-229	Operational	
GEW-230	Operational	
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
							(ppm)	
North Quarry								
GEW-002	11/19/2019	53	40	ND	5.2	ND	ND	
GEW-002	12/11/2019	52	39	ND	8.5	ND	ND	
GEW-002	1/16/2020	53	38	ND	7.9	ND	ND	
GEW-002	2/17/2020	50	36	ND	14	ND	ND	
GEW-002	3/10/2020	51	41	1.6	6.9	ND	ND	
GEW-002	3/24/2020	52	44	ND	3.5	ND	ND	
GEW-02S	11/19/2019	59	34	ND	6.0	ND	ND	
GEW-02S	12/10/2019	53	33	1.5	13	ND	ND	
GEW-02S	12/23/2019	53	32	2.2	13	ND	ND	
GEW-02S	1/15/2020	60	34	ND	5.3	ND	ND	
GEW-02S	2/17/2020	58	33	1.6	7.5	ND	ND	
GEW-02S	2/27/2020	57	33	ND	8.5	ND	ND	
GEW-02S	3/10/2020	56	36	ND	7.3	ND	ND	
GEW-003	11/19/2019	51	42	ND	6.7	ND	ND	
GEW-003	12/11/2019	53	41	ND	5.1	ND	ND	
GEW-003	1/16/2020	55	40	ND	4.9	ND	ND	
GEW-003	2/18/2020	52	38	ND	8.5	ND	ND	
GEW-003	3/10/2020	52	42	ND	5.4	0.028	ND	
GEW-004	11/19/2019	49	37	2.2	11	0.038	ND	
GEW-004	11/27/2019	55	40	ND	5.3	0.034	ND	
GEW-004	12/11/2019	54	40	ND	5.2	0.036	ND	
GEW-004	1/16/2020	52	38	ND	9.7	0.049	ND	
GEW-004	2/18/2020	53	38	ND	9.0	0.037	ND	
GEW-004	3/10/2020	40	32	5.3	23	ND	ND	
GEW-004	3/24/2020	50	42	ND	7.3	ND	ND	
GEW-005	11/19/2019	54	37	ND	7.6	ND	ND	
GEW-005	12/11/2019	55	37	ND	7.7	ND	ND	
GEW-005	1/16/2020	48	34	ND	17	ND	ND	
GEW-005	2/18/2020	47	33	ND	19	ND	ND	
GEW-005	3/10/2020	49	37	ND	14	ND	ND	
GEW-006	11/19/2019	54	38	ND	7.3	ND	ND	
GEW-006	12/11/2019	55	37	ND	7.5	ND	ND	
GEW-006	1/16/2020	54	36	ND	9.1	ND	ND	
GEW-006	2/18/2020	53	35	ND	11	ND	ND	
GEW-006	3/10/2020	53	38	ND	8.9	ND	ND	
GEW-007	11/18/2019	56	40	ND	3.5	ND	ND	
GEW-007	12/9/2019	55	40	ND	3.6	ND	ND	
GEW-007	1/15/2020	56	39	ND	4.5	ND	ND	
GEW-007	2/17/2020	55	40	ND	4.3	ND	ND	
GEW-007	3/9/2020	54	41	ND	4.4	ND	ND	
GEW-008	11/18/2019	53	43	ND	ND	1.4	ND	
GEW-008	12/9/2019	49	40	2.1	8.0	1.4	ND	
GEW-008	12/23/2019	52	42	ND	3.5	1.2	ND	
GEW-008	1/15/2020	54	41	ND	3.1	1.1	48	
GEW-008	1/31/2020	54	41	ND	3.4	1.2	ND	
GEW-008	2/17/2020	54	41	ND	2.8	1.3	ND	
GEW-008	3/9/2020	52	43	ND	3.3	1.1	ND	
GEW-009	11/18/2019	50	41	ND	7.7	0.60	ND	
GEW-009	12/9/2009	50	41	ND	7.3	0.68	ND	
GEW-009	1/15/2020	50	39	ND	9.3	0.63	ND	
GEW-009	2/17/2020	52	40	ND	6.7	0.77	ND	
GEW-009	3/9/2020	48	40	ND	9.4	0.67	ND	
GEW-040	11/18/2019	59	35	ND	5.4	ND	ND	
GEW-040	12/9/2019	58	35	ND	6.9	ND	ND	
GEW-040	1/15/2020	61	34	ND	4.7	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
GEW-040	2/17/2020	57	32	ND	10.0	ND	ND	
GEW-040	3/9/2020	51	33	ND	15	ND	ND	
GEW-041R	11/18/2019	53	35	ND	11	ND	ND	
GEW-041R	12/10/2019	53	35	ND	12	ND	ND	
GEW-041R	1/15/2020	49	32	1.7	17	ND	ND	
GEW-041R	1/31/2020	54	33	ND	12	ND	ND	
GEW-041R	2/17/2020	53	33	ND	12	ND	ND	
GEW-041R	3/9/2020	49	35	ND	15	ND	ND	
GEW-042R	11/18/2019	54	37	ND	7.8	ND	ND	
GEW-042R	12/10/2019	53	36	1.5	9.1	ND	ND	
GEW-042R	12/23/2019	55	38	ND	5.4	ND	ND	
GEW-042R	1/15/2020	53	36	ND	9.0	ND	ND	
GEW-042R	2/17/2020	56	37	ND	6.5	ND	ND	
GEW-042R	3/10/2020	50	36	2.2	12	ND	ND	
GEW-042R	3/24/2020	52	40	ND	7.4	ND	ND	
GEW-043R	11/18/2019	54	40	ND	4.2	0.13	ND	
GEW-043R	12/10/2019	55	40	ND	3.8	0.13	ND	
GEW-043R	1/15/2020	55	40	ND	4.9	ND	ND	
GEW-043R	2/17/2020	55	39	ND	5.6	0.12	ND	
GEW-043R	3/10/2020	50	40	ND	8.8	0.084	ND	
GEW-044	11/18/2019	53	36	1.8	9.0	ND	ND	
GEW-044	11/27/2019	46	35	ND	19	ND	ND	
GEW-044	12/10/2019	45	34	ND	20	ND	ND	
GEW-044	1/15/2020	44	32	ND	23	ND	ND	
GEW-044	2/17/2020	46	31	ND	21	ND	ND	
GEW-044	3/11/2020	47	36	ND	16	ND	ND	
GEW-045R	11/18/2019	56	40	ND	3.9	ND	ND	
GEW-045R	12/10/2019	57	39	ND	3.3	ND	ND	
GEW-045R	1/15/2020	56	38	ND	4.8	ND	ND	
GEW-045R	2/17/2020	55	37	ND	6.8	ND	ND	
GEW-045R	3/10/2020	53	40	ND	6.2	ND	ND	
GEW-046R	11/18/2019	54	38	ND	6.0	ND	ND	
GEW-046R	12/10/2019	55	39	ND	4.8	0.047	ND	
GEW-046R	1/15/2020	54	37	ND	8.2	ND	ND	
GEW-046R	2/17/2020	52	37	ND	9.9	0.054	ND	
GEW-046R	3/10/2020	51	39	ND	9.0	0.044	ND	
GEW-047R	11/19/2019	52	40	ND	7.4	ND	ND	
GEW-047R	12/11/2019	54	40	ND	5.7	ND	ND	
GEW-047R	1/16/2020	49	37	ND	14	ND	ND	
GEW-047R	2/18/2020	45	33	2.5	20	ND	ND	See Note 3
GEW-047R	2/27/2020	49	36	ND	13	0.035	ND	
GEW-047R	3/10/2020	48	39	ND	13	ND	ND	
GEW-048	11/19/2019	54	39	ND	6.3	ND	ND	
GEW-048	12/11/2019	56	38	ND	5.1	ND	ND	
GEW-048	1/16/2020	55	38	ND	6.4	ND	ND	
GEW-048	2/18/2020	54	37	ND	8.2	ND	ND	
GEW-048	3/10/2020	52	40	ND	7.4	ND	ND	
GEW-049	11/18/2019	53	40	ND	5.8	0.033	ND	
GEW-049	12/10/2019	48	36	ND	15	ND	ND	
GEW-049	1/15/2020	50	35	ND	14	ND	ND	
GEW-049	2/17/2020	53	37	ND	8.7	ND	ND	
GEW-049	3/10/2020	42	34	ND	23	ND	ND	
GEW-050	11/18/2019	55	38	ND	6.0	ND	ND	
GEW-050	12/9/2019	55	38	ND	6.4	ND	ND	
GEW-050	1/15/2020	52	36	ND	11	0.44	ND	
GEW-050	2/17/2020	54	36	ND	9.5	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
		%						
GEW-050	3/9/2020	51	38	ND	9.7	ND	ND	
GEW-051	11/18/2019	54	40	ND	3.8	1.0	ND	
GEW-051	12/9/2019	54	41	ND	ND	1.1	ND	
GEW-051	1/15/2020	51	37	2.4	9.4	0.71	30	
GEW-051	1/31/2020	55	40	ND	4.1	0.88	ND	
GEW-051	2/17/2020	54	39	ND	5.0	0.85	ND	
GEW-051	3/9/2020	49	39	2.0	9.6	0.71	ND	
GEW-051	3/24/2020	43	36	4.2	17	0.74	ND	See Note 3
GEW-052	11/18/2019	49	38	ND	12	ND	ND	
GEW-052	12/9/2019	50	38	ND	11	ND	ND	
GEW-052	1/15/2020	54	39	1.6	6.0	ND	ND	
GEW-052	1/31/2020	54	38	ND	6.3	ND	ND	
GEW-052	2/17/2020	51	37	ND	11	ND	ND	
GEW-052	3/9/2020	50	40	ND	9.5	ND	ND	
GEW-053	11/18/2019	50	42	ND	3.3	3.6	66	
GEW-053	12/9/2019	50	43	ND	ND	3.9	63	
GEW-053	1/15/2020	50	41	ND	4.7	3.3	66	
GEW-053	2/17/2020	50	41	ND	4.3	3.7	65	
GEW-053	3/9/2020	48	43	ND	4.8	3.3	58	
GEW-054	11/18/2019	48	39	2.3	8.8	1.7	ND	
GEW-054	11/27/2019	45	36	3.7	14	1.5	ND	See Note 3
GEW-054	12/9/2019	51	41	ND	4.9	1.7	ND	
GEW-054	1/15/2020	53	42	ND	ND	1.6	ND	
GEW-054	2/17/2020	53	41	ND	3.3	1.7	ND	
GEW-054	3/9/2020	51	43	ND	4.0	1.5	ND	
GEW-055	11/18/2019	52	42	ND	3.7	1.4	ND	
GEW-055	12/9/2019	52	42	ND	3.7	1.4	ND	
GEW-055	1/15/2020	52	41	ND	4.6	1.2	ND	
GEW-055	2/17/2020	52	40	ND	5.5	1.4	ND	
GEW-055	3/9/2020	49	42	ND	7.2	1.2	ND	
Flare Station ²	11/7/2019	24.7	37.5	4.6	26.2	6.4	205	See Note 9
Flare Station ²	12/5/2019	24.5	36.0	5.3	27.5	6.2	195	See Note 9
Flare Station ²	1/3/2020	25.0	36.0	5.2	27.5	5.9	200	See Note 9
Flare Station ²	2/6/2020	24.5	33.0	6.4	30.0	5.8	180	See Note 9
Flare Station ²	3/4/2020	23.5	38.0	5.3	28.0	5.1	160	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	11/13/2019	54	41	ND	3.1	0.34	ND	
GEW-010	12/5/2019	54	41	ND	3.6	0.18	ND	
GEW-010	1/3/2020	54	40	ND	5.0	0.14	ND	
GEW-010	2/13/2020	56	41	ND	ND	0.13	ND	
GEW-010	3/11/2020	53	43	ND	ND	0.096	ND	
GEW-013A	1/16/2020	9.5	61	ND	ND	25	860	
GEW-015	1/16/2020	26	46	ND	8.4	18	610	
GEW-016R	1/16/2020	9.2	54	ND	8.1	27	880	
GEW-018B	1/21/2020	7.1	33	4.4	37	18	670	
GEW-019A	1/21/2020	1.8	57	3.7	12	25	1,200	
GEW-039	11/15/2019	45	41	ND	13	ND	ND	
GEW-039	12/9/2019	28	32	2.8	37	ND	ND	
GEW-039	1/14/2020	30	31	2.7	36	ND	ND	
GEW-039	2/17/2020	36	32	2.2	29	ND	ND	
GEW-039	3/11/2020	31	33	1.8	34	ND	ND	
GEW-056R	11/13/2019	46	42	ND	5.2	6.4	85	
GEW-056R	12/5/2019	41	40	ND	15	3.2	55	
GEW-056R	1/3/2020	44	39	ND	13	3.3	73	
GEW-056R	2/12/2020	46	42	ND	4.8	6.1	90	
GEW-056R	3/11/2020	43	44	ND	7.6	3.8	72	
GEW-057B	1/13/2020	5.2	52	ND	2.8	38	870	
GEW-058A	1/10/2020	0.52	38	3.9	23	34	1,500	
GEW-059R	1/9/2020	20	38	ND	19	22	640	
GEW-067A	1/16/2020	7.8	54	ND	4.2	33	670	
GEW-068A	1/14/2020	1.0	54	ND	ND	38	1,400	
GEW-078R	1/20/2020	8.0	25	1.9	53	12	470	
GEW-082R	1/20/2020	7.6	32	1.4	39	20	680	
GEW-086	1/16/2020	7.1	23	9.5	48	12	300	See Note 4
GEW-087	1/16/2020	10	38	5.6	32	13	360	See Note 4
GEW-088	1/16/2020	1.9	40	3.3	19	35	1,100	
GEW-090	1/16/2020	18	37	ND	26	17	420	
GEW-091	11/13/2019	2.8	49	2.2	8.3	36	310	
GEW-091	12/9/2019	3.0	51	ND	4.0	39	320	
GEW-091	1/3/2020	2.8	53	ND	3.8	37	400	
GEW-091	2/17/2020	3.6	51	ND	ND	41	390	
GEW-091	3/11/2020	2.3	57	ND	ND	35	380	
GEW-100	1/14/2020	9.7	51	2.9	9.9	26	740	
GEW-101	1/14/2020	47	49	ND	3.0	ND	ND	
GEW-102	1/13/2020	21	36	6.0	20	16	110	See Note 4
GEW-104	1/13/2020	22	38	ND	28	10	270	
GEW-105	1/10/2020	35	44	ND	6.1	14	440	
GEW-106	1/10/2020	14	46	ND	18	20	620	
GEW-107	1/9/2020	19	49	2.5	8.6	21	770	
GEW-108	11/15/2019	31	42	2.4	12	13	290	
GEW-108	12/9/2019	24	50	ND	ND	22	490	
GEW-108	1/14/2020	33	46	ND	3.8	16	380	
GEW-108	2/17/2020	35	41	2.0	6.7	15	310	
GEW-108	3/11/2020	29	45	2.5	8.8	15	310	
GEW-109	11/15/2019	48	48	ND	ND	0.084	ND	
GEW-109	12/9/2019	39	39	2.1	19	0.77	ND	
GEW-109	1/14/2020	39	37	2.4	21	0.89	ND	
GEW-109	2/17/2020	43	42	3.2	11	ND	ND	
GEW-109	3/11/2020	43	43	ND	11	0.57	ND	
GEW-110	11/13/2019	32	49	ND	ND	16	290	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-110	12/5/2019	31	35	3.5	26	3.5	74	
GEW-110	1/3/2020	26	36	6.2	22	8.8	190	See Note 4
GEW-110	2/13/2020	26	33	7.5	26	8.1	140	See Note 4
GEW-110	3/11/2020	34	44	1.7	13	6.8	120	
GEW-113	1/16/2020	10	54	1.7	13	21	910	
GEW-116	1/21/2020	18	43	4.7	28	5.7	430	
GEW-117	1/21/2020	44	45	2.2	7.8	0.61	66	
GEW-118	1/21/2020	3.1	41	ND	29	26	1,300	
GEW-120	1/21/2020	35	35	3.5	26	0.12	52	
GEW-121	1/21/2020	29	46	ND	17	6.5	240	
GEW-122	1/20/2020	32	33	ND	26	7.4	330	
GEW-123	1/21/2020	26	51	ND	17	4.0	590	
GEW-124	1/20/2020	41	32	6.2	21	ND	ND	See Note 3
GEW-125	1/10/2020	35	61	ND	ND	1.1	170	
GEW-126	1/15/2020	16	45	1.8	24	14	1,000	
GEW-127	1/13/2020	13	56	ND	6.2	23	1,800	
GEW-129	1/13/2020	32	52	ND	11	3.8	410	
GEW-130	1/10/2020	21	43	ND	17	17	1,200	
GEW-131	1/10/2020	44	42	ND	ND	11	540	
GEW-132	1/21/2020	11	24	4.0	52	8.7	430	
GEW-133	1/21/2020	13	31	2.1	51	2.1	540	
GEW-134	1/21/2020	5.9	28	4.3	55	6.4	250	
GEW-135	1/20/2020	2.4	31	4.6	48	14	560	
GEW-137	1/20/2020	38	40	ND	21	ND	ND	
GEW-138	1/20/2020	7.9	16	6.2	66	3.7	220	See Note 4
GEW-139	1/14/2020	5.5	53	ND	3.5	36	1,900	
GEW-140	1/14/2020	23	38	ND	23	15	380	
GEW-145	1/13/2020	23	48	ND	3.5	24	400	
GEW-147	1/16/2020	17	40	4.2	23	15	480	
GEW-148	1/16/2020	16	52	ND	ND	27	1,400	
GEW-149	1/16/2020	7.0	19	2.2	71	0.81	61	
GEW-150	1/10/2020	32	45	ND	5.2	15	490	
GEW-151	1/16/2020	6.1	29	5.3	41	18	500	See Note 4
GEW-152	1/13/2020	19	48	ND	10	22	760	
GEW-153	1/9/2020	26	28	2.1	41	2.7	120	
GEW-156	1/9/2020	22	31	6.7	31	9.3	250	See Note 3
GEW-157	1/10/2020	21	28	9.0	31	10	240	See Note 3
GEW-158	1/10/2020	23	44	ND	17	15	440	
GEW-159	11/15/2019	34	30	6.6	27	1.6	51	See Note 4
GEW-159	12/9/2019	29	32	5.6	31	1.5	36	See Note 4
GEW-159	1/20/2020	2.0	5.6	19	71	3.1	240	See Note 4
GEW-160	11/13/2019	14	27	8.1	34	16	400	See Note 4
GEW-160	12/9/2019	15	31	5.8	34	14	310	See Note 4
GEW-160	1/3/2020	17	39	2.4	22	18	570	
GEW-160	2/17/2020	24	39	ND	19	17	400	
GEW-160	3/11/2020	17	35	4.6	30	14	380	
GEW-161	11/13/2019	1.9	53	ND	ND	41	1,400	
GEW-161	12/5/2019	1.8	51	1.6	5.9	39	1,300	
GEW-161	1/3/2020	2.1	51	2.6	9.2	35	1,300	
GEW-161	2/13/2020	5.4	54	ND	3.6	36	1,300	
GEW-161	3/11/2020	2.5	51	ND	14	31	1,100	
GEW-162	11/13/2019	15	62	ND	10	12	480	
GEW-162	12/5/2019	13	62	ND	12	12	500	
GEW-162	1/3/2020	15	64	ND	6.6	13	620	
GEW-162	2/13/2020	14	65	ND	6.0	15	650	
GEW-162	3/11/2020	1.1	14	2.8	81	1.5	1,100	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-163	1/21/2020	30	55	ND	6.1	7.6	210	
GEW-164	1/20/2020	28	44	1.7	26	0.40	140	
GEW-165	1/20/2020	12	31	9.0	40	6.7	320	See Note 4
GEW-166	1/20/2020	5.5	55	ND	ND	36	2,500	
GEW-167	1/20/2020	11	43	ND	12	32	1,600	
GEW-168	1/10/2020	30	51	ND	14	3.9	230	
GEW-169	1/13/2020	9.4	42	4.4	28	16	860	
GEW-170	1/13/2020	12	38	6.1	29	15	1,000	See Note 4
GEW-171	1/14/2020	43	32	4.7	16	3.7	150	
GEW-172	1/14/2020	18	43	3.5	14	21	1,100	
GEW-174	1/13/2020	13	36	2.1	34	15	490	
GEW-175	1/10/2020	25	33	5.5	33	3.4	150	See Note 4
GEW-176	1/10/2020	40	33	3.6	22	1.2	ND	
GEW-177	1/13/2020	11	46	1.8	23	17	1,600	
GEW-178	1/13/2020	24	26	7.2	43	0.035	ND	See Note 4
GEW-179	1/13/2020	42	55	ND	ND	ND	ND	
GEW-180	1/14/2020	32	60	1.7	6.0	0.19	110	
GEW-181	1/15/2020	25	71	ND	ND	ND	ND	
GEW-185	1/21/2020	35	47	ND	16	ND	ND	
GEW-186	1/13/2020	21	25	9.8	43	1.2	110	See Note 4
GEW-187	11/15/2019	38	53	ND	ND	4.8	170	
GEW-187	12/9/2019	38	54	ND	ND	4.1	140	
GEW-187	1/14/2020	40	53	ND	ND	3.3	130	
GEW-187	2/17/2020	18	23	13	44	0.92	51	See Note 3
GEW-187	3/11/2020	38	50	1.9	6.7	2.8	100	
GEW-217	1/13/2020	25	47	ND	2.9	23	480	
GEW-218	1/13/2020	16	33	4.9	37	9.1	330	
GEW-219	1/13/2020	3.5	19	13	51	13	450	See Note 4
GEW-220	1/13/2020	26	46	2.0	14	12	560	
GEW-221	1/14/2020	25	45	ND	21	7.3	150	
GEW-222	1/14/2020	31	45	ND	8.7	14	390	
GEW-223	1/14/2020	25	58	ND	3.2	13	790	
GEW-224	1/13/2020	25	58	ND	ND	14	1,100	
GEW-225	1/14/2020	9.1	53	ND	4.1	32	2,700	
GEW-226	1/14/2020	9.0	37	ND	32	20	1,100	
GEW-227	1/20/2020	1.8	36	5.4	32	25	570	See Note 4
GEW-228	1/20/2020	6.8	33	3.6	26	30	490	
GEW-229	1/20/2020	2.0	11	11	75	0.86	30	See Note 4
GEW-230	1/16/2020	0.57	9.4	15	72	3.2	200	See Note 4
GEW-231	1/13/2020	11	23	13	51	2.7	260	See Note 4
GEW-232	1/16/2020	18	48	2.9	14	16	720	
GEW-233	1/21/2020	6.9	40	ND	35	16	510	
GEW-234	1/16/2020	3.4	31	4.7	43	17	810	
GEW-235	1/21/2020	24	49	ND	9.6	16	440	
GEW-236	1/20/2020	2.8	38	4.1	17	37	470	
GEW-237	1/10/2020	24	34	5.9	32	4.2	150	See Note 4
GEW-238	1/16/2020	13	54	ND	14	18	730	
GEW-239	1/16/2020	0.78	34	7.3	29	29	950	See Note 4
GEW-240	1/14/2020	8.5	23	5.6	52	10	460	See Note 4
GIW-01	11/13/2019	13	57	1.8	7.2	21	750	
GIW-01	12/9/2019	12	58	2.0	7.7	20	660	
GIW-01	1/3/2020	12	53	3.6	13	18	790	
GIW-01	2/17/2020	19	51	3.2	11	16	550	
GIW-01	3/11/2020	25	61	ND	ND	10	370	
GIW-02	10/16/2019	3.6	23	7.5	62	4.2	270	See Note 4
GIW-02	11/13/2019	3.6	29	5.5	53	8.7	440	See Note 4

