

# Bridgeton Landfill, LLC

## Monthly Data Submittals

May 2020

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

### Contents:

#### Commentary on Data

Attachment A	Daily Flare Monitoring Data
• A-1	Flow Data Table
• A-2	Flow Data Graphs
Attachment B	Well Condition/Status Update
Attachment C	Laboratory Data
• C-1	Lab Analyses Summary
• C-2	Lab Analyses Reports
Attachment D	Gas Wellfield Data
• D-1	Wellfield Data Table
• D-2	Maximum Wellhead Temperature Table
Attachment E	Settlement Front Map
Attachment F	Liquid Characterization Data and Discharge Log
Attachment G	Volumes of Leachate Processed

### Provided Separately:

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

June 20, 2020

## **Commentary on Data**

June 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 1,109 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 May 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 12 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, 5 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. Three (3) vertical wells (excluding GIW wells) increased by 30°F or more during this reporting period. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period, with the exception of GEW-054 (146.3°F). Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (60 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 will continue through 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 0.26 feet over 25 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.

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**ATTACHMENT A**

**DAILY FLARE MONITORING DATA**

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**ATTACHMENT A-1**

**FLOW DATA TABLE**

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Daily Flare Monitoring Data - Bridgeton Landfill  
May 2020

Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
5/1/2020	0	1,125	0	1,125
5/2/2020	0	1,159	0	1,159
5/3/2020	0	1,130	0	1,130
5/4/2020	197	913	0	1,110
5/5/2020	129	941	0	1,070
5/6/2020	0	1,081	0	1,081
5/7/2020	0	1,108	0	1,108
5/8/2020	235	860	0	1,095
5/9/2020	0	1,104	0	1,104
5/10/2020	0	1,092	0	1,092
5/11/2020	0	1,089	0	1,089
5/12/2020	0	1,087	0	1,088
5/13/2020	0	1,080	0	1,081
5/14/2020	0	1,110	0	1,110
5/15/2020	0	1,112	0	1,113
5/16/2020	0	1,112	0	1,112
5/17/2020	0	1,102	0	1,102
5/18/2020	0	1,082	0	1,082
5/19/2020	0	1,066	0	1,066
5/20/2020	0	1,065	0	1,065
5/21/2020	0	1,071	0	1,071
5/22/2020	0	951	17	968
5/23/2020	0	1,196	0	1,196
5/24/2020	0	1,224	0	1,224
5/25/2020	0	1,219	0	1,219
5/26/2020	0	1,158	0	1,158
5/27/2020	706	380	0	1,086
5/28/2020	1,129	0	0	1,129
5/29/2020	1,113	0	0	1,113
5/30/2020	1,105	0	0	1,105
5/31/2020	1,116	0	0	1,116
<b>AVERAGE</b>	<b>185</b>	<b>923</b>	<b>1</b>	<b>1,109</b>

\* 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

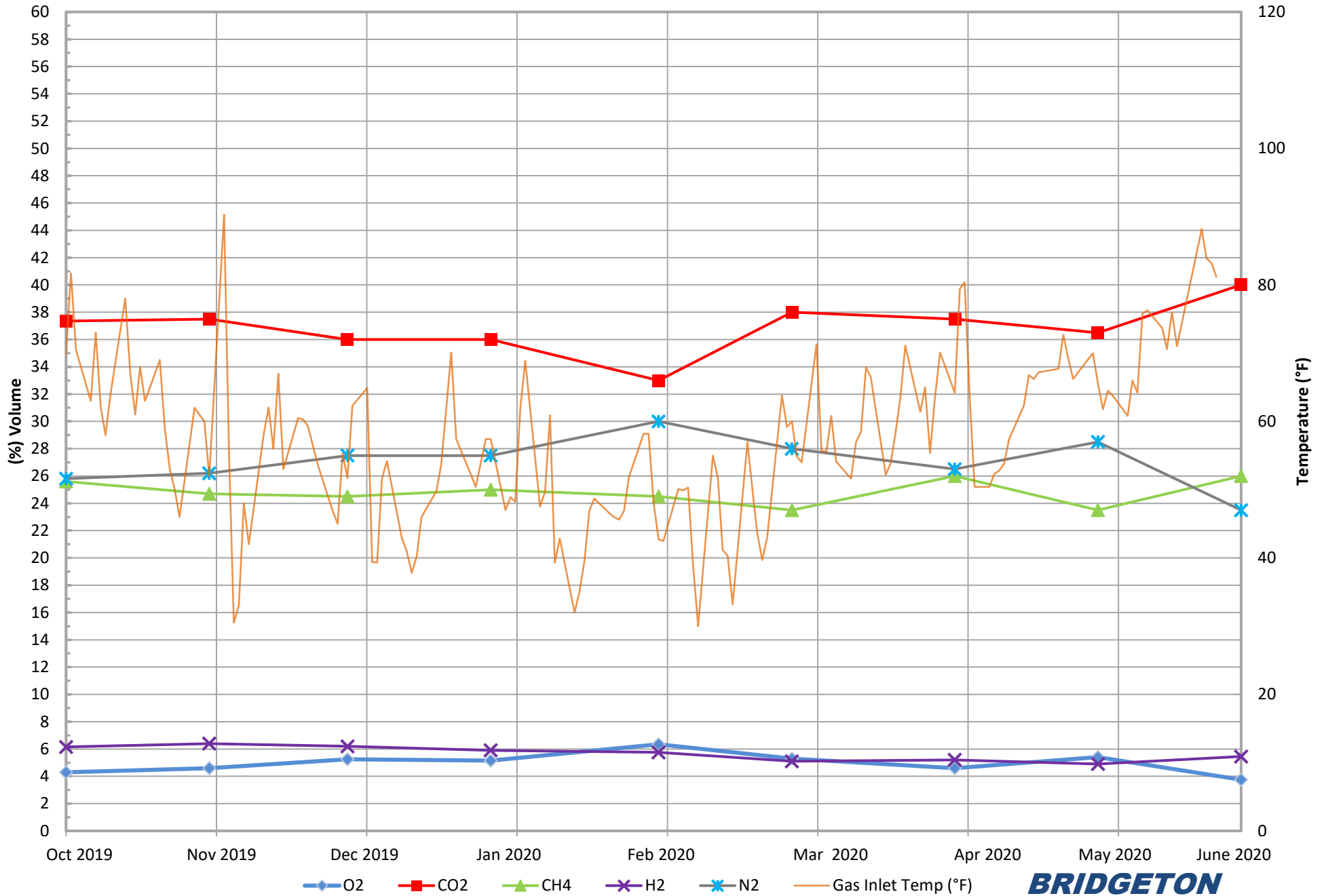
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**ATTACHMENT A-2**

**FLOW DATA GRAPHS**

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# Combined Inlet Gas and Temperature\*

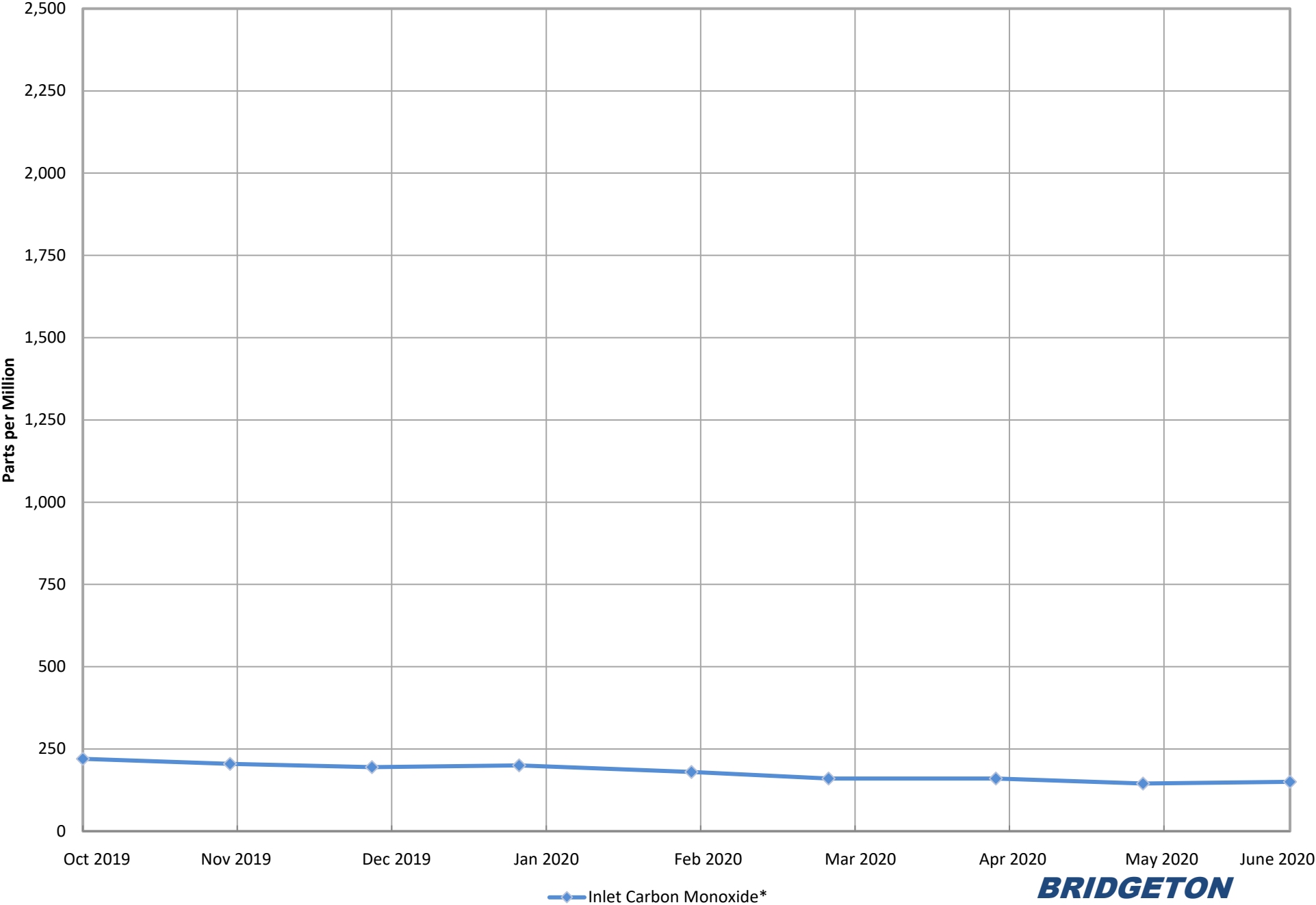


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\*Gas data collected from Laboratory Reports. Temperature data collected from field readings.



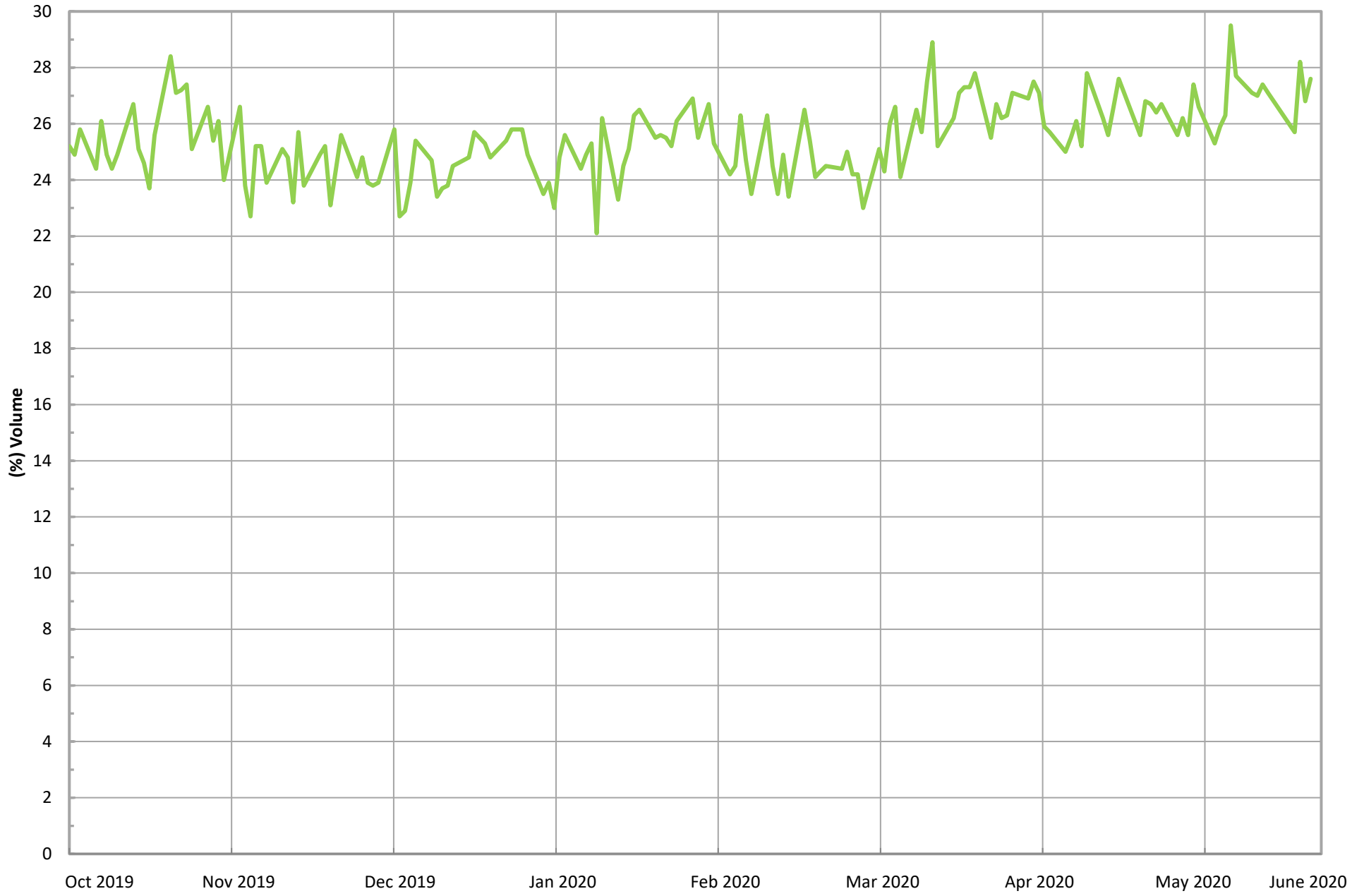
# Combined Inlet Carbon Monoxide\*



\*Data collected from Laboratory Reports.

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# Combined Inlet Methane (Field Data)\*

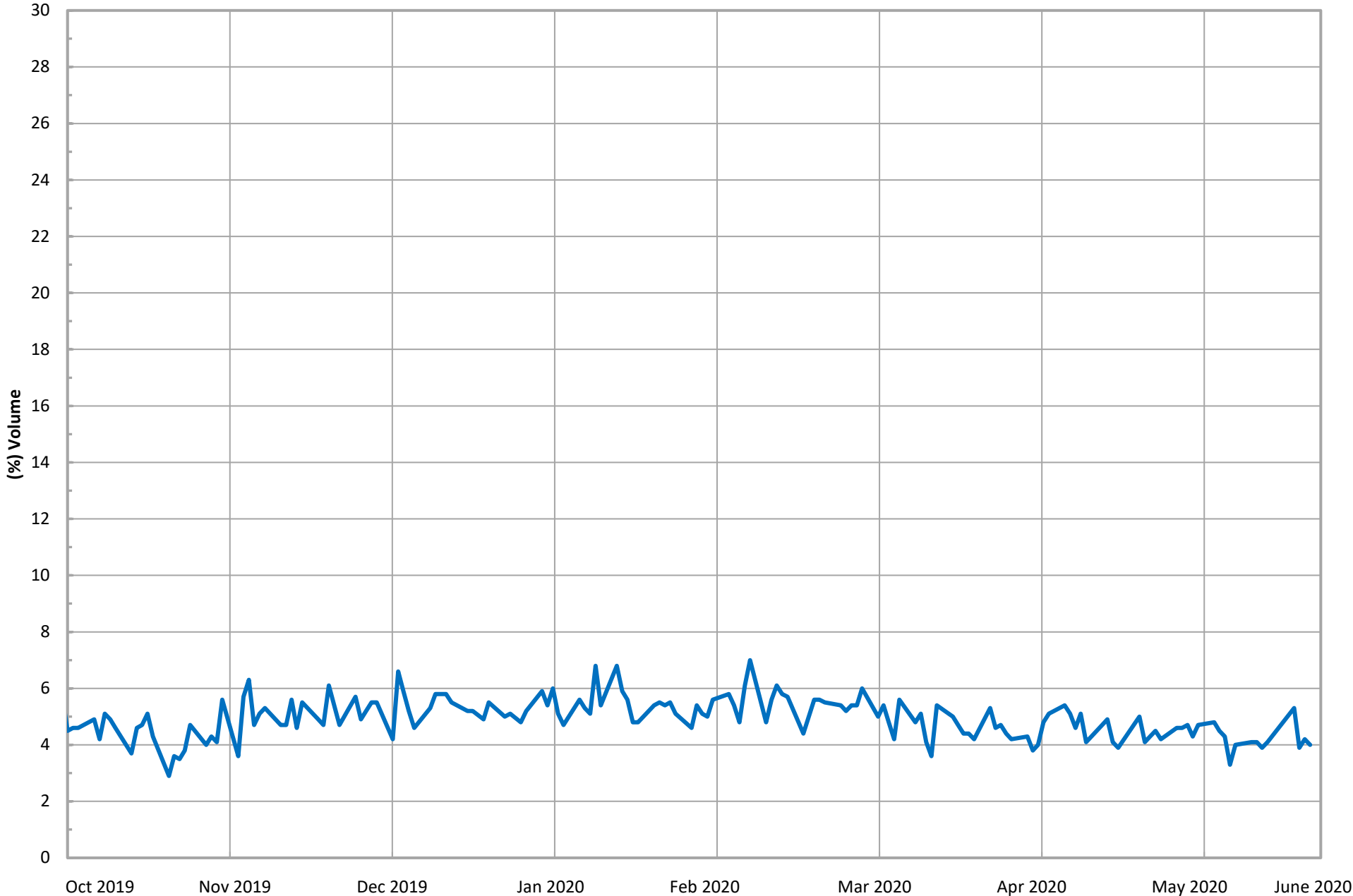


\*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)\*

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# Combined Inlet Oxygen (Field Data)\*

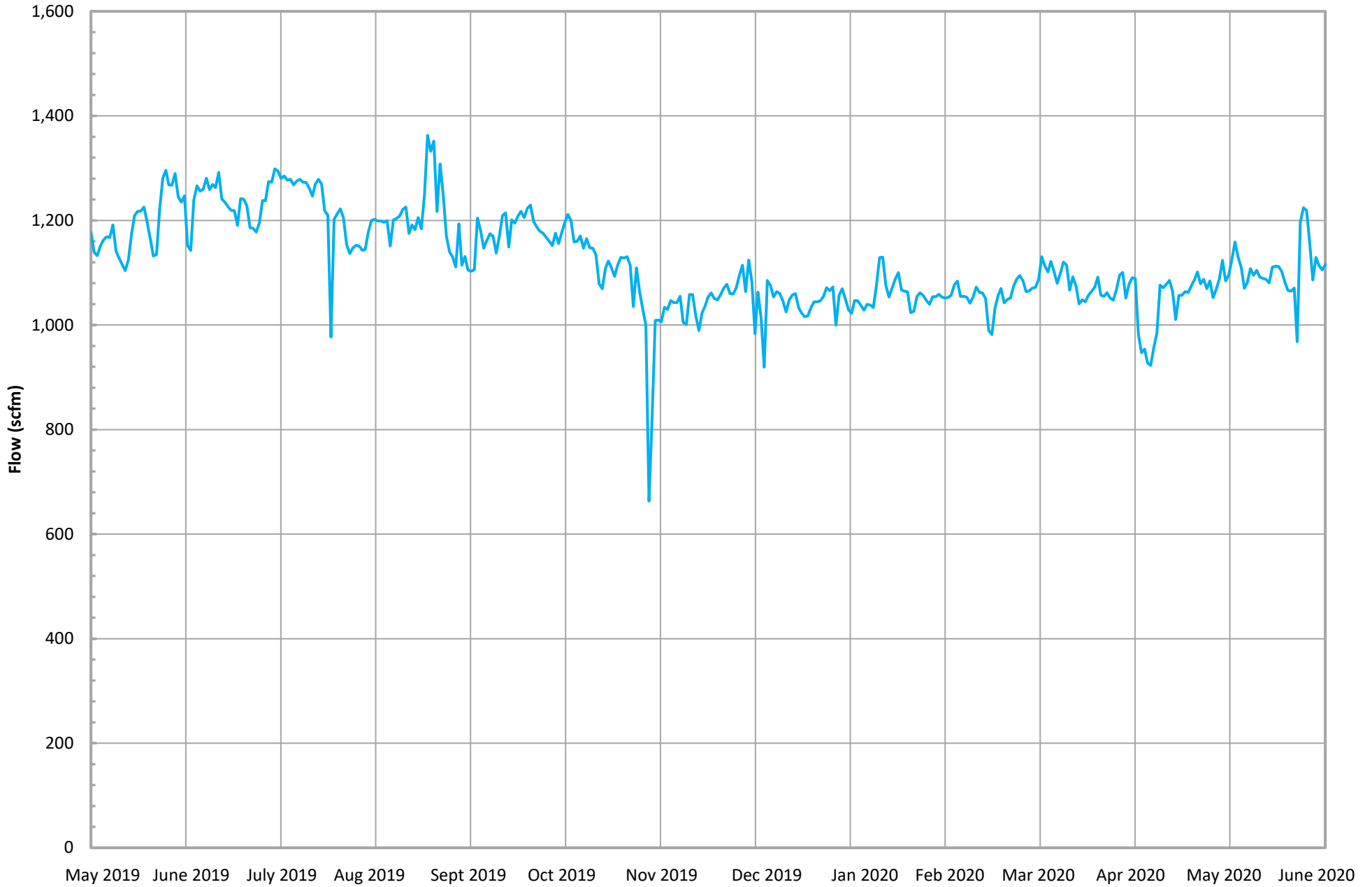


\*Gas data collected from field monitoring data

— Combined Inlet Oxygen (Field Data)\*

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# Total Combined Flow (scfm)\*



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

— Total Combined Flow (scfm)\*

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**ATTACHMENT B**

**WELL CONDITON/STATUS REPORT**

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## May 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	

## May 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	Operational	
GEW-145	Operational	
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Operational	
GEW-152	Operational	
GEW-153	Operational	

## May 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	



## May 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	

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**ATTACHMENT C**

**LABORATORY DATA**

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**ATTACHMENT C-1**

**LABORATORY ANALYSES SUMMARY**

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Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
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-002	4/7/2020	53	43	ND	3.9	ND	ND	
GEW-002	5/12/2020	51	42	ND	6.4	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-02S	4/7/2020	54	34	2.3	9.6	ND	ND	
GEW-02S	4/28/2020	54	34	2.3	9.1	ND	ND	
GEW-02S	5/12/2020	57	35	1.7	6.6	ND	ND	
GEW-02S	5/27/2020	54	34	2.6	9.4	ND	ND	See Note 4
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-003	4/8/2020	51	42	ND	6.2	ND	ND	
GEW-003	5/12/2020	51	42	ND	7.1	ND	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-004	4/7/2020	51	41	ND	6.8	ND	ND	
GEW-004	5/12/2020	49	40	ND	9.5	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-005	4/8/2020	52	38	ND	9.1	ND	ND	
GEW-005	5/12/2020	49	38	ND	12	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-006	4/8/2020	54	39	ND	6.8	ND	ND	
GEW-006	5/12/2020	54	39	ND	5.8	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-007	4/6/2020	52	40	ND	6.9	ND	ND	
GEW-007	5/11/2020	53	42	ND	4.4	ND	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-008	4/6/2020	51	43	ND	3.6	1.2	ND	
GEW-008	5/11/2020	51	44	ND	3.2	0.96	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-009	4/7/2020	49	42	ND	7.6	0.62	ND	
GEW-009	5/11/2020	49	43	ND	6.3	0.60	ND	
GEW-040	1/15/2020	61	34	ND	4.7	ND	ND	
GEW-040	2/17/2020	57	32	ND	10.0	ND	ND	
GEW-040	3/9/2020	51	33	ND	15	ND	ND	
GEW-040	4/7/2020	51	33	ND	14	ND	ND	
GEW-040	5/11/2020	54	35	ND	10	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
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-041R	4/7/2020	51	35	ND	13	ND	ND	
GEW-041R	5/11/2020	52	36	ND	11	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-042R	4/7/2020	53	39	ND	7.1	ND	ND	
GEW-042R	5/11/2020	53	40	ND	6.9	ND	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-043R	4/7/2020	51	41	ND	6.8	0.13	ND	
GEW-043R	5/11/2020	52	41	ND	6.0	0.098	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-044	4/7/2020	50	37	ND	12	ND	ND	
GEW-044	5/12/2020	41	34	ND	24	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-045R	4/7/2020	52	39	ND	7.9	ND	ND	
GEW-045R	5/12/2020	51	39	ND	9.1	ND	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-046R	4/7/2020	49	38	ND	11	ND	ND	
GEW-046R	5/12/2020	47	38	ND	14	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-047R	4/8/2020	48	40	ND	12	ND	ND	
GEW-047R	5/12/2020	48	40	ND	11	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-048	4/8/2020	52	40	ND	7.0	ND	ND	
GEW-048	5/12/2020	52	40	ND	6.6	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-049	4/7/2020	52	42	ND	5.5	ND	ND	
GEW-049	5/12/2020	45	37	ND	16	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	
GEW-050	3/9/2020	51	38	ND	9.7	ND	ND	
GEW-050	4/7/2020	52	38	ND	8.6	ND	ND	
GEW-050	5/11/2020	52	39	ND	9.2	ND	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	

### Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
		(%)						
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-051	4/7/2020	52	42	ND	4.7	0.87	ND	
GEW-051	5/11/2020	52	43	ND	4.0	0.88	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-052	4/7/2020	48	38	ND	13	ND	ND	
GEW-052	5/11/2020	48	39	ND	12	ND	ND	
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-053	4/7/2020	48	43	ND	4.7	3.2	54	
GEW-053	5/11/2020	48	44	ND	4.7	3.1	60	
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-054	4/7/2020	51	43	ND	3.4	1.5	ND	
GEW-054	5/11/2020	51	44	ND	ND	1.5	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	
GEW-055	4/7/2020	49	42	ND	6.7	1.2	ND	
GEW-055	5/11/2020	49	43	ND	5.9	1.1	ND	
Flare Station <sup>2</sup>	1/3/2020	25.0	36.0	5.2	27.5	5.9	200	See Note 9
Flare Station <sup>2</sup>	2/6/2020	24.5	33.0	6.4	30.0	5.8	180	See Note 9
Flare Station <sup>2</sup>	3/4/2020	23.5	38.0	5.3	28.0	5.1	160	See Note 9
Flare Station <sup>2</sup>	4/6/2020	26.0	37.5	4.6	26.5	5.2	160	See Note 9
Flare Station <sup>2</sup>	5/5/2020	23.5	36.5	5.4	28.5	4.9	145	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.

