

# Bridgeton Landfill, LLC

## Monthly Data Submittals

September 2018

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

October 20, 2018

## **Commentary on Data**

October 20, 2018

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 244 SCFM from the North Quarry and 976 SCFM from the South Quarry, for a total site flow of 1,219 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.

### Gas Quality

- Attachments D and E present the monthly data related to gas quality as measured at the respective wellheads.
- Attachment E-1 presents vertical wells which exhibited oxygen levels over 5% during one (1) or more weekly monitoring events during this reporting period. These consisted of 35 GEW wells that are experiencing low or restricted flows, two (2) leachate collection sump (LCS), and three (3) GIW wells that exhibit low gas flow due to the cooling loops that are installed in these wells. By the end of the month, 22 of the GEW wells, 2 of the LCS, and 1 of the GIW wells 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. Six (6) vertical wells (excluding GIW wells) increased by 30°F or more during this reporting period. Additionally, five (5) vertical wells (excluding GIW wells) decreased by 30°F or more. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period. Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (62 ppm), consistent with past events.
- Site personnel are performing a comprehensive wellfield investigation to optimize landfill gas collection and control (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 identified downhole integrity issues will be scheduled for abandonment during the upcoming GCCS system expansion event. 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. Additional SUMMA samples were collected and the results analyzed to optimize the GCCS during the upcoming drilling event. This investigation will continue through Third Quarter 2018, and 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 0.46 feet over 32 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. The requirements for landfill gas destruction under 40 CFR 60 Subpart WWW were achieved by meeting the provisions of 40 CFR 60 Subpart A under §60.18 for non-assisted flares.

#### Slip Failure or Separation Assessment

- On September 19, 2018, an inspection of the Bridgeton Landfill was performed by P.J. Carey of P.J. Carey & Associates, P.C. to identify visual evidence of instability or incipient failure. This inspection includes the north and south quarry fill areas. The findings of this inspection will be discussed in a separate report which will be submitted 30 days from the end of the quarter (on or before October 30, 2018). A redundant copy of the Slip Failure or Separation Assessment will be submitted in the next monthly report.

---

**ATTACHMENT A**

**DAILY FLARE MONITORING DATA**

---

---

**ATTACHMENT A-1**

**FLOW DATA TABLE**

---

Daily Flare Monitoring Data - Bridgeton Landfill  
September 2018

Date	Average Device Flow* (scfm)				Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	EP14 NQ Utility Flare***	
9/1/2018	0	1,003	0	296	1,300
9/2/2018	0	1,005	0	297	1,302
9/3/2018	0	1,020	0	301	1,322
9/4/2018	0	1,030	0	303	1,332
9/5/2018	0	1,051	0	300	1,351
9/6/2018	0	1,012	0	269	1,280
9/7/2018	0	955	0	283	1,238
9/8/2018	0	922	0	266	1,188
9/9/2018	0	929	0	267	1,197
9/10/2018	0	969	0	237	1,206
9/11/2018	0	969	0	226	1,195
9/12/2018	0	977	0	226	1,203
9/13/2018	0	999	0	210	1,209
9/14/2018	0	989	0	208	1,197
9/15/2018	0	971	0	213	1,184
9/16/2018	0	973	0	215	1,187
9/17/2018	0	981	0	213	1,194
9/18/2018	0	982	0	212	1,194
9/19/2018	0	972	0	215	1,187
9/20/2018	0	974	0	216	1,190
9/21/2018	0	945	0	217	1,162
9/22/2018	0	957	0	215	1,172
9/23/2018	0	981	0	210	1,192
9/24/2018	0	988	0	212	1,200
9/25/2018	0	980	0	226	1,206
9/26/2018	0	948	0	242	1,191
9/27/2018	0	947	0	254	1,202
9/28/2018	0	943	0	251	1,195
9/29/2018	0	934	0	254	1,188
9/30/2018	0	959	0	251	1,211
<b>AVERAGE</b>	<b>0</b>	<b>976</b>	<b>0</b>	<b>244</b>	<b>1,219</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.