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
(%)								
GIW-02	12/9/2019	1.7	32	7.2	48	11	560	See Note 4
GIW-02	1/15/2020	3.8	57	2.2	17	19	1,100	
GIW-02	2/17/2020	6.1	53	ND	22	17	870	
GIW-02	3/11/2020	8.3	50	2.5	28	11	500	
GIW-03	10/16/2019	16	43	ND	26	14	480	
GIW-03	11/14/2019	18	43	1.6	24	12	410	
GIW-03	12/9/2019	17	45	ND	23	12	400	
GIW-03	1/15/2020	19	45	ND	22	13	470	
GIW-03	2/17/2020	20	45	1.8	19	13	490	
GIW-03	3/11/2020	12	41	ND	36	9.9	470	
GIW-04	10/16/2019	12	45	2.5	14	26	690	
GIW-04	11/14/2019	14	50	ND	3.8	31	1,000	
GIW-04	12/9/2019	14	48	1.7	11	25	780	
GIW-04	1/15/2020	13	49	ND	8.4	28	1,000	
GIW-04	2/17/2020	17	46	1.7	7.1	27	930	
GIW-04	3/11/2020	17	49	ND	9.7	22	760	
GIW-05	10/16/2019	14	29	7.2	38	12	140	See Note 4
GIW-05	11/14/2019	0.16	0.86	21	78	ND	ND	See Note 4
GIW-05	12/9/2019	0.26	0.52	22	77	0.22	ND	See Note 4
GIW-05	1/15/2020	0.12	1.0	23	76	ND	ND	See Note 4
GIW-05	2/17/2020	0.32	1.5	23	76	0.065	ND	See Note 4
GIW-05	3/11/2020	20	38	4.7	26	11	190	
GIW-06	10/16/2019	39	42	ND	13	4.1	42	
GIW-06	11/15/2019	40	42	ND	13	3.3	34	
GIW-06	12/9/2019	29	36	1.6	30	3.4	37	
GIW-06	1/15/2020	34	39	ND	21	3.9	45	
GIW-06	2/17/2020	38	38	ND	17	5.9	45	
GIW-06	3/11/2020	37	40	ND	18	3.3	35	
GIW-07	10/16/2019	50	44	ND	4.9	0.11	ND	
GIW-07	11/15/2019	48	42	1.8	7.7	ND	ND	
GIW-07	12/9/2019	49	41	1.9	7.2	ND	ND	
GIW-07	1/15/2020	54	42	ND	3.5	ND	ND	
GIW-07	2/17/2020	54	42	ND	3.2	ND	ND	
GIW-07	3/11/2020	49	39	2.0	9.6	ND	ND	
GIW-08	10/16/2019	51	44	ND	4.4	ND	ND	
GIW-08	11/15/2019	50	43	ND	6.1	ND	ND	
GIW-08	12/9/2019	47	43	ND	8.9	ND	ND	
GIW-08	1/15/2020	48	43	ND	8.8	ND	ND	
GIW-08	2/17/2020	52	43	ND	4.3	ND	ND	
GIW-08	3/11/2020	46	46	ND	7.4	ND	ND	
GIW-09	10/16/2019	25	41	ND	22	11	120	
GIW-09	11/15/2019	24	37	1.9	29	7.6	85	
GIW-09	12/9/2019	14	32	2.2	42	8.6	78	
GIW-09	1/15/2020	21	35	1.6	35	7.8	86	
GIW-09	2/17/2020	26	39	3.3	17	15	200	
GIW-09	3/11/2020	24	43	ND	19	12	150	
GIW-10	10/16/2019	23	32	ND	33	9.9	160	
GIW-10	11/15/2019	26	32	ND	32	8.1	150	
GIW-10	12/9/2019	17	31	ND	42	8.6	180	
GIW-10	1/15/2020	21	30	ND	39	8.4	210	
GIW-10	2/17/2020	27	32	1.6	30	8.6	150	
GIW-10	3/11/2020	25	34	ND	32	7.5	140	
GIW-11	10/16/2019	21	33	1.9	40	3.9	150	
GIW-11	11/15/2019	23	32	2.0	39	3.3	220	
GIW-11	12/9/2019	19	31	2.1	44	3.3	260	
GIW-11	1/15/2020	22	29	2.5	43	2.9	310	
GIW-11	2/17/2020	27	33	1.5	35	3.4	230	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
		(%)						
GIW-11	3/11/2020	26	35	1.6	35	2.8	210	
GIW-12	10/16/2019	29	35	2.3	29	4.5	170	
GIW-12	11/15/2019	32	35	2.6	25	4.9	150	
GIW-12	12/9/2019	28	33	3.3	32	3.4	130	
GIW-12	1/15/2020	30	32	3.2	30	3.6	170	
GIW-12	2/17/2020	32	34	2.6	28	4.6	180	
GIW-12	3/11/2020	32	37	1.8	24	3.8	150	
GIW-13	10/16/2019	34	44	ND	10	10	200	
GIW-13	11/15/2019	34	47	ND	5.8	12	210	
GIW-13	12/9/2019	31	49	ND	7.1	12	190	
GIW-13	1/15/2020	41	45	ND	4.0	9.0	140	
GIW-13	2/17/2020	43	44	ND	4.1	7.8	100	
GIW-13	3/11/2020	35	48	ND	9.1	7.1	100	

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.

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

ATTACHMENT C-2

LABORATORY ANALYSES REPORTS



March 24, 2020

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: L031605-01/49

Enclosed are results for sample(s) received 3/16/20 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, Feezor Engineering on 3/23/20.

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 that reads "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 6

- 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.: PO7112802
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				
	Cannister ID	Sample Start	Sample End												
L031605-01	6149	-20.9	-5	GEW 50	3/9/2020	9:58	C	LFG	NA	X					4.5
-02	5324	-20.9	-5	GEW 52	3/9/2020	10:16	C	LFG	NA	X					4.5
-03	A7797	-20.8	-5	GEW 7	3/9/2020	10:27	C	LFG	NA	X					4.5
-04	A7663	-20.8	-5	GEW 8	3/9/2020	10:37	C	LFG	NA	X					4.5
-05	A7662	-20.1	-5	GEW 9	3/9/2020	10:50	C	LFG	NA	X					4.5
-06	A7816	-20.5	-5	GEW 51	3/9/2020	11:03	C	LFG	NA	X					3.5
-07	A7751	-20.6	-5	GEW 53	3/9/2020	13:53	C	LFG	NA	X					4.5
-08	A7809	-20.4	-5	GEW 54	3/9/2020	14:03	C	LFG	NA	X					4.5
-09	A8078	-20.5	-5	GEW 55	3/9/2020	14:13	C	LFG	NA	X					4.5
-10	6160	-20.6	-5	GEW 40	3/9/2020	14:23	C	LFG	NA	X					4.5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services
SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 3/9/2020
RELINQUISHED BY: [Signature] DATE/TIME: 3/13/2020 **RECEIVED BY:** [Signature] DATE/TIME: [Blank]
RELINQUISHED BY: [Signature] DATE/TIME: 3/16/20 **RECEIVED BY:** [Signature] DATE/TIME: 3/16/20 1330
RELINQUISHED BY: [Signature] DATE/TIME: [Blank] **RECEIVED BY:** [Signature] DATE/TIME: [Blank]

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: 2 OF 6
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.: PO7112802

Bill to: Republic Services

Attn: Mike Lambrich

13570 St. Charles Rock Rd.
Bridgeton, MO 63044

ANALYSIS REQUEST

D1946 + CO, H2																		
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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																
L031605-11	A7670	-20.6	-5	GEW 41R	3/9/2020	14:35	C	LFG	NA	X									4
-12	A7800	-20.7	-5	GEW 42R	3/10/2020	9:40	C	LFG	NA	X									3
-13	3440	-21.4	-5	GEW 43R	3/10/2020	9:55	C	LFG	NA	X									3
-14	5815	-21.3	-5	GEW 49	3/10/2020	10:14	C	LFG	NA	X									3
-15	A8080	-21.4	-5	GEW 45R	3/10/2020	10:29	C	LFG	NA	X									3
-16	5830	-21.3	-5	GEW 46R	3/10/2020	10:39	C	LFG	NA	X									3
-17	5829	-21.5	-5	GEW 2S	3/10/2020	10:54	C	LFG	NA	X									3
-18	5825	-21.3	-5	GEW 2	3/10/2020	11:42	C	LFG	NA	X									3
-19	A8059	-21.7	-5	GEW 3	3/10/2020	11:53	C	LFG	NA	X									3
-20	A7773	-19.5	-5	GEW 4	3/10/2020	13:43	C	LFG	NA	X									3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 3/9/20 - 3/10/2020

RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: 3/13/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <u>FED EX</u> DATE/TIME: 3/10/20	RECEIVED BY: <u>[Signature]</u> DATE/TIME: 3/10/20 1330
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS



AIR TECHNOLOGY
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

TURNAROUND TIME		DELIVERABLES	PAGE: 3 OF 6
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	ANALYSIS REQUEST
P.O. No.: PO7112802	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	ANALYSIS REQUEST						
	Cannister ID	Sample Start	Sample End														
W3K05-21	A8066	-21.1	-5	GEW 47R	3/10/2020	13:53	C	LFG	NA	X							3
-22	A7794	-21.1	-5	GEW 5	3/10/2020	14:08	C	LFG	NA	X							3
-23	5904	-21.1	-5	GEW 48	3/10/2020	14:24	C	LFG	NA	X							3
-24	A7776	-21.2	-5	GEW 6	3/10/2020	14:35	C	LFG	NA	X							3
-25	5834	-21.1	-5	GEW 44	3/11/2020	8:42	C	LFG	NA	X							4
-26	A7658	-20.3	-5	GEW 187	3/11/2020	9:33	C	LFG	NA	X							4
-27	A8076	-19.7	-5	GEW 108	3/11/2020	9:45	C	LFG	NA	X							4
-28	5929	-20.7	-5	GIW 6	3/11/2020	11:01	C	LFG	NA	X							4
-29	3157	-20.5	-5	GIW 7	3/11/2020	11:10	C	LFG	NA	X							4
-30	3838	-20.4	-5	GIW 8	3/11/2020	11:17	C	LFG	NA	X							4.5


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

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 3/10/20 - 3/11/2020

RELINQUISHED BY: <i>Ante K.A.</i> DATE/TIME: 3/13/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <i>FE EX</i> DATE/TIME: 3/16/20	RECEIVED BY: <i>Julij</i> DATE/TIME: 3/16/20 1330
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: 4 OF 6
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.: PO7112802
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												
L031605-31	5836	-20.6	-5	GIW 9	3/11/2020	11:26	C	LFG	NA	X					4
-32	A7665	-20.5	-5	GEW 109	3/11/2020	11:35	C	LFG	NA	X					4
-33	3131	-20.5	-5	GEW 39	3/11/2020	13:37	C	LFG	NA	X					4.5
-34	A7770	-20.7	-5	GIW 11	3/11/2020	13:47	C	LFG	NA	X					4.5
-35	A8090	-20.1	-5	GEW 56R	3/11/2020	14:01	C	LFG	NA	X					5
-36	5310	-20.5	-5	GIW 12	3/11/2020	14:17	C	LFG	NA	X					5
-37	3164	-20.3	-5	GIW 13	3/11/2020	14:26	C	LFG	NA	X					5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 3/11/2020

RELINQUISHED BY: <u>Anto Kimutis</u> DATE/TIME: 3/13/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <u>FLK</u> DATE/TIME: 3/16/20	RECEIVED BY: <u>D. J.</u> DATE/TIME: 3/16/20 1330
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: 5 OF 6
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.: PO7112802
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

D1946 + CO, H2

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														
L031605-38	5916	-21	-5	GEW 91	3/11/2020	9:34	C	LFG	NA	X							4
-39	A7805	-20.6	-5	GEW 161	3/11/2020	9:59	C	LFG	NA	X							4
-40	4655	-21.2	-5	GIW 5	3/11/2020	10:35	C	LFG	NA	X							4
-41	5837	-19.7	-5	GEW 160	3/11/2020	10:52	C	LFG	NA	X							4
-42	A8102	-20.4	-5	GIW 4	3/11/2020	11:03	C	LFG	NA	X							4
-43	5316	-20.7	-5	GIW 3	3/11/2020	11:12	C	LFG	NA	X							4.5
-44	5918	-20.5	-5	GIW 10	3/11/2020	11:22	C	LFG	NA	X							4
-45	A8063	-20.1	-5	GEW 162	3/11/2020	13:42	C	LFG	NA	X							5
-46	6152	-19.3	-5	GIW 2	3/11/2020	13:53	C	LFG	NA	X							5
-47	A8068	-20.4	-5	GIW 1	3/11/2020	14:05	C	LFG	NA	X							5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Andy Guthrie COMPANY: Hunt Vac Services DATE/TIME: 3/11/2020

RELINQUISHED BY: <u>Andy Guthrie</u>	DATE/TIME: 3/13/2020	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <u>Andy Guthrie</u>	DATE/TIME: 3/16/20	RECEIVED BY: <u>[Signature]</u>	DATE/TIME: 3/16/20 1730
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

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

COMMENTS



AIR TECHNOLOGY
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

TURNAROUND TIME		DELIVERABLES	PAGE: 6 OF 6
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.: PO7112802
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												
L031605-42	A7820	-20.4	-5	GEW 10	3/11/2020	14:18	C	LFG	NA	X					5
↓ -49	A7759	-20.3	-5	GEW 110	3/11/2020	14:28	C	LFG	NA	X					4.5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Andy Guthrie COMPANY: Hunt Vac Services DATE/TIME: 3/11/2020

RELINQUISHED BY: <u>Andy Guthrie</u>	DATE/TIME: 3/13/2020	RECEIVED BY: _____	DATE/TIME: _____
RELINQUISHED BY: <u>RETEX</u>	DATE/TIME: 3/16/20	RECEIVED BY: <u>[Signature]</u>	DATE/TIME: 3/16/20 1330
RELINQUISHED BY: _____	DATE/TIME: _____	RECEIVED BY: _____	DATE/TIME: _____

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

COMMENTS

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-01	L031605-02	L031605-03	L031605-04				
Client Sample I.D.:	GEW 50	GEW 52	GEW 7	GEW 8				
Date/Time Sampled:	3/9/20 9:58	3/9/20 10:16	3/9/20 10:27	3/9/20 10:37				
Date/Time Analyzed:	3/17/20 15:06	3/17/20 15:21	3/17/20 15:36	3/17/20 15:50				
QC Batch No.:	200317GC8A2	200317GC8A2	200317GC8A2	200317GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	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	ND d	0.031	ND d	0.031	ND d	0.031	1.1 d	0.031
Carbon Dioxide	38	0.031	40	0.031	41	0.031	43	0.031
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	9.7	3.1	9.5	3.1	4.4	3.1	3.3	3.1
Methane	51	0.0031	50	0.0031	54	0.0031	52	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 number 200320GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L031605-05	L031605-06	L031605-07	L031605-08				
Client Sample I.D.:	GEW 9	GEW 51	GEW 53	GEW 54				
Date/Time Sampled:	3/9/20 10:50	3/9/20 11:03	3/9/20 13:53	3/9/20 14:03				
Date/Time Analyzed:	3/17/20 16:25	3/17/20 16:55	3/17/20 17:10	3/17/20 17:24				
QC Batch No.:	200317GC8A2	200317GC8A2	200317GC8A2	200317GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	2.9	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	0.67 d	0.031	0.71 d	0.029	3.3 d	0.031	1.5 d	0.031
Carbon Dioxide	40	0.031	39	0.029	43	0.031	43	0.031
Oxygen/Argon	ND	1.5	2.0	1.4	ND	1.5	ND	1.5
Nitrogen	9.4	3.1	9.6	2.9	4.8	3.1	4.0	3.1
Methane	48	0.0031	49	0.0029	48	0.0031	51	0.0031
Carbon Monoxide	ND	0.0031	ND	0.0029	0.0058	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 number 200320GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 3-22-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-09	L031605-10	L031605-11	L031605-12				
Client Sample I.D.:	GEW 55	GEW 40	GEW 41R	GEW 42R				
Date/Time Sampled:	3/9/20 14:13	3/9/20 14:23	3/9/20 14:35	3/10/20 9:40				
Date/Time Analyzed:	3/17/20 17:39	3/17/20 17:53	3/17/20 18:08	3/17/20 18:22				
QC Batch No.:	200317GC8A2	200317GC8A2	200317GC8A2	200317GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	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	1.2 d	0.031	ND d	0.031	ND d	0.030	ND d	0.028
Carbon Dioxide	42	0.031	33	0.031	35	0.030	36	0.028
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	2.2	1.4
Nitrogen	7.2	3.1	15	3.1	15	3.0	12	2.8
Methane	49	0.0031	51	0.0031	49	0.0030	50	0.0028
Carbon Monoxide	ND	0.0031	ND	0.0031	ND	0.0030	ND	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200320GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-13	L031605-14	L031605-15	L031605-16				
Client Sample I.D.:	GEW 43R	GEW 49	GEW 45R	GEW 46R				
Date/Time Sampled:	3/10/20 9:55	3/10/20 10:14	3/10/20 10:29	3/10/20 10:39				
Date/Time Analyzed:	3/17/20 18:37	3/17/20 18:52	3/17/20 19:06	3/17/20 20:05				
QC Batch No.:	200317GC8A2	200317GC8A2	200317GC8A2	200317GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	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	0.084 d	0.031	ND d	0.031	ND d	0.028	0.044 d	0.028
Carbon Dioxide	40	0.031	34	0.031	40	0.028	39	0.028
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.4	ND	1.4
Nitrogen	8.8	3.1	23	3.1	6.2	2.8	9.0	2.8
Methane	50	0.0031	42	0.0031	53	0.0028	51	0.0028
Carbon Monoxide	ND	0.0031	ND	0.0031	ND	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch 200320GC8A1, 200323GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L031605-17	L031605-18	L031605-19	L031605-20				
Client Sample I.D.:	GEW 2S	GEW 2	GEW 3	GEW 4				
Date/Time Sampled:	3/10/20 10:54	3/10/20 11:42	3/10/20 11:53	3/10/20 13:43				
Date/Time Analyzed:	3/17/20 20:19	3/17/20 20:34	3/17/20 20:48	3/18/20 15:21				
QC Batch No.:	200317GC8A2	200317GC8A2	200317GC8A2	200318GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	3.8				
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	0.028	ND d	0.028	0.028 d	0.028	ND d	0.038
Carbon Dioxide	36	0.028	41	0.028	42	0.028	32	0.038
Oxygen/Argon	ND	1.4	1.6	1.4	ND	1.4	5.3	1.9
Nitrogen	7.3	2.8	6.9	2.8	5.4	2.8	23	3.8
Methane	56	0.0028	51	0.0028	52	0.0028	40	0.0038
Carbon Monoxide	ND	0.0028	ND	0.0028	ND	0.0028	ND	0.0038

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200320GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-21	L031605-22	L031605-23	L031605-24				
Client Sample I.D.:	GEW 47R	GEW 5	GEW 48	GEW 6				
Date/Time Sampled:	3/10/20 13:53	3/10/20 14:08	3/10/20 14:24	3/10/20 14:35				
Date/Time Analyzed:	3/17/20 23:43	3/17/20 23:57	3/18/20 0:12	3/18/20 0:26				
QC Batch No.:	200317GC8A3	200317GC8A3	200317GC8A3	200317GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	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	ND d	0.028	ND d	0.028	ND d	0.028	ND d	0.028
Carbon Dioxide	39	0.028	37	0.028	40	0.028	38	0.028
Oxygen/Argon	ND	1.4	ND	1.4	ND	1.4	ND	1.4
Nitrogen	13	2.8	14	2.8	7.4	2.8	8.9	2.8
Methane	48	0.0028	49	0.0028	52	0.0028	53	0.0028
Carbon Monoxide	ND	0.0028	ND	0.0028	ND	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)
 RL = Reporting Limit
 d = Analyzed by secondary analysis, batch number 200320GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-25	L031605-26	L031605-27	L031605-28				
Client Sample I.D.:	GEW 44	GEW 187	GEW 108	GIW 6				
Date/Time Sampled:	3/11/20 8:42	3/11/20 9:33	3/11/20 9:45	3/11/20 11:01				
Date/Time Analyzed:	3/18/20 0:41	3/18/20 0:55	3/18/20 1:10	3/18/20 1:24				
QC Batch No.:	200317GC8A3	200317GC8A3	200317GC8A3	200317GC8A3				
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	2.8 d	0.030	15	3.0	3.3 d	0.030
Carbon Dioxide	36	0.030	50	0.030	45	0.030	40	0.030
Oxygen/Argon	ND	1.5	1.9	1.5	2.5	1.5	ND	1.5
Nitrogen	16	3.0	6.7	3.0	8.8	3.0	18	3.0
Methane	47	0.0030	38	0.0030	29	0.0030	37	0.0030
Carbon Monoxide	ND	0.0030	0.010	0.0030	0.031	0.0030	0.0035	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200320GC8A2, 200323GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L031605-29	L031605-30	L031605-31	L031605-32				
Client Sample I.D.:	GIW 7	GIW 8	GIW 9	GEW 109				
Date/Time Sampled:	3/11/20 11:10	3/11/20 11:17	3/11/20 11:26	3/11/20 11:35				
Date/Time Analyzed:	3/18/20 1:39	3/18/20 8:28	3/18/20 8:46	3/18/20 9:01				
QC Batch No.:	200317GC8A3	200317GC8A3	200317GC8A3	200317GC8A3				
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	ND d	0.030	ND d	0.031	12	3.0	0.57 d	0.030
Carbon Dioxide	39	0.030	46	0.031	43	0.030	43	0.030
Oxygen/Argon	2.0	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	9.6	3.0	7.4	3.1	19	3.0	11	3.0
Methane	49	0.0030	46	0.0031	24	0.0030	43	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0031	0.015	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200320GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-33	L031605-34	L031605-35	L031605-36				
Client Sample I.D.:	GEW 39	GIW 11	GEW 56R	GIW 12				
Date/Time Sampled:	3/11/20 13:37	3/11/20 13:47	3/11/20 14:01	3/11/20 14:17				
Date/Time Analyzed:	3/18/20 9:15	3/18/20 9:30	3/18/20 9:44	3/18/20 9:59				
QC Batch No.:	200317GC8A3	200317GC8A3	200317GC8A3	200317GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.1	3.1	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	ND d	0.031	2.8 d	0.031	3.8 d	0.032	3.8 d	0.032
Carbon Dioxide	33	0.031	35	0.031	44	0.032	37	0.032
Oxygen/Argon	1.8	1.5	1.6	1.5	ND	1.6	1.8	1.6
Nitrogen	34	3.1	35	3.1	7.6	3.2	24	3.2
Methane	31	0.0031	26	0.0031	43	0.0032	32	0.0032
Carbon Monoxide	ND	0.0031	0.021	0.0031	0.0072	0.0032	0.015	0.0032