<sup>2</sup> = Flare Station measured at EPA Method 2 flow port (blower outlet)

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
South Quarry								
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-010	4/8/2020	53	43	ND	ND	0.096	ND	
GEW-010	5/12/2020	53	43	ND	ND	0.073	ND	
GEW-013A	1/16/2020	9.5	61	ND	ND	25	860	
GEW-013A	4/7/2020	13	60	ND	ND	22	680	
GEW-015	1/16/2020	26	46	ND	8.4	18	610	
GEW-015	4/9/2020	22	49	ND	11	17	530	
GEW-016R	1/16/2020	9.2	54	ND	8.1	27	880	
GEW-016R	4/9/2020	8.2	58	ND	6.6	26	780	
GEW-018B	1/21/2020	7.1	33	4.4	37	18	670	
GEW-018B	4/13/2020	6.2	44	2.5	23	24	630	
GEW-019A	1/21/2020	1.8	57	3.7	12	25	1,200	
GEW-019A	4/10/2020	0.66	55	5.5	19	18	870	See Note 4
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-039	4/9/2020	22	30	3.1	44	ND	ND	
GEW-039	5/13/2020	27	32	2.5	39	ND	ND	
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-056R	4/8/2020	44	45	ND	6.2	3.6	67	
GEW-056R	5/12/2020	42	43	ND	12	2.8	53	
GEW-057B	1/13/2020	5.2	52	ND	2.8	38	870	
GEW-057B	4/9/2020	5.0	55	ND	3.0	34	600	
GEW-058A	1/10/2020	0.52	38	3.9	23	34	1,500	
GEW-058A	4/9/2020	7.7	32	3.5	42	14	400	
GEW-059R	1/9/2020	20	38	ND	19	22	640	
GEW-059R	4/8/2020	13	40	ND	22	23	520	
GEW-067A	1/16/2020	7.8	54	ND	4.2	33	670	
GEW-067A	4/6/2020	6.0	56	ND	ND	31	570	
GEW-068A	1/14/2020	1.0	54	ND	ND	38	1,400	
GEW-068A	4/9/2020	13	52	ND	6.1	27	920	
GEW-078R	1/20/2020	8.0	25	1.9	53	12	470	
GEW-078R	4/10/2020	8.6	27	1.6	51	11	400	
GEW-082R	1/20/2020	7.6	32	1.4	39	20	680	
GEW-082R	4/10/2020	7.3	34	ND	40	17	550	
GEW-086	1/16/2020	7.1	23	9.5	48	12	300	See Note 4
GEW-086	4/6/2020	6.1	52	ND	ND	36	910	
GEW-087	1/16/2020	10	38	5.6	32	13	360	See Note 4
GEW-087	4/9/2020	10	30	5.6	52	2.8	80	See Note 4
GEW-088	1/16/2020	1.9	40	3.3	19	35	1,100	
GEW-088	4/7/2020	1.7	45	ND	15	35	1,000	
GEW-090	1/16/2020	18	37	ND	26	17	420	
GEW-090	4/6/2020	20	42	ND	18	19	380	
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-091	4/8/2020	6.0	49	ND	5.4	36	230	
GEW-091	5/13/2020	2.3	55	ND	4.3	36	380	
GEW-100	1/14/2020	9.7	51	2.9	9.9	26	740	
GEW-100	4/13/2020	11	64	ND	ND	22	540	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-101	1/14/2020	47	49	ND	3.0	ND	ND	
GEW-101	4/9/2020	38	60	ND	ND	ND	ND	
GEW-102	1/13/2020	21	36	6.0	20	16	110	See Note 4
GEW-102	4/9/2020	25	50	ND	ND	21	120	
GEW-104	1/13/2020	22	38	ND	28	10	270	
GEW-104	4/9/2020	24	40	ND	26	8.4	170	
GEW-105	1/10/2020	35	44	ND	6.1	14	440	
GEW-105	4/9/2020	38	45	ND	4.9	11	280	
GEW-106	1/10/2020	14	46	ND	18	20	620	
GEW-106	4/9/2020	13	50	ND	12	23	540	
GEW-107	1/9/2020	19	49	2.5	8.6	21	770	
GEW-107	4/8/2020	26	52	ND	ND	18	570	
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-108	4/9/2020	37	48	ND	3.8	10	200	
GEW-108	5/13/2020	37	48	ND	4.0	9.5	180	
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-109	4/9/2020	41	42	2.1	15	0.41	ND	
GEW-109	5/13/2020	41	44	1.5	13	0.37	ND	
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-110	4/8/2020	37	48	ND	4.9	8.9	150	
GEW-110	5/12/2020	25	32	8.0	29	6.1	98	See Note 3
GEW-113	1/16/2020	10	54	1.7	13	21	910	
GEW-113	4/9/2020	9.7	61	ND	6.1	22	870	
GEW-116	1/21/2020	18	43	4.7	28	5.7	430	
GEW-116	4/8/2020	31	64	ND	ND	0.91	48	
GEW-117	1/21/2020	44	45	2.2	7.8	0.61	66	
GEW-117	4/8/2020	33	58	ND	5.7	1.9	160	
GEW-118	1/21/2020	3.1	41	ND	29	26	1,300	
GEW-118	4/10/2020	1.8	58	ND	3.2	34	640	
GEW-120	1/21/2020	35	35	3.5	26	0.12	52	
GEW-120	4/13/2020	48	49	ND	ND	0.17	ND	
GEW-121	1/21/2020	29	46	ND	17	6.5	240	
GEW-121	4/13/2020	33	55	ND	3.9	6.3	210	
GEW-122	1/20/2020	32	33	ND	26	7.4	330	
GEW-122	4/13/2020	38	37	ND	18	6.9	260	
GEW-123	1/21/2020	26	51	ND	17	4.0	590	
GEW-123	4/13/2020	29	59	ND	9.6	1.8	250	
GEW-124	1/20/2020	41	32	6.2	21	ND	ND	See Note 3
GEW-124	4/13/2020	44	37	4.2	15	ND	ND	
GEW-125	1/10/2020	35	61	ND	ND	1.1	170	
GEW-125	4/13/2020	35	56	ND	6.1	2.1	280	
GEW-126	1/15/2020	16	45	1.8	24	14	1,000	
GEW-126	4/14/2020	20	50	2.0	16	12	730	
GEW-127	1/13/2020	13	56	ND	6.2	23	1,800	
GEW-127	4/14/2020	12	45	4.5	26	12	810	
GEW-129	1/13/2020	32	52	ND	11	3.8	410	
GEW-129	4/14/2020	35	56	ND	4.8	3.3	280	
GEW-130	1/10/2020	21	43	ND	17	17	1,200	
GEW-130	4/14/2020	22	45	ND	17	14	930	
GEW-131	1/10/2020	44	42	ND	ND	11	540	



Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-131	4/14/2020	39	46	ND	ND	11	700	
GEW-132	1/21/2020	11	24	4.0	52	8.7	430	
GEW-132	4/10/2020	15	31	2.7	41	9.9	470	
GEW-133	1/21/2020	13	31	2.1	51	2.1	540	
GEW-133	4/10/2020	1.2	65	ND	3.9	27	1,300	
GEW-134	1/21/2020	5.9	28	4.3	55	6.4	250	
GEW-134	4/10/2020	8.0	35	4.4	44	7.9	280	
GEW-135	1/20/2020	2.4	31	4.6	48	14	560	
GEW-135	4/10/2020	3.5	50	1.7	19	26	690	
GEW-137	1/20/2020	38	40	ND	21	ND	ND	
GEW-137	4/9/2020	36	42	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-139	4/13/2020	17	40	3.6	22	17	760	
GEW-140	1/14/2020	23	38	ND	23	15	380	
GEW-140	4/13/2020	28	43	ND	13	14	370	
GEW-144	4/9/2020	36	34	6.8	24	0.050	ND	See Note 3
GEW-145	1/13/2020	23	48	ND	3.5	24	400	
GEW-145	4/9/2020	29	48	ND	ND	19	250	
GEW-147	1/16/2020	17	40	4.2	23	15	480	
GEW-147	4/9/2020	14	45	3.1	24	14	440	
GEW-148	1/16/2020	16	52	ND	ND	27	1,400	
GEW-148	4/9/2020	17	53	ND	5.3	23	1,100	
GEW-149	1/16/2020	7.0	19	2.2	71	0.81	61	
GEW-149	4/6/2020	7.2	24	1.7	65	1.4	45	
GEW-150	1/10/2020	32	45	ND	5.2	15	490	
GEW-150	4/9/2020	21	40	4.5	21	12	330	
GEW-151	1/16/2020	6.1	29	5.3	41	18	500	See Note 4
GEW-151	4/7/2020	5.3	30	6.7	41	16	390	See Note 4
GEW-152	1/13/2020	19	48	ND	10	22	760	
GEW-152	4/8/2020	18	50	1.7	12	18	430	
GEW-153	1/9/2020	26	28	2.1	41	2.7	120	
GEW-153	4/8/2020	21	30	ND	45	2.7	180	
GEW-156	1/9/2020	22	31	6.7	31	9.3	250	See Note 3
GEW-156	4/9/2020	30	44	ND	15	10	250	
GEW-157	1/10/2020	21	28	9.0	31	10	240	See Note 3
GEW-157	4/9/2020	34	41	2.8	10	12	220	
GEW-158	1/10/2020	23	44	ND	17	15	440	
GEW-158	4/9/2020	25	46	ND	16	12	320	
GEW-159	1/20/2020	2.0	5.6	19	71	3.1	240	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-160	4/8/2020	21	38	ND	24	15	340	
GEW-160	5/13/2020	22	39	ND	24	13	290	
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-161	4/8/2020	8.9	53	ND	5.5	30	990	
GEW-161	5/13/2020	6.3	56	ND	4.5	32	1,000	
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	
GEW-162	4/8/2020	12	66	ND	6.8	13	550	
GEW-162	5/13/2020	12	65	ND	9.0	13	510	
GEW-163	1/21/2020	30	55	ND	6.1	7.6	210	
GEW-163	4/13/2020	27	56	ND	12	4.1	130	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-164	1/20/2020	28	44	1.7	26	0.40	140	
GEW-164	4/13/2020	31	49	ND	18	0.072	ND	
GEW-165	1/20/2020	12	31	9.0	40	6.7	320	See Note 4
GEW-165	4/13/2020	17	45	4.9	25	7.9	290	
GEW-166	1/20/2020	5.5	55	ND	ND	36	2,500	
GEW-166	4/13/2020	5.5	55	ND	4.1	33	2,200	
GEW-167	1/20/2020	11	43	ND	12	32	1,600	
GEW-167	4/8/2020	11	43	3.1	15	27	1,100	
GEW-168	1/10/2020	30	51	ND	14	3.9	230	
GEW-168	4/14/2020	28	41	5.7	22	3.1	100	See Note 4
GEW-169	1/13/2020	9.4	42	4.4	28	16	860	
GEW-169	4/14/2020	17	47	2.0	23	11	570	
GEW-170	1/13/2020	12	38	6.1	29	15	1,000	See Note 4
GEW-170	4/13/2020	12	43	4.3	25	15	860	
GEW-171	1/14/2020	43	32	4.7	16	3.7	150	
GEW-171	4/13/2020	17	52	4.0	15	11	500	
GEW-172	1/14/2020	18	43	3.5	14	21	1,100	
GEW-172	4/13/2020	19	41	3.8	19	16	730	
GEW-174	1/13/2020	13	36	2.1	34	15	490	
GEW-174	4/13/2020	13	34	ND	48	4.2	74	
GEW-175	1/10/2020	25	33	5.5	33	3.4	150	See Note 4
GEW-175	4/9/2020	27	35	5.8	31	1.7	67	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-177	4/14/2020	11	55	ND	14	19	1,500	
GEW-178	1/13/2020	24	26	7.2	43	0.035	ND	See Note 4
GEW-178	4/9/2020	35	44	3.6	17	ND	ND	
GEW-179	1/13/2020	42	55	ND	ND	ND	ND	
GEW-179	4/9/2020	44	51	ND	4.6	ND	ND	
GEW-180	1/14/2020	32	60	1.7	6.0	0.19	110	
GEW-180	4/9/2020	31	62	ND	4.9	ND	ND	
GEW-181	1/15/2020	25	71	ND	ND	ND	ND	
GEW-181	4/9/2020	24	72	ND	3.5	ND	ND	
GEW-185	1/21/2020	35	47	ND	16	ND	ND	
GEW-185	4/13/2020	39	58	ND	ND	ND	ND	
GEW-186	1/13/2020	21	25	9.8	43	1.2	110	See Note 4
GEW-186	4/13/2020	35	42	2.8	18	0.97	84	
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-187	4/9/2020	40	52	ND	5.0	2.0	79	
GEW-187	5/13/2020	41	54	ND	ND	1.9	71	
GEW-217	1/13/2020	25	47	ND	2.9	23	480	
GEW-217	4/9/2020	10	55	ND	4.4	28	590	
GEW-218	1/13/2020	16	33	4.9	37	9.1	330	
GEW-218	4/9/2020	20	41	3.3	25	10	300	
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-220	4/8/2020	31	50	ND	4.4	13	420	
GEW-221	1/14/2020	25	45	ND	21	7.3	150	
GEW-221	4/9/2020	25	57	ND	9.7	6.4	160	
GEW-222	1/14/2020	31	45	ND	8.7	14	390	
GEW-222	4/13/2020	33	42	2.5	13	8.7	290	
GEW-223	1/14/2020	25	58	ND	3.2	13	790	
GEW-223	4/13/2020	31	64	ND	ND	2.3	230	
GEW-224	1/13/2020	25	58	ND	ND	14	1,100	
GEW-224	4/13/2020	31	59	ND	ND	7.3	540	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-225	1/14/2020	9.1	53	ND	4.1	32	2,700	
GEW-225	4/13/2020	17	51	1.8	9.4	21	1,400	
GEW-226	1/14/2020	9.0	37	ND	32	20	1,100	
GEW-226	4/13/2020	12	36	ND	35	15	690	
GEW-227	1/20/2020	1.8	36	5.4	32	25	570	See Note 4
GEW-227	4/10/2020	1.6	39	2.7	36	20	470	
GEW-228	1/20/2020	6.8	33	3.6	26	30	490	
GEW-228	4/9/2020	3.8	16	11	65	4.2	59	See Note 4
GEW-229	1/20/2020	2.0	11	11	75	0.86	30	See Note 4
GEW-229	4/6/2020	13	30	ND	46	9.7	270	
GEW-230	1/16/2020	0.57	9.4	15	72	3.2	200	See Note 4
GEW-230	4/6/2020	3.6	47	2.0	17	29	620	
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-232	4/9/2020	25	60	ND	7.0	6.3	240	
GEW-233	1/21/2020	6.9	40	ND	35	16	510	
GEW-233	4/10/2020	0.68	38	4.0	36	22	520	
GEW-234	1/16/2020	3.4	31	4.7	43	17	810	
GEW-234	4/10/2020	7.9	50	ND	12	27	1,100	
GEW-235	1/21/2020	24	49	ND	9.6	16	440	
GEW-235	4/13/2020	25	53	ND	8.1	12	320	
GEW-236	1/20/2020	2.8	38	4.1	17	37	470	
GEW-236	4/10/2020	2.9	41	4.1	20	31	320	
GEW-237	1/10/2020	24	34	5.9	32	4.2	150	See Note 4
GEW-237	4/8/2020	32	42	4.2	19	2.9	100	
GEW-238	1/16/2020	13	54	ND	14	18	730	
GEW-238	4/9/2020	5.3	64	ND	3.3	25	780	
GEW-239	1/16/2020	0.78	34	7.3	29	29	950	See Note 4
GEW-239	4/6/2020	1.2	55	ND	ND	38	1,100	
GEW-240	1/14/2020	8.5	23	5.6	52	10	460	See Note 4
GEW-240	4/13/2020	1.7	26	8.6	52	12	340	See Note 4
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-01	4/8/2020	26	59	ND	ND	11	330	
GIW-01	5/12/2020	28	57	ND	3.7	9.8	330	
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-02	4/8/2020	8.8	65	ND	8.0	17	900	
GIW-02	5/12/2020	11	58	ND	15	14	550	
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-03	4/8/2020	21	49	ND	17	12	430	
GIW-03	5/13/2020	21	46	ND	21	11	410	
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-04	4/8/2020	19	50	ND	7.8	22	710	
GIW-04	5/13/2020	21	50	ND	6.9	20	650	
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-05	4/8/2020	7.8	19	14	52	6.9	70	See Note 4
GIW-05	5/13/2020	23	47	ND	13	15	210	
GIW-06	1/15/2020	34	39	ND	21	3.9	45	
GIW-06	2/17/2020	38	38	ND	17	5.9	45	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GIW-06	3/11/2020	37	40	ND	18	3.3	35	
GIW-06	4/8/2020	33	42	ND	20	3.8	35	
GIW-06	5/13/2020	26	40	1.8	29	3.0	33	
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-07	4/8/2020	48	46	ND	5.1	ND	ND	
GIW-07	5/13/2020	47	47	ND	5.5	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-08	4/8/2020	45	46	ND	7.6	ND	ND	
GIW-08	5/13/2020	43	44	ND	12	ND	ND	
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-09	4/8/2020	22	43	ND	21	13	150	
GIW-09	5/13/2020	21	40	ND	27	11	140	
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-10	4/8/2020	23	34	ND	34	7.5	130	
GIW-10	5/13/2020	22	33	ND	37	6.6	120	
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	
GIW-11	3/11/2020	26	35	1.6	35	2.8	210	
GIW-11	4/8/2020	25	35	ND	36	2.7	140	
GIW-11	5/13/2020	23	33	1.9	40	2.2	150	
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-12	4/8/2020	29	36	2.4	28	4.5	160	
GIW-12	5/13/2020	29	36	2.1	29	2.6	100	
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	
GIW-13	4/8/2020	44	47	ND	3.7	4.6	80	
GIW-13	5/13/2020	46	46	ND	3.7	3.4	59	

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.

<sup>2</sup> = Flare Station Inlet measured at EPA Method 2 flow port (blower outlet)

---

**ATTACHMENT C-2**

**LABORATORY ANALYSES REPORTS**

---



May 26, 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: L051506-01/49

Enclosed are results for sample(s) received 5/15/20 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 5/22/20.

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](mailto: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**

<b>TURNAROUND TIME</b>		<b>DELIVERABLES</b>		<b>PAGE: 1 OF 6</b>	
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt:		
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	Sealed Yes <input type="checkbox"/> No <input type="checkbox"/>		
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	Intact Yes <input type="checkbox"/> No <input type="checkbox"/>		
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	Chilled _____ deg C		

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

<b>BILLING</b>		<b>ANALYSIS REQUEST</b>					
<b>P.O. No.:</b> PO7112802		D1946 + CO <sub>2</sub> H <sub>2</sub>					
<b>Bill to:</b> 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 <sub>2</sub> H <sub>2</sub>						
	Cannister ID	Sample Start	Sample End													
L051506-01	01427	-21.2	-5	GEW 50	5/11/2020	10:33	C	LFG	NA	X						4
-02	01406	-21.4	-5	GEW 52	5/11/2020	10:46	C	LFG	NA	X						4
-03	01421	-21.3	-5	GEW 7	5/11/2020	11:11	C	LFG	NA	X						3.5
-04	01420	-21.3	-5	GEW 8	5/11/2020	11:21	C	LFG	NA	X						4
-05	01423	-21.6	-5	GEW 9	5/11/2020	11:33	C	LFG	NA	X						4
-06	01418	-21.4	-5	GEW 51	5/11/2020	11:46	C	LFG	NA	X						4
-07	01401	-21	-5	GEW 53	5/11/2020	13:39	C	LFG	NA	X						4
-08	01411	-20.9	-5	GEW 54	5/11/2020	13:50	C	LFG	NA	X						4
-09	01407	-21.1	-5	GEW 55	5/11/2020	14:36	C	LFG	NA	X						4
-10	01422	-21	-5	GEW 40	5/11/2020	14:47	C	LFG	NA	X						4

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

**SAMPLED BY:** Anthony Kimutis      **COMPANY:** Republic Services      **DATE/TIME:** 5/11/2020

<b>RELINQUISHED BY:</b> [Signature] <b>DATE/TIME:</b> 5/14/2020	<b>RECEIVED BY:</b> [Signature] <b>DATE/TIME:</b>
<b>RELINQUISHED BY:</b> FEI EX <b>DATE/TIME:</b> 5/15/20	<b>RECEIVED BY:</b> [Signature] <b>DATE/TIME:</b> 5/15/20 0940
<b>RELINQUISHED BY:</b>	<b>RECEIVED BY:</b>

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

**COMMENTS**



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

**CHAIN OF CUSTODY RECORD**

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](mailto:Mlambrich@republicservices.com)

BILLING	ANALYSIS REQUEST
<b>P.O. No.:</b> PO7112802	D1946 + CO, H2
<b>Bill to:</b> 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												
6051920-11	01415	-21.2	-5	GEW 41R	5/11/2020	14:58	C	LFG	NA	X					4
-12	01417	-21.2	-5	GEW 42R	5/11/2020	15:13	C	LFG	NA	X					4
-13	01414	-21	-5	GEW 43R	5/11/2020	15:59	C	LFG	NA	X					4
-14	01424	-21.2	-5	GEW 44	5/12/2020	9:25	C	LFG	NA	X					3.5
-15	01408	-21.6	-5	GEW 49	5/12/2020	9:38	C	LFG	NA	X					3.5
-16	01405	-21	-5	GEW 45R	5/12/2020	9:58	C	LFG	NA	X					4
-17	01402	-21.3	-5	GEW 46R	5/12/2020	10:14	C	LFG	NA	X					3.5
-18	01426	-21.4	-5	GEW 2S	5/12/2020	10:29	C	LFG	NA	X					3.5
-19	01416	-21.3	-5	GEW 2	5/12/2020	10:40	C	LFG	NA	X					4
-20	01410	-21.2	-5	GEW 4	5/12/2020	10:53	C	LFG	NA	X					4