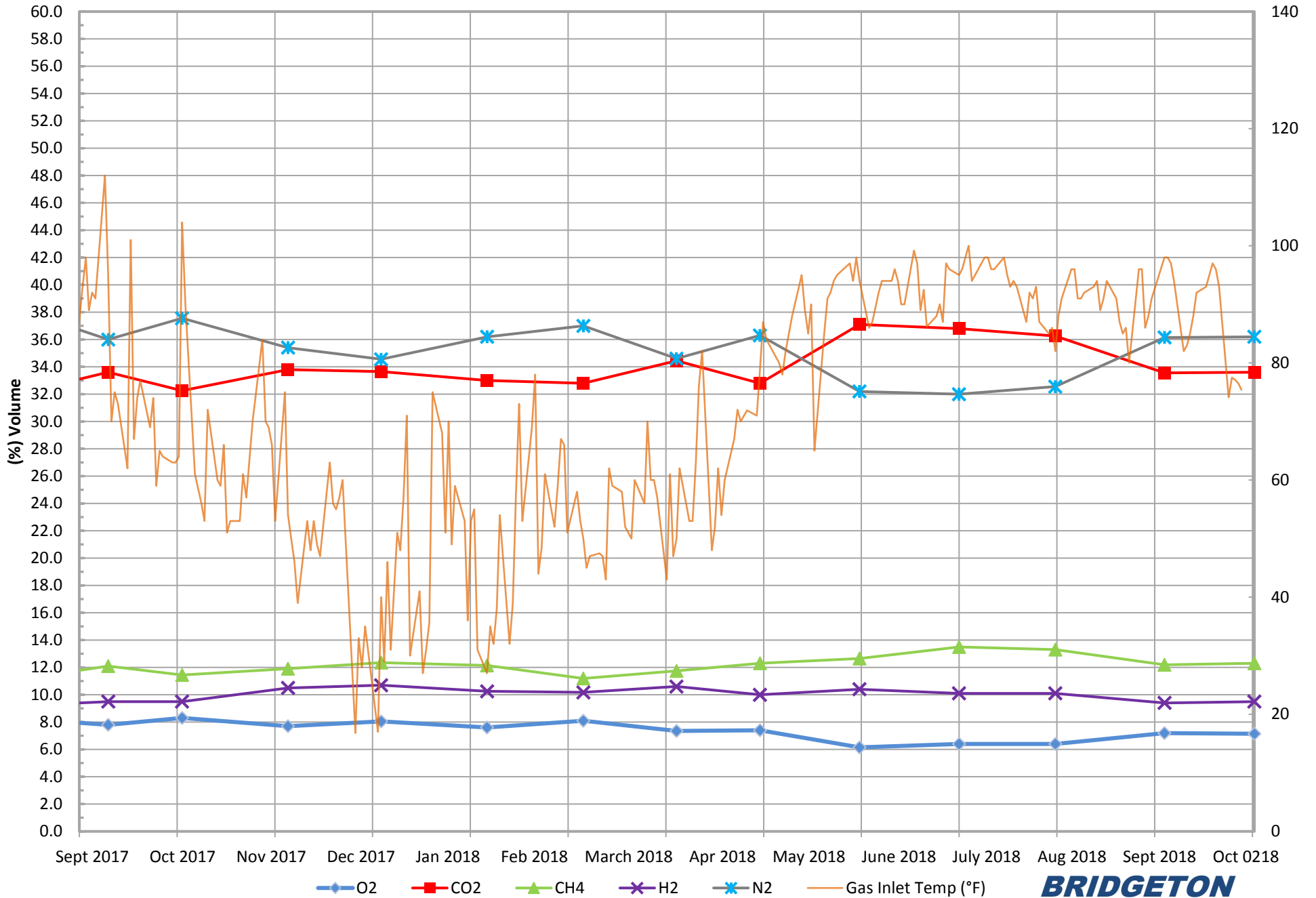
---

**ATTACHMENT A-2**

**FLOW DATA GRAPHS**

---

# South Quarry Inlet Gas and Temperature\*