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200320GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-37	L031605-38	L031605-39	L031605-40				
Client Sample I.D.:	GIW 13	GEW 91	GEW 161	GIW 5				
Date/Time Sampled:	3/11/20 14:26	3/11/20 9:34	3/11/20 9:59	3/11/20 10:35				
Date/Time Analyzed:	3/18/20 10:14	3/18/20 10:28	3/18/20 10:43	3/18/20 15:40				
QC Batch No.:	200317GC8A3	200317GC8A3	200317GC8A3	200318GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.0	3.0	4.0				
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	7.1	3.2	35	3.0	31	3.0	11	4.0
Carbon Dioxide	48	0.032	57	0.030	51	0.030	38	0.040
Oxygen/Argon	ND	1.6	ND	1.5	ND	1.5	4.7	2.0
Nitrogen	9.1	3.2	ND	3.0	14	3.0	26	4.0
Methane	35	0.0032	2.3	0.0030	2.5	0.0030	20	0.0040
Carbon Monoxide	0.0100	0.0032	0.038	0.0030	0.11	0.0030	0.019	0.0040

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200320GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-41	L031605-42	L031605-43	L031605-44				
Client Sample I.D.:	GEW 160	GIW 4	GIW 3	GIW 10				
Date/Time Sampled:	3/11/20 10:52	3/11/20 11:03	3/11/20 11:12	3/11/20 11:22				
Date/Time Analyzed:	3/18/20 12:45	3/18/20 13:00	3/18/20 13:15	3/18/20 13:29				
QC Batch No.:	200318GC8A1	200318GC8A1	200318GC8A1	200318GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.1	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	14	3.0	22	3.0	9.9	3.1	7.5	3.0
Carbon Dioxide	35	0.030	49	0.030	41	0.031	34	0.030
Oxygen/Argon	4.6	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	30	3.0	9.7	3.0	36	3.1	32	3.0
Methane	17	0.0030	17	0.0030	12	0.0031	25	0.0030
Carbon Monoxide	0.038	0.0030	0.076	0.0030	0.047	0.0031	0.014	0.0030

Results normalized including non-methane hydrocarbons

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L031605-45	L031605-46	L031605-47	L031605-48				
Client Sample I.D.:	GEW 162	GIW 2	GIW 1	GEW 10				
Date/Time Sampled:	3/11/20 13:42	3/11/20 13:53	3/11/20 14:05	3/11/20 14:18				
Date/Time Analyzed:	3/18/20 13:44	3/18/20 14:14	3/18/20 14:29	3/18/20 14:43				
QC Batch No.:	200318GC8A1	200318GC8A1	200318GC8A1	200318GC8A1				
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	1.5 d	0.032	11	3.2	10	3.2	0.096 d	0.032
Carbon Dioxide	14	0.032	50	0.032	61	0.032	43	0.032
Oxygen/Argon	2.8	1.6	2.5	1.6	ND	1.6	ND	1.6
Nitrogen	81	3.2	28	3.2	ND	3.2	ND	3.2
Methane	1.1	0.0032	8.3	0.0032	25	0.0032	53	0.0032
Carbon Monoxide	0.11	0.0032	0.050	0.0032	0.037	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 number 200323GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

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: 03/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L031605-49						
Client Sample I.D.:	GEW 110						
Date/Time Sampled:	3/11/20 14:28						
Date/Time Analyzed:	3/18/20 14:58						
QC Batch No.:	200318GC8A1						
Analyst Initials:	CM						
Dilution Factor:	3.1						
ANALYTE	Result % v/v	RL % v/v					
Hydrogen	6.8	3.1					
Carbon Dioxide	44	0.031					
Oxygen/Argon	1.7	1.5					
Nitrogen	13	3.1					
Methane	34	0.0031					
Carbon Monoxide	0.012	0.0031					

Results normalized including non-methane hydrocarbons

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200317GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/17/20 14:18			3/17/20 19:35		3/17/20 19:50					
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	4.67	93	4.62	92	0.9	70	130	30
Carbon Dioxide	ND	0.010	10	10.2	101	10.1	101	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.1	102	15.1	102	0.0	70	130	30
Nitrogen	ND	1.0	70	68.7	98	68.7	98	0.0	70	130	30
Methane	ND	0.0010	0.10	0.104	104	0.104	104	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0975	97	0.0972	97	0.3	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20


The cover letter is an integral part of this analytical report

QC Batch No: 200317GC8A3
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/17/20 22:44			3/17/20 23:13		3/17/20 23:28					
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	4.58	92	4.56	91	0.4	70	130	30
Carbon Dioxide	ND	0.010	10	10.0	100	10.0	100	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.0	101	15.0	102	0.1	70	130	30
Nitrogen	ND	1.0	70	68.4	98	68.4	98	0.1	70	130	30
Methane	ND	0.0010	0.10	0.104	104	0.103	103	0.3	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.101	101	0.101	101	0.2	70	130	30

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 3-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200318GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/18/20 12:01			3/18/20 12:16		3/18/20 12:31					
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	4.75	95	4.65	93	2.0	70	130	30
Carbon Dioxide	ND	0.010	10	10.2	101	10.1	101	0.6	70	130	30
Oxygen/Argon	ND	0.50	15	15.0	101	15.0	101	0.4	70	130	30
Nitrogen	ND	1.0	70	68.1	97	67.8	97	0.4	70	130	30
Methane	ND	0.0010	0.10	0.105	105	0.104	104	0.8	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.103	103	0.103	103	0.6	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

The cover letter is an integral part of this analytical report


QC Batch No: 200320GC8A1
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/20/20 9:20			3/20/20 9:25		3/20/20 9:30					
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	0.830	83	0.835	83	0.5	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200320GC8A2
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/20/20 11:51			3/20/20 11:55		3/20/20 12:00					
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	0.831	83	0.832	83	0.0	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 3-23-20


The cover letter is an integral part of this analytical report

QC Batch No: 200323GC8A2
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/23/20 11:08			3/23/20 11:13		3/23/20 11:17					
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	0.784	78	0.787	79	0.4	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 3-23-20

The cover letter is an integral part of this analytical report



March 27, 2020

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: L032504-01/04

Enclosed are results for sample(s) received 3/25/20 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, Feezor Engineering on 3/26/20.

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 1
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 checked="" 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: MIambrich@republicservices.com

BILLING	ANALYSIS REQUEST				
P.O. No.: PO7112802	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	ANALYSIS REQUEST							
	Cannister ID	Sample Start	Sample End															
L032504-01	5928	-21	-5	GEW 42R	3/24/2020	9:10	C	LFG	NA	X								3
02	5270	-18.5	-5	GEW 51	3/24/2020	9:24	C	LFG	NA	X								3
03	A7819	-21.1	-5	GEW 2	3/24/2020	9:39	C	LFG	NA	X								3
04	A7775	-20.9	-5	GEW 4	3/24/2020	9:52	C	LFG	NA	X								3

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services
SAMPLED BY: Anthony Kimutis	COMPANY: Republic Services
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: 3/24/2020
RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 3/24/2020
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: 3/25/20
RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 3/25/20 1530
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: _____
RELINQUISHED BY: <i>[Signature]</i>	DATE/TIME: _____

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

COMMENTS

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 03/25/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L032504-01	L032504-02	L032504-03	L032504-04				
Client Sample I.D.:	GEW 42R	GEW 51	GEW 2	GEW 4				
Date/Time Sampled:	3/24/20 9:10	3/24/20 9:24	3/24/20 9:39	3/24/20 9:52				
Date/Time Analyzed:	3/26/20 9:14	3/26/20 9:29	3/26/20 9:43	3/26/20 9:58				
QC Batch No.:	200326GC8A1	200326GC8A1	200326GC8A1	200326GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	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	ND d	0.028	0.74 d	0.028	ND d	0.028	ND d	0.028
Carbon Dioxide	40	0.028	36	0.028	44	0.028	42	0.028
Oxygen/Argon	ND	1.4	4.2	1.4	ND	1.4	ND	1.4
Nitrogen	7.4	2.8	17	2.8	3.5	2.8	7.3	2.8
Methane	52	0.0028	43	0.0028	52	0.0028	50	0.0028
Carbon Monoxide	ND	0.0028	ND	0.0028	ND	0.0028	ND	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Analyzed by secondary analysis, batch number 200326GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 3/26/20

The cover letter is an integral part of this analytical report



QC Batch No: 200326GC8A1
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/26/20 8:31			3/26/20 8:45		3/26/20 9:00					
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	5.12	102	5.13	103	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	10.6	106	10.7	107	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	15.1	102	15.2	103	0.3	70	130	30
Nitrogen	ND	1.0	70	68.6	98	68.8	98	0.3	70	130	30
Methane	ND	0.0010	0.10	0.106	106	0.105	105	0.9	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.103	103	0.102	102	0.6	70	130	30

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

Reviewed/Approved By: _____

Mark Johnson
Mark Johnson
Operations Manager

Date _____

3/26/20

The cover letter is an integral part of this analytical report



QC Batch No: 200326GC8A2
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	3/26/20 12:05			3/26/20 11:53		3/26/20 12:36					
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	0.770	77	0.782	78	1.5	70	130	30

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

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

Date 3/26/20

The cover letter is an integral part of this analytical report



ATTACHMENT D

GAS WELLFIELD DATA

ATTACHMENT D-1

WELLFIELD DATA TABLE

March 2020 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	3/2/2020 2:31:22 PM	55.9	41.1	0.0	3.0	111.3	111.3	20.20	22.58	-0.13	-0.10	-13.91
GEW-002	3/10/2020 11:39:18 AM	56.0	40.6	0.0	3.4	108.3	108.2	6.06	3.83	-0.28	-0.26	-14.69
GEW-002	3/10/2020 11:46:08 AM	55.5	40.7	0.0	3.8	108.7	108.7	19.53	21.15	-0.33	-0.34	-14.01
GEW-002	3/16/2020 2:01:27 PM	55.0	41.6	0.0	3.4	108.7	109.0	19.87	20.60	-0.18	-0.19	-13.02
GEW-002	3/23/2020 11:16:11 AM	54.6	41.2	0.0	4.2	110.5	110.2	27.21	26.94	-1.15	-1.13	-13.69
GEW-002	3/24/2020 9:36:13 AM	56.0	41.7	0.0	2.3	105.2	105.5	20.67	18.01	-0.89	-0.91	-13.61
GEW-002	3/24/2020 9:42:16 AM	56.2	42.1	0.0	1.7	105.3	105.2	50.34	50.56	-1.23	-1.22	-13.14
GEW-003	3/3/2020 8:58:14 AM	53.8	40.2	0.0	6.0	108.7	108.7	6.05	5.41	-0.81	-0.81	-13.40
GEW-003	3/10/2020 11:50:21 AM	53.9	40.8	0.0	5.3	102.0	102.1	18.45	13.33	-0.83	-0.87	-13.83
GEW-003	3/10/2020 11:57:45 AM	54.6	39.8	0.0	5.6	102.3	102.3	37.10	37.00	-0.85	-0.82	-13.77
GEW-003	3/17/2020 9:53:03 AM	55.2	40.7	0.0	4.1	107.5	107.5	7.20	6.68	-0.87	-0.86	-13.27
GEW-003	3/23/2020 11:21:57 AM	54.4	41.8	0.0	3.8	105.9	105.8	3.83	5.42	-0.69	-0.71	-13.27
GEW-004	3/2/2020 2:35:26 PM	54.1	40.0	0.0	5.9	108.2	108.2	7.66	8.56	0.12	0.11	-13.14
GEW-004	3/2/2020 2:37:13 PM	54.1	39.9	0.0	6.0	108.7	108.5	8.56	8.56	0.04	0.04	-12.76
GEW-004	3/3/2020 9:01:04 AM	53.0	40.8	0.0	6.2	106.7	106.7	10.84	11.81	-0.77	-0.77	-13.40
GEW-004	3/10/2020 1:40:12 PM	53.9	38.6	0.0	7.5	105.1	105.2	10.52	13.02	-0.41	-0.41	-13.77
GEW-004	3/10/2020 1:47:05 PM	53.3	38.8	0.0	7.9	105.2	105.1	11.53	8.59	-0.30	-0.30	-13.40
GEW-004	3/17/2020 9:56:57 AM	53.2	40.8	0.0	6.0	107.3	107.5	8.29	8.29	-0.87	-0.87	-13.14
GEW-004	3/23/2020 11:25:51 AM	53.0	41.0	0.0	6.0	107.2	107.2	8.55	9.75	-0.67	-0.68	-12.97
GEW-004	3/24/2020 9:49:32 AM	53.3	41.2	0.0	5.5	106.6	106.5	15.26	15.86	-0.35	-0.36	-13.56
GEW-004	3/24/2020 9:56:06 AM	53.8	40.4	0.0	5.8	107.2	107.0	9.47	8.23	-0.35	-0.36	-13.44
GEW-005	3/3/2020 9:13:06 AM	50.5	36.6	0.0	12.9	77.7	77.5	10.78	2.78	-0.41	-0.43	-13.53
GEW-005	3/3/2020 9:14:52 AM	50.5	37.5	0.0	12.0	76.9	76.8	21.58	4.83	-0.41	-0.37	-13.71
GEW-005	3/10/2020 2:04:56 PM	50.1	36.7	0.0	13.2	73.1	73.2	27.85	27.99	-0.06	-0.06	-13.46
GEW-005	3/10/2020 2:11:29 PM	50.6	35.8	0.0	13.6	72.5	72.5	6.26	8.40	-0.07	-0.07	-13.59
GEW-005	3/17/2020 10:06:30 AM	48.8	38.0	0.0	13.2	74.8	74.8	20.87	20.87	-0.53	-0.53	-13.31
GEW-005	3/17/2020 10:08:11 AM	49.0	37.6	0.0	13.4	74.1	74.1	21.97	21.97	-0.52	-0.52	-13.23
GEW-005	3/23/2020 11:35:45 AM	52.3	38.8	0.0	8.9	68.3	68.7	18.24	16.19	-0.26	-0.26	-13.31
GEW-006	3/3/2020 9:21:29 AM	54.4	37.6	0.0	8.0	78.5	78.6	15.48	15.48	-0.61	-0.61	-13.77
GEW-006	3/10/2020 2:32:06 PM	54.7	38.0	0.0	7.3	78.0	78.0	26.99	26.94	-0.26	-0.24	-13.46
GEW-006	3/10/2020 2:38:14 PM	55.2	36.9	0.0	7.9	78.0	77.8	25.22	24.75	-0.26	-0.26	-13.65
GEW-006	3/17/2020 10:15:16 AM	54.3	39.2	0.0	6.5	78.5	78.5	24.84	24.05	-0.71	-0.70	-13.48
GEW-006	3/23/2020 11:41:21 AM	55.3	39.4	0.0	5.3	77.3	77.5	27.10	26.23	-0.48	-0.46	-13.61
GEW-007	3/2/2020 11:17:27 AM	55.9	40.1	0.0	4.0	89.8	89.8	13.27	11.50	-6.42	-6.21	-13.23
GEW-007	3/9/2020 10:24:23 AM	55.6	39.5	0.0	4.9	88.9	88.9	11.54	9.80	-5.86	-5.86	-13.46
GEW-007	3/9/2020 10:30:21 AM	55.7	39.6	0.0	4.7	88.7	88.7	16.30	13.85	-6.28	-6.28	-13.46
GEW-007	3/16/2020 9:47:58 AM	56.5	40.8	0.0	2.7	86.7	86.8	7.69	7.69	-5.88	-5.88	-13.40
GEW-007	3/23/2020 8:29:50 AM	56.5	40.1	0.0	3.4	86.6	86.6	7.19	6.08	-6.17	-6.17	-13.56
GEW-008	3/2/2020 11:21:31 AM	53.3	41.2	0.0	5.5	111.2	111.5	15.24	10.43	-0.99	-0.98	-13.44
GEW-008	3/9/2020 10:34:09 AM	53.0	40.9	0.0	6.1	110.8	110.5	36.53	35.41	-0.74	-0.78	-13.71

March 2020 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-008	3/9/2020 10:42:01 AM	52.5	41.9	0.0	5.6	111.0	111.0	27.14	26.04	-0.71	-0.72	-13.71
GEW-008	3/16/2020 9:51:46 AM	54.1	42.3	0.0	3.6	109.0	109.2	18.70	19.83	-0.91	-0.92	-13.77
GEW-008	3/23/2020 8:33:15 AM	53.7	42.9	0.0	3.4	109.5	109.7	7.63	11.75	-1.09	-1.10	-13.90
GEW-009	3/2/2020 11:24:53 AM	49.6	40.4	0.0	10.0	121.0	121.3	10.70	8.90	-0.16	-0.15	-13.53
GEW-009	3/2/2020 11:26:36 AM	49.6	40.3	0.0	10.1	120.3	120.8	13.92	13.12	-0.10	-0.11	-12.93
GEW-009	3/9/2020 10:46:27 AM	50.8	40.3	0.0	8.9	119.9	119.9	13.95	8.14	-0.02	-0.03	-13.28
GEW-009	3/9/2020 10:53:40 AM	51.3	40.5	0.0	8.2	119.7	120.2	19.36	24.74	-0.05	-0.05	-13.59
GEW-009	3/16/2020 9:55:13 AM	48.6	41.7	0.0	9.7	116.6	115.7	19.18	10.06	-0.10	-0.11	-13.56
GEW-009	3/16/2020 9:56:52 AM	48.2	41.6	0.0	10.2	116.3	116.6	3.80	4.12	-0.12	-0.12	-13.61
GEW-009	3/23/2020 8:36:41 AM	49.0	41.0	0.0	10.0	116.0	116.3	26.74	26.87	-0.19	-0.19	-13.61
GEW-009	3/23/2020 8:38:28 AM	48.6	40.9	0.0	10.5	116.8	116.8	9.07	5.20	-0.18	-0.18	-13.56
GEW-010	3/2/2020 10:32:18 AM	55.3	44.1	0.0	0.6	83.5	83.5	1.15	1.15	-6.00	-6.00	-19.52
GEW-010	3/11/2020 2:15:23 PM	55.2	43.5	0.0	1.3	94.4	94.8	1.95	3.18	-4.98	-4.98	-17.67
GEW-010	3/11/2020 2:21:01 PM	55.8	41.7	0.0	2.5	95.6	95.6	1.59	1.37	-4.98	-4.98	-17.46
GEW-010	3/17/2020 11:04:20 AM	56.8	42.9	0.0	0.3	76.8	77.1	3.27	3.67	-5.50	-5.50	-18.96
GEW-010	3/23/2020 1:48:39 PM	57.3	40.8	0.0	1.9	76.4	76.6	5.37	0.52	-5.41	-5.45	-19.38
GEW-010	3/31/2020 9:28:52 AM	56.3	41.5	0.0	2.2	80.8	81.3	1.99	1.99	-5.74	-5.74	-20.51
GEW-013A	3/12/2020 9:19:24 AM	10.3	61.9	0.0	27.8	191.6	191.6	41.20	41.13	-6.63	-6.63	-19.66
GEW-013A	3/12/2020 9:21:37 AM	10.6	61.1	0.0	28.3	191.6	191.6	40.79	40.65	-6.63	-6.63	-19.45
GEW-013A	3/23/2020 9:17:45 AM	13.7	55.8	0.3	30.2	188.7	188.4	34.52	34.52	-11.52	-11.52	-19.79
GEW-013A	3/23/2020 9:19:03 AM	13.9	54.3	0.2	31.6	188.7	188.8	33.80	34.27	-11.52	-11.52	-19.87
GEW-015	3/12/2020 10:44:20 AM	20.5	48.6	0.1	30.8	94.1	94.0	4.11	3.96	-2.85	-2.87	-19.58
GEW-015	3/24/2020 8:48:06 AM	22.7	45.3	0.3	31.7	88.4	88.5	2.55	1.98	-3.31	-3.31	-19.83
GEW-016R	3/12/2020 11:07:02 AM	9.6	54.4	0.0	36.0	162.4	162.4	9.55	9.71	-3.03	-3.02	-19.37
GEW-016R	3/12/2020 11:07:58 AM	9.7	54.5	0.0	35.8	162.0	162.1	9.51	9.61	-3.04	-3.04	-19.53
GEW-016R	3/23/2020 10:17:07 AM	9.5	52.5	0.0	38.0	162.9	162.4	9.85	9.85	-3.17	-3.17	-19.66
GEW-016R	3/23/2020 10:18:04 AM	9.4	52.6	0.0	38.0	162.4	162.8	9.76	9.54	-3.20	-3.20	-19.66
GEW-018B	3/13/2020 9:36:03 AM	8.0	40.0	3.3	48.7	166.2	166.1	12.90	13.05	-12.14	-12.14	-19.89
GEW-018B	3/13/2020 9:37:28 AM	7.9	38.2	3.7	50.2	164.7	164.3	10.38	10.38	-10.62	-10.62	-20.26
GEW-018B	3/23/2020 1:07:00 PM	4.9	44.6	2.1	48.4	193.6	193.6	13.55	13.65	-3.04	-3.03	-19.58
GEW-018B	3/23/2020 1:08:31 PM	5.1	43.7	2.1	49.1	193.6	193.6	12.88	13.44	-3.05	-3.05	-19.37
GEW-019A	3/12/2020 9:53:15 AM	0.7	55.1	2.7	41.5	54.9	55.0	3.55	6.64	-18.97	-18.97	-19.46
GEW-019A	3/24/2020 8:59:04 AM	2.0	53.0	4.1	40.9	45.5	45.5	2.38	3.37	-18.24	-18.24	-19.62
GEW-039	3/2/2020 9:57:39 AM	26.2	32.5	2.5	38.8	106.2	106.2	14.09	14.60	-0.13	-0.14	-20.84
GEW-039	3/11/2020 1:33:55 PM	32.0	31.6	0.4	36.0	107.2	107.2	17.16	17.16	-0.17	-0.17	-19.22
GEW-039	3/11/2020 1:39:40 PM	31.8	31.6	0.3	36.3	107.5	107.5	12.43	12.13	-0.14	-0.14	-19.77
GEW-039	3/17/2020 2:06:19 PM	28.9	33.0	1.7	36.4	105.2	105.2	10.51	9.78	-0.12	-0.13	-19.25
GEW-039	3/23/2020 3:11:10 PM	29.7	33.5	1.1	35.7	105.3	105.3	2.43	6.53	-0.13	-0.14	-19.67
GEW-039	3/31/2020 2:03:59 PM	29.7	33.1	0.4	36.8	107.5	107.5	11.82	11.51	-0.14	-0.14	-19.66
GEW-040	3/2/2020 1:47:16 PM	54.9	34.9	0.0	10.2	65.8	65.8	6.89	7.44	-0.33	-0.33	-13.14