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

**SAMPLED BY:** Anthony Kimutis      **COMPANY:** Republic Services      **DATE/TIME:** 5/11/2020 - 5/17/2020

<b>RELINQUISHED BY:</b> <i>Anto Kimutis</i>	<b>DATE/TIME:</b> 5/14/2020	<b>RECEIVED BY:</b>	<b>DATE/TIME:</b>
<b>RELINQUISHED BY:</b> <i>FEA EX</i>	<b>DATE/TIME:</b> 5/15/20	<b>RECEIVED BY:</b> <i>[Signature]</i>	<b>DATE/TIME:</b> 5/15/20 0940
<b>RELINQUISHED BY:</b>	<b>DATE/TIME:</b>	<b>RECEIVED BY:</b>	<b>DATE/TIME:</b>

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

**COMMENTS**





18501 E. Gale Ave., Suite 130  
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**CHAIN OF CUSTODY RECORD**

**TURNAROUND TIME**

**DELIVERABLES**

PAGE: 3 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](mailto:mlambrich@republicservices.com)

**BILLING**

**ANALYSIS REQUEST**

**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													
L051506-21	01413	-21.3	-5	GEW 3	5/12/2020	11:29	C	LFG	NA	X						4
-22	01403	-21.2	-5	GEW 47R	5/12/2020	14:04	C	LFG	NA	X						4
-23	01404	-21.2	-5	GEW 5	5/12/2020	14:18	C	LFG	NA	X						4
-24	01409	-21.3	-5	GEW 48	5/12/2020	14:29	C	LFG	NA	X						4
-25	01425	-21.3	-5	GEW 6	5/12/2020	14:40	C	LFG	NA	X						4
-26	N3701	-20.7	-5	GIW 1	5/12/2020	15:54	C	LFG	NA	X						4
-27	A7810	-20.8	-5	GIW 2	5/12/2020	16:03	C	LFG	NA	X						4
-28	N3695	-20.8	-5	GIW 3	5/13/2020	9:29	C	LFG	NA	X						4
-29	N3685	-20.8	-5	GIW 4	5/13/2020	9:46	C	LFG	NA	X						4
-30	5264	-20.7	-5	GIW 5	5/13/2020	10:03	C	LFG	NA	X						4

**AUTHORIZATION TO PERFORM WORK:** Dave Penoyer      **COMPANY:** Republic Services  
**SAMPLED BY:** Anthony Kimutis      **COMPANY:** Republic Services      **DATE/TIME:** 5/12/2020 - 5/13/2020

<b>RELINQUISHED BY:</b> <i>[Signature]</i> <b>DATE/TIME:</b> 5/14/2020	<b>RECEIVED BY:</b> _____ <b>DATE/TIME:</b> _____
<b>RELINQUISHED BY:</b> <i>FEN</i> <b>DATE/TIME:</b> 5/15/20	<b>RECEIVED BY:</b> <i>[Signature]</i> <b>DATE/TIME:</b> 5/15/20 0940
<b>RELINQUISHED BY:</b> _____ <b>DATE/TIME:</b> _____	<b>RECEIVED BY:</b> _____ <b>DATE/TIME:</b> _____

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

**COMMENTS**



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**CHAIN OF CUSTODY RECORD**

**TURNAROUND TIME**

**DELIVERABLES**

PAGE: 4 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](mailto:Mlambrich@republicservices.com)

**BILLING**

**ANALYSIS REQUEST**

**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					
	Cannister ID	Sample Start	Sample End												
L051506-31	5305	-20.3	-5	GIW 6	5/13/2020	10:12	C	LFG	NA	X					4
-32	A7668	-19.9	-5	GIW 7	5/13/2020	10:21	C	LFG	NA	X					4
-33	A7765	-20.7	-5	GIW 8	5/13/2020	10:31	C	LFG	NA	X					4
-34	4645	-21	-5	GIW 9	5/13/2020	11:17	C	LFG	NA	X					4
-35	A8065	-20.8	-5	GIW 10	5/13/2020	11:25	C	LFG	NA	X					4
-36	5905	-21.4	-5	GIW 11	5/13/2020	13:31	C	LFG	NA	X					4
-37	6144	-21	-5	GIW 12	5/13/2020	13:39	C	LFG	NA	X					4

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

**SAMPLED BY:** Anthony Kimutis      **COMPANY:** Republic Services      **DATE/TIME:** 5/13/2020

<b>RELINQUISHED BY:</b> <i>Anthony Kimutis</i> <b>DATE/TIME:</b> 5/14/2020	<b>RECEIVED BY:</b> _____ <b>DATE/TIME:</b> _____
<b>RELINQUISHED BY:</b> <i>FedEx</i> <b>DATE/TIME:</b> 5/15/20	<b>RECEIVED BY:</b> <i>[Signature]</i> <b>DATE/TIME:</b> 5/15/20 0940
<b>RELINQUISHED BY:</b> _____ <b>DATE/TIME:</b> _____	<b>RECEIVED BY:</b> _____ <b>DATE/TIME:</b> _____

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

**COMMENTS**



18501 E. Gale Ave., Suite 130  
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**CHAIN OF CUSTODY RECORD**

**TURNAROUND TIME**

**DELIVERABLES**

PAGE: 5 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](mailto:mlambrich@republicservices.com)

**BILLING**

**ANALYSIS REQUEST**

**P.O. No.:** PO7112802  
**Bill to:** Republic Services  
Attn: Mike Lambrich  
13570 St. Charles Rock Rd.  
Bridgeton, MO 63044

D1946 + CO <sub>2</sub> H <sub>2</sub>																				

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO <sub>2</sub> H <sub>2</sub>										
	Cannister ID	Sample Start	Sample End																	
L051506-38	3126	-20.8	-5	GEW 56R	5/12/2020	8:47	C	LFG	NA	X										4
-37	A7667	-21.1	-5	GEW 10	5/12/2020	8:56	C	LFG	NA	X										3.5
-40	5308	-19.7	-5	GEW 110	5/12/2020	9:06	C	LFG	NA	X										4
-41	5825	-21	-5	GEW 39	5/13/2020	9:54	C	LFG	NA	X										4
-42	5834	-21.1	-5	GEW 109	5/13/2020	10:06	C	LFG	NA	X										4
-43	6160	-20.7	-5	GEW 187	5/13/2020	10:17	C	LFG	NA	X										4
-44	A7778	-20.5	-5	GEW 108	5/13/2020	10:27	C	LFG	NA	X										4
-45	4657	-20.8	-5	GEW 162	5/13/2020	11:06	C	LFG	NA	X										4
-46	5920	-21.2	-5	GEW 161	5/13/2020	11:16	C	LFG	NA	X										4
-47	A8085	-20.9	-5	GEW 160	5/13/2020	11:26	C	LFG	NA	X										4

**AUTHORIZATION TO PERFORM WORK:** Dave Penoyer      **COMPANY:** Republic Services  
**SAMPLED BY:** Andy Guthrie      **COMPANY:** Hunt Environmental Services      **DATE/TIME:** 5/12/2020 - 5/13/2020

<b>RELINQUISHED BY:</b> <i>Andy Guthrie</i> <b>DATE/TIME:</b> 5/14/2020	<b>RECEIVED BY:</b> _____ <b>DATE/TIME:</b> _____
<b>RELINQUISHED BY:</b> <i>FedEx</i> <b>DATE/TIME:</b> 5/15/20	<b>RECEIVED BY:</b> <i>[Signature]</i> <b>DATE/TIME:</b> 5/15/20 0940
<b>RELINQUISHED BY:</b> _____ <b>DATE/TIME:</b> _____	<b>RECEIVED BY:</b> _____ <b>DATE/TIME:</b> _____

**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: 6 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](mailto: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 <sub>2</sub> H <sub>2</sub>																			

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO <sub>2</sub> H <sub>2</sub>										
	Cannister ID	Sample Start	Sample End																	
L051506-48	A7666	-20.1	-5	GEW 91	5/13/2020	11:37	C	LFG	NA	X										4
↓ -49	A8066	-20.1	-5	GIW 13	5/13/2020	13:49	C	LFG	NA	X										4

**AUTHORIZATION TO PERFORM WORK:** Dave Penoyer      **COMPANY:** Republic Services  
**SAMPLED BY:** Andy Guthrie      **COMPANY:** Hunt Environmental Services      **DATE/TIME:** 5/13/2020  
**RELINQUISHED BY:** Andy Guthrie 5/14/2020 5:15 AM      **RECEIVED BY:** \_\_\_\_\_ **DATE/TIME:** \_\_\_\_\_  
**RELINQUISHED BY:** FedEx 5/15/20      **RECEIVED BY:** C. Duff 5/15/20 0940  
**RELINQUISHED BY:** \_\_\_\_\_ **DATE/TIME:** \_\_\_\_\_      **RECEIVED BY:** \_\_\_\_\_ **DATE/TIME:** \_\_\_\_\_

**COMMENTS**

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

**Client:** Republic Services  
**Attn:** Mike Lambrich  
**Project Name:** Bridgeton Landfill  
**Project No.:** NA  
**Date Received:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-01	L051506-02	L051506-03	L051506-04				
Client Sample I.D.:	GEW 50	GEW 52	GEW 7	GEW 8				
Date/Time Sampled:	5/11/20 10:33	5/11/20 10:46	5/11/20 11:11	5/11/20 11:21				
Date/Time Analyzed:	5/19/20 11:02	5/19/20 11:16	5/19/20 11:31	5/19/20 11:45				
QC Batch No.:	200519GC8A1	200519GC8A1	200519GC8A1	200519GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	2.9	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.030	ND d	0.030	ND d	0.029	0.96 d	0.030
Carbon Dioxide	39	0.030	39	0.030	42	0.029	44	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.4	ND	1.5
Nitrogen	9.2	3.0	12	3.0	4.4	2.9	3.2	3.0
Methane	52	0.0030	48	0.0030	53	0.0029	51	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0029	ND	0.0030


Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

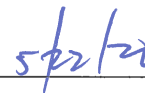
RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200520GC8A2

Reviewed/Approved By: \_\_\_\_\_

  
 Mark Johnson  
 Operations Manager

Date \_\_\_\_\_



The cover letter is an integral part of this analytical report



**Client:** Republic Services  
**Attn:** Mike Lambrich  
**Project Name:** Bridgeton Landfill  
**Project No.:** NA  
**Date Received:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-05	L051506-06	L051506-07	L051506-08				
<b>Client Sample I.D.:</b>	GEW 9	GEW 51	GEW 53	GEW 54				
<b>Date/Time Sampled:</b>	5/11/20 11:33	5/11/20 11:46	5/11/20 13:39	5/11/20 13:50				
<b>Date/Time Analyzed:</b>	5/19/20 12:00	5/19/20 12:14	5/19/20 12:29	5/19/20 12:44				
<b>QC Batch No.:</b>	200519GC8A1	200519GC8A1	200519GC8A1	200519GC8A1				
<b>Analyst Initials:</b>	CM	CM	CM	CM				
<b>Dilution Factor:</b>	3.0	3.0	3.0	3.0				
<b>ANALYTE</b>	<b>Result</b> % v/v	<b>RL</b> % v/v	<b>Result</b> % v/v	<b>RL</b> % v/v	<b>Result</b> % v/v	<b>RL</b> % v/v	<b>Result</b> % v/v	<b>RL</b> % v/v
Hydrogen	0.60 d	0.030	0.88 d	0.030	3.1 d	0.030	1.5 d	0.030
Carbon Dioxide	43	0.030	43	0.030	44	0.030	44	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	6.3	3.0	4.0	3.0	4.7	3.0	ND	3.0
Methane	49	0.0030	52	0.0030	48	0.0030	51	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	0.0060	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

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d = Reported from a secondary analysis. QC Batch: 200520GC8A2

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-09	L051506-10	L051506-11	L051506-12				
Client Sample I.D.:	GEW 55	GEW 40	GEW 41R	GEW 42R				
Date/Time Sampled:	5/11/20 14:36	5/11/20 14:47	5/11/20 14:58	5/11/20 15:13				
Date/Time Analyzed:	5/19/20 12:58	5/19/20 13:13	5/19/20 13:27	5/19/20 13:42				
QC Batch No.:	200519GC8A1	200519GC8A1	200519GC8A1	200519GC8A1				
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	1.1 d	0.030	ND d	0.030	ND d	0.030	ND d	0.030
Carbon Dioxide	43	0.030	35	0.030	36	0.030	40	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	5.9	3.0	10	3.0	11	3.0	6.9	3.0
Methane	49	0.0030	54	0.0030	52	0.0030	53	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200520GC8A2

Reviewed/Approved By: Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-13	L051506-14	L051506-15	L051506-16				
Client Sample I.D.:	GEW 43R	GEW 44	GEW 49	GEW 45R				
Date/Time Sampled:	5/11/20 15:59	5/12/20 9:25	5/12/20 9:38	5/12/20 9:58				
Date/Time Analyzed:	5/19/20 13:56	5/19/20 14:11	5/19/20 14:25	5/19/20 14:40				
QC Batch No.:	200519GC8A1	200519GC8A1	200519GC8A1	200519GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	2.9	2.9	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	0.098 d	0.030	ND d	0.029	ND d	0.029	ND d	0.030
Carbon Dioxide	41	0.030	34	0.029	37	0.029	39	0.030
Oxygen/Argon	ND	1.5	ND	1.4	ND	1.4	ND	1.5
Nitrogen	6.0	3.0	24	2.9	16	2.9	9.1	3.0
Methane	52	0.0030	41	0.0029	45	0.0029	51	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0029	ND	0.0029	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200520GC8A2

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-17	L051506-18	L051506-19	L051506-20				
Client Sample I.D.:	GEW 46R	GEW 2S	GEW 2	GEW 4				
Date/Time Sampled:	5/12/20 10:14	5/12/20 10:29	5/12/20 10:40	5/12/20 10:53				
Date/Time Analyzed:	5/19/20 14:55	5/19/20 15:09	5/19/20 15:24	5/19/20 15:39				
QC Batch No.:	200519GC8A1	200519GC8A1	200519GC8A1	200519GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.9	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	0.029	ND d	0.029	ND d	0.030	ND d	0.030
Carbon Dioxide	38	0.029	35	0.029	42	0.030	40	0.030
Oxygen/Argon	ND	1.4	1.7	1.4	ND	1.5	ND	1.5
Nitrogen	14	2.9	6.6	2.9	6.4	3.0	9.5	3.0
Methane	47	0.0029	57	0.0029	51	0.0030	49	0.0030
Carbon Monoxide	ND	0.0029	ND	0.0029	ND	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200520GC8A2

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-21	L051506-22	L051506-23	L051506-24				
Client Sample I.D.:	GEW 3	GEW 47R	GEW 5	GEW 48				
Date/Time Sampled:	5/12/20 11:29	5/12/20 14:04	5/12/20 14:18	5/12/20 14:29				
Date/Time Analyzed:	5/19/20 17:35	5/19/20 17:50	5/19/20 18:04	5/19/20 18:19				
QC Batch No.:	200519GC8A2	200519GC8A2	200519GC8A2	200519GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.030	ND d	0.030	ND d	0.030	ND d	0.030
Carbon Dioxide	42	0.030	40	0.030	38	0.030	40	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	7.1	3.0	11	3.0	12	3.0	6.6	3.0
Methane	51	0.0030	48	0.0030	49	0.0030	52	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

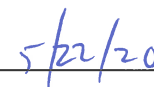
d = Reported from a secondary analysis. QC Batch: 200520GC8A3

Reviewed/Approved By: \_\_\_\_\_



Mark Johnson  
Operations Manager

Date \_\_\_\_\_



The cover letter is an integral part of this analytical report





**Client:** Republic Services  
**Attn:** Mike Lambrich  
**Project Name:** Bridgeton Landfill  
**Project No.:** NA  
**Date Received:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-29	L051506-30	L051506-31	L051506-32				
<b>Client Sample I.D.:</b>	GIW 4	GIW 5	GIW 6	GIW 7				
<b>Date/Time Sampled:</b>	5/13/20 9:46	5/13/20 10:03	5/13/20 10:12	5/13/20 10:21				
<b>Date/Time Analyzed:</b>	5/19/20 19:32	5/19/20 19:46	5/19/20 20:01	5/19/20 20:15				
<b>QC Batch No.:</b>	200519GC8A2	200519GC8A2	200519GC8A2	200519GC8A2				
<b>Analyst Initials:</b>	CM	CM	CM	CM				
<b>Dilution Factor:</b>	3.0	3.0	3.0	3.0				
<b>ANALYTE</b>	<b>Result % v/v</b>	<b>RL % v/v</b>	<b>Result % v/v</b>	<b>RL % v/v</b>	<b>Result % v/v</b>	<b>RL % v/v</b>	<b>Result % v/v</b>	<b>RL % v/v</b>
Hydrogen	20	3.0	15	3.0	3.0 d	0.030	ND d	0.030
Carbon Dioxide	50	0.030	47	0.030	40	0.030	47	0.030
Oxygen/Argon	ND	1.5	ND	1.5	1.8	1.5	ND	1.5
Nitrogen	6.9	3.0	13	3.0	29	3.0	5.5	3.0
Methane	21	0.0030	23	0.0030	26	0.0030	47	0.0030
Carbon Monoxide	0.065	0.0030	0.021	0.0030	0.0033	0.0030	ND	0.0030


Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

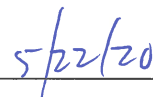
RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200520GC8A3

Reviewed/Approved By: \_\_\_\_\_

  
 Mark Johnson  
 Operations Manager

Date \_\_\_\_\_



The cover letter is an integral part of this analytical report



**Client:** Republic Services  
**Attn:** Mike Lambrich  
**Project Name:** Bridgeton Landfill  
**Project No.:** NA  
**Date Received:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-33	L051506-34	L051506-35	L051506-36				
Client Sample I.D.:	GIW 8	GIW 9	GIW 10	GIW 11				
Date/Time Sampled:	5/13/20 10:31	5/13/20 11:17	5/13/20 11:25	5/13/20 13:31				
Date/Time Analyzed:	5/19/20 20:30	5/19/20 20:45	5/19/20 20:59	5/19/20 21:14				
QC Batch No.:	200519GC8A2	200519GC8A2	200519GC8A2	200519GC8A2				
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	11	3.0	6.6	3.0	2.2 d	0.030
Carbon Dioxide	44	0.030	40	0.030	33	0.030	33	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	1.9	1.5
Nitrogen	12	3.0	27	3.0	37	3.0	40	3.0
Methane	43	0.0030	21	0.0030	22	0.0030	23	0.0030
Carbon Monoxide	ND	0.0030	0.014	0.0030	0.012	0.0030	0.015	0.0030

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

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Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-41	L051506-42	L051506-43	L051506-44				
Client Sample I.D.:	GEW 39	GEW 109	GEW 187	GEW 108				
Date/Time Sampled:	5/13/20 9:54	5/13/20 10:06	5/13/20 10:17	5/13/20 10:27				
Date/Time Analyzed:	5/20/20 8:49	5/20/20 9:04	5/20/20 9:18	5/20/20 9:33				
QC Batch No.:	200520GC8A1	200520GC8A1	200520GC8A1	200520GC8A1				
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	0.37 d	0.030	1.9 d	0.030	9.5	3.0
Carbon Dioxide	32	0.030	44	0.030	54	0.030	48	0.030
Oxygen/Argon	2.5	1.5	1.5	1.5	ND	1.5	ND	1.5
Nitrogen	39	3.0	13	3.0	ND	3.0	4.0	3.0
Methane	27	0.0030	41	0.0030	41	0.0030	37	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0030	0.0071	0.0030	0.018	0.0030

Results normalized including non-methane hydrocarbons

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d = Reported from a secondary analysis. QC Batch: 200520GC8A3

Reviewed/Approved By: Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	L051506-45	L051506-46	L051506-47	L051506-48				
Client Sample I.D.:	GEW 162	GEW 161	GEW 160	GEW 91				
Date/Time Sampled:	5/13/20 11:06	5/13/20 11:16	5/13/20 11:26	5/13/20 11:37				
Date/Time Analyzed:	5/20/20 9:48	5/20/20 10:02	5/20/20 10:17	5/20/20 10:31				
QC Batch No.:	200520GC8A1	200520GC8A1	200520GC8A1	200520GC8A1				
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	13	3.0	32	3.0	13	3.0	36	3.0
Carbon Dioxide	65	0.030	56	0.030	39	0.030	55	0.030
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	9.0	3.0	4.5	3.0	24	3.0	4.3	3.0
Methane	12	0.0030	6.3	0.0030	22	0.0030	2.3	0.0030
Carbon Monoxide	0.051	0.0030	0.10	0.0030	0.029	0.0030	0.038	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200520GC8A3

Reviewed/Approved By: Mark Johnson  
 Operations Manager

Date: 5/22/20

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:** 05/15/20  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

<b>Lab No.:</b>	L051506-49			
<b>Client Sample I.D.:</b>	GIW 13			
<b>Date/Time Sampled:</b>	5/13/20 13:49			
<b>Date/Time Analyzed:</b>	5/20/20 10:46			
<b>QC Batch No.:</b>	200520GC8A1			
<b>Analyst Initials:</b>	CM			
<b>Dilution Factor:</b>	3.0			

ANALYTE	Result		RL						
	% v/v	% v/v	% v/v	% v/v					
Hydrogen	3.4	d	0.030						
Carbon Dioxide	46		0.030						
Oxygen/Argon	ND		1.5						
Nitrogen	3.7		3.0						
Methane	46		0.0030						
Carbon Monoxide	0.0059		0.0030						

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 200520GC8A3

Reviewed/Approved By: Mark Johnson 1  
 Date: 5/22/20  
 Mark Johnson  
 Operations Manager

The cover letter is an integral part of this analytical report


QC Batch No: 200519GC8A1  
Matrix: Air  
Reporting Units: % v/vASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	5/19/20 10:03			5/19/20 10:32		5/19/20 10:47					
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	5.28	106	5.12	102	3.1	70	130	30
Carbon Dioxide	ND	0.010	10	10.8	108	10.7	107	1.4	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.4	70	130	30
Nitrogen	ND	1.0	70	69.4	99	69.3	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.0993	99	0.0992	99	0.0	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 \_\_\_\_\_

5/20/20

The cover letter is an integral part of this analytical report



QC Batch No: 200519GC8A2  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS	LCS	LCS	LCS	Limits				
Date Analyzed:	5/19/20 16:51		5/19/20 17:06	5/19/20 17:06	5/19/20 17:20	5/19/20 17:20					
Analyst Initials:	CM		CM	CM	CM	CM					
Dilution Factor:	1.0		1.0	1.0	1.0	1.0					
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	4.99	100	4.97	99	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	10.6	105	10.6	106	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.3	103	15.3	103	0.1	70	130	30
Nitrogen	ND	1.0	70	69.1	99	69.1	99	0.0	70	130	30
Methane	ND	0.0010	0.10	0.102	102	0.102	102	0.0	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.103	103	0.103	103	0.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 5/22/20

The cover letter is an integral part of this analytical report



QC Batch No: 200520GC8A1  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS		LCSD						
Date Analyzed:	5/20/20 8:15		5/19/20 23:10		5/19/20 23:25						
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	4.91	98	4.87	97	0.8	70	130	30
Carbon Dioxide	ND	0.010	10	10.6	105	10.5	105	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.3	70	130	30
Nitrogen	ND	1.0	70	69.5	99	69.4	99	0.2	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.6	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.104	104	0.104	104	0.3	70	130	30

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

Reviewed/Approved By: *[Signature]*  
Mark Johnson  
Operations Manager

Date: 5/20/20

The cover letter is an integral part of this analytical report

QC Batch No: 200520GC8A2

Matrix: Air

Reporting Units: % v/v

ASTM D1946 Low Level Hydrogen  
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		5/20/20 12:57		5/20/20 12:38		5/20/20 12:44					
Analyst Initials:		CM		CM		CM					
Dilution Factor:		1.0		1.0		1.0		Limits			
ANALYTE	Result	RL	SPIKE	Result		Result		RPD	Low	High	Max.
	% v/v	% v/v	% v/v	% v/v	% Rec.	% v/v	% Rec.	%	%Rec	%Rec	RPD
Hydrogen	ND	0.010	1.0	0.825	82	0.799	80	3.2	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

Mark Johnson  
Operations Manager

Date

5/20/20

The cover letter is an integral part of this analytical report



QC Batch No: 200520GC8A3

Matrix: Air

Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	5/20/20 14:53			5/20/20 14:43		5/20/20 14:48					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0			Limits		
<b>ANALYTE</b>	<b>Result % v/v</b>	<b>RL % v/v</b>	<b>SPIKE AMT. % v/v</b>	<b>Result % v/v</b>	<b>% Rec.</b>	<b>Result % v/v</b>	<b>% Rec.</b>	<b>RPD %</b>	<b>Low %Rec</b>	<b>High %Rec</b>	<b>Max. RPD</b>
Hydrogen	ND	0.010	1.0	0.834	83	0.832	83	0.3	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

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

Date: 5/22/20

The cover letter is an integral part of this analytical report





June 1, 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: L052802-01

Enclosed are results for sample(s) received 5/28/20 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 5/29/20.