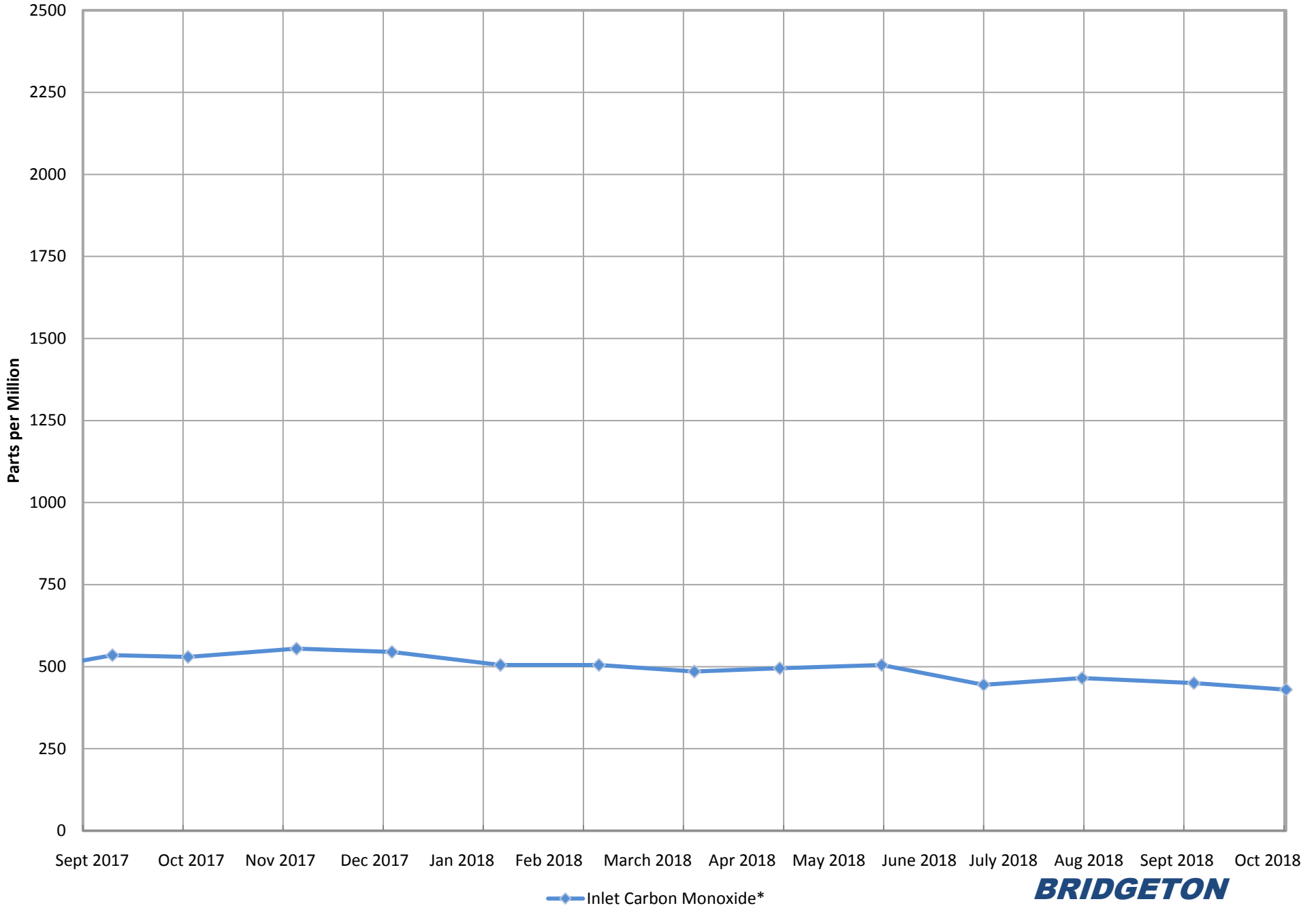


\*Gas data collected from Laboratory Reports. Temperature data collected from field readings.