March 2020 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-040	3/9/2020 2:20:10 PM	52.2	33.9	0.0	13.9	58.7	58.7	11.69	4.01	-0.30	-0.27	-13.28
GEW-040	3/9/2020 2:27:04 PM	53.0	32.3	0.0	14.7	58.5	58.5	14.19	11.70	-0.12	-0.11	-13.22
GEW-040	3/16/2020 11:00:18 AM	60.5	37.0	0.0	2.5	43.4	43.4	7.44	7.44	-0.01	-0.01	-13.02
GEW-040	3/16/2020 11:02:03 AM	61.0	35.8	0.0	3.2	43.1	43.1	1.11	1.29	-0.24	-0.25	-13.10
GEW-040	3/23/2020 9:48:03 AM	52.5	36.6	0.0	10.9	44.0	43.9	3.27	3.01	-0.30	-0.30	-13.14
GEW-040	3/23/2020 9:49:42 AM	53.3	35.0	0.0	11.7	43.9	44.0	3.63	3.52	-0.29	-0.29	-13.18
GEW-041R	3/2/2020 1:51:46 PM	54.3	35.1	0.0	10.6	72.8	73.0	6.96	6.82	-0.01	-0.01	-13.06
GEW-041R	3/9/2020 2:32:12 PM	50.5	34.2	0.0	15.3	70.4	70.4	8.42	7.94	0.10	0.07	-13.28
GEW-041R	3/9/2020 2:40:42 PM	50.0	34.8	0.0	15.2	72.0	72.0	14.83	14.83	0.02	0.02	-13.22
GEW-041R	3/10/2020 8:10:24 AM	51.6	36.1	0.0	12.3	68.0	68.0	20.65	18.43	-0.32	-0.29	-13.46
GEW-041R	3/10/2020 8:12:08 AM	51.9	35.7	0.0	12.4	67.3	66.7	5.63	8.44	-0.28	-0.26	-13.59
GEW-041R	3/16/2020 11:06:35 AM	50.3	34.8	0.0	14.9	64.6	64.7	8.54	15.81	-0.08	-0.08	-13.31
GEW-041R	3/16/2020 11:08:09 AM	49.8	35.4	0.0	14.8	64.4	64.4	2.82	3.56	-0.02	-0.02	-13.14
GEW-041R	3/23/2020 9:52:53 AM	52.4	35.1	0.0	12.5	62.5	62.7	10.41	10.33	-0.18	-0.18	-13.14
GEW-041R	3/23/2020 9:54:25 AM	52.0	35.9	0.0	12.1	62.7	62.7	18.28	20.15	-0.16	-0.16	-13.14
GEW-042R	3/2/2020 1:54:25 PM	56.6	37.5	0.0	5.9	101.8	101.8	12.39	9.75	-2.94	-2.94	-13.02
GEW-042R	3/10/2020 9:37:04 AM	56.6	36.9	0.0	6.5	97.9	97.9	7.18	9.00	-3.30	-3.30	-13.59
GEW-042R	3/10/2020 9:45:09 AM	56.9	37.1	0.0	6.0	97.9	98.2	12.14	10.16	-3.30	-3.31	-13.59
GEW-042R	3/16/2020 11:11:04 AM	54.7	38.3	0.0	7.0	98.4	98.4	33.33	34.21	-2.66	-2.64	-12.30
GEW-042R	3/23/2020 9:59:19 AM	55.9	38.7	0.0	5.4	98.0	98.1	7.67	8.14	-2.78	-2.78	-10.03
GEW-042R	3/24/2020 9:06:57 AM	57.1	38.6	0.0	4.3	97.7	97.7	17.65	17.65	-2.58	-2.58	-10.11
GEW-042R	3/24/2020 9:13:02 AM	56.3	38.9	0.0	4.8	97.7	97.7	38.42	38.13	-2.60	-2.58	-10.57
GEW-043R	3/2/2020 1:57:25 PM	54.8	39.1	0.0	6.1	115.2	115.0	27.12	27.12	-0.76	-0.76	-13.40
GEW-043R	3/10/2020 9:51:30 AM	53.6	39.3	0.0	7.1	113.0	113.5	24.20	23.60	-1.68	-1.67	-13.71
GEW-043R	3/10/2020 9:58:52 AM	53.7	39.1	0.0	7.2	113.0	113.0	16.13	14.48	-1.66	-1.63	-13.77
GEW-043R	3/16/2020 11:14:10 AM	53.9	39.8	0.0	6.3	113.2	113.5	8.92	9.32	-0.83	-0.83	-13.48
GEW-043R	3/23/2020 10:03:14 AM	53.1	40.8	0.0	6.1	113.7	113.8	21.14	21.64	-1.40	-1.40	-13.10
GEW-044	3/2/2020 2:02:21 PM	43.5	34.0	0.0	22.5	68.3	68.4	6.88	6.88	-0.10	-0.10	-13.06
GEW-044	3/11/2020 8:39:12 AM	49.0	35.5	0.0	15.5	46.1	46.0	15.46	13.16	-0.17	-0.16	-13.40
GEW-044	3/11/2020 8:46:50 AM	48.9	35.5	0.0	15.6	49.0	49.1	10.71	8.59	-0.20	-0.19	-13.40
GEW-044	3/16/2020 11:20:22 AM	51.3	38.3	0.0	10.4	53.4	53.4	2.85	2.85	-0.09	-0.09	-12.89
GEW-044	3/23/2020 10:08:03 AM	45.0	35.4	0.0	19.6	51.3	51.6	4.03	4.03	-0.50	-0.50	-13.14
GEW-044	3/23/2020 10:10:41 AM	43.5	35.3	0.0	21.2	51.6	51.5	8.55	8.55	-0.26	-0.26	-13.18
GEW-045R	3/2/2020 2:16:25 PM	55.2	39.6	0.0	5.2	90.1	90.1	8.18	7.71	-3.64	-3.64	-13.14
GEW-045R	3/10/2020 10:25:34 AM	55.8	39.0	0.0	5.2	83.3	83.5	13.46	12.59	-3.73	-3.72	-13.65
GEW-045R	3/10/2020 10:32:20 AM	55.8	38.1	0.0	6.1	82.4	82.1	12.60	11.00	-3.76	-3.76	-13.59
GEW-045R	3/16/2020 1:52:44 PM	55.0	39.3	0.0	5.7	86.1	85.6	10.93	8.66	-3.47	-3.46	-13.14
GEW-045R	3/23/2020 11:01:30 AM	54.4	40.4	0.0	5.2	85.5	85.4	6.11	7.73	-4.37	-4.37	-13.23
GEW-046R	3/2/2020 2:20:03 PM	54.2	39.0	0.0	6.8	85.9	86.0	7.31	7.31	0.07	0.07	-13.14
GEW-046R	3/2/2020 2:23:55 PM	54.0	38.9	0.0	7.1	87.0	87.2	5.82	5.92	0.05	0.05	-13.10

March 2020 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-046R	3/3/2020 8:55:17 AM	53.7	38.3	0.0	8.0	81.7	81.7	9.20	9.20	-0.40	-0.40	-13.28
GEW-046R	3/10/2020 10:35:50 AM	53.2	38.0	0.0	8.8	77.5	77.3	11.82	10.42	-0.35	-0.34	-13.59
GEW-046R	3/10/2020 10:42:34 AM	53.2	37.5	0.0	9.3	77.3	77.5	9.65	9.65	-0.28	-0.27	-13.77
GEW-046R	3/16/2020 1:56:43 PM	53.2	39.3	0.0	7.5	81.2	81.5	7.24	7.26	0.18	0.17	-13.06
GEW-046R	3/16/2020 1:58:20 PM	52.9	39.4	0.0	7.7	82.4	82.4	6.20	6.20	0.15	0.15	-12.97
GEW-046R	3/17/2020 8:56:58 AM	52.8	39.3	0.0	7.9	84.7	84.9	10.73	10.37	-0.46	-0.45	-13.10
GEW-046R	3/23/2020 11:06:30 AM	51.6	39.5	0.0	8.9	82.1	82.1	3.92	4.87	-0.39	-0.39	-13.23
GEW-047R	3/3/2020 9:03:47 AM	48.9	38.4	0.0	12.7	99.1	99.0	20.61	20.79	-0.54	-0.49	-13.28
GEW-047R	3/3/2020 9:05:22 AM	48.8	38.5	0.0	12.7	97.7	97.5	29.44	29.32	-0.50	-0.50	-13.34
GEW-047R	3/10/2020 1:50:34 PM	49.0	38.2	0.0	12.8	91.7	91.7	11.99	8.70	-0.06	-0.06	-13.53
GEW-047R	3/10/2020 1:57:18 PM	49.4	37.6	0.0	13.0	91.9	91.9	7.28	6.15	-0.04	-0.05	-13.34
GEW-047R	3/17/2020 10:00:46 AM	48.3	38.7	0.0	13.0	92.2	92.2	28.90	28.77	-0.55	-0.55	-13.23
GEW-047R	3/17/2020 10:02:15 AM	48.1	38.9	0.0	13.0	92.2	92.2	22.29	23.12	-0.53	-0.53	-13.10
GEW-047R	3/23/2020 11:28:56 AM	48.8	39.5	0.0	11.7	88.4	88.4	13.20	13.49	-0.33	-0.33	-13.23
GEW-047R	3/23/2020 11:30:15 AM	48.6	39.5	0.0	11.9	88.3	88.0	20.97	20.79	-0.34	-0.33	-13.27
GEW-048	3/3/2020 9:17:45 AM	54.6	39.0	0.0	6.4	94.3	94.1	16.89	14.24	-0.74	-0.78	-13.89
GEW-048	3/10/2020 2:14:49 PM	54.2	38.4	0.0	7.4	92.9	92.9	18.21	15.77	-0.45	-0.43	-13.59
GEW-048	3/10/2020 2:26:41 PM	54.6	38.1	0.0	7.3	92.7	92.9	15.05	15.78	-0.33	-0.33	-13.65
GEW-048	3/17/2020 10:11:21 AM	54.4	39.9	0.0	5.7	93.9	93.9	14.24	15.01	-0.87	-0.88	-13.52
GEW-048	3/23/2020 11:38:19 AM	54.8	39.5	0.0	5.7	93.6	93.6	13.69	8.66	-0.62	-0.64	-14.41
GEW-049	3/2/2020 2:05:16 PM	53.5	38.5	0.0	8.0	73.2	73.2	6.85	6.85	0.26	0.26	-13.14
GEW-049	3/2/2020 2:06:36 PM	53.8	38.8	0.0	7.4	73.6	73.6	7.91	7.40	0.24	0.24	-13.14
GEW-049	3/3/2020 8:46:13 AM	51.3	37.8	0.0	10.9	64.4	64.4	9.36	7.46	-0.21	-0.19	-12.97
GEW-049	3/10/2020 10:11:12 AM	43.0	34.1	0.0	22.9	55.5	55.5	32.05	29.96	-0.41	-0.40	-13.59
GEW-049	3/10/2020 10:18:04 AM	43.8	33.5	0.0	22.7	55.9	55.7	35.51	34.00	-0.39	-0.32	-13.59
GEW-049	3/16/2020 1:47:55 PM	54.7	38.6	0.0	6.7	63.2	63.5	45.57	45.57	-0.02	-0.02	-12.89
GEW-049	3/16/2020 1:49:04 PM	54.0	39.5	0.0	6.5	63.5	63.5	44.94	45.21	-0.02	-0.02	-12.81
GEW-049	3/23/2020 10:15:09 AM	50.5	38.6	0.0	10.9	57.8	58.2	6.59	6.56	-0.19	-0.20	-13.14
GEW-050	3/2/2020 11:08:13 AM	53.2	38.3	0.0	8.5	98.5	98.7	18.71	18.71	-0.32	-0.32	-5.95
GEW-050	3/9/2020 9:54:58 AM	53.4	36.7	0.0	9.9	97.4	97.0	12.36	13.62	-0.06	-0.05	-7.10
GEW-050	3/9/2020 10:02:31 AM	53.5	36.5	0.0	10.0	97.0	97.0	32.92	33.72	-0.05	-0.07	-8.51
GEW-050	3/16/2020 9:22:02 AM	53.6	36.6	0.0	9.8	95.0	94.8	9.08	3.87	-0.34	-0.39	-6.44
GEW-050	3/23/2020 8:20:17 AM	52.4	36.4	0.0	11.2	94.1	94.6	12.07	12.04	-0.56	-0.56	-5.98
GEW-050	3/23/2020 8:21:59 AM	51.5	36.9	0.0	11.6	93.6	93.6	10.95	9.49	-0.56	-0.55	-9.14
GEW-051	3/2/2020 11:30:38 AM	53.4	40.5	0.0	6.1	118.9	118.8	12.27	15.61	-0.78	-0.74	-13.02
GEW-051	3/9/2020 10:59:10 AM	53.1	40.2	0.0	6.7	117.6	117.6	12.31	13.16	-0.43	-0.41	-13.40
GEW-051	3/9/2020 11:05:19 AM	53.3	40.0	0.0	6.7	117.6	117.6	17.41	18.03	-0.34	-0.32	-13.22
GEW-051	3/16/2020 10:38:20 AM	55.2	38.3	0.0	6.5	112.3	112.0	24.85	24.41	-0.21	-0.20	-13.14
GEW-051	3/23/2020 8:42:46 AM	53.9	41.3	0.0	4.8	112.7	112.7	2.69	2.69	-0.83	-0.81	-13.35
GEW-051	3/24/2020 9:21:10 AM	54.0	42.4	0.0	3.6	114.0	114.3	3.01	4.04	-0.29	-0.30	-13.27

March 2020 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-051	3/24/2020 9:27:58 AM	54.2	42.0	0.0	3.8	114.3	114.2	6.73	4.85	-0.29	-0.29	-12.97
GEW-052	3/2/2020 11:11:26 AM	47.1	37.3	0.0	15.6	103.3	103.3	34.06	34.71	-0.07	-0.06	-13.23
GEW-052	3/2/2020 11:12:53 AM	46.9	37.2	0.0	15.9	103.1	103.1	8.60	3.85	-0.06	-0.06	-13.27
GEW-052	3/9/2020 10:07:06 AM	51.1	37.9	0.0	11.0	101.3	101.1	29.50	30.13	-0.05	-0.06	-13.40
GEW-052	3/9/2020 10:19:18 AM	51.7	37.9	0.0	10.4	101.2	101.2	32.27	33.41	-0.09	-0.09	-13.34
GEW-052	3/16/2020 9:42:21 AM	47.8	35.8	0.0	16.4	99.4	99.1	12.79	14.69	-0.10	-0.09	-13.35
GEW-052	3/16/2020 9:44:45 AM	47.3	36.8	0.0	15.9	97.9	97.7	3.45	4.81	-0.09	-0.08	-13.65
GEW-052	3/23/2020 8:25:33 AM	45.3	35.7	0.0	19.0	97.7	97.8	15.45	14.71	-0.23	-0.23	-13.56
GEW-052	3/23/2020 8:26:52 AM	44.8	35.5	0.0	19.7	96.2	95.9	1.93	1.83	-0.19	-0.19	-13.52
GEW-053	3/2/2020 11:36:42 AM	50.2	41.0	0.0	8.8	141.2	142.4	9.84	9.84	-0.35	-0.35	-13.02
GEW-053	3/2/2020 11:37:47 AM	50.0	41.4	0.0	8.6	141.5	142.2	8.29	8.08	-0.31	-0.32	-13.06
GEW-053	3/9/2020 1:49:40 PM	50.5	41.3	0.0	8.2	139.9	139.9	9.14	10.22	0.15	0.12	-13.28
GEW-053	3/9/2020 1:56:47 PM	50.6	40.9	0.0	8.5	141.2	140.9	11.50	12.92	0.20	0.17	-13.77
GEW-053	3/10/2020 8:04:33 AM	51.1	40.9	0.0	8.0	139.9	139.9	35.02	34.82	-0.98	-1.01	-13.22
GEW-053	3/10/2020 8:06:06 AM	50.8	41.4	0.0	7.8	139.9	139.0	30.52	30.76	-1.01	-0.94	-13.59
GEW-053	3/16/2020 10:45:37 AM	51.2	41.0	0.0	7.8	140.9	140.6	7.44	7.44	-0.17	-0.17	-13.31
GEW-053	3/16/2020 10:46:48 AM	50.5	42.1	0.0	7.4	140.5	141.2	7.28	7.16	-0.16	-0.16	-13.48
GEW-053	3/23/2020 9:31:02 AM	50.9	42.0	0.0	7.1	137.1	137.1	26.36	26.36	-0.74	-0.74	-13.48
GEW-053	3/23/2020 9:32:25 AM	50.4	42.6	0.0	7.0	137.1	136.7	27.39	27.39	-0.71	-0.71	-13.65
GEW-054	3/2/2020 1:36:46 PM	53.6	41.2	0.0	5.2	146.3	146.3	53.37	45.86	-4.05	-3.86	-13.31
GEW-054	3/2/2020 1:37:53 PM	53.6	41.6	0.0	4.8	146.3	146.3	65.16	60.13	-4.19	-4.05	-13.48
GEW-054	3/9/2020 2:00:23 PM	52.9	42.0	0.0	5.1	145.9	145.9	52.98	60.65	-3.93	-3.95	-13.46
GEW-054	3/9/2020 2:06:20 PM	53.7	40.8	0.0	5.5	145.9	145.9	52.35	48.46	-3.81	-3.74	-13.53
GEW-054	3/16/2020 10:50:28 AM	53.1	42.8	0.0	4.1	146.1	145.9	51.78	53.75	-3.96	-4.05	-13.40
GEW-054	3/16/2020 10:51:38 AM	53.1	43.1	0.0	3.8	146.0	145.9	62.35	69.88	-4.31	-4.30	-13.61
GEW-054	3/23/2020 9:37:27 AM	53.4	43.0	0.0	3.6	146.3	146.3	44.90	45.05	-4.42	-4.37	-13.14
GEW-054	3/23/2020 9:38:37 AM	53.1	43.4	0.0	3.5	146.3	146.3	61.62	56.87	-4.72	-4.72	-14.15
GEW-055	3/2/2020 1:44:09 PM	52.0	40.6	0.0	7.4	127.3	127.2	8.21	7.39	-0.40	-0.41	-13.23
GEW-055	3/9/2020 2:10:03 PM	51.4	40.9	0.0	7.7	120.5	120.7	4.37	6.91	-0.29	-0.29	-13.34
GEW-055	3/9/2020 2:16:34 PM	52.0	39.8	0.0	8.2	120.5	120.5	5.57	7.08	-0.23	-0.20	-13.34
GEW-055	3/16/2020 10:56:55 AM	52.1	41.5	0.0	6.4	121.9	121.8	8.77	8.14	-0.50	-0.49	-12.97
GEW-055	3/23/2020 9:43:46 AM	51.7	42.4	0.0	5.9	123.7	123.6	9.06	6.77	-0.99	-0.97	-13.31
GEW-056R	3/2/2020 10:21:56 AM	47.4	44.2	0.0	8.4	90.3	90.8	3.64	3.05	-0.27	-0.26	-19.74
GEW-056R	3/11/2020 1:52:59 PM	46.9	43.2	0.0	9.9	100.1	100.6	5.78	4.94	-0.20	-0.20	-18.79
GEW-056R	3/11/2020 2:03:21 PM	47.4	42.4	0.0	10.2	102.1	102.3	4.79	3.91	-0.17	-0.16	-18.79
GEW-056R	3/17/2020 11:21:04 AM	47.3	46.3	0.0	6.4	81.7	81.7	3.72	3.53	-0.29	-0.29	-18.83
GEW-056R	3/23/2020 1:59:57 PM	47.5	44.0	0.0	8.5	75.9	76.1	1.98	1.98	-0.22	-0.22	-19.29
GEW-056R	3/31/2020 9:25:56 AM	48.2	40.5	0.0	11.3	81.9	82.1	5.58	4.93	-0.34	-0.34	-20.47
GEW-057B	3/5/2020 1:59:12 PM	4.8	52.1	0.0	43.1	86.8	86.8	4.15	1.92	-18.43	-18.18	-18.18
GEW-057B	3/25/2020 11:05:11 AM	7.2	59.3	0.0	33.5	82.6	83.0	4.02	2.73	-18.52	-18.52	-19.25