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 "MJohnson - 1".

Mark Johnson  
Operations Manager  
[MJohnson@AirTechLabs.com](mailto: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: <b>5 Day</b>		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](mailto:MLambrich@republicservices.com)

BILLING	ANALYSIS REQUEST				
<b>P.O. No.:</b> PO7112802	D1946 + CO, H2				LAB INITIAL VAC
<b>Bill to:</b> 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/TPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
L052802-01	01412	-20.6	-5	GEW 2S	5/27/2020	8:43	C	LFG	NA	X						5

AUTHORIZATION TO PERFORM WORK: <b>Dave Penoyer</b>		COMPANY: Republic Services	
SAMPLED BY: <b>Anthony Kimutis</b>		COMPANY: Republic Services	
RELINQUISHED BY: <i>Anty Kimutis</i>	DATE/TIME: 5/27/2020	RECEIVED BY: <i>Anty Kimutis</i>	DATE/TIME: 5/27/2020
RELINQUISHED BY: <i>FedEx</i>	DATE/TIME: 5/28/20	RECEIVED BY: <i>Anty Kimutis</i>	DATE/TIME: 5/28/20 1003
RELINQUISHED BY: _____	DATE/TIME: _____	RECEIVED BY: _____	DATE/TIME: _____
METHOD OF TRANSPORT (circle one): Walk-In <b>FedEx</b> UPS Courier ATLI Other _____			

**COMMENTS**



**Client:** Republic Services  
**Attn:** Mike Lambrich  
**Project Name:** Bridgeton Landfill  
**Project No.:** NA  
**Date Received:** 05/28/20  
**Matrix:** Air  
**Reporting Units:** % v/v

ASTM D1946


<b>Lab No.:</b>	L052802-01							
<b>Client Sample I.D.:</b>	GEW 2S							
<b>Date/Time Sampled:</b>	5/27/20 8:43							
<b>Date/Time Analyzed:</b>	5/29/20 8:59							
<b>QC Batch No.:</b>	200529GC8A1							
<b>Analyst Initials:</b>	AS							
<b>Dilution Factor:</b>	3.2							
<b>ANALYTE</b>	<b>Result</b> % v/v	<b>RL</b> % v/v						
Hydrogen	ND d	0.032						
Carbon Dioxide	34	0.032						
Oxygen/Argon	2.6	1.6						
Nitrogen	9.4	3.2						
Methane	54	0.0032						
Carbon Monoxide	ND	0.0032						

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 200529GC8A2

Reviewed/Approved By:   
 Mark Johnson  
 Operations Manager

Date 5-29-20

The cover letter is an integral part of this analytical report

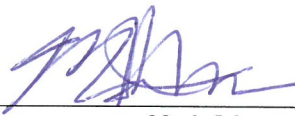


QC Batch No: 200529GC8A1  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	5/29/20 8:45			5/29/20 8:16		5/29/20 9:14					
Analyst Initials:	AS			AS		AS					
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	4.49	90	4.57	91	1.7	70	130	30
Carbon Dioxide	ND	0.010	10	10.2	101	10.2	101	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.1	70	130	30
Nitrogen	ND	1.0	70	69.8	100	69.9	100	0.2	70	130	30
Methane	ND	0.0010	0.10	0.101	101	0.102	102	0.9	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0984	98	0.0982	98	0.1	70	130	30

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

Reviewed/Approved By:   
Mark Johnson  
Operations Manager

Date 5-29-20

The cover letter is an integral part of this analytical report

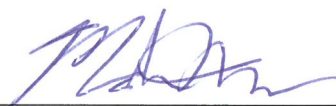


QC Batch No: 200529GC8A2  
 Matrix: Air  
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCS D					
Date Analyzed:	5/29/20 12:23			5/29/20 12:08		5/29/20 12:13					
Analyst Initials:	AS			AS		AS					
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	0.815	81	0.815	81	0.0	70	130	30

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

Reviewed/Approved By:   
 Mark Johnson  
 Operations Manager

Date 5-29-20

The cover letter is an integral part of this analytical report



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**ATTACHMENT D**

**GAS WELLFIELD DATA**

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**ATTACHMENT D-1**

**WELLFIELD DATA TABLE**

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May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-002	5/6/2020 2:19:54 PM	55.9	42.4	0.0	1.7	109.1	109.1	23.1	20.23	-0.15	-0.18	-13.31
GEW-002	5/12/2020 10:36:42 AM	54.2	40.2	0.0	5.6	107.6	107.7	19.5	18.14	-0.62	-0.64	-13.69
GEW-002	5/12/2020 10:43:12 AM	54.3	40.2	0.0	5.5	107.2	107.2	21.1	23.11	-0.65	-0.64	-13.61
GEW-002	5/20/2020 10:01:12 AM	55.2	41.7	0.0	3.1	108.0	108.2	22.5	22.45	-0.66	-0.69	-13.73
GEW-002	5/27/2020 9:07:39 AM	56.1	39.1	0.0	4.8	100.8	99.1	49.5	49.07	-2.93	-2.92	-13.65
GEW-003	5/6/2020 2:35:17 PM	53.8	40.7	0.0	5.5	108.3	108.5	12.7	9.75	-0.36	-0.33	-12.47
GEW-003	5/12/2020 11:26:38 AM	53.4	40.9	0.0	5.7	106.5	106.3	6.1	12.40	-0.66	-0.66	-13.23
GEW-003	5/12/2020 11:32:19 AM	53.6	40.4	0.0	6.0	105.5	105.5	10.1	11.81	-0.65	-0.63	-13.44
GEW-003	5/20/2020 10:51:45 AM	53.3	40.6	0.0	6.1	109.7	109.7	7.6	7.14	-0.78	-0.76	-13.35
GEW-003	5/27/2020 9:35:51 AM	54.4	40.4	0.0	5.2	110.7	110.6	4.7	10.09	-0.60	-0.60	-13.56
GEW-004	5/6/2020 2:23:56 PM	53.1	40.3	0.0	6.6	107.9	108.0	10.4	10.01	-0.35	-0.34	-13.10
GEW-004	5/12/2020 10:50:27 AM	52.4	39.9	0.0	7.7	105.6	105.7	25.1	25.42	-0.56	-0.57	-13.10
GEW-004	5/12/2020 10:56:33 AM	52.7	39.0	0.0	8.3	105.0	105.2	7.2	9.39	-0.57	-0.56	-13.27
GEW-004	5/20/2020 10:04:16 AM	52.8	41.0	0.0	6.2	108.0	107.8	11.1	9.74	-0.71	-0.69	-13.48
GEW-004	5/27/2020 9:11:54 AM	54.1	40.0	0.0	5.9	110.0	109.7	8.5	11.45	-0.52	-0.53	-13.31
GEW-005	5/6/2020 2:42:41 PM	51.7	37.8	0.0	10.5	79.6	79.7	10.4	8.78	-0.03	-0.02	-13.27
GEW-005	5/12/2020 2:15:26 PM	51.7	38.0	0.0	10.3	79.4	79.4	27.6	27.78	0.02	0.04	-13.31
GEW-005	5/12/2020 2:22:00 PM	51.8	37.5	0.0	10.7	79.1	79.1	27.1	27.09	0.04	0.04	-13.65
GEW-005	5/13/2020 8:32:30 AM	51.0	37.1	0.0	11.9	74.6	74.6	27.2	27.61	-0.15	-0.16	-13.61
GEW-005	5/20/2020 10:14:12 AM	47.9	37.9	0.0	14.2	80.9	81.0	7.3	9.60	-0.35	-0.34	-13.56
GEW-005	5/20/2020 10:16:19 AM	48.4	37.6	0.0	14.0	81.2	81.0	4.2	7.33	-0.34	-0.34	-13.31
GEW-005	5/27/2020 9:21:36 AM	51.0	38.6	0.0	10.4	81.5	81.7	26.2	26.15	-0.19	-0.19	-13.82
GEW-006	5/6/2020 2:48:18 PM	56.5	39.1	0.0	4.4	80.3	80.3	30.3	29.09	-0.25	-0.27	-12.97
GEW-006	5/12/2020 2:37:20 PM	56.7	39.0	0.0	4.3	79.8	79.8	34.2	35.23	-0.09	-0.10	-13.73
GEW-006	5/12/2020 2:42:55 PM	57.1	38.7	0.0	4.2	79.4	79.4	29.4	28.19	-0.12	-0.13	-13.69
GEW-006	5/20/2020 10:21:28 AM	55.6	39.8	0.0	4.6	80.7	80.7	16.2	16.86	-0.50	-0.49	-13.61
GEW-006	5/27/2020 9:27:21 AM	57.2	40.0	0.0	2.8	81.9	81.9	20.7	20.35	-0.36	-0.35	-13.14
GEW-007	5/6/2020 9:10:50 AM	56.1	40.8	0.0	3.1	87.5	87.5	9.8	11.19	-6.43	-6.43	-13.48
GEW-007	5/11/2020 11:07:36 AM	56.5	40.9	0.0	2.6	88.9	88.9	10.5	10.87	-5.45	-5.41	-13.23
GEW-007	5/11/2020 11:13:53 AM	56.5	40.9	0.0	2.6	88.6	88.6	13.0	10.52	-5.75	-5.75	-13.23
GEW-007	5/20/2020 8:53:13 AM	56.6	40.6	0.0	2.8	89.1	89.2	9.4	6.64	-6.47	-6.47	-13.61
GEW-007	5/26/2020 8:38:10 AM	55.8	40.6	0.0	3.6	92.7	92.7	13.8	10.47	-6.00	-6.00	-13.23
GEW-008	5/6/2020 9:14:33 AM	53.8	42.7	0.0	3.5	108.2	108.0	16.0	16.64	-1.10	-1.10	-13.90
GEW-008	5/11/2020 11:18:26 AM	53.4	43.3	0.0	3.3	108.7	108.7	14.3	19.84	-0.82	-0.82	-13.65
GEW-008	5/11/2020 11:24:16 AM	53.4	43.8	0.0	2.8	109.0	109.0	27.9	27.00	-0.82	-0.81	-13.48
GEW-008	5/20/2020 8:56:20 AM	54.0	42.6	0.0	3.4	109.2	109.3	34.6	35.48	-1.03	-1.04	-13.82
GEW-008	5/26/2020 8:41:08 AM	53.4	42.2	0.0	4.4	112.3	112.3	30.8	30.44	-0.95	-0.95	-13.90
GEW-009	5/6/2020 9:17:37 AM	51.0	41.7	0.0	7.3	114.8	114.5	5.4	2.69	-0.18	-0.18	-13.40
GEW-009	5/11/2020 11:29:33 AM	51.7	43.2	0.0	5.1	118.6	118.1	11.4	8.90	-0.05	-0.05	-13.48
GEW-009	5/11/2020 11:36:25 AM	52.0	42.8	0.0	5.2	117.9	117.4	7.8	7.78	-0.04	-0.06	-13.40

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-009	5/20/2020 8:59:05 AM	51.5	42.4	0.0	6.1	117.8	117.6	23.4	24.00	-0.18	-0.18	-13.61
GEW-009	5/26/2020 8:44:22 AM	51.6	42.0	0.0	6.4	122.3	122.3	9.6	8.02	-0.10	-0.09	-13.56
GEW-010	5/6/2020 8:23:08 AM	56.7	41.3	0.0	2.0	74.9	75.2	5.8	4.27	-5.45	-5.45	-19.92
GEW-010	5/12/2020 8:53:31 AM	56.4	41.9	0.0	1.7	78.9	79.1	2.3	1.61	-5.83	-5.83	-20.13
GEW-010	5/12/2020 8:59:42 AM	56.6	40.6	0.0	2.8	79.1	79.4	1.6	1.98	-5.83	-5.83	-19.87
GEW-010	5/20/2020 11:03:05 AM	56.5	42.6	0.0	0.9	84.9	84.9	4.3	3.81	-5.45	-5.45	-19.25
GEW-010	5/28/2020 1:24:54 PM	55.3	42.3	0.0	2.4	99.7	99.6	1.8	1.93	-4.94	-4.94	-18.27
GEW-013A	5/4/2020 9:19:29 AM	13.0	59.5	0.0	27.5	188.9	188.9	37.0	37.20	-8.78	-8.78	-18.22
GEW-013A	5/4/2020 9:21:00 AM	12.9	56.3	0.0	30.8	188.9	188.9	36.7	36.91	-8.78	-8.78	-18.05
GEW-013A	5/18/2020 9:42:47 AM	14.6	63.8	0.1	21.5	180.9	180.9	31.6	31.94	-12.52	-12.52	-19.84
GEW-013A	5/18/2020 9:44:00 AM	14.8	63.9	0.1	21.2	181.0	180.9	31.4	31.71	-12.30	-12.52	-19.33
GEW-015	5/4/2020 11:14:14 AM	39.2	50.8	0.0	10.0	111.7	111.7	3.2	3.37	-3.03	-3.03	-17.89
GEW-015	5/26/2020 3:50:09 PM	23.2	54.1	0.1	22.6	114.8	114.8	5.1	5.02	-2.86	-2.86	-18.62
GEW-016R	5/4/2020 11:04:52 AM	16.6	58.0	0.0	25.4	166.1	166.1	10.1	10.17	-2.95	-2.93	-17.93
GEW-016R	5/4/2020 11:05:59 AM	18.1	57.9	0.0	24.0	166.1	166.1	9.9	9.92	-2.93	-2.92	-18.01
GEW-016R	5/18/2020 10:25:10 AM	13.8	64.0	0.0	22.2	158.1	158.5	8.1	9.49	-3.07	-3.07	-19.12
GEW-016R	5/18/2020 10:26:41 AM	15.4	64.4	0.0	20.2	159.0	159.0	3.1	9.15	-3.19	-3.11	-19.38
GEW-018B	5/6/2020 1:31:41 PM	4.5	47.4	1.6	46.5	196.1	195.7	15.2	15.09	-2.06	-2.05	-19.07
GEW-018B	5/6/2020 1:32:44 PM	4.3	46.2	1.5	48.0	195.7	195.7	14.4	14.26	-2.04	-2.03	-18.77
GEW-018B	5/20/2020 2:01:47 PM	4.5	47.6	2.3	45.6	190.9	190.2	16.3	16.25	-2.53	-2.53	-19.55
GEW-018B	5/20/2020 2:02:58 PM	4.1	48.6	2.3	45.0	190.9	190.9	15.2	12.82	-1.94	-1.91	-19.04
GEW-019A	5/6/2020 1:43:36 PM	1.1	51.1	5.6	42.2	74.5	74.3	3.0	2.88	-15.87	-15.87	-18.18
GEW-019A	5/6/2020 1:45:02 PM	1.0	48.6	6.5	43.9	73.6	73.5	4.8	3.61	-15.87	-15.87	-18.14
GEW-019A	5/6/2020 1:47:09 PM	1.0	51.9	4.3	42.8	73.6	73.7	1.3	1.52	-15.91	-15.91	-18.10
GEW-019A	5/29/2020 2:59:38 PM	1.1	48.8	6.2	43.9	87.7	87.7	6.1	5.52	-17.01	-17.01	-18.73
GEW-019A	5/29/2020 3:00:32 PM	1.2	52.0	5.0	41.8	87.3	87.3	5.5	5.52	-17.01	-17.01	-18.56
GEW-039	5/6/2020 10:20:19 AM	19.9	27.2	3.2	49.7	104.3	104.5	16.8	14.66	-0.17	-0.17	-19.62
GEW-039	5/13/2020 9:51:04 AM	29.3	30.4	1.3	39.0	103.8	103.9	13.9	12.46	-0.17	-0.18	-20.08
GEW-039	5/13/2020 9:58:39 AM	29.3	30.7	1.1	38.9	103.6	103.6	12.9	10.88	-0.16	-0.17	-20.30
GEW-039	5/20/2020 1:40:41 PM	24.5	32.7	1.5	41.3	104.0	104.2	10.9	9.41	-0.18	-0.15	-19.63
GEW-039	5/20/2020 1:41:57 PM	24.3	31.8	1.5	42.4	104.3	104.3	12.1	8.59	-0.13	-0.13	-19.59
GEW-039	5/28/2020 2:41:07 PM	32.3	30.9	1.3	35.5	108.5	108.5	16.4	13.72	-0.18	-0.18	-18.52
GEW-040	5/6/2020 9:46:33 AM	55.9	36.5	0.0	7.6	61.6	61.7	15.5	14.38	-0.27	-0.27	-12.81
GEW-040	5/11/2020 2:43:33 PM	56.3	35.5	0.0	8.2	72.0	72.0	6.9	6.25	-0.19	-0.17	-12.76
GEW-040	5/11/2020 2:49:58 PM	57.1	34.3	0.0	8.6	71.8	71.8	7.9	7.91	-0.23	-0.23	-12.93
GEW-040	5/20/2020 9:26:22 AM	61.1	36.7	0.0	2.2	66.3	66.1	12.1	12.14	-0.16	-0.16	-12.97
GEW-040	5/20/2020 9:28:48 AM	61.3	36.0	0.0	2.7	65.9	65.9	6.2	4.31	-0.32	-0.35	-13.10
GEW-040	5/26/2020 9:06:53 AM	53.2	35.9	0.0	10.9	85.1	85.1	6.2	7.31	-0.29	-0.31	-13.14
GEW-041R	5/6/2020 9:50:03 AM	55.7	36.3	0.0	8.0	72.7	72.8	6.9	6.25	-0.11	-0.12	-12.93
GEW-041R	5/11/2020 2:55:21 PM	54.2	36.0	0.0	9.8	71.8	71.8	4.9	4.85	-0.02	-0.02	-12.93

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-041R	5/11/2020 3:01:33 PM	54.1	35.7	0.0	10.2	71.6	71.6	8.4	6.85	-0.06	-0.05	-12.97
GEW-041R	5/20/2020 9:31:38 AM	56.5	35.7	0.0	7.8	70.4	70.4	26.1	26.42	-0.14	-0.14	-13.02
GEW-041R	5/26/2020 9:09:50 AM	55.4	36.2	0.0	8.4	88.8	88.9	31.3	31.28	-0.06	-0.07	-13.14
GEW-042R	5/6/2020 9:54:03 AM	56.6	39.7	0.0	3.7	100.2	100.1	6.4	7.33	-3.14	-3.14	-12.76
GEW-042R	5/11/2020 3:10:14 PM	55.8	38.5	0.0	5.7	100.8	100.8	9.9	9.73	-3.02	-2.98	-12.59
GEW-042R	5/11/2020 3:16:54 PM	55.6	38.5	0.0	5.9	100.8	100.4	13.5	15.54	-2.96	-2.95	-12.43
GEW-042R	5/20/2020 9:34:26 AM	57.7	39.5	0.0	2.8	101.3	101.3	9.0	6.04	-3.38	-3.38	-13.10
GEW-042R	5/26/2020 9:12:30 AM	56.7	38.7	0.0	4.6	104.0	104.0	10.1	10.78	-3.19	-3.16	-13.10
GEW-043R	5/6/2020 9:59:37 AM	54.6	40.5	0.0	4.9	114.0	113.8	11.7	13.95	-1.32	-1.33	-12.93
GEW-043R	5/11/2020 3:55:44 PM	54.5	40.7	0.0	4.8	113.5	113.5	14.2	13.44	-0.84	-0.83	-13.35
GEW-043R	5/11/2020 4:01:16 PM	54.7	40.0	0.0	5.3	113.2	113.1	33.6	32.93	-0.94	-0.95	-13.27
GEW-043R	5/20/2020 9:37:17 AM	55.5	40.8	0.0	3.7	113.2	113.1	36.8	35.03	-1.27	-1.29	-13.61
GEW-043R	5/26/2020 9:15:16 AM	54.8	40.7	0.0	4.5	115.3	115.3	24.4	26.28	-1.26	-1.27	-13.48
GEW-044	5/6/2020 1:58:13 PM	41.1	32.8	0.0	26.1	71.1	71.8	1.3	1.22	-0.03	-0.02	-12.59
GEW-044	5/12/2020 9:22:04 AM	44.3	34.5	0.0	21.2	59.5	59.4	1.6	1.57	-0.19	-0.19	-13.10
GEW-044	5/12/2020 9:29:08 AM	42.4	34.4	0.0	23.2	59.8	59.7	1.5	1.50	-0.19	-0.19	-13.14
GEW-044	5/20/2020 9:41:24 AM	43.9	33.8	0.0	22.3	68.8	68.8	0.5	0.52	-0.23	-0.24	-12.97
GEW-044	5/27/2020 8:20:54 AM	50.5	36.6	0.0	12.9	70.7	70.7	1.6	2.34	-0.10	-0.09	-13.48
GEW-045R	5/6/2020 2:12:07 PM	54.1	38.7	0.0	7.2	92.0	92.2	8.6	8.61	-3.66	-3.66	-12.59
GEW-045R	5/12/2020 9:55:11 AM	53.9	38.9	0.0	7.2	87.0	87.2	7.2	8.20	-3.64	-3.64	-13.10
GEW-045R	5/12/2020 10:02:03 AM	54.0	38.6	0.0	7.4	87.0	87.0	7.2	7.73	-3.62	-3.61	-13.10
GEW-045R	5/20/2020 9:49:38 AM	53.5	39.2	0.0	7.3	90.1	90.3	2.7	2.72	-4.02	-3.99	-13.02
GEW-045R	5/27/2020 8:28:23 AM	54.7	39.3	0.0	6.0	91.6	91.6	7.7	7.70	-3.88	-3.88	-13.48
GEW-046R	5/6/2020 2:15:53 PM	50.3	37.7	0.0	12.0	94.6	94.4	7.3	7.25	-0.12	-0.12	-12.72
GEW-046R	5/12/2020 10:10:51 AM	49.2	37.6	0.0	13.2	87.2	87.2	7.3	7.29	-0.15	-0.15	-13.06
GEW-046R	5/12/2020 10:18:22 AM	49.5	37.0	0.0	13.5	87.2	87.5	6.7	6.89	-0.19	-0.19	-13.10
GEW-046R	5/20/2020 9:52:31 AM	48.8	38.0	0.0	13.2	90.5	90.3	4.8	4.76	-0.28	-0.28	-13.02
GEW-046R	5/20/2020 9:53:39 AM	48.6	37.8	0.0	13.6	90.6	90.5	7.3	6.14	-0.29	-0.29	-13.27
GEW-046R	5/27/2020 8:31:24 AM	49.1	37.5	0.0	13.4	92.4	92.4	8.2	8.23	-0.29	-0.29	-13.14
GEW-046R	5/27/2020 8:32:39 AM	48.9	37.5	0.0	13.6	92.3	92.4	6.1	6.13	-0.29	-0.29	-13.14
GEW-047R	5/6/2020 2:30:38 PM	50.0	40.8	0.0	9.2	98.4	98.4	20.8	20.79	-0.03	-0.03	-12.76
GEW-047R	5/12/2020 2:00:47 PM	50.9	39.3	0.0	9.8	94.9	94.8	7.8	7.75	-0.02	-0.02	-13.23
GEW-047R	5/12/2020 2:07:32 PM	50.2	39.6	0.0	10.2	95.0	94.8	6.3	6.39	-0.01	0.01	-13.18
GEW-047R	5/13/2020 8:26:15 AM	50.7	39.6	0.0	9.7	90.3	90.1	6.7	6.85	-0.14	-0.16	-13.27
GEW-047R	5/20/2020 10:10:06 AM	48.6	40.8	0.0	10.6	97.0	97.1	2.7	3.86	-0.31	-0.30	-13.40
GEW-047R	5/20/2020 10:11:17 AM	48.7	40.2	0.0	11.1	96.7	96.7	31.3	31.75	-0.29	-0.28	-13.27
GEW-047R	5/27/2020 9:18:27 AM	51.7	41.8	0.0	6.5	97.2	97.4	4.7	6.69	-0.15	-0.15	-13.23
GEW-048	5/6/2020 2:45:33 PM	55.6	38.9	0.0	5.5	94.1	94.3	16.7	15.00	-0.39	-0.40	-13.69
GEW-048	5/12/2020 2:26:10 PM	54.9	39.5	0.0	5.6	93.9	93.9	13.1	13.14	-0.23	-0.23	-13.86
GEW-048	5/12/2020 2:31:57 PM	55.0	39.6	0.0	5.4	93.4	93.4	14.5	12.26	-0.26	-0.24	-13.77