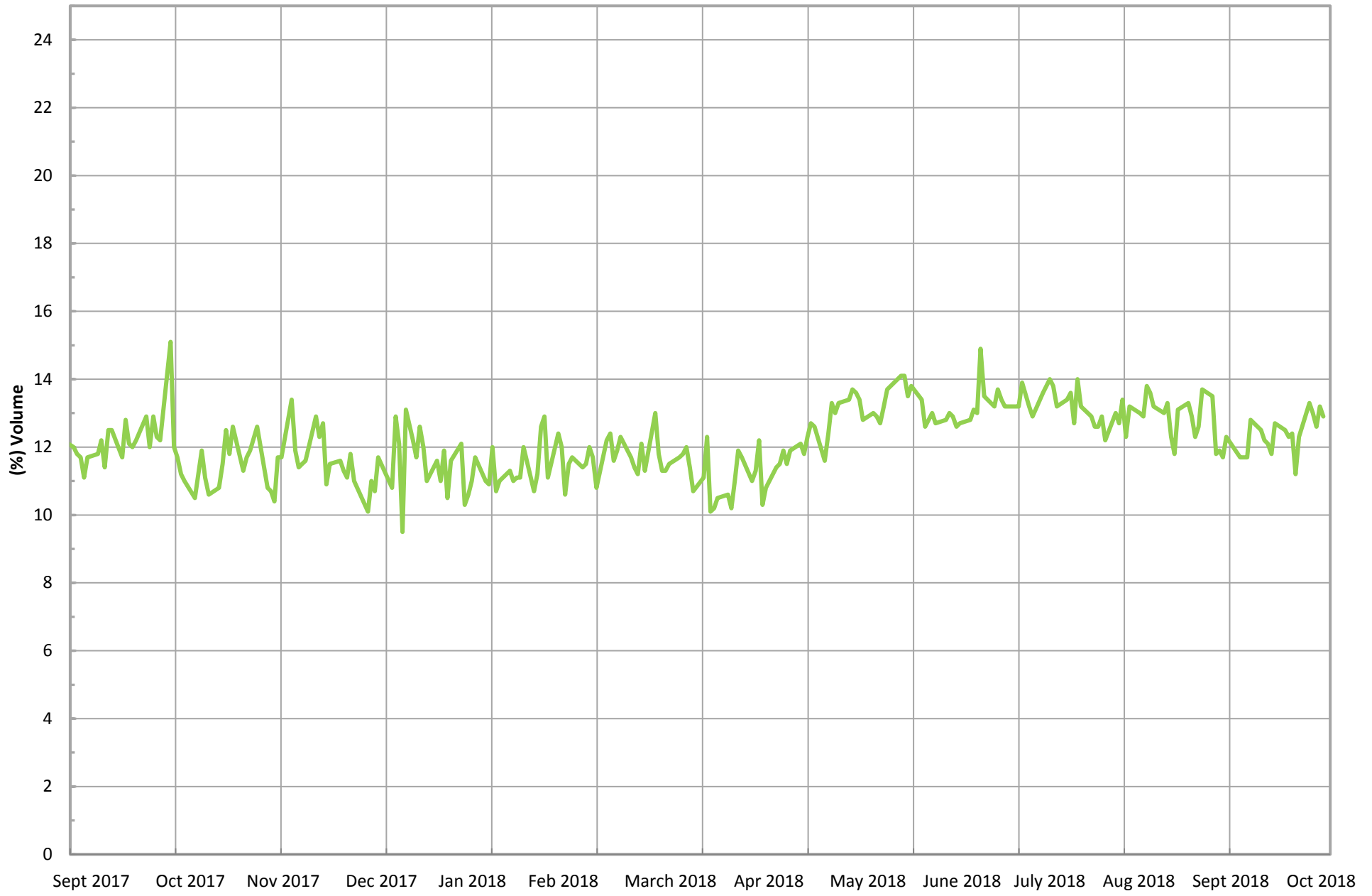
# South Quarry Inlet Carbon Monoxide\*



\*Data collected from Laboratory Reports for the South Quarry.