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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-058A	3/4/2020 2:54:36 PM	2.9	33.4	6.2	57.5	68.9	69.0	2.66	2.91	-4.12	-4.12	-19.40
GEW-058A	3/4/2020 2:57:49 PM	5.4	37.8	3.1	53.7	110.7	93.4	0.91	0.66	-10.31	-10.37	-19.65
GEW-058A	3/5/2020 11:08:05 AM	8.6	32.4	3.2	55.8	127.8	127.8	16.83	17.76	-9.15	-9.27	-19.09
GEW-058A	3/25/2020 9:58:10 AM	8.5	35.7	2.8	53.0	114.0	114.4	2.41	2.41	-9.39	-9.39	-19.67
GEW-059R	3/4/2020 2:38:19 PM	21.1	37.2	0.0	41.7	128.3	128.3	5.78	5.06	-8.97	-8.91	-18.73
GEW-059R	3/25/2020 9:31:31 AM	19.7	40.7	0.0	39.6	116.1	116.6	6.79	6.79	-9.73	-9.73	-19.63
GEW-067A	3/12/2020 9:27:07 AM	8.7	56.0	0.3	35.0	199.3	199.2	17.50	15.74	-3.39	-3.39	-18.73
GEW-067A	3/12/2020 9:28:51 AM	8.7	52.7	0.3	38.3	199.3	199.3	17.23	17.36	-3.49	-3.48	-18.10
GEW-067A	3/23/2020 9:35:09 AM	7.8	56.4	0.0	35.8	200.1	199.7	22.22	22.19	-1.65	-1.65	-19.62
GEW-067A	3/23/2020 9:36:46 AM	7.2	52.9	0.1	39.8	200.0	199.9	22.06	21.96	-1.66	-1.67	-20.04
GEW-068A	3/6/2020 10:01:04 AM	12.1	50.2	0.0	37.7	192.9	192.9	52.55	51.72	-8.66	-8.66	-20.07
GEW-068A	3/6/2020 10:02:20 AM	12.0	53.2	0.0	34.8	192.9	192.9	52.15	52.88	-8.66	-8.66	-20.32
GEW-068A	3/16/2020 2:22:21 PM	17.7	50.3	0.0	32.0	190.3	190.4	49.76	49.75	-8.10	-8.10	-18.27
GEW-068A	3/16/2020 2:23:24 PM	17.2	49.8	0.0	33.0	190.3	190.3	49.40	49.67	-8.10	-8.10	-17.93
GEW-078R	3/12/2020 9:02:17 AM	10.2	31.4	0.0	58.4	152.5	152.5	22.59	18.39	-10.80	-10.86	-19.71
GEW-078R	3/12/2020 9:03:17 AM	9.8	31.0	0.0	59.2	152.5	152.5	17.35	21.62	-11.10	-10.86	-19.89
GEW-078R	3/23/2020 10:54:39 AM	9.1	29.7	0.0	61.2	148.4	148.4	19.38	19.27	-10.51	-10.51	-19.49
GEW-078R	3/23/2020 10:55:47 AM	9.1	29.3	0.0	61.6	148.4	148.4	18.89	19.15	-10.76	-10.76	-19.45
GEW-082R	3/12/2020 9:20:57 AM	6.3	37.3	0.0	56.4	173.1	173.1	1.96	1.96	-4.58	-4.58	-20.01
GEW-082R	3/12/2020 9:22:06 AM	6.4	38.5	0.0	55.1	173.5	173.1	2.99	4.10	-4.60	-4.59	-19.71
GEW-082R	3/23/2020 10:49:00 AM	8.7	32.3	0.0	59.0	171.0	171.0	3.08	3.08	-4.89	-4.89	-19.75
GEW-082R	3/23/2020 10:50:26 AM	8.4	33.6	0.0	58.0	171.0	170.5	1.64	2.15	-4.89	-4.89	-19.79
GEW-086	3/11/2020 3:00:22 PM	12.6	35.8	2.9	48.7	182.7	182.7	17.53	21.26	-0.68	-0.82	-18.48
GEW-086	3/11/2020 3:01:38 PM	12.5	35.8	2.2	49.5	181.5	181.5	22.77	13.04	-0.32	-0.35	-18.48
GEW-086	3/20/2020 2:13:23 PM	2.9	38.2	2.1	56.8	169.0	169.0	15.07	19.95	-0.43	-0.55	-19.88
GEW-086	3/20/2020 2:14:34 PM	2.9	38.4	2.0	56.7	169.0	169.6	17.75	17.75	-0.55	-0.55	-19.84
GEW-087	3/12/2020 10:47:12 AM	12.7	32.4	5.4	49.5	152.6	152.5	7.26	6.33	-17.14	-17.14	-19.75
GEW-087	3/12/2020 10:49:23 AM	12.4	30.6	5.8	51.2	150.6	151.1	4.49	5.66	-14.06	-14.06	-19.32
GEW-087	3/23/2020 10:04:09 AM	10.2	36.8	4.2	48.8	171.0	171.0	8.40	8.57	-9.88	-9.88	-20.13
GEW-087	3/23/2020 10:05:39 AM	9.9	35.3	4.3	50.5	171.0	170.5	9.21	8.52	-9.88	-9.88	-19.87
GEW-088	3/11/2020 3:04:30 PM	1.3	50.7	0.0	48.0	194.3	194.3	5.90	6.13	-0.33	-0.34	-18.30
GEW-088	3/11/2020 3:05:28 PM	1.3	52.6	0.0	46.1	194.3	194.3	5.90	5.74	-0.31	-0.32	-18.12
GEW-088	3/20/2020 2:18:49 PM	1.8	42.1	1.5	54.6	170.5	171.0	3.99	2.23	-2.96	-2.95	-20.01
GEW-088	3/20/2020 2:19:57 PM	1.8	42.4	1.5	54.3	171.8	172.5	3.86	4.78	-2.94	-2.95	-20.13
GEW-090	3/11/2020 2:50:11 PM	17.3	43.0	0.0	39.7	167.1	167.1	2.59	5.95	-14.15	-14.09	-18.42
GEW-090	3/11/2020 2:51:19 PM	18.2	41.3	0.0	40.5	167.6	167.6	8.51	5.61	-14.22	-14.09	-18.60
GEW-090	3/20/2020 2:35:12 PM	17.9	43.7	0.0	38.4	161.6	161.5	6.20	6.20	-15.86	-15.86	-20.56
GEW-090	3/20/2020 2:36:40 PM	18.1	42.7	0.0	39.2	158.1	158.1	4.54	5.70	-13.53	-13.53	-20.51
GEW-091	3/2/2020 9:28:39 AM	3.3	52.6	0.2	43.9	187.6	181.1	24.40	30.66	-14.54	-14.54	-20.12
GEW-091	3/2/2020 9:29:57 AM	3.0	54.3	0.0	42.7	187.6	181.5	24.14	24.21	-14.54	-14.54	-19.52

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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-091	3/11/2020 9:25:03 AM	3.4	56.3	0.1	40.2	200.8	200.2	19.50	19.45	-10.60	-10.60	-19.41
GEW-091	3/11/2020 9:38:05 AM	3.3	52.2	0.3	44.2	200.2	200.2	23.05	22.94	-7.47	-7.47	-19.28
GEW-091	3/17/2020 11:48:32 AM	2.4	61.1	0.0	36.5	197.9	197.9	36.39	36.62	-6.22	-6.17	-19.04
GEW-091	3/17/2020 11:49:52 AM	2.1	65.4	0.0	32.5	198.2	198.1	35.56	36.35	-6.43	-6.43	-19.04
GEW-091	3/23/2020 2:40:02 PM	2.7	59.2	0.0	38.1	195.7	193.6	32.45	32.13	-10.36	-10.44	-19.08
GEW-091	3/23/2020 2:41:11 PM	2.4	61.7	0.0	35.9	195.7	196.1	25.92	29.24	-11.37	-11.16	-19.46
GEW-091	3/31/2020 2:28:04 PM	6.1	50.0	0.1	43.8	176.4	176.3	11.93	15.25	-16.88	-16.88	-18.18
GEW-091	3/31/2020 2:29:07 PM	5.6	50.9	0.1	43.4	176.9	177.0	10.08	13.18	-16.88	-16.88	-18.52
GEW-100	3/5/2020 3:00:01 PM	6.2	55.8	0.0	38.0	185.2	185.3	5.86	6.57	2.59	2.81	-18.67
GEW-100	3/5/2020 3:02:18 PM	9.1	60.2	0.0	30.7	190.5	190.5	3.62	5.38	-3.96	-4.07	-18.73
GEW-100	3/16/2020 2:09:37 PM	12.8	54.3	0.0	32.9	49.9	49.9	3.91	2.89	-18.91	-18.91	-18.60
GEW-101	3/6/2020 9:36:37 AM	41.5	54.5	0.0	4.0	55.2	55.2	1.23	3.26	-0.20	-0.19	-20.50
GEW-101	3/25/2020 1:58:58 PM	41.5	57.9	0.0	0.6	70.7	70.7	5.16	5.43	-0.55	-0.52	-18.16
GEW-102	3/11/2020 3:11:00 PM	18.6	52.4	0.0	29.0	72.3	72.3	3.42	3.93	-13.48	-13.24	-18.42
GEW-102	3/25/2020 11:37:28 AM	27.9	50.2	0.1	21.8	59.3	59.4	1.37	1.46	-18.18	-18.18	-18.87
GEW-104	3/4/2020 1:49:56 PM	12.4	50.0	0.0	37.6	189.6	189.0	12.68	15.97	-4.37	-4.47	-18.42
GEW-104	3/4/2020 1:51:00 PM	12.2	51.3	0.0	36.5	189.0	189.2	14.56	12.34	-4.83	-4.74	-18.67
GEW-104	3/16/2020 9:06:04 AM	13.2	51.2	0.0	35.6	187.6	187.6	4.62	3.85	-4.23	-4.24	-19.45
GEW-104	3/16/2020 9:07:18 AM	12.6	50.2	0.0	37.2	187.6	187.6	5.01	5.37	-4.23	-4.22	-19.24
GEW-105	3/5/2020 11:20:17 AM	38.3	47.0	0.0	14.7	125.6	125.6	10.12	12.23	-8.79	-8.85	-18.18
GEW-105	3/25/2020 10:11:25 AM	39.5	47.1	0.0	13.4	123.9	123.9	9.95	8.15	-9.18	-9.13	-18.16
GEW-106	3/5/2020 11:13:31 AM	13.6	50.2	0.2	36.0	164.9	165.2	17.50	15.13	-4.94	-4.80	-19.09
GEW-106	3/5/2020 11:14:42 AM	13.5	50.6	0.2	35.7	165.2	164.3	5.68	3.48	-4.43	-4.47	-19.09
GEW-106	3/16/2020 1:44:56 PM	15.7	47.1	0.5	36.7	162.8	162.3	1.74	3.18	-3.60	-3.59	-17.34
GEW-106	3/16/2020 1:46:10 PM	15.6	45.9	0.3	38.2	162.9	162.9	2.22	2.21	-3.75	-3.75	-16.91
GEW-107	3/4/2020 2:41:24 PM	23.2	51.0	0.0	25.8	120.7	120.7	7.76	7.76	-1.37	-1.37	-18.73
GEW-107	3/25/2020 9:34:56 AM	26.7	55.3	0.0	18.0	105.3	105.3	5.31	8.39	-1.41	-1.43	-19.63
GEW-108	3/2/2020 9:42:03 AM	40.0	45.8	0.0	14.2	125.8	126.1	1.52	2.40	-3.85	-3.85	-19.74
GEW-108	3/11/2020 9:41:13 AM	32.2	47.4	0.0	20.4	171.6	172.1	1.93	1.93	-0.64	-0.64	-19.58
GEW-108	3/11/2020 9:48:28 AM	33.3	45.6	0.0	21.1	174.7	174.2	5.38	3.24	-0.71	-0.70	-19.58
GEW-108	3/17/2020 1:45:57 PM	40.3	46.3	0.0	13.4	170.5	170.4	1.00	3.15	-3.65	-3.67	-18.24
GEW-108	3/17/2020 1:47:26 PM	39.8	47.5	0.0	12.7	170.0	170.2	1.99	1.99	-3.64	-3.64	-18.66
GEW-108	3/23/2020 2:52:37 PM	40.7	47.6	0.0	11.7	170.5	170.5	18.78	19.70	-5.07	-5.16	-19.08
GEW-108	3/23/2020 2:53:50 PM	40.5	47.9	0.0	11.6	170.4	170.5	3.75	5.78	-4.64	-4.67	-18.83
GEW-108	3/31/2020 2:17:44 PM	40.1	47.4	0.0	12.5	169.5	169.0	1.88	2.06	-4.90	-4.89	-18.39
GEW-108	3/31/2020 2:19:10 PM	40.0	48.0	0.0	12.0	169.0	169.0	1.33	1.63	-4.94	-4.93	-18.27
GEW-109	3/2/2020 9:54:45 AM	44.8	44.3	0.5	10.4	78.9	78.9	2.03	2.34	-1.75	-1.75	-20.03
GEW-109	3/11/2020 11:31:46 AM	44.8	43.0	0.5	11.7	90.1	90.2	3.81	1.15	-1.82	-1.80	-19.16
GEW-109	3/11/2020 11:37:43 AM	45.1	41.1	0.7	13.1	89.8	90.0	5.01	3.45	-1.72	-1.69	-19.09
GEW-109	3/17/2020 2:02:27 PM	43.8	43.5	0.8	11.9	70.9	71.0	1.19	1.68	-2.01	-2.01	-18.74

March 2020 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-109	3/23/2020 3:07:52 PM	43.7	44.1	0.4	11.8	73.6	73.4	3.17	2.11	-2.01	-2.01	-19.29
GEW-109	3/31/2020 2:06:43 PM	44.5	41.6	0.8	13.1	91.8	91.8	2.96	1.89	-1.82	-1.82	-19.03
GEW-110	3/2/2020 10:29:42 AM	37.5	46.5	0.5	15.5	79.6	79.6	3.71	4.07	-0.05	-0.04	-19.65
GEW-110	3/11/2020 2:25:10 PM	35.8	43.5	0.7	20.0	103.9	103.8	3.54	5.25	-0.06	-0.05	-17.89
GEW-110	3/11/2020 2:30:52 PM	36.1	42.5	0.7	20.7	102.6	102.6	4.34	3.36	-0.08	-0.07	-17.59
GEW-110	3/17/2020 11:10:15 AM	23.5	32.7	8.7	35.1	70.2	70.2	1.13	3.56	-0.14	-0.16	-18.66
GEW-110	3/17/2020 11:12:39 AM	33.5	42.9	3.2	20.4	67.7	67.7	4.82	3.82	-0.05	-0.03	-18.62
GEW-110	3/23/2020 1:51:42 PM	33.1	39.6	3.3	24.0	64.9	64.9	3.24	4.22	-0.05	-0.04	-19.04
GEW-110	3/31/2020 9:31:01 AM	27.1	28.5	6.5	37.9	64.7	64.7	3.60	2.94	-0.10	-0.10	-20.63
GEW-110	3/31/2020 9:33:48 AM	28.3	29.1	6.0	36.6	64.4	64.4	1.70	1.70	-0.07	-0.06	-20.42
GEW-113	3/12/2020 10:59:32 AM	10.5	54.7	0.5	34.3	174.2	174.0	8.25	8.77	-1.40	-1.39	-19.24
GEW-113	3/12/2020 11:00:34 AM	10.1	54.5	0.5	34.9	174.2	174.2	8.36	8.42	-1.39	-1.39	-19.49
GEW-113	3/23/2020 10:08:41 AM	10.2	54.4	0.4	35.0	175.8	175.8	8.90	8.90	-1.81	-1.82	-19.92
GEW-113	3/23/2020 10:09:49 AM	10.0	53.5	0.3	36.2	175.8	175.8	8.57	8.51	-1.83	-1.84	-19.66
GEW-116	3/12/2020 10:03:37 AM	28.8	57.5	0.0	13.7	117.7	117.9	37.40	36.91	-2.12	-2.00	-19.83
GEW-116	3/27/2020 9:04:20 AM	16.7	37.2	8.5	37.6	70.7	70.7	4.82	4.82	-19.70	-19.70	-19.80
GEW-116	3/27/2020 9:06:16 AM	17.2	38.2	8.4	36.2	70.9	70.9	2.54	2.54	-19.24	-19.24	-19.67
GEW-117	3/12/2020 9:55:53 AM	41.7	55.6	0.0	2.7	119.7	119.8	2.95	6.62	-17.51	-17.51	-19.58
GEW-117	3/24/2020 9:02:38 AM	36.3	56.5	0.0	7.2	146.6	146.3	1.82	1.95	-15.79	-15.79	-19.20
GEW-117	3/24/2020 9:03:55 AM	37.4	54.7	0.0	7.9	145.9	146.3	1.80	0.74	-15.83	-15.83	-19.15
GEW-118	3/12/2020 9:46:55 AM	5.1	50.4	0.0	44.5	190.2	190.2	41.49	40.55	-5.31	-5.31	-19.28
GEW-118	3/12/2020 9:48:33 AM	5.0	51.1	0.0	43.9	190.9	190.7	41.45	40.84	-5.74	-5.74	-19.83
GEW-118	3/20/2020 10:03:25 AM	3.0	61.0	0.0	36.0	196.4	196.4	43.52	43.52	-3.64	-3.64	-20.43
GEW-118	3/20/2020 10:04:26 AM	2.7	61.5	0.0	35.8	196.4	196.4	42.49	42.49	-3.48	-3.48	-20.81
GEW-120	3/10/2020 7:55:53 AM	51.7	45.4	0.0	2.9	56.7	56.7	1.61	2.19	-1.41	-1.42	-20.00
GEW-120	3/24/2020 9:09:01 AM	50.1	46.4	0.0	3.5	65.2	65.3	6.99	7.57	-0.94	-0.94	-19.49
GEW-121	3/10/2020 7:59:06 AM	36.8	52.6	0.0	10.6	135.0	135.3	2.93	2.53	-2.58	-2.58	-19.83
GEW-121	3/10/2020 8:00:13 AM	36.0	53.8	0.0	10.2	135.3	135.0	4.18	2.83	-2.55	-2.55	-19.96
GEW-121	3/20/2020 9:33:11 AM	40.4	52.1	0.0	7.5	114.8	115.0	5.46	1.89	-3.60	-3.68	-20.43
GEW-122	3/10/2020 8:06:52 AM	39.5	39.1	0.0	21.4	78.9	78.9	31.31	31.07	-10.98	-10.98	-20.13
GEW-122	3/26/2020 11:02:00 AM	40.1	41.1	0.0	18.8	96.7	96.5	15.42	15.46	-10.15	-10.15	-19.92
GEW-123	3/10/2020 8:03:27 AM	29.3	51.5	0.0	19.2	51.3	51.4	1.99	2.27	-3.04	-3.04	-19.96
GEW-123	3/26/2020 10:58:15 AM	32.9	56.4	0.2	10.5	70.3	70.4	9.04	10.75	-2.82	-2.83	-19.80
GEW-124	3/10/2020 8:10:03 AM	29.6	26.4	9.5	34.5	41.9	41.9	1.58	4.19	-19.16	-19.16	-19.79
GEW-124	3/10/2020 8:10:58 AM	30.0	25.9	9.8	34.3	41.9	41.9	1.04	1.80	-19.16	-19.16	-19.92
GEW-124	3/20/2020 9:45:19 AM	19.9	22.3	13.7	44.1	49.9	49.9	3.75	2.65	-18.90	-18.60	-20.01
GEW-124	3/20/2020 9:46:52 AM	26.3	23.9	11.4	38.4	49.1	49.1	4.75	2.06	-18.94	-18.69	-20.01
GEW-124	3/31/2020 8:34:19 AM	51.8	41.1	1.0	6.1	53.9	54.2	0.50	0.52	-19.62	-19.62	-20.56
GEW-125	3/10/2020 8:14:54 AM	40.1	43.6	0.0	16.3	43.7	43.7	3.75	3.08	-6.21	-6.21	-20.04
GEW-125	3/25/2020 10:53:02 AM	36.3	47.7	0.0	16.0	57.5	57.5	5.60	5.21	-11.36	-11.36	-18.90

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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-126	3/10/2020 8:18:04 AM	19.0	45.4	0.6	35.0	44.0	44.0	7.81	8.44	-13.68	-13.68	-19.83
GEW-126	3/25/2020 10:40:11 AM	19.7	47.2	0.7	32.4	58.9	58.8	11.36	8.67	-13.17	-13.17	-18.90
GEW-127	3/6/2020 2:41:06 PM	12.4	47.9	2.8	36.9	75.9	75.9	33.72	32.91	-0.18	-0.16	-18.73
GEW-127	3/25/2020 10:34:41 AM	15.4	45.2	3.2	36.2	70.0	70.0	10.81	11.39	-0.21	-0.20	-19.03
GEW-129	3/13/2020 1:34:14 PM	35.8	45.3	0.0	18.9	108.7	108.7	18.06	19.59	-4.00	-3.95	-19.28
GEW-129	3/25/2020 2:27:03 PM	34.7	51.2	0.0	14.1	118.1	118.0	17.36	18.02	-3.83	-3.84	-15.10
GEW-130	3/6/2020 2:45:04 PM	22.9	46.9	0.0	30.2	152.7	152.9	8.52	9.09	-15.13	-15.13	-19.03
GEW-130	3/6/2020 2:46:11 PM	23.0	46.4	0.0	30.6	152.9	152.9	7.98	6.31	-15.19	-15.13	-18.85
GEW-130	3/16/2020 2:43:35 PM	22.7	45.0	0.0	32.3	154.0	153.7	7.34	7.36	-14.52	-14.52	-18.73
GEW-130	3/16/2020 2:44:40 PM	22.6	44.7	0.0	32.7	154.4	154.0	7.07	7.00	-14.52	-14.52	-19.07
GEW-131	3/12/2020 8:56:37 AM	38.8	44.2	0.0	17.0	112.5	112.5	1.52	1.52	-1.22	-1.22	-19.71
GEW-131	3/25/2020 10:45:51 AM	39.7	46.1	0.0	14.2	110.2	110.5	6.35	6.35	-2.34	-2.34	-18.82
GEW-132	3/12/2020 9:24:40 AM	14.1	34.8	1.5	49.6	125.8	125.3	3.91	6.02	-1.33	-1.32	-19.52
GEW-132	3/24/2020 9:15:33 AM	15.9	33.8	1.3	49.0	121.5	121.5	4.71	5.07	-1.42	-1.42	-19.53
GEW-133	3/12/2020 9:58:16 AM	24.1	46.4	0.0	29.5	68.1	68.1	24.27	21.09	-4.16	-4.23	-19.77
GEW-133	3/23/2020 2:42:49 PM	16.5	47.3	0.0	36.2	129.2	129.2	17.33	17.72	-2.15	-2.16	-18.77
GEW-134	3/12/2020 10:06:05 AM	11.5	39.6	0.9	48.0	59.7	59.7	1.16	2.15	-0.62	-0.61	-19.65
GEW-134	3/23/2020 2:54:43 PM	8.7	37.5	0.3	53.5	60.3	60.4	2.42	1.21	-0.23	-0.23	-19.96
GEW-135	3/12/2020 10:15:31 AM	2.2	44.8	0.8	52.2	103.8	103.8	27.18	24.82	-1.45	-1.29	-17.63
GEW-135	3/23/2020 3:07:25 PM	4.3	47.4	0.0	48.3	107.5	107.8	30.28	29.11	-1.25	-1.23	-16.91
GEW-137	3/12/2020 9:06:10 AM	32.3	40.0	0.7	27.0	61.4	61.4	9.43	12.95	-2.94	-3.09	-19.71
GEW-137	3/25/2020 1:29:12 PM	36.1	41.2	0.5	22.2	75.2	75.1	3.69	3.50	-2.67	-2.67	-18.01
GEW-139	3/6/2020 10:40:30 AM	18.7	43.3	0.7	37.3	143.6	143.9	7.21	8.68	-8.30	-8.36	-20.26
GEW-139	3/6/2020 10:41:37 AM	18.7	43.6	0.9	36.8	143.9	143.5	4.12	3.57	-8.24	-8.24	-20.01
GEW-139	3/16/2020 2:37:33 PM	16.9	43.8	0.2	39.1	149.9	149.5	1.44	1.44	-6.75	-6.75	-18.69
GEW-139	3/16/2020 2:38:46 PM	16.8	43.0	0.3	39.9	149.9	149.1	1.76	2.28	-6.75	-6.75	-18.48
GEW-140	3/6/2020 10:31:53 AM	25.2	43.2	0.0	31.6	105.7	106.1	15.17	15.80	-5.74	-5.74	-18.48
GEW-140	3/25/2020 1:34:33 PM	27.3	41.4	0.0	31.3	124.5	124.2	12.05	12.21	-3.89	-3.88	-16.41
GEW-144	3/6/2020 9:51:48 AM	24.7	23.9	11.4	40.0	57.5	57.5	1.65	1.17	-19.95	-19.95	-20.01
GEW-144	3/6/2020 9:52:59 AM	23.8	23.3	12.0	40.9	58.2	58.2	1.16	2.61	-20.07	-19.95	-20.13
GEW-144	3/16/2020 2:17:25 PM	29.2	24.4	9.1	37.3	49.6	49.6	2.38	2.38	-16.25	-16.25	-18.60
GEW-144	3/16/2020 2:18:29 PM	29.0	25.6	9.7	35.7	49.6	49.6	2.66	2.06	-16.25	-16.25	-18.60
GEW-144	3/31/2020 2:47:41 PM	42.2	35.1	4.7	18.0	72.5	71.9	0.73	0.73	-1.07	-1.05	-18.83
GEW-145	3/6/2020 9:20:19 AM	30.4	44.7	0.0	24.9	47.0	47.0	5.20	5.46	-19.52	-19.46	-20.26
GEW-145	3/25/2020 11:44:37 AM	29.7	53.7	0.0	16.6	63.9	63.8	3.06	3.27	-17.84	-17.84	-18.53
GEW-147	3/6/2020 8:09:57 AM	14.9	38.7	2.6	43.8	151.1	151.3	18.61	18.61	-9.21	-9.21	-21.30
GEW-147	3/6/2020 8:10:58 AM	14.4	39.8	2.5	43.3	151.3	151.3	16.93	16.83	-9.15	-9.21	-21.11
GEW-147	3/17/2020 8:51:21 AM	14.6	40.2	2.5	42.7	156.5	156.5	16.45	16.39	-7.98	-7.98	-18.65
GEW-147	3/17/2020 8:52:15 AM	14.4	40.2	2.3	43.1	156.5	156.5	16.63	17.07	-7.98	-7.98	-18.99
GEW-148	3/12/2020 10:52:07 AM	17.8	51.8	0.0	30.4	137.4	137.4	3.56	3.92	-7.01	-7.01	-19.49