May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-048	5/20/2020 10:18:39 AM	54.6	39.3	0.0	6.1	94.8	94.8	10.6	10.59	-0.61	-0.61	-13.90
GEW-048	5/27/2020 9:24:30 AM	55.7	39.9	0.0	4.4	95.8	95.9	14.5	14.97	-0.47	-0.47	-14.24
GEW-049	5/6/2020 2:01:42 PM	46.7	35.7	0.0	17.6	78.4	78.4	19.5	18.44	-0.01	-0.02	-12.72
GEW-049	5/12/2020 9:34:40 AM	47.7	36.9	0.0	15.4	68.4	68.4	8.4	7.94	-0.16	-0.15	-13.10
GEW-049	5/12/2020 9:40:54 AM	47.7	36.7	0.0	15.6	68.4	68.5	8.9	8.42	-0.11	-0.11	-13.06
GEW-049	5/20/2020 9:45:15 AM	45.2	36.5	0.0	18.3	77.3	77.5	3.9	4.17	-0.18	-0.19	-12.93
GEW-049	5/20/2020 9:46:34 AM	45.2	36.4	0.0	18.4	77.7	77.5	5.6	5.56	-0.18	-0.18	-13.02
GEW-049	5/27/2020 8:23:40 AM	53.2	39.4	0.0	7.4	79.8	80.0	6.8	6.21	-0.07	-0.07	-13.14
GEW-050	5/6/2020 9:01:29 AM	52.7	36.2	0.0	11.1	92.7	92.7	3.9	3.88	-0.64	-0.64	-5.05
GEW-050	5/6/2020 9:02:54 AM	52.0	36.6	0.0	11.4	92.6	92.5	12.6	9.88	-0.62	-0.62	-6.66
GEW-050	5/11/2020 10:30:05 AM	53.9	39.0	0.0	7.1	94.3	94.3	11.6	6.71	-0.16	-0.17	-8.93
GEW-050	5/11/2020 10:36:31 AM	54.4	38.3	0.0	7.3	93.6	93.4	11.3	9.50	-0.09	-0.09	-6.61
GEW-050	5/20/2020 8:45:10 AM	54.0	37.7	0.0	8.3	95.3	95.3	5.5	4.74	-0.50	-0.51	-5.52
GEW-050	5/26/2020 8:33:11 AM	54.7	38.5	0.0	6.8	99.6	99.7	11.6	10.56	-0.28	-0.26	-9.22
GEW-051	5/6/2020 9:24:45 AM	54.5	41.8	0.0	3.7	110.7	110.3	13.2	13.20	-0.85	-0.85	-13.06
GEW-051	5/11/2020 11:42:17 AM	53.9	42.6	0.0	3.5	111.0	111.0	7.1	9.35	-0.30	-0.30	-13.06
GEW-051	5/11/2020 11:48:42 AM	54.2	42.5	0.0	3.3	110.7	110.7	27.4	26.44	-0.38	-0.38	-13.14
GEW-051	5/20/2020 9:03:19 AM	54.3	41.9	0.0	3.8	111.5	111.7	3.5	3.46	-0.71	-0.71	-13.52
GEW-051	5/26/2020 8:48:30 AM	53.5	41.6	0.0	4.9	117.6	117.8	9.3	10.72	-0.48	-0.48	-13.52
GEW-052	5/6/2020 9:06:04 AM	45.9	35.1	0.0	19.0	93.8	91.9	16.0	18.38	-0.21	-0.22	-13.40
GEW-052	5/6/2020 9:07:19 AM	45.4	35.4	0.0	19.2	92.4	92.4	13.7	13.16	-0.19	-0.18	-13.44
GEW-052	5/11/2020 10:43:11 AM	49.7	39.1	0.0	11.2	90.8	91.0	34.8	33.67	0.04	0.04	-12.97
GEW-052	5/11/2020 10:49:51 AM	50.3	38.2	0.0	11.5	92.7	92.4	9.2	9.02	0.06	0.06	-13.48
GEW-052	5/12/2020 8:26:10 AM	49.6	36.3	0.0	14.1	93.4	93.4	18.6	18.60	-0.12	-0.12	-13.48
GEW-052	5/20/2020 8:48:09 AM	48.0	36.2	0.0	15.8	98.2	97.0	3.6	3.66	-0.16	-0.16	-13.23
GEW-052	5/20/2020 8:50:25 AM	47.6	36.4	0.0	16.0	97.7	97.4	4.8	4.85	-0.15	-0.15	-13.52
GEW-052	5/26/2020 8:35:37 AM	50.3	37.5	0.0	12.2	103.5	103.6	28.2	27.72	-0.07	-0.05	-13.73
GEW-053	5/6/2020 9:30:39 AM	50.6	42.0	0.0	7.4	140.2	140.0	8.3	8.31	-0.71	-0.71	-12.72
GEW-053	5/6/2020 9:32:13 AM	50.6	42.5	0.0	6.9	139.9	140.2	39.3	38.92	-0.71	-0.72	-12.93
GEW-053	5/11/2020 1:35:51 PM	50.3	41.2	0.0	8.5	140.6	140.9	23.1	24.83	-0.22	-0.19	-13.02
GEW-053	5/11/2020 1:41:48 PM	50.4	41.8	0.0	7.8	141.0	140.9	26.6	24.68	-0.20	-0.20	-13.31
GEW-053	5/20/2020 9:11:21 AM	50.1	43.1	0.0	6.8	136.5	136.5	31.6	32.31	-0.58	-0.59	-13.40
GEW-053	5/20/2020 9:13:22 AM	50.4	42.8	0.0	6.8	137.1	137.1	31.4	30.86	-0.59	-0.59	-13.18
GEW-053	5/26/2020 8:55:00 AM	49.8	42.8	0.0	7.4	142.2	142.2	11.8	10.51	-0.43	-0.45	-13.82
GEW-053	5/26/2020 8:56:07 AM	49.5	43.2	0.0	7.3	141.9	141.5	25.1	25.88	-0.43	-0.43	-13.86
GEW-054	5/6/2020 9:35:17 AM	53.0	43.3	0.0	3.7	145.2	145.2	49.8	47.91	-4.39	-4.39	-13.31
GEW-054	5/6/2020 9:36:46 AM	53.1	43.6	0.0	3.3	145.2	145.2	62.9	58.74	-4.61	-4.56	-12.85
GEW-054	5/11/2020 1:46:47 PM	53.2	42.4	0.0	4.4	145.6	145.6	45.7	51.19	-4.04	-4.11	-13.61
GEW-054	5/11/2020 1:52:35 PM	53.6	41.7	0.0	4.7	145.4	145.4	47.7	43.53	-4.08	-4.00	-13.90
GEW-054	5/20/2020 9:16:22 AM	52.8	43.5	0.0	3.7	145.6	145.7	55.4	58.34	-4.44	-4.44	-13.48

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-054	5/20/2020 9:17:26 AM	52.9	43.5	0.0	3.6	145.6	145.7	61.9	61.03	-4.63	-4.53	-13.18
GEW-054	5/26/2020 8:58:42 AM	52.1	43.4	0.0	4.5	146.3	146.3	41.5	37.51	-4.01	-4.04	-13.35
GEW-054	5/26/2020 8:59:50 AM	52.1	43.8	0.0	4.1	146.3	146.3	48.9	53.13	-4.36	-4.38	-13.61
GEW-055	5/6/2020 9:42:32 AM	52.1	42.4	0.0	5.5	122.6	122.3	8.8	6.04	-0.94	-0.93	-12.72
GEW-055	5/11/2020 2:33:28 PM	52.0	42.1	0.0	5.9	123.1	123.1	5.7	8.34	-0.62	-0.61	-13.18
GEW-055	5/11/2020 2:39:45 PM	52.1	41.7	0.0	6.2	122.1	122.2	7.9	2.17	-0.61	-0.60	-13.02
GEW-055	5/20/2020 9:22:58 AM	52.1	42.9	0.0	5.0	123.7	123.7	7.3	7.19	-0.88	-0.87	-13.18
GEW-055	5/26/2020 9:04:10 AM	52.0	42.2	0.0	5.8	128.3	128.3	6.2	6.18	-0.81	-0.80	-13.27
GEW-056R	5/6/2020 8:20:40 AM	44.3	38.6	0.0	17.1	76.6	76.6	7.5	6.48	-0.51	-0.51	-19.83
GEW-056R	5/12/2020 8:43:51 AM	45.2	40.9	0.0	13.9	82.1	82.1	4.5	4.20	-0.43	-0.43	-19.66
GEW-056R	5/12/2020 8:50:15 AM	45.0	41.0	0.0	14.0	82.6	82.3	2.6	2.86	-0.39	-0.39	-19.96
GEW-056R	5/20/2020 11:17:11 AM	44.6	44.3	0.0	11.1	91.4	91.5	1.2	1.15	-0.37	-0.37	-19.33
GEW-056R	5/28/2020 1:21:43 PM	46.9	41.7	0.0	11.4	112.0	111.8	5.8	5.83	-0.24	-0.23	-18.65
GEW-057B	5/7/2020 2:33:49 PM	5.9	59.0	0.0	35.1	142.1	141.9	2.9	2.84	-5.84	-5.84	-19.17
GEW-057B	5/7/2020 2:35:06 PM	5.9	60.5	0.0	33.6	142.5	142.5	10.9	9.61	-6.17	-6.13	-18.83
GEW-057B	5/20/2020 3:07:47 PM	5.7	61.2	0.0	33.1	125.3	125.3	6.1	8.16	-7.82	-7.82	-18.66
GEW-058A	5/6/2020 3:36:51 PM	10.0	37.8	2.3	49.9	104.0	104.3	1.9	1.56	-8.20	-8.12	-18.49
GEW-058A	5/27/2020 10:01:53 AM	11.2	42.0	0.2	46.6	92.9	92.9	2.5	1.94	-9.47	-9.47	-19.55
GEW-059R	5/6/2020 3:24:11 PM	12.9	40.5	0.0	46.6	110.2	110.0	1.5	4.73	-9.47	-9.47	-18.74
GEW-059R	5/27/2020 9:51:12 AM	13.1	41.1	0.0	45.8	101.1	101.0	1.6	6.22	-10.78	-10.82	-19.21
GEW-067A	5/4/2020 9:41:50 AM	11.5	52.6	0.0	35.9	192.3	192.3	5.5	5.06	-13.04	-13.04	-18.35
GEW-067A	5/4/2020 9:43:19 AM	11.3	52.3	0.0	36.4	192.3	192.3	7.0	6.53	-13.04	-13.04	-17.97
GEW-067A	5/18/2020 9:20:00 AM	11.2	54.1	0.0	34.7	185.9	186.2	14.7	17.48	-14.88	-14.88	-19.46
GEW-067A	5/18/2020 9:21:36 AM	10.3	56.8	0.0	32.9	187.0	187.0	6.9	7.66	-12.35	-12.30	-19.33
GEW-068A	5/7/2020 10:18:22 AM	20.2	47.4	0.0	32.4	182.5	182.5	41.6	41.14	-11.06	-11.06	-18.14
GEW-068A	5/7/2020 10:19:57 AM	19.6	47.4	0.0	33.0	182.6	182.7	41.0	40.81	-11.06	-11.06	-18.73
GEW-068A	5/20/2020 3:22:09 PM	22.1	50.9	0.0	27.0	178.2	178.2	27.5	31.41	-12.90	-12.56	-18.41
GEW-068A	5/20/2020 3:23:20 PM	23.5	52.1	0.0	24.4	178.6	178.6	28.2	28.56	-12.81	-12.90	-18.66
GEW-078R	5/6/2020 10:33:35 AM	9.6	30.4	0.0	60.0	148.8	148.8	20.8	20.62	-9.50	-9.50	-18.60
GEW-078R	5/6/2020 10:34:47 AM	9.7	30.2	0.0	60.1	148.8	148.8	20.6	21.24	-9.50	-9.50	-18.73
GEW-078R	5/20/2020 2:26:44 PM	9.8	33.7	0.0	56.5	152.9	152.9	22.7	20.07	-9.85	-9.56	-18.70
GEW-078R	5/20/2020 2:27:52 PM	9.8	32.7	0.0	57.5	153.3	153.3	19.4	20.30	-9.77	-9.77	-18.66
GEW-082R	5/6/2020 10:28:33 AM	9.1	33.9	0.0	57.0	170.5	170.0	1.6	1.19	-4.83	-4.84	-18.65
GEW-082R	5/6/2020 10:29:41 AM	8.7	33.7	0.0	57.6	171.0	171.0	3.2	3.48	-4.96	-4.96	-18.69
GEW-082R	5/20/2020 2:39:18 PM	9.3	36.8	0.0	53.9	166.6	166.6	10.2	5.66	-4.76	-4.69	-18.32
GEW-082R	5/20/2020 2:40:16 PM	7.9	36.9	0.0	55.2	167.1	167.1	5.3	5.29	-4.68	-4.68	-18.74
GEW-086	5/4/2020 9:28:25 AM	10.5	29.6	4.9	55.0	162.9	162.9	4.4	4.10	-0.26	-0.27	-18.22
GEW-086	5/4/2020 9:30:11 AM	10.5	28.5	5.0	56.0	162.9	162.9	3.3	4.10	-0.26	-0.25	-18.10
GEW-086	5/4/2020 9:31:30 AM	10.3	27.9	5.0	56.8	161.8	161.6	2.8	3.12	-0.19	-0.20	-18.22
GEW-086	5/18/2020 9:32:56 AM	8.7	29.1	4.4	57.8	156.9	156.8	3.1	3.98	-0.12	-0.12	-19.59

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-086	5/18/2020 9:34:15 AM	8.6	30.2	4.3	56.9	157.1	157.1	3.6	3.41	-0.12	-0.11	-19.55
GEW-087	5/4/2020 10:37:16 AM	9.8	39.5	1.9	48.8	180.9	180.9	6.6	6.76	-5.07	-5.07	-18.22
GEW-087	5/4/2020 10:39:34 AM	9.6	40.9	1.9	47.6	180.3	180.3	6.4	6.42	-5.40	-5.40	-18.05
GEW-087	5/18/2020 10:07:51 AM	10.6	35.6	1.4	52.4	148.8	148.8	4.1	3.04	-11.50	-11.50	-19.42
GEW-087	5/18/2020 10:09:22 AM	10.8	33.9	1.4	53.9	148.4	148.4	10.3	10.25	-10.49	-10.49	-19.80
GEW-088	5/4/2020 9:23:58 AM	2.0	48.6	0.1	49.3	180.9	180.3	2.5	2.24	-0.61	-0.62	-17.93
GEW-088	5/4/2020 9:25:12 AM	1.8	46.9	0.1	51.2	181.0	181.3	2.5	2.49	-0.72	-0.71	-18.31
GEW-088	5/18/2020 9:37:08 AM	2.0	48.6	0.0	49.4	173.7	174.2	12.1	12.28	-1.31	-1.32	-19.29
GEW-088	5/18/2020 9:38:53 AM	1.9	49.7	0.0	48.4	175.3	175.3	5.4	5.36	-1.06	-1.06	-19.29
GEW-090	5/4/2020 9:53:04 AM	20.1	44.6	0.0	35.3	165.7	165.2	4.0	3.74	-10.13	-10.13	-18.48
GEW-090	5/4/2020 9:54:20 AM	20.8	42.1	0.0	37.1	165.7	165.5	3.9	4.08	-10.22	-10.17	-18.18
GEW-090	5/18/2020 9:08:04 AM	20.0	47.6	0.0	32.4	157.8	158.1	6.1	4.34	-11.67	-11.84	-19.84
GEW-090	5/18/2020 9:09:16 AM	20.4	46.1	0.0	33.5	157.3	157.3	8.0	4.23	-11.71	-11.75	-19.97
GEW-091	5/6/2020 8:39:23 AM	4.9	32.8	8.4	53.9	114.4	114.5	13.7	13.35	-17.60	-17.60	-19.28
GEW-091	5/6/2020 8:46:04 AM	7.8	46.8	1.5	43.9	112.5	112.7	11.8	11.51	-17.98	-17.98	-19.28
GEW-091	5/13/2020 11:34:34 AM	3.0	55.6	0.2	41.2	195.7	195.0	12.1	11.08	-12.37	-12.37	-19.41
GEW-091	5/13/2020 11:40:50 AM	2.6	50.8	0.3	46.3	197.2	197.6	12.7	12.56	-11.86	-11.86	-19.07
GEW-091	5/20/2020 11:40:13 AM	2.9	52.0	2.4	42.7	190.3	190.3	9.8	7.52	-14.25	-14.59	-19.38
GEW-091	5/20/2020 11:42:00 AM	2.7	54.7	2.1	40.5	190.9	190.9	12.1	10.47	-12.56	-12.60	-19.25
GEW-091	5/28/2020 1:43:15 PM	2.3	57.4	0.0	40.3	201.6	201.1	15.8	15.88	-6.80	-6.80	-18.77
GEW-091	5/28/2020 1:45:45 PM	2.1	58.1	0.0	39.8	201.6	200.8	18.1	17.90	-6.80	-6.84	-18.01
GEW-100	5/7/2020 9:52:58 AM	14.1	59.1	0.2	26.6	154.8	154.2	4.9	4.11	-5.40	-5.40	-18.69
GEW-100	5/7/2020 9:54:11 AM	14.1	59.9	0.0	26.0	154.4	154.4	3.2	6.15	-5.36	-5.36	-18.44
GEW-100	5/20/2020 3:45:03 PM	14.9	66.2	0.0	18.9	159.0	159.0	2.5	8.00	-6.47	-6.43	-18.58
GEW-100	5/20/2020 3:46:04 PM	14.9	67.0	0.0	18.1	159.4	159.4	4.5	4.50	-6.47	-6.47	-18.58
GEW-101	5/7/2020 10:05:11 AM	38.0	56.1	0.0	5.9	77.1	77.2	3.7	3.08	-0.19	-0.19	-18.05
GEW-101	5/27/2020 1:52:10 PM	37.6	61.3	0.0	1.1	82.6	82.6	3.1	4.52	-0.34	-0.31	-16.85
GEW-102	5/7/2020 2:48:31 PM	32.0	48.3	0.9	18.8	73.7	74.1	1.4	1.45	-18.01	-18.01	-18.79
GEW-102	5/27/2020 11:33:29 AM	27.6	48.1	0.7	23.6	68.8	68.8	2.0	0.51	-19.11	-18.99	-19.55
GEW-104	5/4/2020 1:32:13 PM	26.7	51.0	0.0	22.3	185.1	186.4	4.4	4.49	-3.89	-3.90	-20.13
GEW-104	5/4/2020 1:33:50 PM	25.3	52.4	0.0	22.3	186.4	185.7	4.7	4.61	-3.91	-3.90	-20.21
GEW-104	5/18/2020 11:40:16 AM	11.2	57.8	0.0	31.0	181.5	181.6	12.0	11.97	-4.49	-4.49	-19.21
GEW-104	5/18/2020 11:41:19 AM	11.2	58.1	0.0	30.7	182.1	182.1	15.2	15.15	-4.52	-4.52	-19.71
GEW-105	5/7/2020 2:09:37 PM	40.9	47.0	0.0	12.1	124.5	124.5	8.5	8.75	-8.88	-8.88	-19.46
GEW-105	5/27/2020 10:14:24 AM	40.9	48.4	0.1	10.6	120.2	120.2	9.5	15.78	-7.91	-7.91	-19.50
GEW-106	5/7/2020 2:02:00 PM	9.9	55.2	0.1	34.8	159.0	159.3	16.3	18.47	-1.51	-1.56	-18.83
GEW-106	5/7/2020 2:03:07 PM	9.9	55.6	0.1	34.4	159.4	159.4	22.9	22.20	-1.85	-1.79	-19.12
GEW-106	5/20/2020 2:54:35 PM	8.9	59.0	0.1	32.0	166.1	166.1	13.9	15.24	-1.28	-1.24	-18.70
GEW-106	5/20/2020 2:55:44 PM	8.7	60.6	0.1	30.6	166.1	166.6	20.8	21.23	-1.56	-1.54	-18.66
GEW-107	5/6/2020 3:28:21 PM	36.2	51.0	0.0	12.8	122.9	122.9	5.2	3.64	-1.29	-1.26	-18.45

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-107	5/27/2020 9:53:59 AM	36.5	52.4	0.0	11.1	119.2	119.2	7.3	7.33	-1.28	-1.28	-19.38
GEW-108	5/6/2020 10:10:30 AM	43.6	46.3	0.0	10.1	147.9	147.7	5.3	5.03	-7.68	-7.68	-18.69
GEW-108	5/6/2020 10:12:08 AM	43.2	47.3	0.0	9.5	148.0	148.0	2.8	2.65	-7.81	-7.81	-18.35
GEW-108	5/13/2020 10:23:48 AM	41.1	47.6	0.0	11.3	162.4	162.1	2.3	2.50	-5.45	-5.45	-19.45
GEW-108	5/13/2020 10:30:08 AM	41.2	47.0	0.0	11.8	162.4	162.0	2.7	1.80	-5.45	-5.45	-19.49
GEW-108	5/20/2020 1:23:39 PM	40.5	48.2	0.0	11.3	159.2	159.4	3.0	2.02	-4.82	-4.82	-19.12
GEW-108	5/20/2020 1:25:10 PM	40.3	48.7	0.0	11.0	160.0	160.2	4.6	3.78	-5.12	-5.24	-19.08
GEW-108	5/28/2020 2:25:53 PM	12.6	11.0	16.5	59.9	129.2	129.2	4.3	4.14	-0.45	-0.44	-17.97
GEW-108	5/28/2020 2:27:28 PM	12.5	10.9	16.4	60.2	129.4	127.9	2.6	1.07	-0.24	-0.23	-18.27
GEW-108	5/28/2020 2:42:54 PM	14.7	12.5	15.5	57.3	123.1	122.3	1.1	3.24	-0.24	-0.25	-17.89
GEW-109	5/6/2020 10:17:15 AM	43.0	42.6	0.5	13.9	78.5	78.6	3.0	2.19	-2.30	-2.29	-18.69
GEW-109	5/13/2020 10:03:15 AM	43.9	41.3	0.4	14.4	67.5	67.4	1.6	2.85	-2.06	-2.06	-19.66
GEW-109	5/13/2020 10:09:04 AM	43.7	41.3	0.5	14.5	67.7	67.7	1.6	1.57	-2.11	-2.10	-19.58
GEW-109	5/20/2020 1:38:06 PM	43.4	45.3	0.5	10.8	85.9	85.9	3.5	2.58	-2.03	-2.04	-19.63
GEW-109	5/28/2020 2:36:55 PM	49.8	43.1	0.4	6.7	103.0	103.0	2.2	1.12	-1.75	-1.74	-18.18
GEW-110	5/6/2020 8:25:38 AM	29.2	35.7	5.0	30.1	67.7	67.7	4.2	4.22	-0.12	-0.12	-19.70
GEW-110	5/6/2020 8:27:14 AM	29.9	37.0	4.3	28.8	67.3	67.3	1.4	1.87	-0.07	-0.07	-18.94
GEW-110	5/12/2020 9:03:09 AM	29.6	35.5	5.7	29.2	68.6	68.7	2.1	2.05	-0.04	-0.04	-19.79
GEW-110	5/12/2020 9:08:47 AM	29.8	35.0	5.8	29.4	68.7	68.7	2.7	2.68	-0.06	-0.05	-19.96
GEW-110	5/20/2020 11:10:01 AM	19.7	22.7	12.1	45.5	72.4	72.4	1.7	1.68	-0.15	-0.13	-19.33
GEW-110	5/20/2020 11:11:01 AM	19.7	22.6	12.1	45.6	71.4	71.4	1.2	1.19	-0.03	-0.02	-19.42
GEW-110	5/28/2020 1:27:41 PM	41.0	47.4	0.0	11.6	101.4	101.6	1.6	1.59	-0.01	-0.01	-18.65
GEW-113	5/4/2020 10:56:48 AM	14.6	59.1	0.0	26.3	176.9	176.9	8.5	8.62	-1.60	-1.59	-17.89
GEW-113	5/4/2020 10:58:08 AM	14.8	59.1	0.0	26.1	177.5	176.9	8.4	7.92	-1.61	-1.62	-17.97
GEW-113	5/18/2020 10:17:01 AM	12.0	66.6	0.3	21.1	172.1	172.1	9.2	6.99	-1.95	-1.93	-19.76
GEW-113	5/18/2020 10:18:14 AM	12.2	67.4	0.5	19.9	172.1	172.1	9.3	9.25	-1.94	-1.94	-19.42
GEW-116	5/4/2020 2:19:34 PM	46.8	53.2	0.0	0.0	146.6	146.6	10.8	10.75	-0.35	-0.34	-19.87
GEW-116	5/4/2020 2:20:57 PM	46.7	53.3	0.0	0.0	146.8	146.6	10.6	10.64	-0.36	-0.36	-20.00
GEW-116	5/18/2020 11:33:24 AM	25.0	58.4	0.5	16.1	111.0	111.0	7.8	7.60	-0.45	-0.50	-18.87
GEW-117	5/6/2020 1:41:07 PM	34.6	57.0	0.0	8.4	119.2	119.4	1.5	4.33	-15.20	-15.20	-18.44
GEW-117	5/29/2020 3:03:43 PM	32.0	57.0	0.0	11.0	124.2	124.7	4.9	5.41	-14.44	-14.44	-18.60
GEW-118	5/6/2020 2:31:59 PM	4.2	53.9	0.0	41.9	194.3	194.3	47.0	46.90	-2.54	-2.53	-18.10
GEW-118	5/6/2020 2:34:24 PM	3.7	56.0	0.0	40.3	194.3	194.3	46.8	46.99	-2.51	-2.53	-18.22
GEW-118	5/20/2020 2:05:55 PM	2.6	60.4	0.0	37.0	190.9	190.9	49.8	50.38	-2.69	-2.72	-19.00
GEW-118	5/20/2020 2:06:53 PM	2.5	63.0	0.0	34.5	191.5	191.6	50.6	50.59	-2.28	-2.28	-19.21
GEW-120	5/6/2020 1:49:22 PM	28.0	40.3	1.9	29.8	108.5	108.5	6.6	6.12	-3.08	-3.08	-18.18
GEW-120	5/29/2020 3:05:12 PM	41.4	44.5	0.7	13.4	108.0	108.0	1.6	1.56	-2.14	-2.14	-18.65
GEW-121	5/6/2020 2:26:26 PM	27.1	42.9	0.0	30.0	130.0	130.3	2.1	3.82	-2.30	-2.29	-18.01
GEW-121	5/27/2020 4:02:08 PM	33.9	54.0	0.0	12.1	150.2	150.2	2.3	3.26	-2.52	-2.51	-18.28
GEW-121	5/27/2020 4:03:07 PM	34.0	53.6	0.0	12.4	149.9	149.9	1.8	5.16	-2.51	-2.52	-18.41