**BRIDGETON  
LANDFILL**

# South Quarry Inlet Methane (Field Data)\*

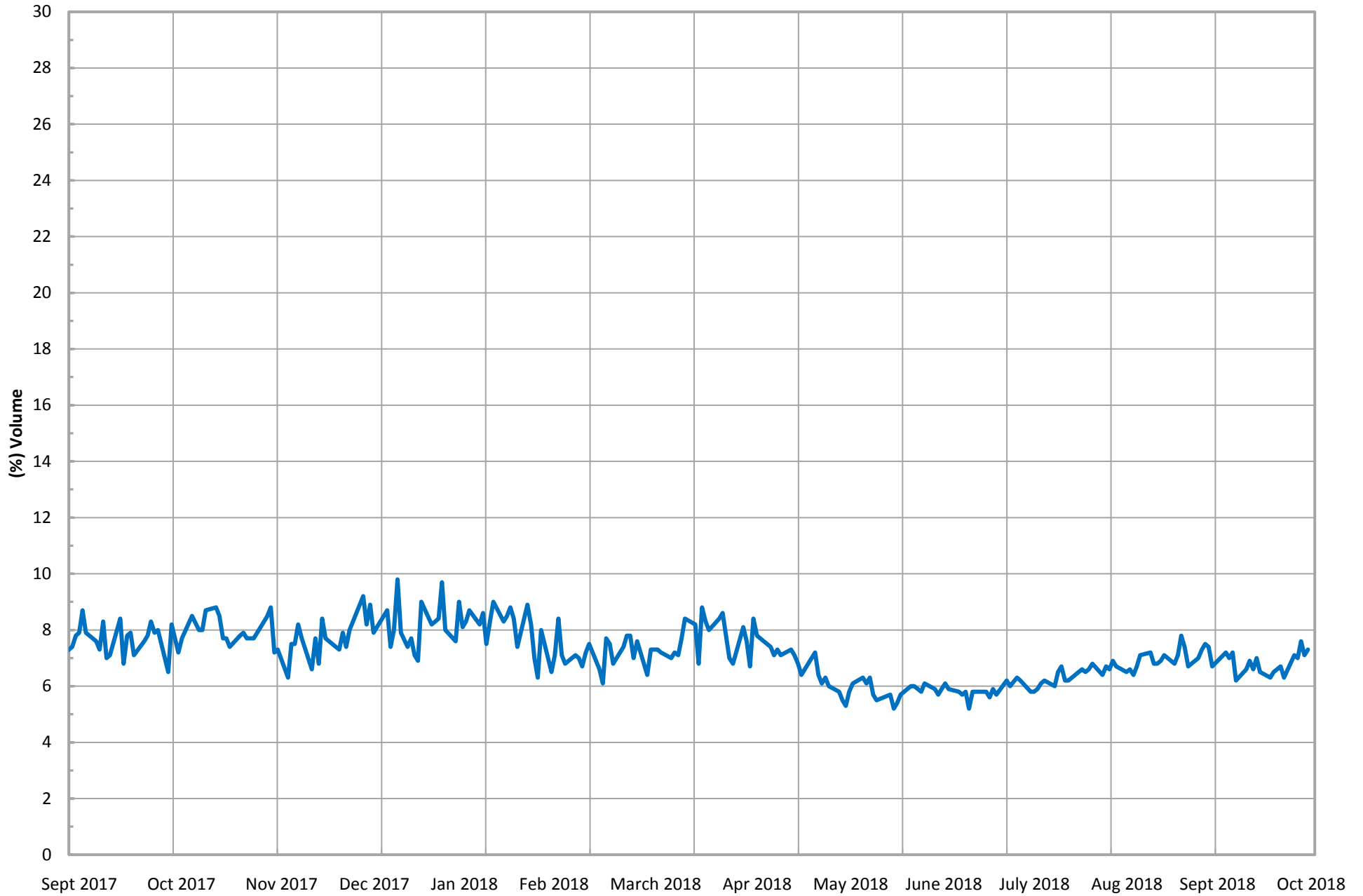


\*Gas data collected from field monitoring data in the South Quarry.