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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-148	3/12/2020 10:53:10 AM	17.7	53.0	0.0	29.3	136.5	137.8	7.87	6.18	-6.63	-6.63	-19.53
GEW-148	3/23/2020 10:00:14 AM	19.3	52.5	0.0	28.2	152.1	152.1	6.59	8.68	-6.46	-6.46	-19.66
GEW-148	3/23/2020 10:01:23 AM	18.8	52.7	0.0	28.5	152.3	152.5	6.19	6.35	-6.46	-6.46	-19.62
GEW-149	3/12/2020 8:53:05 AM	11.1	26.9	0.0	62.0	52.6	52.6	0.62	1.38	-0.01	-0.01	-19.62
GEW-149	3/23/2020 1:40:36 PM	8.0	20.3	1.5	70.2	52.1	52.1	2.46	2.13	-0.08	-0.08	-18.99
GEW-150	3/5/2020 11:39:25 AM	18.9	36.6	4.9	39.6	168.5	168.5	11.74	13.61	-2.93	-2.81	-19.09
GEW-150	3/5/2020 11:41:03 AM	18.7	37.4	4.8	39.1	164.7	164.7	6.63	9.80	-2.28	-2.31	-18.85
GEW-150	3/16/2020 9:17:33 AM	23.8	39.9	3.8	32.5	166.2	165.7	10.82	10.85	-1.79	-1.80	-19.53
GEW-150	3/16/2020 9:18:50 AM	23.2	40.3	3.8	32.7	165.7	165.2	10.57	10.68	-1.78	-1.77	-19.37
GEW-151	3/12/2020 9:24:15 AM	9.1	36.8	4.1	50.0	60.9	60.9	0.61	3.03	-0.02	-0.02	-19.37
GEW-151	3/23/2020 1:31:08 PM	6.0	27.2	8.2	58.6	57.7	57.7	1.22	1.72	-0.15	-0.15	-18.56
GEW-151	3/23/2020 1:34:54 PM	6.1	26.2	8.5	59.2	58.5	58.6	1.22	1.22	-0.11	-0.11	-18.69
GEW-151	3/30/2020 10:40:00 AM	4.7	33.7	6.6	55.0	80.1	80.1	1.17	4.06	-0.10	-0.11	-19.12
GEW-151	3/30/2020 10:41:18 AM	4.7	33.9	6.4	55.0	80.1	80.1	3.10	2.62	-0.04	-0.03	-18.87
GEW-152	3/4/2020 2:44:24 PM	21.2	50.8	0.2	27.8	88.1	88.1	3.81	3.81	-3.30	-3.30	-18.79
GEW-152	3/25/2020 9:37:34 AM	25.8	53.6	0.0	20.6	69.8	69.8	3.75	3.14	-3.11	-3.11	-19.76
GEW-153	3/4/2020 2:35:10 PM	26.2	30.6	0.0	43.2	96.3	96.4	5.28	6.27	-5.37	-5.31	-18.67
GEW-153	3/25/2020 9:28:54 AM	26.1	30.4	0.0	43.5	88.4	88.4	7.13	5.35	-5.16	-5.33	-19.80
GEW-156	3/5/2020 2:36:23 PM	30.9	44.4	0.0	24.7	89.8	90.3	4.64	2.76	-10.56	-10.56	-18.42
GEW-156	3/25/2020 10:56:07 AM	31.8	45.1	0.0	23.1	94.1	93.1	5.99	4.31	-11.42	-11.42	-19.33
GEW-157	3/5/2020 2:02:30 PM	35.5	43.9	1.1	19.5	76.7	76.8	3.49	1.64	-7.32	-7.38	-18.48
GEW-157	3/25/2020 11:01:44 AM	36.4	46.1	0.4	17.1	74.3	74.5	4.66	6.69	-7.70	-7.70	-19.12
GEW-158	3/5/2020 11:17:11 AM	22.5	48.5	0.0	29.0	94.6	94.6	6.04	8.84	-1.36	-1.37	-19.16
GEW-158	3/25/2020 10:02:45 AM	26.6	49.3	0.0	24.1	91.0	91.2	5.25	5.25	-1.49	-1.49	-19.50
GEW-160	3/2/2020 9:33:29 AM	19.8	43.4	1.1	35.7	62.7	62.8	3.17	2.40	-5.41	-5.07	-20.03
GEW-160	3/11/2020 10:43:38 AM	21.6	38.9	1.8	37.7	63.1	63.1	2.49	2.76	-4.52	-4.51	-19.07
GEW-160	3/11/2020 10:54:47 AM	21.9	39.4	1.5	37.2	65.8	65.8	2.47	2.47	-4.54	-4.54	-18.82
GEW-160	3/17/2020 11:52:40 AM	21.4	42.5	1.6	34.5	61.8	61.8	4.00	3.20	-4.82	-4.82	-18.62
GEW-160	3/23/2020 2:44:04 PM	21.7	42.1	1.3	34.9	60.7	60.8	1.78	2.47	-4.74	-4.78	-18.91
GEW-160	3/31/2020 1:37:22 PM	22.4	37.5	0.9	39.2	78.2	78.2	1.74	1.29	-5.07	-5.07	-19.20
GEW-161	3/2/2020 9:23:26 AM	2.8	52.3	0.0	44.9	80.5	80.8	3.87	5.22	-2.32	-2.35	-20.08
GEW-161	3/11/2020 9:56:28 AM	2.9	48.6	0.6	47.9	78.0	77.9	2.94	3.16	-2.01	-2.00	-19.24
GEW-161	3/11/2020 10:01:55 AM	2.8	49.7	0.0	47.5	80.5	80.5	3.55	3.91	-2.15	-2.14	-19.70
GEW-161	3/17/2020 11:40:41 AM	3.7	58.5	0.0	37.8	79.4	79.4	6.48	2.36	-3.27	-3.26	-18.53
GEW-161	3/23/2020 2:34:02 PM	8.6	51.2	0.0	40.2	71.8	72.0	1.75	4.23	-3.23	-3.23	-18.83
GEW-161	3/31/2020 9:38:22 AM	7.8	53.7	0.0	38.5	82.6	82.6	2.82	2.82	-3.52	-3.53	-20.34
GEW-162	3/2/2020 10:35:49 AM	1.2	14.6	1.2	83.0	61.6	61.7	2.68	2.68	-5.41	-5.41	-19.40
GEW-162	3/11/2020 1:27:45 PM	1.4	12.8	0.1	85.7	72.8	72.5	1.17	1.65	-5.40	-5.40	-17.89
GEW-162	3/11/2020 1:44:58 PM	1.4	13.5	0.0	85.1	75.4	75.4	1.65	1.16	-5.07	-5.07	-17.93
GEW-162	3/17/2020 11:37:34 AM	12.2	65.3	0.0	22.5	56.1	56.1	3.64	4.06	-3.04	-3.05	-18.53

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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-162	3/23/2020 2:28:02 PM	12.9	65.9	0.0	21.2	52.9	52.9	6.74	2.05	-2.98	-3.06	-19.12
GEW-162	3/31/2020 9:35:31 AM	16.2	58.3	0.0	25.5	57.6	57.7	6.51	5.93	-2.89	-2.88	-20.34
GEW-163	3/12/2020 9:32:33 AM	28.4	55.1	0.0	16.5	134.1	133.8	33.14	33.33	-6.28	-6.28	-19.77
GEW-163	3/12/2020 9:34:17 AM	28.1	56.5	0.0	15.4	133.9	133.5	33.62	34.17	-6.28	-6.28	-19.83
GEW-163	3/20/2020 9:36:17 AM	30.3	60.5	0.0	9.2	124.7	124.7	21.56	21.85	-8.12	-8.20	-20.01
GEW-164	3/11/2020 3:13:15 PM	33.1	49.1	0.0	17.8	148.4	148.4	12.29	12.29	-0.68	-0.67	-16.62
GEW-164	3/11/2020 3:14:43 PM	33.4	48.4	0.0	18.2	148.4	148.0	15.15	15.74	-0.66	-0.65	-16.62
GEW-164	3/20/2020 9:39:01 AM	29.5	50.7	0.2	19.6	145.5	145.2	19.69	19.69	-0.98	-0.98	-20.22
GEW-164	3/20/2020 9:40:11 AM	30.3	49.3	0.2	20.2	145.2	145.9	20.31	28.50	-0.94	-0.91	-20.39
GEW-165	3/11/2020 3:03:19 PM	21.2	58.6	0.0	20.2	158.5	158.7	10.56	8.66	0.06	0.06	-17.89
GEW-165	3/11/2020 3:04:30 PM	21.1	61.0	0.0	17.9	158.9	158.8	3.42	3.42	-0.04	-0.04	-17.76
GEW-165	3/20/2020 2:03:48 PM	18.4	54.9	2.9	23.8	145.5	145.5	21.24	19.57	-0.07	-0.04	-20.51
GEW-165	3/20/2020 2:04:55 PM	18.2	54.9	2.9	24.0	146.3	146.0	18.74	10.83	-0.05	-0.05	-20.51
GEW-166	3/10/2020 8:31:37 AM	9.0	47.2	1.9	41.9	169.5	169.5	16.40	16.30	-10.98	-10.98	-19.79
GEW-166	3/10/2020 8:32:53 AM	9.4	47.3	0.8	42.5	169.5	169.4	16.96	16.95	-10.98	-10.98	-20.00
GEW-166	3/20/2020 9:49:53 AM	9.1	50.5	1.0	39.4	169.0	169.0	19.43	17.79	-11.54	-11.50	-20.30
GEW-166	3/20/2020 9:50:54 AM	9.1	51.5	0.8	38.6	169.0	169.0	16.93	16.21	-11.50	-11.50	-20.26
GEW-167	3/10/2020 8:28:08 AM	15.3	47.0	0.0	37.7	130.3	130.1	1.89	1.17	-8.19	-8.19	-19.92
GEW-167	3/25/2020 10:48:30 AM	15.6	46.7	0.0	37.7	138.7	138.0	4.44	5.12	-6.75	-6.75	-19.07
GEW-167	3/25/2020 10:49:33 AM	15.1	48.2	0.0	36.7	138.7	138.3	6.16	5.52	-6.75	-6.75	-18.77
GEW-168	3/10/2020 8:24:03 AM	32.8	50.8	0.1	16.3	111.0	111.2	5.97	6.77	-2.71	-2.72	-19.87
GEW-168	3/25/2020 10:42:49 AM	34.6	51.1	0.2	14.1	117.9	118.4	12.94	12.15	-3.26	-3.26	-17.72
GEW-169	3/10/2020 8:20:43 AM	12.4	42.6	2.8	42.2	59.7	59.8	3.81	3.22	-0.08	-0.08	-19.41
GEW-169	3/25/2020 10:37:59 AM	17.8	49.1	0.5	32.6	99.9	99.0	1.98	1.79	-0.01	-0.01	-19.03
GEW-170	3/6/2020 2:37:48 PM	12.2	43.5	4.4	39.9	121.8	121.5	10.68	10.68	-0.24	-0.23	-18.60
GEW-170	3/25/2020 10:28:24 AM	13.2	40.5	4.4	41.9	119.0	119.2	17.02	16.22	-0.28	-0.27	-18.99
GEW-171	3/13/2020 11:27:06 AM	13.5	45.5	3.9	37.1	52.6	52.6	3.48	3.25	-3.15	-3.16	-19.46
GEW-171	3/25/2020 2:33:06 PM	9.4	57.6	0.0	33.0	71.6	71.6	2.06	2.06	4.51	4.51	-18.10
GEW-171	3/25/2020 2:36:08 PM	9.2	59.2	0.0	31.6	78.7	78.8	1.99	1.99	-4.77	-4.77	-17.89
GEW-172	3/4/2020 1:56:54 PM	18.7	45.3	2.6	33.4	149.9	149.2	13.33	10.62	-6.22	-6.16	-18.36
GEW-172	3/4/2020 1:58:15 PM	18.0	44.3	2.8	34.9	149.5	149.9	15.79	5.45	-6.22	-6.22	-18.18
GEW-172	3/16/2020 8:58:36 AM	25.7	37.7	2.9	33.7	110.2	109.5	5.13	2.56	-9.79	-9.79	-19.45
GEW-174	3/6/2020 10:06:35 AM	16.4	37.7	0.0	45.9	115.8	115.3	12.76	12.76	-2.21	-2.21	-20.13
GEW-174	3/25/2020 1:41:47 PM	16.9	38.2	0.0	44.9	118.9	118.4	3.69	3.70	-1.35	-1.35	-18.27
GEW-175	3/5/2020 11:35:04 AM	28.3	35.7	4.3	31.7	137.1	137.1	39.02	34.98	-0.16	-0.15	-20.01
GEW-175	3/5/2020 11:36:20 AM	28.4	35.8	4.3	31.5	136.8	137.1	30.20	41.96	-0.14	-0.15	-19.83
GEW-175	3/16/2020 9:13:08 AM	29.3	37.6	4.0	29.1	135.3	135.0	33.45	33.45	-0.25	-0.25	-19.92
GEW-175	3/16/2020 9:14:12 AM	30.3	36.4	4.0	29.3	135.3	135.2	37.55	36.54	-0.24	-0.23	-19.92
GEW-177	3/6/2020 2:33:31 PM	9.7	45.9	1.6	42.8	168.4	168.5	10.17	25.56	-11.17	-11.17	-14.01
GEW-177	3/6/2020 2:35:15 PM	9.5	47.9	1.5	41.1	168.5	168.5	20.74	15.48	-11.17	-11.10	-13.53

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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-177	3/17/2020 9:20:16 AM	10.6	49.4	0.0	40.0	169.0	169.0	7.32	7.32	-11.19	-11.19	-13.66
GEW-177	3/17/2020 9:21:36 AM	10.1	49.7	0.0	40.2	168.6	169.0	5.48	5.70	-11.14	-11.14	-14.12
GEW-178	3/5/2020 2:09:39 PM	38.2	46.4	1.3	14.1	74.1	74.1	1.68	5.82	-0.20	-0.20	-18.67
GEW-178	3/25/2020 11:24:45 AM	39.3	42.3	2.9	15.5	66.6	66.5	3.40	3.40	-0.21	-0.21	-19.38
GEW-179	3/5/2020 2:21:02 PM	44.0	47.5	0.0	8.5	88.2	88.0	8.64	9.24	-1.12	-1.13	-17.87
GEW-179	3/25/2020 11:33:34 AM	47.3	51.7	0.0	1.0	82.3	82.2	8.15	6.99	-1.58	-1.59	-19.04
GEW-180	3/6/2020 9:33:21 AM	33.4	59.6	0.7	6.3	66.7	66.8	12.01	12.82	-16.90	-16.53	-19.77
GEW-180	3/25/2020 1:55:49 PM	34.3	61.7	0.2	3.8	83.6	83.6	10.26	6.00	-13.32	-13.02	-18.87
GEW-181	3/6/2020 9:39:44 AM	26.0	63.6	0.0	10.4	66.3	66.1	12.17	12.39	-17.45	-17.45	-20.20
GEW-181	3/25/2020 2:05:59 PM	26.1	71.7	0.0	2.2	78.0	78.0	11.66	13.58	-15.35	-15.60	-17.99
GEW-185	3/12/2020 9:37:27 AM	40.8	55.0	0.0	4.2	98.2	98.2	2.51	2.51	-0.60	-0.60	-19.58
GEW-185	3/12/2020 9:38:49 AM	41.2	55.0	0.0	3.8	109.0	109.0	7.12	7.12	-1.86	-1.86	-19.89
GEW-185	3/25/2020 9:46:23 AM	43.9	52.2	0.0	3.9	93.9	93.9	5.72	5.49	-0.63	-0.64	-19.20
GEW-186	3/5/2020 2:48:23 PM	28.6	35.4	4.8	31.2	85.2	85.2	5.08	12.32	-0.03	-0.04	-18.30
GEW-186	3/25/2020 10:25:05 AM	28.3	32.0	5.8	33.9	71.2	71.4	7.06	5.74	-0.09	-0.08	-19.28
GEW-186	3/25/2020 10:25:58 AM	28.6	31.6	5.8	34.0	71.2	71.2	7.99	7.35	-0.09	-0.08	-19.15
GEW-186	3/30/2020 10:26:25 AM	33.7	36.5	3.8	26.0	94.0	94.1	4.99	2.56	-0.04	-0.03	-18.91
GEW-187	3/2/2020 9:44:51 AM	42.3	50.3	0.0	7.4	100.6	100.4	6.84	7.79	-2.29	-2.27	-19.65
GEW-187	3/11/2020 9:30:17 AM	42.7	47.8	0.0	9.5	100.4	100.4	6.86	10.20	-2.16	-2.17	-20.13
GEW-187	3/11/2020 9:37:25 AM	42.2	49.3	0.0	8.5	100.8	101.0	7.72	8.58	-2.20	-2.19	-20.07
GEW-187	3/17/2020 1:51:09 PM	42.4	53.1	0.0	4.5	98.9	98.9	8.59	8.81	-2.12	-2.13	-18.45
GEW-187	3/23/2020 2:57:02 PM	42.6	53.3	0.0	4.1	100.9	101.1	3.76	7.55	-2.28	-2.33	-19.59
GEW-187	3/31/2020 2:15:20 PM	43.4	50.3	0.0	6.3	104.8	104.6	5.06	7.26	-2.08	-2.07	-18.82
GEW-217	3/5/2020 2:05:32 PM	13.2	53.1	0.0	33.7	88.8	88.6	9.42	2.76	-10.86	-10.68	-13.77
GEW-217	3/25/2020 11:13:16 AM	13.2	56.6	0.3	29.9	100.4	94.0	6.45	3.13	-8.71	-8.71	-12.68
GEW-218	3/5/2020 2:32:25 PM	23.6	42.7	0.5	33.2	105.2	105.5	8.09	10.40	-0.48	-0.51	-18.97
GEW-218	3/25/2020 11:09:22 AM	22.1	48.2	0.3	29.4	92.9	92.2	10.92	10.61	-0.68	-0.68	-19.25
GEW-220	3/6/2020 9:29:15 AM	12.3	60.3	0.0	27.4	68.8	68.9	20.09	24.43	-4.36	-4.39	-20.50
GEW-220	3/25/2020 1:36:59 PM	3.6	63.5	0.0	32.9	184.5	185.1	9.75	10.09	-1.43	-1.40	-18.32
GEW-220	3/25/2020 1:38:09 PM	3.6	63.8	0.0	32.6	185.7	185.4	13.40	12.75	-1.46	-1.50	-18.37
GEW-221	3/6/2020 9:56:12 AM	25.3	42.8	2.6	29.3	67.9	67.9	5.01	5.02	-17.75	-17.63	-20.32
GEW-221	3/25/2020 2:15:47 PM	27.8	53.7	0.0	18.5	95.6	95.8	5.89	8.49	-15.01	-15.01	-18.11
GEW-222	3/6/2020 10:14:24 AM	36.9	44.5	0.0	18.6	75.7	75.7	3.84	4.17	-9.64	-9.64	-20.07
GEW-222	3/25/2020 2:36:53 PM	37.5	45.0	0.0	17.5	81.2	81.2	8.24	6.54	-6.89	-6.64	-17.94
GEW-223	3/6/2020 10:18:14 AM	31.4	57.6	0.0	11.0	88.9	88.7	7.48	9.87	-5.80	-5.98	-20.44
GEW-223	3/25/2020 2:30:23 PM	34.7	57.6	0.0	7.7	109.2	109.2	4.89	5.00	-6.08	-6.08	-17.42
GEW-224	3/6/2020 10:26:30 AM	29.6	55.3	0.1	15.0	144.9	144.9	7.69	9.16	-12.20	-12.20	-19.71
GEW-224	3/6/2020 10:27:35 AM	29.4	56.1	0.0	14.5	144.5	NR	6.76	NR	-12.14	NR	-19.83
GEW-224	3/17/2020 9:00:02 AM	31.0	52.5	0.6	15.9	154.8	154.5	10.50	10.45	-14.18	-14.18	-17.38
GEW-224	3/17/2020 9:02:01 AM	31.1	52.2	0.6	16.1	154.4	154.0	9.68	9.74	-14.23	-14.23	-16.19