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-122	5/6/2020 2:15:52 PM	40.9	36.9	0.0	22.2	99.4	99.4	11.9	12.39	-9.79	-9.79	-18.10
GEW-122	5/27/2020 3:42:06 PM	39.8	39.3	0.0	20.9	109.5	109.5	15.4	15.18	-9.47	-9.47	-18.28
GEW-123	5/6/2020 2:21:32 PM	35.2	54.6	0.0	10.2	78.4	78.4	5.7	4.96	-2.06	-2.06	-18.01
GEW-123	5/27/2020 3:51:21 PM	33.2	60.1	0.0	6.7	93.4	93.4	3.8	8.75	-2.02	-2.02	-18.16
GEW-124	5/6/2020 2:19:07 PM	45.1	35.3	4.2	15.4	65.5	65.1	0.1	0.21	-17.90	-17.90	-18.10
GEW-124	5/27/2020 3:48:40 PM	45.2	36.9	3.1	14.8	78.9	78.9	0.7	0.58	-17.93	-17.93	-18.03
GEW-125	5/7/2020 2:31:36 PM	37.2	46.1	0.0	16.7	82.8	83.0	1.6	0.66	-16.21	-16.21	-18.69
GEW-125	5/27/2020 3:32:49 PM	35.4	47.7	0.0	16.9	81.7	81.7	2.7	3.72	-17.25	-17.25	-18.70
GEW-126	5/7/2020 2:57:43 PM	23.2	52.5	0.1	24.2	79.5	79.2	4.4	3.33	-11.31	-11.31	-17.29
GEW-126	5/27/2020 3:27:26 PM	23.1	54.6	0.6	21.7	86.1	86.1	13.1	15.04	-12.85	-12.73	-16.81
GEW-127	5/7/2020 2:42:36 PM	16.7	48.6	0.7	34.0	104.8	104.8	14.3	13.45	-0.31	-0.31	-18.65
GEW-127	5/27/2020 3:17:10 PM	14.9	47.9	2.4	34.8	106.0	106.1	15.1	16.96	-0.52	-0.59	-18.07
GEW-129	5/7/2020 11:00:07 AM	36.5	51.7	0.0	11.8	122.6	122.6	23.3	23.51	-4.43	-4.43	-18.14
GEW-129	5/27/2020 2:50:29 PM	37.8	54.8	0.0	7.4	117.5	117.6	24.6	24.53	-4.53	-4.52	-18.66
GEW-130	5/7/2020 2:53:28 PM	23.9	45.3	0.0	30.8	155.6	155.7	5.9	8.09	-14.10	-14.10	-18.90
GEW-130	5/7/2020 2:54:46 PM	24.0	45.4	0.0	30.6	155.2	155.6	7.5	7.79	-14.10	-14.10	-18.69
GEW-130	5/20/2020 4:20:20 PM	22.8	48.7	0.0	28.5	151.3	151.0	3.3	8.19	-14.38	-14.38	-19.00
GEW-130	5/20/2020 4:21:30 PM	23.1	48.7	0.0	28.2	150.9	151.2	9.4	8.07	-14.59	-14.55	-18.58
GEW-131	5/7/2020 2:28:12 PM	39.9	46.3	0.0	13.8	128.6	128.6	1.1	0.96	-1.36	-1.37	-18.65
GEW-131	5/27/2020 3:35:56 PM	39.3	47.0	0.0	13.7	128.0	128.6	2.6	1.15	-1.89	-1.86	-18.37
GEW-132	5/6/2020 2:28:55 PM	17.2	32.0	1.6	49.2	129.5	129.7	4.1	4.63	-1.65	-1.65	-18.10
GEW-132	5/29/2020 3:07:45 PM	15.3	31.5	1.6	51.6	135.0	135.5	2.8	2.79	-1.63	-1.63	-18.56
GEW-132	5/29/2020 3:08:54 PM	15.1	31.1	1.7	52.1	135.0	134.8	2.4	2.79	-1.65	-1.64	-18.65
GEW-133	5/6/2020 1:37:59 PM	1.4	63.5	0.0	35.1	80.7	81.0	11.1	9.81	-11.14	-11.14	-18.18
GEW-133	5/29/2020 2:57:25 PM	1.1	61.7	3.3	33.9	86.8	87.0	4.9	4.41	-16.34	-16.34	-17.72
GEW-134	5/4/2020 2:17:17 PM	26.3	41.5	0.0	32.2	81.7	81.7	4.4	4.03	-0.28	-0.27	-19.96
GEW-134	5/26/2020 4:13:19 PM	5.1	36.8	0.6	57.5	97.1	97.2	4.6	4.55	-0.33	-0.37	-18.32
GEW-135	5/4/2020 2:00:22 PM	14.4	51.9	0.0	33.7	114.0	114.0	23.3	23.39	-0.72	-0.72	-18.77
GEW-135	5/26/2020 4:07:30 PM	3.6	53.9	0.1	42.4	118.4	118.9	28.9	27.07	-1.15	-1.19	-16.98
GEW-137	5/6/2020 10:38:33 AM	34.4	39.5	0.0	26.1	73.2	73.2	5.3	5.05	-2.78	-2.78	-18.52
GEW-137	5/29/2020 3:12:53 PM	37.9	39.4	0.1	22.6	90.3	90.4	6.6	5.80	-2.78	-2.79	-18.44
GEW-139	5/7/2020 2:21:26 PM	16.5	41.6	1.8	40.1	160.8	160.7	1.5	1.50	-5.15	-5.15	-18.77
GEW-139	5/7/2020 2:25:45 PM	16.8	40.8	1.9	40.5	160.6	161.1	0.7	0.67	-5.15	-5.15	-18.90
GEW-139	5/20/2020 4:01:30 PM	19.1	45.1	1.5	34.3	150.6	152.5	5.0	4.44	-6.13	-6.47	-18.45
GEW-139	5/20/2020 4:02:38 PM	18.7	45.4	1.6	34.3	152.9	153.3	3.1	3.53	-6.47	-6.47	-18.79
GEW-140	5/7/2020 2:13:01 PM	26.6	41.9	0.0	31.5	139.6	139.3	12.1	11.96	-4.22	-4.21	-17.55
GEW-140	5/7/2020 2:14:18 PM	27.3	42.2	0.0	30.5	137.1	137.1	12.9	11.87	-4.21	-4.21	-17.55
GEW-140	5/20/2020 3:50:24 PM	28.8	46.0	0.0	25.2	125.0	125.0	11.4	10.71	-4.78	-4.78	-17.02
GEW-144	5/7/2020 3:33:04 PM	1.0	1.2	19.8	78.0	80.3	80.3	0.3	0.28	-4.95	-4.95	-18.65
GEW-144	5/7/2020 3:35:17 PM	22.0	17.0	12.2	48.8	79.6	79.6	0.3	0.12	-6.75	-6.75	-18.60

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-144	5/20/2020 3:30:41 PM	53.3	39.0	2.7	5.0	71.1	70.9	0.8	0.17	-17.97	-17.97	-18.53
GEW-145	5/7/2020 2:52:21 PM	36.3	48.8	0.0	14.9	79.8	79.8	3.4	2.25	-17.67	-17.67	-19.29
GEW-145	5/27/2020 11:39:29 AM	33.2	50.4	0.0	16.4	71.6	71.6	7.2	5.09	-18.56	-18.60	-19.55
GEW-147	5/4/2020 11:08:36 AM	26.7	47.3	1.6	24.4	162.0	162.0	17.5	17.38	-6.42	-6.42	-17.93
GEW-147	5/4/2020 11:09:58 AM	28.0	46.6	1.6	23.8	162.0	162.0	17.4	17.35	-6.42	-6.42	-18.05
GEW-147	5/18/2020 10:29:59 AM	23.1	50.6	1.6	24.7	157.3	157.3	12.2	16.23	-7.10	-7.27	-19.55
GEW-147	5/18/2020 10:31:18 AM	23.3	49.9	1.6	25.2	157.3	157.3	17.5	17.48	-6.77	-6.77	-19.71
GEW-148	5/4/2020 10:44:13 AM	20.6	52.7	0.0	26.7	154.5	154.8	6.4	4.12	-4.90	-4.90	-17.89
GEW-148	5/4/2020 10:46:38 AM	20.8	53.0	0.0	26.2	154.8	154.8	5.4	5.20	-4.90	-4.90	-18.01
GEW-148	5/18/2020 10:03:19 AM	18.6	57.1	0.0	24.3	149.1	149.1	5.6	6.16	-5.20	-5.16	-19.33
GEW-148	5/18/2020 10:04:43 AM	19.0	57.7	0.0	23.3	149.5	149.5	14.0	7.47	-5.24	-5.16	-19.55
GEW-149	5/4/2020 9:45:56 AM	6.9	23.4	0.1	69.6	77.7	77.7	3.0	1.46	-0.09	-0.08	-18.56
GEW-149	5/26/2020 3:32:01 PM	9.0	24.0	0.1	66.9	89.6	89.6	1.2	1.63	-0.09	-0.10	-18.87
GEW-150	5/8/2020 3:04:38 PM	28.4	43.3	1.4	26.9	168.6	168.6	9.1	9.16	-1.43	-1.42	-18.27
GEW-150	5/8/2020 3:06:08 PM	28.4	42.5	1.3	27.8	168.5	168.1	9.3	9.30	-1.42	-1.41	-18.69
GEW-150	5/21/2020 8:13:42 AM	25.8	44.3	2.4	27.5	176.4	176.5	14.9	14.09	-2.00	-1.99	-19.92
GEW-150	5/21/2020 8:14:50 AM	25.4	44.6	2.4	27.6	176.6	176.4	11.9	13.78	-1.86	-1.90	-20.01
GEW-151	5/4/2020 9:39:19 AM	7.2	41.7	2.3	48.8	75.5	75.5	3.4	1.88	-0.09	-0.08	-17.93
GEW-151	5/26/2020 3:34:45 PM	8.7	42.9	2.3	46.1	91.9	91.9	4.0	4.98	-0.14	-0.10	-18.53
GEW-152	5/6/2020 3:31:14 PM	18.6	45.2	2.0	34.2	87.0	87.0	3.3	3.04	-3.73	-3.72	-18.37
GEW-152	5/27/2020 9:56:54 AM	21.8	51.8	0.1	26.3	91.7	91.7	2.6	2.55	-3.78	-3.78	-19.46
GEW-153	5/6/2020 3:21:29 PM	21.4	30.3	0.0	48.3	116.3	116.3	4.3	7.73	-10.49	-10.57	-18.87
GEW-153	5/27/2020 9:48:26 AM	22.5	32.3	0.0	45.2	116.0	116.0	5.3	6.87	-10.15	-10.15	-19.46
GEW-156	5/7/2020 3:14:40 PM	38.5	46.7	0.0	14.8	109.1	109.2	5.4	5.54	-9.77	-9.89	-18.79
GEW-156	5/27/2020 11:48:06 AM	35.2	47.4	0.0	17.4	102.3	102.3	4.7	3.64	-10.49	-10.82	-19.55
GEW-157	5/7/2020 2:28:00 PM	37.9	44.4	1.0	16.7	100.4	100.4	3.7	3.13	-8.54	-8.54	-18.66
GEW-157	5/27/2020 11:09:59 AM	38.9	45.3	0.9	14.9	88.8	88.4	6.0	2.67	-9.47	-9.47	-20.01
GEW-158	5/7/2020 2:06:15 PM	26.6	49.1	0.0	24.3	110.5	110.5	5.0	6.74	-1.26	-1.27	-19.25
GEW-158	5/27/2020 10:11:22 AM	27.5	47.1	0.0	25.4	91.9	92.0	1.1	1.98	-1.39	-1.38	-19.21
GEW-160	5/6/2020 8:35:48 AM	21.9	39.0	0.1	39.0	62.3	62.3	5.4	4.96	-6.46	-6.46	-19.28
GEW-160	5/13/2020 11:23:19 AM	24.0	39.7	0.0	36.3	56.7	56.7	0.8	0.66	-5.57	-5.57	-19.41
GEW-160	5/13/2020 11:29:18 AM	24.6	38.6	0.0	36.8	56.4	56.3	2.8	2.17	-5.45	-5.45	-19.37
GEW-160	5/20/2020 11:37:43 AM	24.3	42.2	0.0	33.5	73.7	73.8	2.3	2.03	-6.13	-6.13	-18.91
GEW-160	5/28/2020 1:35:05 PM	23.2	40.0	0.1	36.7	91.0	91.0	1.1	1.13	-4.77	-4.77	-18.27
GEW-161	5/6/2020 8:32:58 AM	7.8	53.1	0.0	39.1	70.4	70.7	4.8	3.62	-4.10	-4.10	-19.62
GEW-161	5/13/2020 11:13:23 AM	7.9	54.2	0.0	37.9	78.7	78.7	2.1	3.02	-3.40	-3.40	-19.28
GEW-161	5/13/2020 11:19:17 AM	8.0	53.7	0.0	38.3	79.0	78.9	4.8	3.72	-3.34	-3.34	-19.07
GEW-161	5/20/2020 11:44:10 AM	8.0	62.0	0.0	30.0	108.7	108.7	4.8	1.10	-3.70	-3.67	-19.33
GEW-161	5/28/2020 1:32:25 PM	6.9	55.9	0.0	37.2	109.7	109.6	4.7	3.96	-2.87	-2.87	-18.44
GEW-162	5/6/2020 8:30:53 AM	15.0	59.4	0.0	25.6	57.4	57.4	6.3	5.73	-3.00	-2.99	-19.79

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-162	5/13/2020 11:03:20 AM	14.0	60.3	0.0	25.7	56.7	56.7	3.7	3.88	-2.60	-2.60	-19.49
GEW-162	5/13/2020 11:09:02 AM	14.0	57.9	0.0	28.1	56.5	56.5	3.7	3.48	-2.64	-2.63	-19.28
GEW-162	5/20/2020 11:46:55 AM	13.8	70.9	0.0	15.3	78.2	78.2	3.9	3.31	-2.87	-2.88	-19.33
GEW-162	5/28/2020 1:30:06 PM	16.0	60.9	0.0	23.1	91.2	91.2	5.9	4.82	-3.20	-3.19	-18.60
GEW-163	5/6/2020 2:02:03 PM	33.1	54.0	0.0	12.9	126.1	126.4	9.1	10.39	-6.75	-6.75	-18.35
GEW-163	5/27/2020 3:53:51 PM	30.8	61.0	0.0	8.2	130.6	130.3	31.6	30.52	-6.43	-6.43	-18.24
GEW-164	5/6/2020 2:03:26 PM	35.5	48.1	0.0	16.4	142.9	142.9	17.2	16.24	-0.83	-0.84	-18.10
GEW-164	5/6/2020 2:04:44 PM	35.7	47.5	0.0	16.8	143.2	142.9	18.9	19.31	-0.79	-0.80	-18.48
GEW-164	5/20/2020 2:15:14 PM	32.2	49.8	0.0	18.0	141.2	141.2	22.5	22.48	-0.96	-0.96	-19.33
GEW-164	5/20/2020 2:16:20 PM	32.5	49.5	0.0	18.0	141.2	141.3	23.3	27.02	-0.97	-0.97	-19.12
GEW-165	5/6/2020 2:07:41 PM	20.8	44.5	3.3	31.4	144.5	144.2	12.6	9.94	-0.21	-0.20	-17.89
GEW-165	5/6/2020 2:08:54 PM	20.8	44.2	3.3	31.7	144.5	144.2	9.6	6.96	-0.21	-0.22	-18.39
GEW-165	5/20/2020 2:19:02 PM	17.5	43.6	4.6	34.3	145.6	145.3	13.4	13.39	-0.17	-0.16	-18.66
GEW-165	5/20/2020 2:20:20 PM	17.4	44.4	4.7	33.5	145.6	145.6	10.7	7.90	-0.17	-0.20	-18.58
GEW-166	5/5/2020 3:48:43 PM	8.8	46.4	3.2	41.6	166.1	166.1	15.0	14.95	-10.57	-10.57	-18.79
GEW-166	5/5/2020 3:50:34 PM	8.2	47.2	3.3	41.3	166.6	166.6	5.1	12.05	-11.16	-10.99	-18.74
GEW-166	5/19/2020 8:59:19 AM	8.2	47.4	2.6	41.8	163.8	163.8	15.7	16.99	-12.18	-12.18	-19.59
GEW-166	5/19/2020 9:00:24 AM	8.5	47.4	2.2	41.9	164.7	164.7	10.2	12.81	-12.60	-12.81	-20.18
GEW-167	5/6/2020 2:11:55 PM	17.4	45.2	0.0	37.4	138.4	138.7	3.6	2.95	-7.01	-7.01	-18.18
GEW-167	5/6/2020 2:13:12 PM	17.4	46.4	0.0	36.2	138.7	138.7	3.5	1.09	-7.01	-7.01	-18.27
GEW-167	5/20/2020 2:23:22 PM	15.6	48.8	0.0	35.6	135.0	135.2	4.3	3.92	-6.81	-6.81	-18.74
GEW-167	5/20/2020 2:24:23 PM	15.5	49.5	0.0	35.0	135.6	135.6	7.7	4.79	-6.89	-6.85	-18.74
GEW-168	5/7/2020 3:53:37 PM	39.4	49.0	0.5	11.1	106.5	106.5	2.6	3.74	-0.37	-0.37	-18.48
GEW-168	5/27/2020 3:30:11 PM	37.9	55.1	0.7	6.3	104.9	104.8	8.4	8.42	-0.33	-0.33	-18.37
GEW-169	5/7/2020 2:38:24 PM	21.3	47.9	0.0	30.8	123.5	123.4	5.7	5.74	-0.04	-0.05	-18.69
GEW-169	5/27/2020 3:24:51 PM	21.6	48.5	0.4	29.5	121.5	121.3	9.7	9.69	-0.03	-0.03	-18.03
GEW-170	5/7/2020 2:49:49 PM	14.3	40.9	2.3	42.5	135.6	135.8	2.5	2.51	-0.21	-0.21	-18.31
GEW-170	5/7/2020 2:50:58 PM	13.8	41.7	2.3	42.2	136.5	136.2	2.5	2.51	-0.21	-0.21	-18.44
GEW-170	5/20/2020 4:18:00 PM	11.5	41.9	4.7	41.9	122.2	122.1	2.6	6.84	-0.22	-0.22	-18.74
GEW-171	5/7/2020 10:25:56 AM	16.1	54.0	0.8	29.1	75.0	75.2	6.9	6.76	-0.07	-0.06	-18.31
GEW-171	5/27/2020 2:34:37 PM	11.0	66.9	0.0	22.1	74.3	NR	6.2	NR	-4.08	NR	-18.66
GEW-171	5/27/2020 2:35:44 PM	10.9	67.3	0.0	21.8	76.1	76.3	4.9	14.36	-7.44	-7.32	-18.37
GEW-172	5/7/2020 10:29:10 AM	16.9	39.7	5.6	37.8	151.7	152.0	6.5	6.67	-5.99	-5.99	-18.05
GEW-172	5/7/2020 10:30:30 AM	17.2	38.9	4.6	39.3	152.1	151.7	5.3	3.50	-5.99	-5.99	-17.59
GEW-172	5/20/2020 4:04:57 PM	19.6	45.7	2.8	31.9	152.1	151.7	2.4	4.84	-6.47	-6.47	-18.66
GEW-172	5/20/2020 4:06:05 PM	19.5	46.0	2.9	31.6	151.7	152.1	2.4	4.84	-6.47	-6.47	-18.49
GEW-174	5/7/2020 2:06:02 PM	12.6	32.7	0.0	54.7	118.4	117.9	6.7	6.92	-2.31	-2.30	-19.11
GEW-174	5/27/2020 2:25:41 PM	13.3	36.7	0.0	50.0	118.7	118.7	11.0	12.12	-2.70	-2.70	-18.49
GEW-175	5/7/2020 2:17:25 PM	31.2	38.3	2.9	27.6	135.5	135.3	39.1	39.38	-0.22	-0.21	-19.80
GEW-175	5/7/2020 2:18:56 PM	31.3	37.7	2.8	28.2	135.3	135.3	28.4	27.45	-0.23	-0.23	-19.80