— Combined Inlet Methane (Field Data)\*

**BRIDGETON  
LANDFILL**

# South Quarry Inlet Oxygen (Field Data)\*

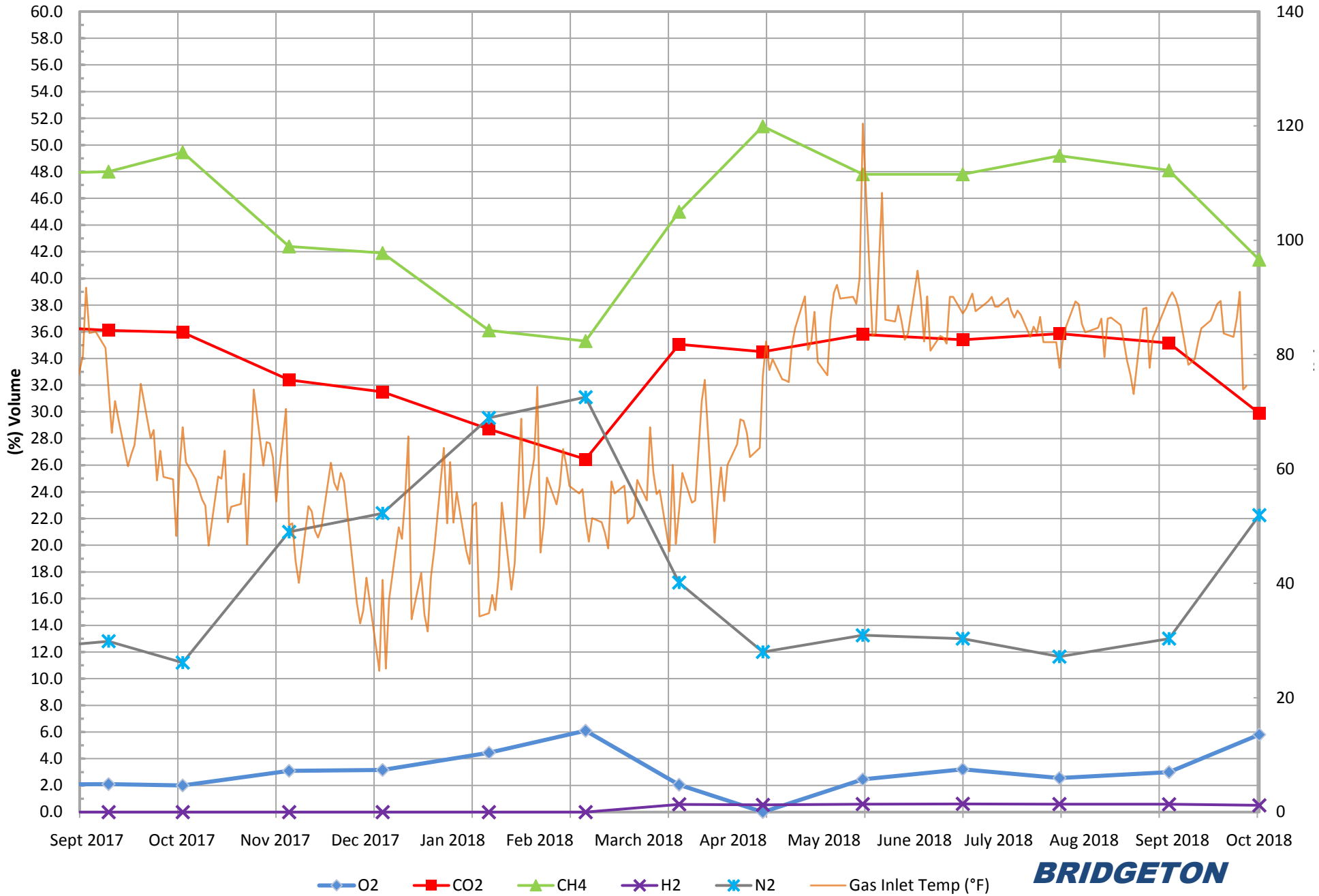


\*Gas data collected from field monitoring data in the South Quarry.