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		(% vol)				°F		scfm		H ₂ O		
GEW-225	3/4/2020 2:03:08 PM	15.7	52.0	0.0	32.3	169.6	169.5	10.53	7.84	-5.31	-5.37	-18.36
GEW-225	3/4/2020 2:04:14 PM	15.5	52.7	0.0	31.8	169.9	169.5	6.67	8.78	-5.37	-5.37	-18.54
GEW-225	3/16/2020 8:20:55 AM	29.4	43.4	0.5	26.7	105.3	105.5	7.27	7.19	-11.48	-11.48	-19.32
GEW-226	3/6/2020 10:35:54 AM	9.2	37.1	0.0	53.7	180.3	180.3	13.60	12.68	-2.95	-2.93	-20.32
GEW-226	3/6/2020 10:36:59 AM	9.1	37.4	0.0	53.5	180.3	180.4	14.80	13.88	-2.94	-2.95	-20.32
GEW-226	3/16/2020 2:49:52 PM	10.1	38.5	0.0	51.4	179.7	179.2	14.63	14.60	-2.28	-2.28	-18.82
GEW-226	3/16/2020 2:50:54 PM	9.8	38.4	0.0	51.8	179.7	179.7	14.59	14.58	-2.20	-2.20	-18.65
GEW-227	3/13/2020 9:32:07 AM	1.5	50.5	0.0	48.0	186.7	186.4	23.64	17.89	-0.76	-0.88	-19.95
GEW-227	3/13/2020 9:33:08 AM	1.4	53.9	0.0	44.7	187.6	187.7	20.38	18.12	-0.92	-0.88	-19.77
GEW-227	3/25/2020 1:20:31 PM	6.1	44.5	0.4	49.0	171.0	171.1	12.20	12.20	-0.02	-0.02	-18.18
GEW-227	3/25/2020 1:22:31 PM	6.3	43.2	0.2	50.3	172.1	170.5	10.37	10.84	-0.02	-0.02	-18.18
GEW-228	3/12/2020 10:38:14 AM	5.4	40.7	2.1	51.8	190.2	190.0	2.00	2.22	0.04	0.04	-19.45
GEW-228	3/12/2020 10:40:28 AM	5.6	41.7	1.8	50.9	191.7	192.3	4.28	4.31	-0.03	-0.03	-19.49
GEW-228	3/23/2020 11:04:17 AM	4.7	24.9	6.9	63.5	189.6	189.6	9.77	9.47	-0.17	-0.17	-19.70
GEW-228	3/23/2020 11:05:32 AM	4.6	25.0	6.9	63.5	189.6	189.6	4.88	4.68	-0.17	-0.17	-19.70
GEW-228	3/27/2020 8:49:51 AM	3.9	28.2	6.4	61.5	191.6	191.6	5.15	7.53	-0.10	-0.10	-20.22
GEW-228	3/27/2020 8:51:33 AM	3.6	28.9	6.5	61.0	190.6	190.2	5.07	6.04	-0.05	-0.05	-19.67
GEW-229	3/12/2020 10:33:20 AM	1.8	11.2	9.1	77.9	89.8	89.9	5.76	6.41	-0.05	-0.04	-19.15
GEW-229	3/12/2020 10:34:40 AM	1.9	11.9	9.0	77.2	89.6	89.6	6.91	7.19	-0.04	-0.04	-20.04
GEW-229	3/23/2020 10:59:08 AM	1.3	12.5	10.8	75.4	86.3	86.5	6.55	7.50	-0.07	-0.06	-19.83
GEW-229	3/23/2020 11:00:21 AM	1.1	11.3	11.0	76.6	86.5	86.3	6.95	8.10	-0.07	-0.07	-20.34
GEW-230	3/11/2020 2:54:03 PM	3.6	40.4	1.8	54.2	157.3	157.3	8.54	9.43	-0.04	-0.07	-18.36
GEW-230	3/11/2020 2:57:04 PM	3.5	43.0	1.7	51.8	158.1	158.5	2.64	7.18	-0.02	-0.04	-18.54
GEW-230	3/23/2020 9:09:04 AM	3.6	43.1	1.9	51.4	68.9	69.1	4.09	3.32	0.04	0.04	-19.96
GEW-230	3/23/2020 9:10:54 AM	3.5	44.4	1.7	50.4	114.5	114.8	3.51	1.65	-0.01	-0.01	-19.87
GEW-232	3/12/2020 10:56:34 AM	23.9	48.5	0.0	27.6	122.2	122.6	9.00	10.37	-3.48	-3.49	-20.25
GEW-232	3/23/2020 2:03:19 PM	21.3	50.0	0.0	28.7	168.1	168.1	8.82	8.06	-2.01	-2.01	-19.53
GEW-232	3/23/2020 2:05:08 PM	21.5	49.6	0.0	28.9	168.5	168.1	8.99	7.34	-2.02	-2.01	-19.15
GEW-233	3/12/2020 10:11:56 AM	1.7	22.6	9.2	66.5	97.2	96.5	15.36	11.46	-0.28	-0.24	-19.65
GEW-233	3/12/2020 10:13:21 AM	1.7	22.0	9.3	67.0	89.3	88.6	3.49	2.81	-0.13	-0.11	-19.89
GEW-233	3/20/2020 2:52:03 PM	1.2	55.2	0.1	43.5	46.1	46.1	5.01	7.92	-0.12	-0.10	-20.30
GEW-234	3/12/2020 9:42:19 AM	7.8	45.2	0.5	46.5	197.9	197.2	18.26	14.60	-0.50	-0.50	-19.71
GEW-234	3/12/2020 9:44:32 AM	7.5	46.4	0.5	45.6	197.9	197.9	7.16	6.03	-0.27	-0.27	-19.83
GEW-234	3/20/2020 10:00:18 AM	7.2	49.8	0.0	43.0	199.4	199.8	9.00	9.40	-0.87	-0.84	-20.43
GEW-234	3/20/2020 10:01:24 AM	7.2	51.3	0.0	41.5	199.4	199.3	9.20	8.02	-0.89	-0.88	-20.01
GEW-235	3/12/2020 9:27:49 AM	25.0	53.1	0.0	21.9	120.2	120.3	7.66	3.93	-3.63	-3.62	-19.71
GEW-235	3/24/2020 9:12:25 AM	26.9	52.6	0.0	20.5	106.2	106.5	8.18	7.64	-3.83	-3.83	-19.45
GEW-236	3/12/2020 9:09:48 AM	1.5	50.5	0.0	48.0	203.9	203.9	5.70	5.56	-0.12	-0.12	-18.79
GEW-236	3/12/2020 9:10:56 AM	1.1	51.0	0.0	47.9	203.9	203.9	4.47	5.96	-0.13	-0.13	-19.40
GEW-236	3/23/2020 10:40:54 AM	1.9	43.2	0.1	54.8	207.0	207.0	8.11	7.11	-0.63	-0.63	-19.37

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		(% vol)				°F		scfm		H ₂ O		
GEW-236	3/23/2020 10:43:50 AM	2.1	43.1	0.0	54.8	207.0	207.0	6.31	7.83	-0.64	-0.65	-17.51
GEW-237	3/5/2020 11:27:39 AM	23.3	33.2	6.7	36.8	127.2	126.9	14.34	14.34	-0.10	-0.10	-19.16
GEW-237	3/5/2020 11:32:31 AM	28.3	36.7	4.7	30.3	129.7	128.9	15.26	7.77	-0.07	-0.11	-18.79
GEW-237	3/25/2020 10:20:02 AM	34.8	43.8	3.2	18.2	156.5	156.5	12.29	12.12	-0.07	-0.06	-20.05
GEW-237	3/25/2020 10:21:16 AM	34.7	44.0	3.2	18.1	156.5	156.9	12.03	11.98	-0.07	-0.11	-19.55
GEW-238	3/12/2020 11:03:05 AM	8.8	59.4	0.0	31.8	196.4	196.4	15.21	15.06	-0.38	-0.38	-19.75
GEW-238	3/12/2020 11:04:21 AM	8.6	58.1	0.0	33.3	196.4	196.4	14.78	14.50	-0.38	-0.37	-19.58
GEW-238	3/23/2020 10:12:43 AM	12.4	55.6	0.0	32.0	184.5	184.5	15.67	15.97	-1.43	-1.43	-19.45
GEW-238	3/23/2020 10:13:40 AM	12.3	54.7	0.0	33.0	184.5	184.5	16.06	14.70	-1.41	-1.41	-19.58
GEW-239	3/11/2020 2:45:36 PM	1.4	51.4	0.2	47.0	203.9	203.9	8.70	8.33	-0.12	-0.13	-18.18
GEW-239	3/11/2020 2:47:08 PM	1.1	54.5	0.2	44.2	203.9	203.9	4.68	6.20	-0.14	-0.13	-17.69
GEW-239	3/20/2020 2:30:54 PM	0.9	45.3	4.6	49.2	202.3	202.3	5.32	8.38	-0.70	-0.69	-19.42
GEW-239	3/20/2020 2:32:11 PM	0.8	46.8	4.4	48.0	201.6	201.6	5.06	8.50	-0.47	-0.51	-20.22
GEW-240	3/6/2020 10:45:42 AM	3.2	26.1	8.1	62.6	195.0	194.9	24.87	24.87	-0.51	-0.51	-19.83
GEW-240	3/6/2020 10:47:39 AM	3.1	24.6	8.2	64.1	191.9	191.6	18.03	17.92	-0.11	-0.10	-20.01
GEW-240	3/16/2020 2:54:44 PM	0.9	57.5	0.0	41.6	204.7	204.7	14.17	16.25	0.86	0.86	-18.69
GEW-240	3/16/2020 2:58:43 PM	0.6	57.0	0.0	42.4	205.4	205.4	22.25	20.91	-0.01	-0.01	-18.65
GEW-25	3/2/2020 2:27:29 PM	60.1	34.3	0.5	5.1	67.5	67.5	11.90	13.39	-11.50	-11.16	-13.14
GEW-25	3/10/2020 10:51:07 AM	57.9	36.8	0.0	5.3	51.5	51.5	12.71	6.96	-2.18	-2.14	-13.65
GEW-25	3/10/2020 10:58:58 AM	58.5	35.4	0.0	6.1	51.8	52.0	11.71	11.71	-2.24	-2.23	-13.59
GEW-25	3/16/2020 1:38:47 PM	65.5	29.3	0.2	5.0	50.1	50.2	6.78	5.53	-12.85	-12.81	-13.14
GEW-25	3/23/2020 11:11:19 AM	66.3	29.7	0.2	3.8	48.8	48.8	7.33	8.31	-12.94	-12.94	-13.18
GIW-01	3/2/2020 9:07:04 AM	24.4	56.3	0.0	19.3	104.5	104.1	9.14	9.14	0.68	0.68	-19.74
GIW-01	3/2/2020 9:08:27 AM	23.5	57.5	0.5	18.5	118.6	119.2	5.47	6.74	-0.44	-0.43	-19.74
GIW-01	3/11/2020 2:01:30 PM	26.7	59.3	0.0	14.0	148.8	148.8	6.55	6.63	-0.30	-0.31	-17.89
GIW-01	3/11/2020 2:08:07 PM	27.5	56.8	0.0	15.7	147.9	148.0	7.96	8.67	-0.31	-0.32	-17.42
GIW-01	3/17/2020 11:29:36 AM	28.0	62.4	0.0	9.6	133.5	133.4	5.10	5.93	-0.62	-0.59	-18.53
GIW-01	3/17/2020 11:31:05 AM	27.6	65.7	0.0	6.7	133.5	133.5	2.11	2.80	-0.60	-0.59	-18.53
GIW-01	3/23/2020 2:20:36 PM	29.2	59.5	0.0	11.3	138.0	138.0	8.21	8.21	-0.60	-0.60	-18.96
GIW-01	3/23/2020 2:21:45 PM	28.8	61.1	0.0	10.1	138.7	138.7	6.87	6.87	-0.61	-0.61	-18.91
GIW-01	3/31/2020 1:53:12 PM	29.3	56.9	0.0	13.8	138.7	138.7	10.90	11.82	-0.44	-0.44	-18.77
GIW-01	3/31/2020 1:54:24 PM	29.8	57.3	0.0	12.9	139.9	139.9	3.02	3.04	-0.44	-0.45	-18.65
GIW-02	3/2/2020 9:10:51 AM	5.6	56.7	0.0	37.7	57.3	57.5	3.24	1.73	-0.05	-0.03	-20.03
GIW-02	3/11/2020 1:50:45 PM	10.3	51.3	0.0	38.4	81.7	82.0	4.35	4.35	-0.28	-0.28	-17.97
GIW-02	3/11/2020 1:55:51 PM	10.3	52.2	0.0	37.5	84.2	84.2	3.06	3.28	-0.24	-0.25	-17.97
GIW-02	3/17/2020 11:33:36 AM	8.3	64.7	0.0	27.0	55.2	55.2	3.28	3.50	-0.33	-0.33	-19.04
GIW-02	3/23/2020 2:24:30 PM	11.0	55.8	0.0	33.2	52.1	52.1	3.54	3.54	-0.26	-0.26	-19.21
GIW-02	3/31/2020 1:50:45 PM	14.0	53.3	0.0	32.7	71.4	71.6	2.96	2.96	-0.32	-0.32	-18.99
GIW-03	3/2/2020 9:20:59 AM	14.1	43.3	0.8	41.8	55.4	55.5	3.19	3.82	-7.52	-7.52	-19.91
GIW-03	3/11/2020 11:09:48 AM	14.7	41.0	0.3	44.0	67.5	67.7	2.15	2.45	-7.01	-7.01	-18.90

March 2020 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-03	3/11/2020 11:15:12 AM	15.0	40.3	0.4	44.3	69.1	69.1	2.44	2.14	-6.88	-6.88	-18.90
GIW-03	3/17/2020 11:43:23 AM	20.0	51.6	0.2	28.2	55.6	55.6	2.67	1.14	-7.53	-7.48	-18.58
GIW-03	3/23/2020 2:31:09 PM	22.7	50.6	0.0	26.7	52.6	52.6	1.80	3.48	-7.78	-7.44	-18.83
GIW-03	3/31/2020 1:48:24 PM	25.4	46.7	0.2	27.7	74.7	74.8	0.58	0.58	-7.51	-7.51	-18.52
GIW-04	3/2/2020 9:26:06 AM	17.4	52.4	0.2	30.0	60.6	60.7	4.51	4.51	-3.90	-3.90	-19.99
GIW-04	3/11/2020 10:59:28 AM	20.8	49.9	0.0	29.3	67.5	67.7	3.63	2.99	-3.20	-3.20	-18.94
GIW-04	3/11/2020 11:05:58 AM	20.8	50.1	0.0	29.1	72.2	72.3	3.78	2.96	-3.27	-3.26	-18.90
GIW-04	3/17/2020 11:46:13 AM	20.6	54.9	0.0	24.5	56.7	56.7	3.46	3.24	-3.91	-3.91	-18.79
GIW-04	3/23/2020 2:37:06 PM	19.5	54.8	0.0	25.7	52.6	52.6	0.55	0.55	-3.42	-3.42	-19.21
GIW-04	3/31/2020 1:46:10 PM	22.0	48.1	0.2	29.7	75.0	75.2	0.58	1.30	-4.10	-4.10	-18.86
GIW-05	3/2/2020 9:36:45 AM	24.8	44.9	0.2	30.1	59.0	59.2	7.97	7.97	-2.36	-2.36	-19.91
GIW-05	3/11/2020 10:15:47 AM	21.5	38.2	4.3	36.0	53.4	53.4	3.93	3.53	-1.90	-1.89	-19.24
GIW-05	3/11/2020 10:39:40 AM	23.9	39.3	2.9	33.9	58.7	58.7	2.80	2.80	-1.85	-1.85	-19.07
GIW-05	3/17/2020 11:55:46 AM	26.6	46.2	0.4	26.8	56.3	56.4	11.32	10.21	-2.66	-2.65	-18.45
GIW-05	3/23/2020 2:47:17 PM	25.9	44.4	0.0	29.7	53.9	53.9	7.38	7.38	-2.41	-2.40	-19.17
GIW-05	3/31/2020 1:40:38 PM	5.4	10.1	16.7	67.8	76.4	76.4	0.58	0.58	-2.47	-2.47	-18.94
GIW-05	3/31/2020 1:41:34 PM	5.4	10.1	16.9	67.6	76.4	76.4	1.31	0.58	-2.45	-2.45	-19.20
GIW-06	3/2/2020 9:39:32 AM	37.6	42.2	0.0	20.2	58.0	58.2	3.09	3.09	-18.93	-18.93	-19.86
GIW-06	3/11/2020 10:43:26 AM	38.0	39.5	0.0	22.5	57.5	57.6	2.61	2.62	-19.10	-18.97	-19.58
GIW-06	3/11/2020 11:03:31 AM	38.1	38.2	0.0	23.7	65.3	65.4	2.58	2.00	-18.97	-18.91	-19.03
GIW-06	3/17/2020 1:43:31 PM	35.3	37.9	0.0	26.8	55.5	55.5	3.33	1.18	-17.59	-17.63	-18.20
GIW-06	3/23/2020 2:50:06 PM	30.5	40.6	0.0	28.9	52.4	52.4	0.53	1.29	-18.22	-18.22	-19.21
GIW-06	3/31/2020 2:24:44 PM	33.5	41.2	0.0	25.3	76.6	76.6	0.83	1.03	-18.24	-18.24	-18.52
GIW-07	3/2/2020 9:47:36 AM	52.3	45.5	0.0	2.2	63.3	63.4	4.82	4.66	-2.34	-2.33	-19.74
GIW-07	3/11/2020 11:06:33 AM	52.9	43.0	0.0	4.1	70.9	71.1	5.45	4.29	-2.08	-2.06	-19.52
GIW-07	3/11/2020 11:12:04 AM	53.3	41.6	0.0	5.1	73.9	73.9	6.37	5.29	-1.85	-1.85	-19.09
GIW-07	3/17/2020 1:54:55 PM	52.6	44.8	0.1	2.5	56.0	56.0	3.23	3.23	-2.11	-2.11	-18.53
GIW-07	3/23/2020 2:59:35 PM	51.1	46.1	0.0	2.8	52.1	52.1	0.55	3.30	-2.40	-2.40	-18.96
GIW-07	3/31/2020 2:22:14 PM	47.9	42.3	1.1	8.7	74.1	74.1	3.37	3.37	-2.22	-2.22	-18.86
GIW-08	3/2/2020 9:49:51 AM	50.2	44.0	0.0	5.8	62.6	62.8	4.51	3.41	-2.50	-2.50	-19.74
GIW-08	3/11/2020 11:14:33 AM	48.5	42.9	0.0	8.6	70.7	70.8	6.30	7.71	-2.22	-2.21	-19.22
GIW-08	3/11/2020 11:19:57 AM	48.2	42.5	0.0	9.3	74.1	74.1	4.26	4.58	-2.22	-2.23	-19.03
GIW-08	3/17/2020 1:57:09 PM	49.2	43.8	0.0	7.0	56.7	56.7	3.23	2.73	-2.32	-2.31	-18.16
GIW-08	3/23/2020 3:02:07 PM	47.8	44.5	0.0	7.7	52.6	52.6	0.55	0.55	-2.50	-2.50	-18.91
GIW-08	3/31/2020 2:12:15 PM	45.2	44.0	0.0	10.8	79.8	79.8	3.72	3.34	-2.49	-2.49	-18.52
GIW-09	3/2/2020 9:52:04 AM	23.5	40.9	0.0	35.6	60.9	61.2	3.21	1.72	-0.91	-0.91	-19.74
GIW-09	3/11/2020 11:22:54 AM	24.3	41.7	0.0	34.0	69.5	69.9	5.48	2.93	-0.82	-0.81	-19.03
GIW-09	3/11/2020 11:28:06 AM	24.5	41.1	0.0	34.4	73.4	73.5	5.44	4.28	-0.80	-0.80	-19.03
GIW-09	3/17/2020 1:59:36 PM	24.1	39.6	0.0	36.3	55.6	55.7	2.45	3.25	-0.74	-0.74	-18.20
GIW-09	3/23/2020 3:05:01 PM	23.4	41.7	0.0	34.9	52.6	52.6	2.53	2.53	-0.86	-0.86	-19.21

March 2020 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-09	3/31/2020 2:09:52 PM	22.9	40.6	0.1	36.4	74.1	74.3	0.59	0.59	-1.07	-1.07	-18.52
GIW-10	3/2/2020 10:01:13 AM	25.8	34.8	0.0	39.4	61.7	61.8	1.70	1.70	-3.56	-3.56	-19.78
GIW-10	3/11/2020 11:19:19 AM	29.3	35.8	0.0	34.9	69.0	69.1	2.26	2.26	-3.42	-3.41	-18.90
GIW-10	3/11/2020 11:25:17 AM	30.7	33.8	0.0	35.5	69.3	69.3	1.85	0.92	-3.35	-3.36	-18.90
GIW-10	3/17/2020 11:26:16 AM	26.4	36.6	0.0	37.0	55.1	55.2	3.20	3.20	-3.66	-3.66	-18.96
GIW-10	3/23/2020 2:05:27 PM	26.2	34.9	0.0	38.9	51.0	51.0	3.30	4.64	-3.41	-3.41	-19.38
GIW-10	3/31/2020 1:44:01 PM	26.3	33.1	0.0	40.6	73.4	73.6	2.55	2.27	-3.50	-3.50	-18.86
GIW-11	3/2/2020 10:19:19 AM	26.0	34.4	0.3	39.3	62.1	62.1	4.35	8.96	-2.14	-2.07	-11.91
GIW-11	3/11/2020 1:43:35 PM	26.7	33.7	0.4	39.2	74.8	74.8	5.41	3.54	-1.95	-1.96	-12.42
GIW-11	3/11/2020 1:49:46 PM	26.7	32.6	0.4	40.3	75.0	75.0	2.89	6.68	-1.90	-1.99	-13.28
GIW-11	3/17/2020 11:23:26 AM	25.5	36.6	0.6	37.3	55.2	55.2	3.26	1.77	-2.11	-2.10	-13.61
GIW-11	3/23/2020 2:02:59 PM	26.4	35.1	0.4	38.1	51.0	51.0	5.68	6.78	-2.02	-2.03	-12.26
GIW-11	3/31/2020 2:01:07 PM	27.3	34.4	0.5	37.8	75.0	75.2	4.50	4.65	-2.50	-2.50	-18.99
GIW-12	3/2/2020 10:24:12 AM	32.6	38.0	1.0	28.4	58.2	58.2	3.23	3.23	-0.32	-0.32	-18.03
GIW-12	3/11/2020 2:05:49 PM	33.2	37.8	0.7	28.3	76.1	76.3	5.16	5.16	-0.29	-0.29	-16.65
GIW-12	3/11/2020 2:19:45 PM	33.6	35.0	0.6	30.8	75.5	75.5	4.74	3.93	-0.26	-0.26	-16.34
GIW-12	3/17/2020 11:18:39 AM	32.8	38.0	1.7	27.5	53.9	53.9	3.51	3.51	-0.33	-0.34	-17.99
GIW-12	3/23/2020 1:57:27 PM	33.6	37.1	1.1	28.2	49.6	49.6	0.56	1.36	-0.30	-0.29	-17.82
GIW-12	3/31/2020 1:58:59 PM	33.4	37.3	0.6	28.7	71.7	71.8	3.30	3.30	-0.36	-0.37	-18.86
GIW-13	3/2/2020 10:27:15 AM	40.7	46.5	0.0	12.8	62.1	62.1	1.21	1.21	-0.72	-0.71	-7.87
GIW-13	3/11/2020 2:22:50 PM	37.9	44.6	0.0	17.5	74.9	75.0	4.89	3.14	-0.56	-0.55	-6.79
GIW-13	3/11/2020 2:27:45 PM	36.7	43.8	0.0	19.5	75.5	75.5	5.30	3.74	-0.56	-0.55	-6.61
GIW-13	3/17/2020 11:15:39 AM	44.7	47.8	0.0	7.5	54.4	54.4	4.10	4.10	-0.77	-0.77	-7.83
GIW-13	3/23/2020 1:54:26 PM	47.2	43.8	0.0	9.0	50.4	50.4	1.66	0.55	-0.69	-0.69	-8.09
GIW-13	3/31/2020 1:56:30 PM	46.7	45.8	0.0	7.5	68.1	68.2	3.42	2.73	-1.02	-1.03	-14.08
LCS-1D	3/12/2020 8:43:33 AM	56.0	37.0	1.4	5.6	53.6	53.6	5.56	5.56	-2.72	-2.71	-14.55
LCS-1D	3/23/2020 1:15:49 PM	53.5	38.3	1.0	7.2	51.5	51.6	3.68	3.88	-2.20	-2.19	-13.87
LCS-2D	3/6/2020 9:43:19 AM	56.2	43.7	0.0	0.1	51.6	51.6	5.41	2.89	-20.07	-20.07	-20.07
LCS-2D	3/25/2020 2:09:18 PM	55.2	44.8	0.0	0.0	69.3	69.4	7.06	11.01	-16.36	-16.36	-17.99
LCS-3D	3/5/2020 2:14:21 PM	26.4	62.0	0.0	11.6	125.6	125.3	26.00	17.20	-9.58	-9.03	-8.32
LCS-3D	3/25/2020 11:41:30 AM	26.4	73.6	0.0	0.0	125.6	125.6	11.30	23.60	-8.92	-9.09	-12.81
LCS-4B	3/4/2020 2:09:26 PM	3.9	18.6	15.9	61.6	66.8	66.8	3.51	1.66	-11.65	-11.71	-18.18
LCS-4B	3/4/2020 2:10:21 PM	3.8	17.4	16.1	62.7	67.2	67.2	4.98	1.17	-9.95	-9.95	-18.18
LCS-4B	3/16/2020 8:03:51 AM	4.6	15.6	16.6	63.2	40.6	40.6	3.71	3.71	-7.09	-7.09	-19.03
LCS-4B	3/16/2020 8:05:33 AM	2.7	9.4	18.3	69.6	40.6	40.7	1.43	1.32	-1.59	-1.59	-18.99
LCS-5A	3/2/2020 11:34:12 AM	56.8	41.0	0.0	2.2	81.7	81.6	10.12	10.83	-10.82	-10.52	-12.93
LCS-5A	3/9/2020 11:46:28 AM	57.2	39.5	0.0	3.3	76.8	76.6	4.74	8.21	-10.62	-10.62	-12.48
LCS-5A	3/16/2020 10:42:14 AM	58.1	40.9	0.0	1.0	71.3	71.1	14.33	10.68	-10.87	-10.91	-13.14
LCS-5A	3/23/2020 9:28:19 AM	57.6	42.2	0.0	0.2	74.5	74.4	7.75	14.76	-10.87	-10.91	-13.10
LCS-5B	3/2/2020 1:40:29 PM	55.0	41.3	0.0	3.7	132.6	132.6	12.35	10.18	-11.45	-11.50	-13.06