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-175	5/20/2020 3:02:26 PM	31.5	39.0	3.1	26.4	133.8	133.5	32.1	35.19	-0.28	-0.34	-19.67
GEW-175	5/20/2020 3:03:41 PM	31.8	38.6	3.1	26.5	133.7	133.6	34.3	40.06	-0.27	-0.29	-19.42
GEW-177	5/7/2020 10:55:34 AM	15.2	46.7	0.0	38.1	155.2	155.6	9.1	9.53	-14.56	-14.56	-16.32
GEW-177	5/7/2020 10:56:44 AM	14.5	48.7	0.0	36.8	154.5	154.9	4.6	7.83	-14.56	-14.56	-15.81
GEW-177	5/20/2020 4:14:24 PM	11.4	50.2	0.0	38.4	169.5	169.5	10.3	19.88	-13.53	-13.57	-17.57
GEW-177	5/20/2020 4:15:32 PM	10.9	53.0	0.1	36.0	169.0	169.0	10.3	25.01	-13.91	-13.70	-17.40
GEW-178	5/7/2020 2:44:20 PM	42.4	44.9	1.9	10.8	84.7	84.7	2.6	1.64	-0.41	-0.42	-17.44
GEW-178	5/27/2020 11:15:59 AM	36.2	43.2	4.3	16.3	72.5	72.6	4.5	3.36	-0.48	-0.48	-18.32
GEW-179	5/7/2020 3:20:49 PM	53.8	46.2	0.0	0.0	94.1	94.2	12.8	11.23	-1.17	-1.14	-18.07
GEW-179	5/7/2020 3:22:26 PM	53.4	46.6	0.0	0.0	95.3	95.8	10.0	8.36	-1.57	-1.56	-17.14
GEW-179	5/27/2020 11:29:31 AM	48.8	50.4	0.1	0.7	86.6	86.4	5.3	10.99	-2.67	-2.69	-18.28
GEW-180	5/7/2020 10:08:27 AM	35.0	57.7	0.3	7.0	83.7	83.8	6.3	6.51	-14.77	-14.77	-16.83
GEW-180	5/27/2020 1:48:45 PM	35.1	62.3	0.3	2.3	92.6	92.7	5.1	3.13	-14.88	-14.88	-16.34
GEW-181	5/7/2020 3:39:14 PM	10.2	16.3	14.6	58.9	79.7	79.7	3.4	3.71	-17.90	-17.90	-18.99
GEW-181	5/7/2020 3:40:55 PM	9.5	14.7	16.0	59.8	79.4	79.2	4.3	4.18	-18.24	-18.24	-18.60
GEW-181	5/20/2020 3:42:23 PM	29.9	69.5	0.3	0.3	72.3	72.3	12.2	11.21	-16.03	-15.90	-17.94
GEW-185	5/6/2020 1:54:35 PM	31.4	40.6	0.8	27.2	128.3	128.2	11.3	9.21	-2.97	-2.95	-18.60
GEW-185	5/27/2020 4:05:11 PM	34.2	48.6	0.2	17.0	126.7	126.9	6.1	6.72	-1.89	-1.88	-18.32
GEW-185	5/27/2020 4:06:26 PM	34.1	48.4	0.2	17.3	126.4	126.4	4.9	6.09	-1.78	-1.74	-18.28
GEW-186	5/7/2020 2:44:30 PM	39.5	44.3	0.5	15.7	95.5	95.5	1.1	1.14	-0.01	-0.04	-18.31
GEW-186	5/27/2020 3:05:38 PM	45.7	46.0	0.5	7.8	87.6	87.8	15.4	15.39	-0.18	-0.18	-18.28
GEW-187	5/6/2020 10:14:46 AM	45.0	50.4	0.0	4.6	100.4	100.4	6.9	8.27	-2.14	-2.14	-18.94
GEW-187	5/13/2020 10:14:12 AM	45.4	49.1	0.0	5.5	97.4	97.7	7.3	7.14	-2.05	-2.06	-19.58
GEW-187	5/13/2020 10:19:53 AM	45.1	49.0	0.0	5.9	98.2	98.3	7.5	5.70	-2.09	-2.09	-19.53
GEW-187	5/20/2020 1:28:02 PM	44.3	51.5	0.0	4.2	106.8	106.7	7.5	9.76	-2.17	-2.17	-18.96
GEW-187	5/28/2020 2:34:30 PM	49.7	50.0	0.0	0.3	114.5	114.4	6.1	4.23	-2.10	-2.09	-18.14
GEW-217	5/7/2020 2:39:02 PM	14.2	61.8	0.0	24.0	183.9	181.6	11.7	8.84	-7.53	-7.53	-12.47
GEW-217	5/7/2020 2:40:11 PM	14.8	61.6	0.0	23.6	183.3	183.3	10.0	4.10	-7.53	-7.53	-11.88
GEW-217	5/20/2020 3:10:50 PM	10.2	63.2	0.0	26.6	171.6	172.1	9.0	19.50	-7.86	-8.12	-11.08
GEW-217	5/20/2020 3:11:57 PM	10.6	64.5	0.0	24.9	173.1	172.6	4.6	6.21	-7.78	-7.74	-11.20
GEW-218	5/7/2020 3:04:27 PM	28.4	44.6	1.0	26.0	108.3	108.2	9.3	6.20	-0.57	-0.57	-19.17
GEW-218	5/27/2020 11:43:16 AM	23.6	48.1	0.8	27.5	113.9	114.0	10.8	10.80	-0.66	-0.66	-19.92
GEW-220	5/7/2020 3:08:54 PM	29.9	55.5	0.0	14.6	180.4	180.8	7.0	6.02	-5.16	-5.16	-19.08
GEW-220	5/7/2020 3:10:14 PM	30.8	55.8	0.0	13.4	181.5	181.5	8.5	10.46	-5.12	-5.16	-19.04
GEW-220	5/20/2020 3:15:39 PM	29.3	57.6	0.0	13.1	177.5	177.5	2.4	3.53	-6.55	-6.60	-17.31
GEW-220	5/20/2020 3:16:42 PM	30.7	56.7	0.0	12.6	177.5	177.5	5.3	6.99	-6.47	-6.47	-18.28
GEW-221	5/7/2020 10:11:42 AM	29.0	54.5	0.0	16.5	101.3	101.1	3.0	4.07	-14.77	-14.77	-18.56
GEW-221	5/27/2020 2:07:51 PM	33.8	56.2	0.0	10.0	86.8	86.5	11.3	5.78	-16.91	-16.49	-18.53
GEW-222	5/7/2020 10:23:08 AM	40.9	41.6	0.2	17.3	76.6	76.6	5.8	4.28	-9.71	-9.71	-18.27
GEW-222	5/27/2020 2:30:27 PM	39.6	44.5	0.0	15.9	79.3	79.3	8.3	11.34	-10.15	-10.15	-18.49



May 2020 Wellfield Monitoring Data - Bridgeton Landfill

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		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-223	5/7/2020 10:38:36 AM	33.2	59.6	0.0	7.2	110.8	110.7	3.5	3.47	-4.98	-4.98	-16.53
GEW-223	5/27/2020 2:42:21 PM	33.8	65.0	0.0	1.2	106.0	105.7	16.3	16.30	-5.88	-5.88	-18.07
GEW-224	5/7/2020 10:40:30 AM	33.8	56.7	0.0	9.5	150.2	150.2	10.5	11.09	-12.75	-12.75	-17.12
GEW-224	5/7/2020 10:41:39 AM	33.8	55.7	0.0	10.5	151.8	152.1	10.5	10.37	-12.75	-12.75	-17.67
GEW-224	5/20/2020 4:10:44 PM	34.2	58.9	0.0	6.9	149.1	149.1	10.0	9.77	-12.90	-12.94	-18.45
GEW-224	5/20/2020 4:11:55 PM	33.6	60.1	0.0	6.3	149.1	149.1	11.2	10.76	-12.90	-12.90	-18.58
GEW-225	5/7/2020 10:45:08 AM	19.2	49.9	0.2	30.7	156.5	155.6	8.4	8.38	-6.33	-6.33	-17.93
GEW-225	5/7/2020 10:46:07 AM	18.7	50.2	0.3	30.8	156.0	156.0	8.6	7.86	-6.33	-6.33	-18.35
GEW-225	5/20/2020 4:08:20 PM	29.3	45.9	0.4	24.4	118.6	118.6	8.9	6.49	-10.87	-10.87	-19.00
GEW-226	5/7/2020 2:17:15 PM	13.9	37.0	0.0	49.1	178.0	177.5	16.8	16.22	-2.44	-2.45	-19.07
GEW-226	5/7/2020 2:18:24 PM	13.4	37.2	0.0	49.4	178.0	178.0	16.6	16.61	-2.49	-2.49	-19.07
GEW-226	5/20/2020 3:57:21 PM	12.6	39.1	0.1	48.2	175.8	175.8	16.1	17.02	-3.14	-3.14	-18.58
GEW-226	5/20/2020 3:58:21 PM	12.7	39.2	0.0	48.1	176.9	176.9	17.2	17.83	-3.14	-3.15	-18.91
GEW-227	5/4/2020 2:03:17 PM	8.5	51.3	0.0	40.2	189.2	188.9	11.8	11.76	0.18	0.17	-19.96
GEW-227	5/4/2020 2:06:02 PM	8.4	54.3	0.0	37.3	193.6	193.6	19.9	20.40	-0.10	-0.11	-20.08
GEW-227	5/18/2020 10:48:11 AM	8.1	50.4	0.8	40.7	190.6	190.9	26.2	26.19	-0.35	-0.35	-19.29
GEW-227	5/18/2020 10:49:40 AM	9.9	50.0	0.8	39.3	191.6	191.6	17.1	21.06	-0.54	-0.53	-19.42
GEW-228	5/4/2020 11:15:47 AM	13.9	33.3	4.0	48.8	190.2	190.2	3.8	3.69	-0.02	-0.01	-17.93
GEW-228	5/4/2020 11:17:07 AM	14.2	32.2	4.0	49.6	189.7	190.0	3.5	3.19	-0.01	-0.01	-17.93
GEW-228	5/18/2020 10:35:05 AM	10.5	43.8	1.1	44.6	189.6	189.6	14.3	17.09	-0.26	-0.20	-19.25
GEW-228	5/18/2020 10:36:09 AM	12.5	44.0	1.1	42.4	189.6	189.6	13.9	11.70	-0.23	-0.27	-19.38
GEW-229	5/4/2020 10:29:49 AM	3.1	12.3	9.2	75.4	97.9	98.0	4.0	3.47	-0.01	-0.01	-18.22
GEW-229	5/4/2020 10:33:23 AM	3.0	11.6	9.1	76.3	97.9	98.1	4.2	4.86	-0.03	-0.03	-18.10
GEW-229	5/18/2020 10:39:28 AM	8.3	14.0	10.5	67.2	90.6	90.7	2.8	6.61	-0.05	-0.02	-19.46
GEW-229	5/18/2020 10:40:34 AM	8.3	13.7	10.5	67.5	88.2	88.2	7.9	6.33	-0.04	-0.03	-19.21
GEW-230	5/4/2020 9:34:31 AM	1.7	23.8	8.4	66.1	162.4	162.0	2.7	1.77	0.01	0.01	-17.93
GEW-230	5/4/2020 9:36:18 AM	1.5	23.6	8.4	66.5	164.7	164.9	3.4	2.93	-0.01	-0.01	-18.01
GEW-230	5/18/2020 9:28:56 AM	0.7	16.4	13.3	69.6	162.0	162.1	3.2	6.20	-0.04	-0.04	-19.97
GEW-230	5/18/2020 9:30:02 AM	0.7	16.3	13.3	69.7	162.8	162.0	6.4	3.06	-0.04	-0.03	-19.76
GEW-232	5/4/2020 10:52:44 AM	31.2	58.5	0.0	10.3	164.7	165.2	7.6	8.50	-1.76	-1.75	-18.18
GEW-232	5/4/2020 10:54:40 AM	32.1	57.9	0.0	10.0	165.1	164.7	7.6	8.43	-1.76	-1.75	-18.01
GEW-232	5/18/2020 10:12:39 AM	29.3	64.7	0.0	6.0	163.8	163.8	6.5	3.51	-1.72	-1.70	-19.42
GEW-232	5/18/2020 10:13:44 AM	29.6	65.4	0.0	5.0	163.8	164.3	7.6	8.40	-1.69	-1.66	-19.63
GEW-233	5/4/2020 2:08:36 PM	8.1	47.4	0.0	44.5	71.1	NR	NR	NR	NR	NR	NR
GEW-233	5/5/2020 9:12:18 AM	4.0	53.1	0.0	42.9	54.2	54.2	2.5	4.11	0.50	0.50	-19.20
GEW-233	5/5/2020 9:14:32 AM	4.0	56.2	0.0	39.8	54.6	54.7	4.3	2.79	-0.69	-0.69	-19.75
GEW-233	5/26/2020 4:10:22 PM	3.2	36.9	1.6	58.3	112.0	112.1	29.2	29.23	-0.35	-0.35	-11.58
GEW-234	5/6/2020 2:36:18 PM	1.6	59.9	0.0	38.5	204.7	204.7	7.5	7.34	-0.06	-0.05	-18.48
GEW-234	5/6/2020 2:37:49 PM	1.6	56.5	0.0	41.9	204.7	204.6	6.4	6.21	-0.05	-0.06	-18.14
GEW-234	5/20/2020 2:09:29 PM	0.8	66.5	0.0	32.7	201.6	201.6	7.6	4.56	-0.03	-0.02	-18.87

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

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		(% vol)				°F		scfm		H <sub>2</sub> O		
GEW-234	5/20/2020 2:10:47 PM	0.9	64.2	0.0	34.9	201.7	201.7	2.4	4.28	-0.17	-0.16	-18.91
GEW-235	5/6/2020 2:24:03 PM	26.4	47.9	0.0	25.7	117.8	117.5	2.1	1.84	-3.57	-3.56	-18.18
GEW-235	5/27/2020 3:56:08 PM	27.1	54.5	0.0	18.4	129.1	129.4	5.8	13.82	-3.59	-3.72	-18.16
GEW-236	5/6/2020 10:41:37 AM	3.0	30.8	4.8	61.4	201.0	200.9	6.1	6.41	-1.25	-1.26	-17.25
GEW-236	5/6/2020 10:42:55 AM	2.6	31.1	4.8	61.5	200.9	201.1	3.5	5.33	-1.26	-1.26	-15.94
GEW-236	5/20/2020 2:34:34 PM	2.8	32.2	6.1	58.9	197.9	197.9	6.6	6.59	-1.03	-1.03	-17.78
GEW-236	5/20/2020 2:36:41 PM	2.7	33.2	6.0	58.1	198.6	198.6	2.7	5.92	-0.99	-0.98	-16.68
GEW-237	5/7/2020 2:12:51 PM	34.3	42.5	2.9	20.3	152.1	152.1	14.5	12.16	-0.04	-0.06	-18.62
GEW-237	5/7/2020 2:14:27 PM	34.4	42.0	2.9	20.7	152.0	152.1	13.5	11.44	-0.05	-0.06	-18.87
GEW-237	5/20/2020 2:58:46 PM	32.9	42.7	3.5	20.9	150.3	150.3	10.2	13.62	-0.13	-0.16	-18.32
GEW-237	5/20/2020 2:59:55 PM	33.4	41.8	3.6	21.2	150.6	150.6	10.4	9.84	-0.18	-0.16	-19.17
GEW-238	5/4/2020 11:00:35 AM	15.8	61.1	0.0	23.1	191.0	190.9	17.4	17.68	-0.84	-0.86	-18.10
GEW-238	5/4/2020 11:02:11 AM	16.5	61.1	0.0	22.4	191.1	191.0	18.3	17.81	-0.85	-0.86	-18.18
GEW-238	5/18/2020 10:20:34 AM	11.3	68.5	0.0	20.2	190.2	190.3	11.1	8.07	-1.40	-1.36	-19.38
GEW-238	5/18/2020 10:21:48 AM	12.3	69.2	0.0	18.5	190.9	190.9	13.0	8.52	-1.35	-1.30	-19.71
GEW-239	5/4/2020 9:48:57 AM	1.4	51.5	0.5	46.6	202.3	202.3	6.5	4.98	-0.47	-0.48	-18.01
GEW-239	5/4/2020 9:50:22 AM	1.3	54.3	0.5	43.9	202.3	202.3	5.4	4.61	-0.48	-0.48	-18.10
GEW-239	5/18/2020 9:04:23 AM	1.4	54.0	0.6	44.0	196.4	196.4	4.6	4.09	-0.44	-0.42	-19.84
GEW-239	5/18/2020 9:05:29 AM	1.2	56.1	0.6	42.1	197.2	197.2	5.5	6.39	-0.46	-0.44	-19.71
GEW-240	5/7/2020 2:08:37 PM	5.3	33.7	3.4	57.6	197.9	197.8	13.0	13.89	-0.14	-0.13	-18.82
GEW-240	5/7/2020 2:09:55 PM	5.0	33.4	3.4	58.2	197.4	197.8	11.5	11.31	-0.10	-0.10	-18.86
GEW-240	5/20/2020 3:53:05 PM	3.2	35.1	4.9	56.8	195.0	195.0	9.6	10.99	-0.11	-0.11	-18.41
GEW-240	5/20/2020 3:54:09 PM	2.8	35.4	4.9	56.9	195.7	195.7	11.1	12.93	-0.11	-0.09	-18.66
GEW-25	5/6/2020 1:32:21 PM	56.2	34.0	1.8	8.0	71.4	71.4	6.9	6.85	-0.65	-0.65	-12.72
GEW-25	5/12/2020 10:25:48 AM	60.0	35.3	0.9	3.8	63.5	63.5	8.0	7.46	-0.21	-0.21	-12.97
GEW-25	5/12/2020 10:32:18 AM	60.4	34.0	1.0	4.6	63.8	63.9	8.9	8.91	-0.26	-0.25	-13.10
GEW-25	5/20/2020 9:57:31 AM	57.6	36.1	1.3	5.0	70.1	70.2	4.0	6.89	-0.35	-0.36	-13.06
GEW-25	5/27/2020 8:39:47 AM	58.9	35.3	1.5	4.3	70.2	70.2	6.9	9.29	-0.39	-0.38	-13.14
GEW-25	5/27/2020 8:45:01 AM	59.0	34.7	1.5	4.8	70.2	70.2	6.3	7.41	-0.38	-0.39	-13.23
GIW-01	5/6/2020 8:50:42 AM	30.0	54.9	0.0	15.1	119.7	119.7	5.7	5.59	-1.49	-1.48	-18.94
GIW-01	5/12/2020 3:51:32 PM	30.4	58.2	0.0	11.4	125.5	125.6	5.5	8.84	-1.13	-1.12	-18.62
GIW-01	5/12/2020 3:56:54 PM	31.9	57.5	0.0	10.6	127.7	127.5	11.0	11.43	-1.12	-1.12	-18.83
GIW-01	5/20/2020 11:24:38 AM	31.0	58.4	0.0	10.6	133.8	133.8	6.3	6.30	-1.28	-1.26	-18.83
GIW-01	5/20/2020 11:25:45 AM	30.4	59.8	0.0	9.8	134.5	134.4	7.1	9.80	-1.24	-1.23	-18.79
GIW-01	5/28/2020 1:49:51 PM	31.4	56.1	0.0	12.5	142.4	142.4	8.0	7.82	-0.83	-0.82	-17.51
GIW-01	5/28/2020 1:51:15 PM	31.9	54.1	0.0	14.0	142.5	142.5	7.7	8.02	-0.83	-0.82	-17.46
GIW-02	5/6/2020 8:53:38 AM	12.7	49.8	0.0	37.5	58.5	58.5	6.5	6.01	-0.50	-0.49	-19.45
GIW-02	5/12/2020 3:59:43 PM	12.3	58.8	0.0	28.9	61.0	61.0	3.0	3.44	-0.37	-0.37	-19.33
GIW-02	5/12/2020 4:05:46 PM	12.0	61.7	0.0	26.3	59.7	59.6	1.2	0.00	-0.36	-0.36	-19.33
GIW-02	5/20/2020 11:28:03 AM	14.7	55.3	0.0	30.0	73.3	73.3	1.7	1.19	-0.51	-0.51	-19.33

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GIW-02	5/28/2020 1:53:13 PM	16.2	54.0	0.0	29.8	92.9	93.1	6.9	5.81	-0.43	-0.41	-18.18
GIW-03	5/6/2020 8:56:10 AM	22.9	47.7	0.0	29.4	59.4	59.3	5.1	5.25	-8.15	-8.15	-19.20
GIW-03	5/13/2020 9:25:55 AM	22.8	45.8	0.0	31.4	54.2	54.2	2.1	3.42	-7.40	-7.40	-19.92
GIW-03	5/13/2020 9:37:55 AM	22.5	47.3	0.0	30.2	54.2	54.2	3.4	2.10	-7.44	-7.27	-19.92
GIW-03	5/20/2020 11:30:21 AM	23.3	50.4	0.0	26.3	71.6	71.7	2.3	2.87	-7.57	-7.61	-19.33
GIW-03	5/28/2020 1:56:37 PM	24.3	45.2	0.0	30.5	93.4	93.4	5.8	5.49	-6.84	-6.84	-18.31
GIW-04	5/6/2020 8:59:03 AM	22.4	45.9	0.6	31.1	59.2	59.2	5.6	5.56	-4.67	-4.67	-19.28
GIW-04	5/13/2020 9:43:02 AM	23.0	51.5	0.0	25.5	53.7	53.7	3.5	3.45	-4.09	-4.09	-19.55
GIW-04	5/13/2020 9:49:29 AM	23.5	51.9	0.0	24.6	53.9	53.9	1.2	2.73	-4.09	-4.08	-20.01
GIW-04	5/20/2020 11:32:24 AM	23.2	51.9	0.0	24.9	70.9	70.9	1.2	1.67	-4.54	-4.55	-19.33
GIW-04	5/28/2020 1:58:28 PM	23.6	47.9	0.1	28.4	90.1	90.1	6.7	4.95	-3.96	-3.94	-18.18
GIW-05	5/6/2020 9:05:08 AM	0.1	0.2	21.1	78.6	64.2	64.2	3.9	3.86	-3.18	-3.17	-19.15
GIW-05	5/6/2020 9:06:24 AM	0.1	0.2	21.0	78.7	63.9	63.9	5.0	4.21	-3.16	-3.16	-19.03
GIW-05	5/13/2020 9:59:35 AM	24.0	46.4	0.7	28.9	54.2	54.2	1.2	1.22	-3.24	-3.24	-20.05
GIW-05	5/13/2020 10:05:31 AM	24.6	45.9	0.5	29.0	54.2	54.3	3.2	3.24	-3.25	-3.25	-19.92
GIW-05	5/20/2020 11:35:33 AM	25.0	48.8	0.4	25.8	71.6	71.6	3.3	3.34	-3.54	-3.55	-19.33
GIW-05	5/28/2020 2:00:27 PM	2.1	4.1	20.0	73.8	95.0	95.1	3.4	3.20	-2.20	-2.20	-18.18
GIW-05	5/28/2020 2:01:28 PM	1.5	2.8	20.8	74.9	96.0	95.9	1.6	1.13	-2.25	-2.25	-17.97
GIW-06	5/6/2020 9:09:01 AM	30.8	37.6	0.0	31.6	60.1	60.0	5.2	4.08	-18.62	-18.62	-19.11
GIW-06	5/13/2020 10:09:12 AM	29.0	41.8	0.0	29.2	54.5	54.5	3.3	3.52	-19.28	-18.94	-19.92
GIW-06	5/13/2020 10:15:23 AM	29.4	40.1	0.0	30.5	54.7	54.7	1.7	3.71	-19.24	-19.28	-20.01
GIW-06	5/20/2020 1:21:11 PM	32.3	40.2	0.0	27.5	74.8	74.9	2.8	1.13	-18.65	-18.65	-19.00
GIW-06	5/28/2020 2:03:40 PM	33.4	39.3	0.0	27.3	92.1	92.2	5.0	5.01	-17.39	-17.39	-18.18
GIW-07	5/6/2020 9:10:26 AM	45.1	40.1	1.4	13.4	61.1	61.1	6.2	5.43	-3.08	-3.09	-19.66
GIW-07	5/13/2020 10:18:23 AM	49.5	46.1	0.1	4.3	55.2	55.2	1.2	1.73	-2.99	-2.98	-19.88
GIW-07	5/13/2020 10:24:30 AM	49.9	45.2	0.1	4.8	56.1	56.2	3.5	3.45	-2.96	-2.96	-19.63
GIW-07	5/20/2020 1:30:52 PM	49.8	46.5	0.1	3.6	78.4	78.4	3.1	1.65	-2.97	-2.96	-18.70
GIW-07	5/28/2020 2:05:34 PM	51.4	44.2	0.0	4.4	90.6	90.8	3.4	3.22	-1.86	-1.85	-18.18
GIW-08	5/6/2020 9:12:50 AM	45.1	42.6	0.0	12.3	63.5	63.6	5.3	5.27	-3.02	-3.01	-19.03
GIW-08	5/13/2020 10:27:22 AM	45.5	44.9	0.0	9.6	56.3	56.3	3.5	3.85	-3.00	-3.00	-19.84
GIW-08	5/13/2020 10:32:33 AM	45.6	42.7	0.0	11.7	56.2	56.2	3.5	3.66	-2.98	-2.97	-19.71
GIW-08	5/20/2020 1:33:24 PM	45.0	44.2	0.0	10.8	78.9	79.0	1.7	2.02	-2.74	-2.75	-19.25
GIW-08	5/28/2020 2:08:52 PM	46.8	42.9	0.0	10.3	98.4	98.6	6.6	4.63	-2.24	-2.22	-18.18
GIW-09	5/6/2020 9:16:03 AM	19.7	35.2	0.0	45.1	62.5	62.6	3.9	3.28	-1.62	-1.61	-18.86
GIW-09	5/13/2020 11:13:53 AM	22.4	40.6	0.1	36.9	56.5	56.5	3.5	3.24	-1.42	-1.42	-19.63
GIW-09	5/13/2020 11:18:46 AM	22.2	40.8	0.1	36.9	56.5	56.5	3.0	2.73	-1.39	-1.38	-19.55
GIW-09	5/20/2020 1:35:40 PM	21.9	41.7	0.0	36.4	75.9	75.9	3.1	1.18	-1.25	-1.25	-19.33
GIW-09	5/28/2020 2:10:42 PM	25.1	40.0	0.0	34.9	91.1	91.2	3.8	3.61	-0.99	-0.98	-18.18
GIW-10	5/6/2020 9:17:36 AM	23.4	33.4	0.0	43.2	61.0	61.0	4.6	2.80	-4.28	-4.27	-19.03
GIW-10	5/13/2020 11:21:29 AM	23.4	35.7	0.0	40.9	57.2	57.2	3.4	3.64	-3.97	-3.92	-19.88