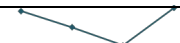



March 2020 Wellfield Monitoring Data - Bridgeton Landfill

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-5B	3/2/2020 1:41:46 PM	55.0	41.0	0.0	4.0	132.0	132.1	6.99	2.47	-11.50	-11.83	-13.14
LCS-5B	3/9/2020 11:49:16 AM	54.9	40.2	0.0	4.9	124.2	124.8	33.19	19.65	-10.19	-10.19	-13.22
LCS-5B	3/16/2020 10:54:15 AM	54.8	42.9	0.0	2.3	122.1	122.3	3.55	4.35	-11.63	-11.75	-13.18
LCS-5B	3/23/2020 9:41:17 AM	54.7	43.1	0.0	2.2	129.4	130.0	20.49	16.46	-11.12	-11.59	-13.23
LCS-6B	3/2/2020 2:11:11 PM	54.3	41.1	0.0	4.6	66.8	67.0	7.56	5.72	-0.04	-0.04	-12.85
LCS-6B	3/2/2020 2:13:27 PM	54.4	41.3	0.0	4.3	67.7	67.7	7.54	6.98	-0.48	-0.48	-13.06
LCS-6B	3/9/2020 11:53:54 AM	52.5	39.8	0.0	7.7	63.5	63.5	16.78	12.87	-0.37	-0.35	-12.85
LCS-6B	3/16/2020 2:12:04 PM	53.1	45.6	0.0	1.3	81.1	81.5	12.75	14.97	-0.03	-0.02	-12.30
LCS-6B	3/16/2020 2:13:01 PM	52.9	45.4	0.0	1.7	85.9	86.2	21.17	21.17	-0.28	-0.28	-12.09
LCS-6B	3/23/2020 10:57:59 AM	51.7	42.2	0.0	6.1	99.4	99.8	8.45	11.64	-2.84	-2.81	-13.02
SEW-002	3/6/2020 2:30:07 PM	48.0	21.8	2.7	27.5	60.7	60.7	3.70	3.70	-16.05	-16.11	-16.22
SEW-002	3/25/2020 10:31:47 AM	43.2	21.3	3.8	31.7	53.7	53.7	5.83	4.92	-15.53	-15.53	-15.90
SEW-003	3/12/2020 9:16:05 AM	3.5	50.9	3.1	42.5	58.7	58.7	5.60	5.73	-0.07	-0.07	-19.62
SEW-003	3/23/2020 1:58:37 PM	3.2	40.0	5.1	51.7	57.0	57.0	4.40	4.88	-0.06	-0.07	-18.99
SEW-003	3/23/2020 2:00:01 PM	3.1	39.9	5.2	51.8	57.0	57.0	3.45	5.17	-0.06	-0.06	-19.11
T-56	3/3/2020 9:24:24 AM	55.3	36.8	0.0	7.9	47.2	47.3	10.35	11.83	-0.01	-0.02	-13.71
T-56	3/10/2020 2:41:04 PM	46.9	34.9	0.0	18.2	47.5	47.5	17.68	15.45	-0.03	-0.02	-13.83
T-56	3/17/2020 10:19:49 AM	54.6	37.5	0.1	7.8	49.6	49.6	13.13	13.13	-0.01	-0.01	-13.35
T-56	3/23/2020 11:43:59 AM	55.7	38.1	0.0	6.2	49.4	49.4	12.46	8.93	-0.01	-0.01	-13.40

ATTACHMENT D-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	December 2019	January 2020	February 2020	March 2020	><30°F	
GEW-002	112.2	110.7	110.1	111.3		
GEW-003	113.7	108.4	105.7	108.7		
GEW-004	111.0	106.7	105.5	108.7		
GEW-005	84.4	76.4	84.5	77.7		
GEW-006	85.1	81.2	78.7	78.6		
GEW-007	90.8	89.8	87.9	89.8		
GEW-008	112.2	110.7	110.0	111.5		
GEW-009	121.6	119.4	120.7	121.3		
GEW-010	92.9	79.8	65.0	95.6		
GEW-013A	193.6	192.9	192.3	191.6		
GEW-015	95.4	97.0	100.9	94.1		
GEW-016R	169.5	166.9	168.1	162.9		
GEW-018B	202.4	180.3	182.7	193.6		
GEW-019A	42.7	50.4	45.3	55.0		
GEW-039	106.5	106.2	104.8	107.5		
GEW-040	54.7	52.6	47.0	65.8		
GEW-041R	76.6	74.1	56.2	73.0		
GEW-042R	103.0	101.8	99.9	101.8		
GEW-043R	115.8	115.5	114.1	115.2		
GEW-044	69.1	70.5	54.4	68.4		
GEW-045R	91.0	89.0	83.5	90.1		
GEW-046R	88.9	84.5	72.0	87.2		
GEW-047R	103.8	98.9	97.4	99.1		
GEW-048	97.0	94.3	93.2	94.3		
GEW-049	83.2	90.8	65.9	73.6		
GEW-050	100.6	98.4	99.4	98.7		
GEW-051	120.3	117.7	116.9	118.9		
GEW-052	105.7	100.8	99.9	103.3		
GEW-053	142.3	141.9	141.5	142.4		
GEW-054	146.3	146.3	146.3	146.3		
GEW-055	128.9	124.2	122.3	127.3		
GEW-056R	95.5	85.2	60.2	102.3		
GEW-057B	170.5	141.5	151.3	86.8		
GEW-058A	90.3	57.5	49.4	127.8		
GEW-059R	121.9	122.6	110.0	128.3		
GEW-067A	195.0	202.3	197.9	200.1		
GEW-068A	196.6	201.6	197.9	192.9		
GEW-078R	147.5	152.1	144.2	152.5		
GEW-082R	172.6	173.1	171.0	173.5		

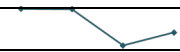
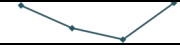

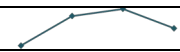
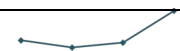
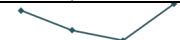
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	December 2019	January 2020	February 2020	March 2020	><30°F	
GEW-086	190.2	183.9	188.3	182.7		
GEW-087	187.6	179.7	195.0	171.0		
GEW-088	180.9	180.3	190.2	194.3		
GEW-090	194.3	162.8	166.1	167.6		
GEW-091	193.6	195.7	187.2	200.8		
GEW-100	76.6	138.3	37.2	190.5		
GEW-101	67.7	72.0	49.9	70.7		
GEW-102	48.2	41.6	54.7	72.3		
GEW-104	137.6	178.6	185.7	189.6		
GEW-105	132.3	120.2	127.5	125.6		
GEW-106	169.5	171.6	162.9	165.2		
GEW-107	146.2	128.4	111.6	120.7		
GEW-108	185.1	179.7	154.8	174.7		
GEW-109	104.3	104.7	82.7	91.8		
GEW-110	94.6	67.7	53.0	103.9		
GEW-113	170.4	171.9	176.4	175.8		
GEW-116	165.2	158.5	158.5	117.9		
GEW-117	167.6	149.8	120.7	146.6		
GEW-118	193.6	188.3	188.7	196.4		
GEW-120	122.5	122.3	98.9	65.3		
GEW-121	150.6	142.5	147.8	135.3		
GEW-122	97.9	89.3	90.1	96.7		
GEW-123	69.1	62.6	61.2	70.4		
GEW-124	63.4	58.0	43.7	54.2		
GEW-125	57.3	63.0	48.2	57.5		
GEW-126	61.6	66.3	47.0	58.9		
GEW-127	81.6	60.4	54.4	75.9		
GEW-128	--	--	--	--		Temporarily decommissioned
GEW-129	140.9	134.1	105.5	118.1		
GEW-130	158.1	159.4	152.9	154.4		
GEW-131	129.4	121.0	90.3	112.5		
GEW-132	127.3	126.4	121.0	125.8		
GEW-133	128.9	120.2	84.7	129.2		
GEW-134	73.2	69.8	76.1	60.4		
GEW-135	109.0	97.9	102.6	107.8		
GEW-137	65.1	64.0	53.9	75.2		
GEW-138	59.8	51.0	38.9	--		Temporarily decommissioned

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	December 2019	January 2020	February 2020	March 2020	><30°F	
GEW-139	141.5	143.2	183.3	149.9		
GEW-140	137.4	120.2	81.8	124.5		
GEW-144	--	--	47.0	72.5		
GEW-145	49.4	43.1	56.1	63.9		
GEW-147	154.4	178.4	163.3	156.5		
GEW-148	151.3	145.2	160.7	152.5		
GEW-149	105.7	59.2	75.3	52.6		
GEW-150	154.4	128.9	186.4	168.5		
GEW-151	87.5	64.2	93.1	80.1		
GEW-152	94.1	80.0	84.7	88.1		
GEW-153	92.7	88.2	88.6	96.4		
GEW-154	--	--	--	--		Temporarily decommissioned
GEW-155	--	--	--	--		Temporarily decommissioned
GEW-156	124.7	93.1	81.7	94.1		
GEW-157	75.5	77.3	61.5	76.8		
GEW-158	92.2	92.0	82.1	94.6		
GEW-159	102.1	78.7	38.4	--		Temporarily decommissioned
GEW-160	92.9	63.7	46.8	78.2		
GEW-161	106.9	89.3	61.9	82.6		
GEW-162	80.6	64.2	38.3	75.4		
GEW-163	146.3	130.9	136.9	134.1		
GEW-164	150.6	154.9	147.3	148.4		
GEW-165	149.1	144.5	150.6	158.9		
GEW-166	184.5	167.1	175.3	169.5		
GEW-167	146.3	143.2	140.6	138.7		
GEW-168	133.8	129.3	122.6	118.4		
GEW-169	117.6	94.3	74.3	99.9		
GEW-170	129.0	123.0	104.8	121.8		
GEW-171	66.1	63.0	44.1	78.8		
GEW-172	147.5	159.8	155.6	149.9		
GEW-173	--	--	--	--		Temporarily decommissioned
GEW-174	129.5	116.6	119.4	118.9		
GEW-175	145.6	144.9	141.5	137.1		
GEW-176	102.1	61.2	37.3	--		Temporarily decommissioned
GEW-177	170.5	171.2	169.0	169.0		
GEW-178	74.5	71.5	54.5	74.1		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	December 2019	January 2020	February 2020	March 2020	><30°F	
GEW-179	68.0	68.1	75.7	88.2		
GEW-180	100.1	83.8	68.9	83.6		
GEW-181	102.8	65.3	66.1	78.0		
GEW-182	--	--	--	--		Temporarily decommissioned
GEW-184	--	--	--	--		Temporarily decommissioned
GEW-185	132.3	112.7	91.7	109.0		
GEW-186	82.4	70.7	68.4	94.1		
GEW-187	121.0	113.0	98.7	104.8		
GEW-188	--	--	--	--		Temporarily decommissioned
GEW-217	186.4	185.0	52.9	100.4		
GEW-218	110.2	97.2	98.8	105.5		
GEW-219	176.0	164.7	140.6	--		Temporarily decommissioned
GEW-220	182.1	151.7	136.5	185.7		
GEW-221	96.3	84.4	81.2	95.8		
GEW-222	104.8	87.9	72.5	81.2		
GEW-223	129.7	129.8	73.4	109.2		
GEW-224	171.0	162.9	144.5	154.8		
GEW-225	126.4	180.3	167.6	169.9		
GEW-226	183.9	184.5	180.9	180.4		
GEW-227	198.7	191.6	201.6	187.7		
GEW-228	197.2	202.3	195.2	192.3		
GEW-229	103.4	87.7	81.7	89.9		
GEW-230	167.6	156.0	156.5	158.5		
GEW-231	119.4	117.0	118.0	--		Temporarily decommissioned
GEW-232	79.9	139.0	193.5	168.5		
GEW-233	54.7	127.2	145.2	97.2		
GEW-234	191.7	197.9	201.6	199.8		
GEW-235	128.6	121.9	116.3	120.3		
GEW-236	204.7	203.9	203.9	207.0		
GEW-237	148.1	146.3	144.9	156.9		
GEW-238	200.8	187.6	187.6	196.4		
GEW-239	192.3	203.9	203.9	203.9		
GEW-240	154.0	205.4	205.4	205.4		
GEW-2S	66.1	62.9	54.3	67.5		
GIW-01	102.3	91.0	98.7	148.8		
GIW-02	77.5	58.0	47.9	84.2		

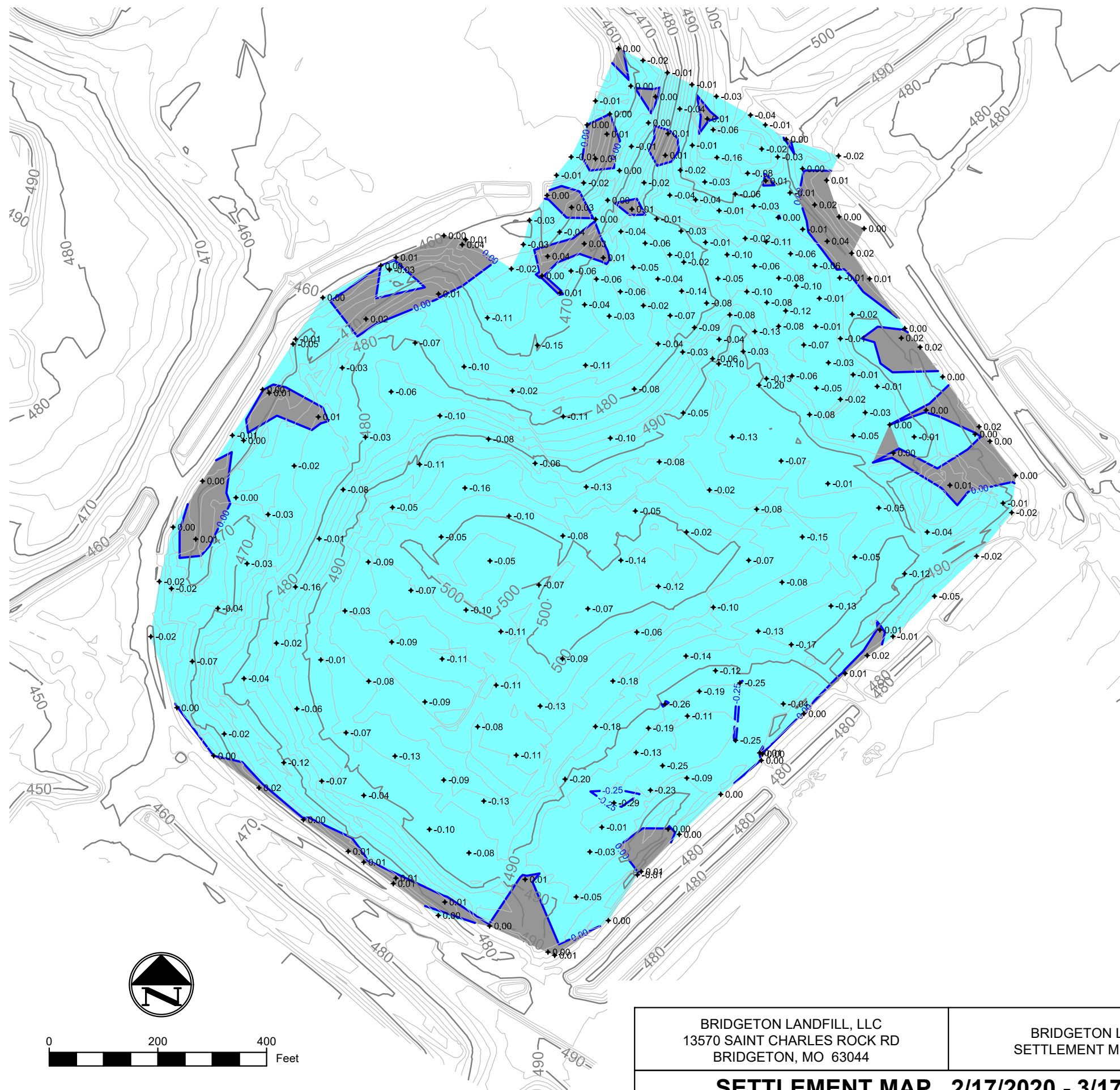
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	December 2019	January 2020	February 2020	March 2020	><30°F	
GIW-03	74.8	56.0	59.5	74.8		
GIW-04	79.8	53.8	45.9	75.2		
GIW-05	69.8	52.1	46.4	76.4		
GIW-06	77.5	54.7	46.4	76.6		
GIW-07	75.9	56.5	46.9	74.1		
GIW-08	70.7	53.9	47.0	79.8		
GIW-09	72.3	52.3	46.7	74.3		
GIW-10	75.7	54.7	47.3	73.6		
GIW-11	77.5	55.6	47.6	75.2		
GIW-12	73.0	57.2	47.4	76.3		
GIW-13	72.3	58.0	47.5	75.5		
LCS-1D	55.5	63.0	54.2	53.6		
LCS-2D	67.6	60.7	37.6	69.4		
LCS-3D	140.6	142.9	109.7	125.6		
LCS-4B	52.6	50.5	46.5	67.2		
LCS-5A	83.5	80.5	74.7	81.7		
LCS-5B	135.5	128.1	130.9	132.6		
LCS-6B	68.3	58.8	48.5	99.8		
SEW-002	52.5	66.0	47.1	60.7		
SEW-003	65.5	66.0	83.3	58.7		
T-56	53.6	49.8	43.4	49.6		

-- = 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	
2	-4.00	-3.00	0.00	
3	-3.00	-2.00	0.00	
4	-2.00	-1.00	0.00	
5	-1.00	0.00	1,406,850.69	
6	0.00	1.00	125,599.94	

LEGEND

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
 - 12-10-2019 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - .03 SPOT ELEVATION DIFFERENCE (2-17-2020 to 3-17-2020)
 - 3-2020** *SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.31' PER 29 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR MARCH 2020

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 10, 2019.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 2-17-20 FROM SPOT ELEVATIONS SURVEYED ON 3-17-20.
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	Engineering for a Better World FEEZOR ENGINEERING, INC.
SETTLEMENT MAP 2/17/2020 - 3/17/2020		MARCH 2020 DESIGNED BY: IN APPROVED BY: DRF
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\jml\Dropbox (Feezor Engineering)\Bridgeton\100-149BT-145 (Agreed Order Reporting)\Monthly Reports\202003-2020 Report\Internal Draft\Site Data\settlement\Settlement And Fill 3-17-2020 Rev 4-20-2020.dwg		REVISION DATE
		DRAWING NO.: 001

ATTACHMENT F

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant

March 2020

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
3/1/2020				0
3/2/2020				0
3/3/2020				0
3/4/2020				0
3/5/2020				0
3/6/2020				0
3/7/2020				0
3/8/2020				0
3/9/2020				0
3/10/2020				0
3/11/2020				0
3/12/2020				0
3/13/2020				0
3/14/2020				0
3/15/2020				0
3/16/2020	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
3/17/2020				0
3/18/2020				0
3/19/2020				0
3/20/2020				0
3/21/2020				0
3/22/2020				0
3/23/2020				0
3/24/2020				0
3/25/2020				0
3/26/2020				0
3/27/2020				0
3/28/2020				0
3/29/2020				0
3/30/2020				0
3/31/2020				0
Total				0

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
3/1/2020			247,574
3/2/2020			142,280
3/3/2020			143,362
3/4/2020			147,631
3/5/2020			160,118
3/6/2020			158,375
3/7/2020			163,543
3/8/2020			164,708
3/9/2020			156,580
3/10/2020			153,792
3/11/2020			152,399
3/12/2020			146,645
3/13/2020			268,067
3/14/2020			277,463
3/15/2020			246,640
3/16/2020	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	124,650
3/17/2020			111,994
3/18/2020			112,751
3/19/2020			168,790
3/20/2020			232,529
3/21/2020			201,878
3/22/2020			130,481
3/23/2020			129,996
3/24/2020			126,510
3/25/2020			128,622
3/26/2020			167,745
3/27/2020			241,893
3/28/2020			242,570
3/29/2020			238,554
3/30/2020			248,393
3/31/2020			169,836
Total			5,506,369

ATTACHMENT G

VOLUMES OF LEACHATE PROCESSED

Bridgeton Landfill - Leachate Volumes
March 2020

Total volume of leachate from the individual leachate collection sumps during the month. Additional non-LCS leachate was collected and the total volume was 1,902,657 gallons. Therefore, the total leachate collected was 3,691,329 gallons.

ID	Volume
LCS -1D	0
LCS-2D	0
LCS-3D	208,877
LCS-4B	0
LCS-5A	1,649,280
LCS-5B	39,936
LCS-6B	4,564