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
GIW-10	5/13/2020 11:27:33 AM	23.5	33.4	0.0	43.1	56.8	56.8	4.4	4.55	-3.94	-3.90	-19.50
GIW-10	5/20/2020 11:21:49 AM	23.8	34.8	0.0	41.4	69.1	69.1	2.9	3.56	-4.03	-4.05	-19.33
GIW-10	5/28/2020 2:13:37 PM	27.1	33.9	0.0	39.0	93.2	93.3	4.8	6.59	-3.42	-3.42	-17.97
GIW-11	5/6/2020 9:20:36 AM	23.1	32.0	0.1	44.8	61.0	61.1	1.9	2.27	-2.67	-2.66	-15.98
GIW-11	5/13/2020 1:27:53 PM	24.1	33.4	0.7	41.8	58.5	58.5	3.2	2.96	-2.49	-2.46	-15.54
GIW-11	5/13/2020 1:33:30 PM	24.0	32.7	0.6	42.7	58.6	58.5	8.1	7.28	-2.51	-2.49	-15.59
GIW-11	5/20/2020 11:19:18 AM	24.2	35.4	0.7	39.7	68.8	68.8	7.1	5.33	-2.50	-2.52	-16.98
GIW-11	5/28/2020 2:15:59 PM	28.9	34.3	0.0	36.8	92.9	92.9	2.0	2.78	-2.18	-2.16	-13.23
GIW-12	5/6/2020 9:22:33 AM	30.9	34.1	0.9	34.1	60.1	60.2	4.4	4.10	-0.45	-0.45	-19.58
GIW-12	5/13/2020 1:36:06 PM	30.7	35.6	1.1	32.6	57.8	57.8	3.5	3.45	-0.40	-0.40	-19.29
GIW-12	5/13/2020 1:43:18 PM	30.8	35.9	1.1	32.2	57.7	57.7	1.7	2.43	-0.37	-0.35	-19.63
GIW-12	5/20/2020 11:15:05 AM	31.3	37.6	1.3	29.8	66.7	66.7	1.7	1.70	-0.44	-0.44	-19.29
GIW-12	5/28/2020 2:17:27 PM	36.9	37.4	0.0	25.7	91.7	91.9	2.0	1.14	-0.37	-0.36	-17.89
GIW-13	5/6/2020 9:25:57 AM	49.7	42.7	0.0	7.6	60.9	60.9	5.3	5.04	-1.63	-1.63	-19.41
GIW-13	5/13/2020 1:45:10 PM	48.9	43.8	0.0	7.3	57.8	57.9	1.1	1.09	-1.36	-1.36	-19.24
GIW-13	5/13/2020 1:52:03 PM	48.7	42.9	0.0	8.4	58.1	58.2	1.2	1.36	-1.36	-1.35	-19.20
GIW-13	5/20/2020 11:13:04 AM	49.0	45.2	0.0	5.8	66.5	66.5	2.4	1.20	-1.55	-1.55	-19.29
GIW-13	5/28/2020 2:20:52 PM	51.1	44.1	0.0	4.8	93.6	94.1	1.6	1.61	-1.38	-1.36	-18.14
LCS-1D	5/4/2020 8:39:36 AM	54.6	35.5	1.5	8.4	76.6	76.7	3.4	3.80	-1.92	-1.92	-17.25
LCS-1D	5/29/2020 1:29:36 PM	53.6	38.0	1.1	7.3	85.6	85.6	7.4	6.71	-1.93	-1.93	-15.86
LCS-2D	5/7/2020 9:57:24 AM	52.9	42.6	0.0	4.5	72.6	72.5	8.8	10.55	-17.98	-17.98	-18.60
LCS-2D	5/27/2020 2:04:52 PM	55.8	41.4	0.0	2.8	78.9	78.7	7.2	6.94	-17.93	-17.59	-18.49
LCS-3D	5/5/2020 3:31:54 PM	28.6	69.8	0.0	1.6	106.2	106.8	3.4	7.40	-18.35	-18.35	-18.62
LCS-3D	5/27/2020 11:36:50 AM	29.9	69.6	0.0	0.5	124.5	124.9	14.9	32.42	-9.09	-9.89	-10.11
LCS-4B	5/6/2020 10:47:09 AM	6.4	23.7	13.7	56.2	65.9	65.9	3.8	3.65	-4.35	-4.35	-18.22
LCS-4B	5/6/2020 10:48:12 AM	7.0	25.5	13.3	54.2	65.6	65.5	5.2	4.96	-4.47	-4.48	-18.18
LCS-4B	5/20/2020 2:30:43 PM	5.1	20.8	15.4	58.7	83.9	84.0	2.0	1.99	-6.47	-6.47	-18.07
LCS-4B	5/20/2020 2:31:48 PM	5.0	19.9	15.7	59.4	85.4	85.5	3.2	3.23	-6.81	-6.81	-18.16
LCS-5A	5/6/2020 9:27:47 AM	57.1	42.1	0.0	0.8	80.6	80.8	11.5	13.02	-10.15	-10.19	-12.22
LCS-5A	5/11/2020 1:32:49 PM	57.9	40.9	0.0	1.2	82.3	82.5	6.6	12.08	-10.91	-10.95	-12.97
LCS-5A	5/20/2020 9:06:35 AM	55.5	41.9	0.0	2.6	92.5	91.2	19.9	14.09	-9.18	-9.26	-12.76
LCS-5A	5/26/2020 8:51:42 AM	56.3	41.8	0.0	1.9	89.4	89.5	5.2	5.23	-11.08	-11.08	-13.23
LCS-5B	5/6/2020 9:40:01 AM	55.1	43.1	0.0	1.8	123.9	123.9	10.3	10.02	-11.50	-11.42	-12.97
LCS-5B	5/11/2020 1:55:38 PM	54.8	42.4	0.0	2.8	122.9	122.4	10.3	10.34	-11.59	-11.59	-13.02
LCS-5B	5/20/2020 9:19:56 AM	54.7	43.2	0.0	2.1	130.3	130.3	9.9	10.51	-11.54	-11.54	-13.06
LCS-5B	5/26/2020 9:02:06 AM	53.8	43.3	0.0	2.9	129.3	129.4	6.1	6.09	-11.08	-11.08	-13.27
LCS-6B	5/6/2020 2:27:54 PM	53.3	43.5	0.0	3.2	90.3	90.1	3.9	2.73	-0.66	-0.66	-12.17
LCS-6B	5/12/2020 11:36:29 AM	53.9	42.8	0.0	3.3	86.1	86.3	4.8	5.50	-0.77	-0.77	-12.97
LCS-6B	5/20/2020 10:06:49 AM	53.8	43.8	0.0	2.4	90.1	90.0	7.2	6.11	-0.89	-0.89	-13.02
LCS-6B	5/27/2020 9:15:45 AM	55.1	44.4	0.1	0.4	91.2	91.3	7.7	7.70	-1.02	-1.02	-13.14

May 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub>	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H <sub>2</sub> O		
SEW-002	5/7/2020 10:51:39 AM	41.1	19.9	6.2	32.8	76.8	76.6	0.7	0.72	-13.42	-13.42	-13.32
SEW-002	5/7/2020 10:52:45 AM	44.4	21.2	4.8	29.6	76.0	75.9	1.7	1.65	-13.42	-13.42	-13.28
SEW-002	5/27/2020 3:20:16 PM	53.1	28.4	2.2	16.3	82.6	82.8	3.4	3.39	-13.87	-13.87	-13.65
SEW-003	5/4/2020 10:42:08 AM	4.4	48.3	1.6	45.7	86.5	86.6	4.5	4.39	-0.05	-0.05	-18.10
SEW-003	5/26/2020 3:47:22 PM	3.8	56.8	0.6	38.8	95.6	95.5	3.2	3.42	-0.06	-0.05	-18.66
T-56	5/6/2020 2:51:32 PM	45.1	34.7	0.2	20.0	63.5	63.5	16.0	16.68	-0.03	-0.03	-13.56
T-56	5/12/2020 2:46:20 PM	46.2	35.7	0.1	18.0	60.8	60.8	13.9	15.74	-0.02	-0.02	-13.44
T-56	5/20/2020 10:23:35 AM	50.3	36.5	0.5	12.7	63.3	63.3	10.2	13.23	-0.04	-0.03	-13.82
T-56	5/27/2020 9:30:02 AM	55.9	38.2	0.1	5.8	64.3	64.4	12.3	11.95	-0.02	-0.02	-13.98

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**ATTACHMENT D-2**

**MAXIMUM WELLHEAD TEMPERATURE TABLE**

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Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	February 2020	March 2020	April 2020	May 2020	><30°F	
GEW-002	110.1	111.3	112.6	109.1		
GEW-003	105.7	108.7	116.0	110.7		
GEW-004	105.5	108.7	112.4	110.0		
GEW-005	84.5	77.7	85.4	81.7		
GEW-006	78.7	78.6	86.1	81.9		
GEW-007	87.9	89.8	92.2	92.7		
GEW-008	110.0	111.5	113.2	112.3		
GEW-009	120.7	121.3	122.3	122.3		
GEW-010	65.0	95.6	92.6	99.7		
GEW-013A	192.3	191.6	188.3	188.9		
GEW-015	100.9	94.1	105.5	114.8		
GEW-016R	168.1	162.9	169.0	166.1		
GEW-018B	182.7	193.6	194.3	196.1		
GEW-019A	45.3	55.0	79.6	87.7		
GEW-039	104.8	107.5	106.0	108.5		
GEW-040	47.0	65.8	84.4	85.1		
GEW-041R	56.2	73.0	89.6	88.9		
GEW-042R	99.9	101.8	103.5	104.0		
GEW-043R	114.1	115.2	115.5	115.3		
GEW-044	54.4	68.4	81.9	71.8		
GEW-045R	83.5	90.1	94.6	92.2		
GEW-046R	72.0	87.2	99.6	94.6		
GEW-047R	97.4	99.1	104.4	98.4		
GEW-048	93.2	94.3	98.0	95.9		
GEW-049	65.9	73.6	88.4	80.0		
GEW-050	99.4	98.7	99.3	99.7		
GEW-051	116.9	118.9	117.6	117.8		
GEW-052	99.9	103.3	103.0	103.6		
GEW-053	141.5	142.4	142.5	142.2		
GEW-054	146.3	146.3	146.0	146.3		
GEW-055	122.3	127.3	128.0	128.3		
GEW-056R	60.2	102.3	110.1	112.0		
GEW-057B	151.3	86.8	164.3	142.5		
GEW-058A	49.4	127.8	117.6	104.3		
GEW-059R	110.0	128.3	139.3	110.2		
GEW-067A	197.9	200.1	199.3	192.3		
GEW-068A	197.9	192.9	191.7	182.7		
GEW-078R	144.2	152.5	151.3	153.3		
GEW-082R	171.0	173.5	171.6	171.0		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	February 2020	March 2020	April 2020	May 2020	><30°F	
GEW-086	188.3	182.7	187.9	162.9		
GEW-087	195.0	171.0	148.8	180.9		
GEW-088	190.2	194.3	181.9	181.3		
GEW-090	166.1	167.6	168.5	165.7		
GEW-091	187.2	200.8	170.0	201.6		
GEW-100	37.2	190.5	174.2	159.4		
GEW-101	49.9	70.7	82.1	82.6		
GEW-102	54.7	72.3	79.4	74.1		
GEW-104	185.7	189.6	175.3	186.4		
GEW-105	127.5	125.6	123.4	124.5		
GEW-106	162.9	165.2	179.0	166.6		
GEW-107	111.6	120.7	137.1	122.9		
GEW-108	154.8	174.7	168.1	162.4		
GEW-109	82.7	91.8	85.6	103.0		
GEW-110	53.0	103.9	107.2	101.6		
GEW-113	176.4	175.8	178.6	177.5		
GEW-116	158.5	117.9	154.0	146.8		
GEW-117	120.7	146.6	143.9	124.7		
GEW-118	188.7	196.4	200.1	194.3		
GEW-120	98.9	65.3	102.8	108.5		
GEW-121	147.8	135.3	141.9	150.2		
GEW-122	90.1	96.7	90.8	109.5		
GEW-123	61.2	70.4	63.5	93.4		
GEW-124	43.7	54.2	57.0	78.9		
GEW-125	48.2	57.5	60.9	83.0		
GEW-126	47.0	58.9	57.8	86.1		
GEW-127	54.4	75.9	66.3	106.1		
GEW-128	--	--	--	--		Temporarily decommissioned
GEW-129	105.5	118.1	114.8	122.6		
GEW-130	152.9	154.4	155.6	155.7		
GEW-131	90.3	112.5	107.2	128.6		
GEW-132	121.0	125.8	133.8	135.5		
GEW-133	84.7	129.2	85.3	87.0		
GEW-134	76.1	60.4	91.0	97.2		
GEW-135	102.6	107.8	112.0	118.9		
GEW-137	53.9	75.2	81.9	90.4		
GEW-138	38.9	--	--	--		Temporarily decommissioned



### Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	February 2020	March 2020	April 2020	May 2020	><30°F	
GEW-139	183.3	149.9	158.5	161.1		
GEW-140	81.8	124.5	120.5	139.6		
GEW-144	47.0	72.5	69.2	80.3		
GEW-145	56.1	63.9	81.4	79.8		
GEW-147	163.3	156.5	164.7	162.0		
GEW-148	160.7	152.5	159.0	154.8		
GEW-149	75.3	52.6	85.1	89.6		
GEW-150	186.4	168.5	171.5	176.6		
GEW-151	93.1	80.1	70.3	91.9		
GEW-152	84.7	88.1	110.2	91.7		
GEW-153	88.6	96.4	123.2	116.3		
GEW-154	--	--	--	--		Temporarily decommissioned
GEW-155	--	--	--	--		Temporarily decommissioned
GEW-156	81.7	94.1	105.2	109.2		
GEW-157	61.5	76.8	92.0	100.4		
GEW-158	82.1	94.6	101.1	110.5		
GEW-159	38.4	--	--	--		Temporarily decommissioned
GEW-160	46.8	78.2	95.8	91.0		
GEW-161	61.9	82.6	107.2	109.7		
GEW-162	38.3	75.4	95.5	91.2		
GEW-163	136.9	134.1	129.7	130.6		
GEW-164	147.3	148.4	142.5	143.2		
GEW-165	150.6	158.9	142.5	145.6		
GEW-166	175.3	169.5	170.0	166.6		
GEW-167	140.6	138.7	149.5	138.7		
GEW-168	122.6	118.4	89.6	106.5		
GEW-169	74.3	99.9	98.7	123.5		
GEW-170	104.8	121.8	123.9	136.5		
GEW-171	44.1	78.8	57.7	76.3		
GEW-172	155.6	149.9	154.1	152.1		
GEW-173	--	--	--	--		Temporarily decommissioned
GEW-174	119.4	118.9	116.0	118.7		
GEW-175	141.5	137.1	137.1	135.5		
GEW-176	37.3	--	--	--		Temporarily decommissioned
GEW-177	169.0	169.0	170.6	169.5		
GEW-178	54.5	74.1	77.1	84.7		

### Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	February 2020	March 2020	April 2020	May 2020	><30°F	
GEW-179	75.7	88.2	93.4	95.8		
GEW-180	68.9	83.6	90.3	92.7		
GEW-181	66.1	78.0	83.5	79.7		
GEW-182	--	--	--	--		Temporarily decommissioned
GEW-184	--	--	--	--		Temporarily decommissioned
GEW-185	91.7	109.0	109.7	128.3		
GEW-186	68.4	94.1	69.9	95.5		
GEW-187	98.7	104.8	107.5	114.5		
GEW-188	--	--	--	--		Temporarily decommissioned
GEW-217	52.9	100.4	183.4	183.9		
GEW-218	98.8	105.5	101.1	114.0		
GEW-219	140.6	--	--	--		Temporarily decommissioned
GEW-220	136.5	185.7	187.8	181.5		
GEW-221	81.2	95.8	115.0	101.3		
GEW-222	72.5	81.2	79.4	79.3		
GEW-223	73.4	109.2	90.3	110.8		
GEW-224	144.5	154.8	151.7	152.1		
GEW-225	167.6	169.9	164.3	156.5		
GEW-226	180.9	180.4	178.7	178.0		
GEW-227	201.6	187.7	182.6	193.6		
GEW-228	195.2	192.3	197.2	190.2		
GEW-229	81.7	89.9	90.4	98.1		
GEW-230	156.5	158.5	163.4	164.9		
GEW-231	118.0	--	--	--		Temporarily decommissioned
GEW-232	193.5	168.5	168.5	165.2		
GEW-233	145.2	97.2	85.6	112.1		
GEW-234	201.6	199.8	200.8	204.7		
GEW-235	116.3	120.3	117.9	129.4		
GEW-236	203.9	207.0	205.4	201.1		
GEW-237	144.9	156.9	156.4	152.1		
GEW-238	187.6	196.4	198.6	191.1		
GEW-239	203.9	203.9	203.1	202.3		
GEW-240	205.4	205.4	201.5	197.9		
GEW-2S	54.3	67.5	86.4	71.4		
GIW-01	98.7	148.8	152.1	142.5		
GIW-02	47.9	84.2	105.4	93.1		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	February 2020	March 2020	April 2020	May 2020	><30°F	
GIW-03	59.5	74.8	100.6	93.4		
GIW-04	45.9	75.2	103.0	90.1		
GIW-05	46.4	76.4	102.8	96.0		
GIW-06	46.4	76.6	102.5	92.2		
GIW-07	46.9	74.1	102.3	90.8		
GIW-08	47.0	79.8	107.0	98.6		
GIW-09	46.7	74.3	98.3	91.2		
GIW-10	47.3	73.6	101.1	93.3		
GIW-11	47.6	75.2	99.1	92.9		
GIW-12	47.4	76.3	100.5	91.9		
GIW-13	47.5	75.5	100.1	94.1		
LCS-1D	54.2	53.6	79.8	85.6		
LCS-2D	37.6	69.4	77.5	78.9		
LCS-3D	109.7	125.6	131.4	124.9		
LCS-4B	46.5	67.2	63.5	85.5		
LCS-5A	74.7	81.7	90.3	92.5		
LCS-5B	130.9	132.6	133.2	130.3		
LCS-6B	48.5	99.8	107.7	91.3		
SEW-002	47.1	60.7	75.5	82.8		
SEW-003	83.3	58.7	82.8	95.6		
T-56	43.4	49.6	68.8	64.4		

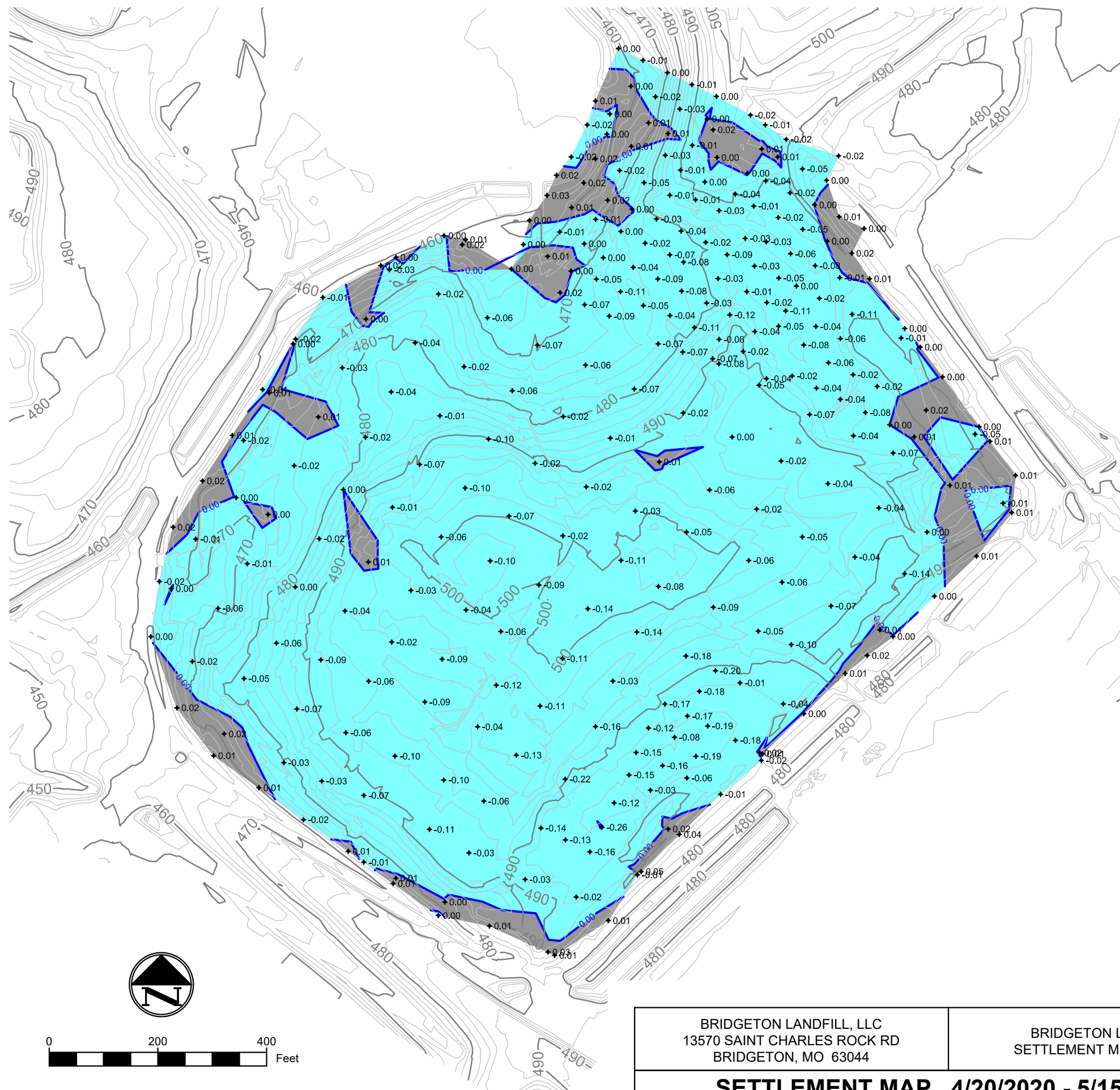
-- = Indicates no data available.

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**ATTACHMENT E**

**SETTLEMENT FRONT MAP**

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Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Medium Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	1,380,917.97	Cyan
6	0.00	1.00	151,574.93	Grey

**LEGEND**

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
- 500 — 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 (4-20-2020 to 5-15-2020)
- 5-2020 — \*SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.13' PER 25 DAYS FOR CURRENT PERIOD OF DAYS
- \*NONE FOR MAY 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 4-20-20 FROM SPOT ELEVATIONS SURVEYED ON 5-15-20.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL SETTLEMENT MONITORING		MAY 2020 DESIGNED BY: PL APPROVED BY: DRF	DRAWING NO.: <span style="font-size: 2em; font-weight: bold;">001</span>
SETTLEMENT MAP 4/20/2020 - 5/15/2020				
PROJECT NUMBER: BT-145   FILE PATH: C:\Users\jinal\Dropbox (Feezor Engineering)\Bridgeton\100-149BT-145 (Agreed Order Reporting)\Monthly Reports\202005-2020 Report\Internal Draft\Site Data\Settlement\Settlement And F				
		REVISION      DATE		

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**ATTACHMENT F**

**LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG**

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## Bridgeton Landfill - Leachate PreTreatment Plant

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

#### Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
5/1/2020			198,176
5/2/2020			279,452
5/3/2020			210,269
5/4/2020			181,069
5/5/2020			159,499
5/6/2020			157,041
5/7/2020			198,860
5/8/2020			178,656
5/9/2020			175,219
5/10/2020			178,424
5/11/2020			128,345
5/12/2020			91,071
5/13/2020			97,593
5/14/2020			193,774
5/15/2020			180,787
5/16/2020	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	180,697
5/17/2020			105,768
5/18/2020			207,708
5/19/2020			299,487
5/20/2020			209,476
5/21/2020			171,032
5/22/2020			165,223
5/23/2020			165,425
5/24/2020			192,933
5/25/2020			183,372
5/26/2020			168,045
5/27/2020			72,580
5/28/2020			94,907
5/29/2020			182,562
5/30/2020			179,848
5/31/2020			189,750
<b>Total</b>			<b>5,377,048</b>

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**ATTACHMENT G**

**VOLUMES OF LEACHATE PROCESSED**

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**Bridgeton Landfill - Leachate Volumes**  
**May 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 2,269,447 gallons. Therefore, the total leachate collected was 3,938,987 gallons.

<b>ID</b>	<b>Volume</b>
LCS -1D	7
LCS-2D	0
LCS-3D	90,034
LCS-4B	0
LCS-5A	1,539,072
LCS-5B	36,608
LCS-6B	3,819