— Combined Inlet Oxygen (Field Data)\*

**BRIDGETON  
LANDFILL**

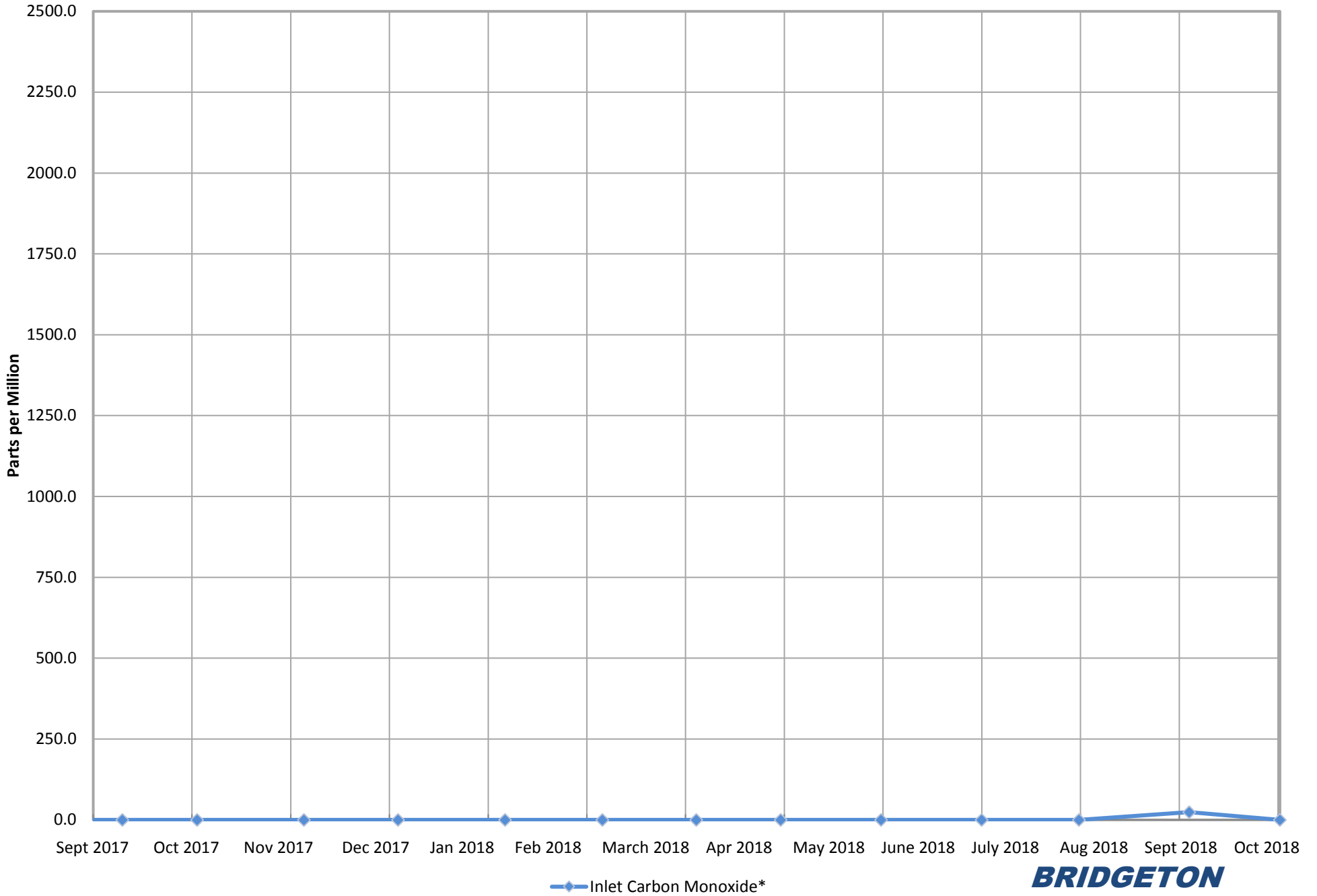
# North Quarry Inlet Gas and Temperature\*



**BRIDGETON  
LANDFILL**

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

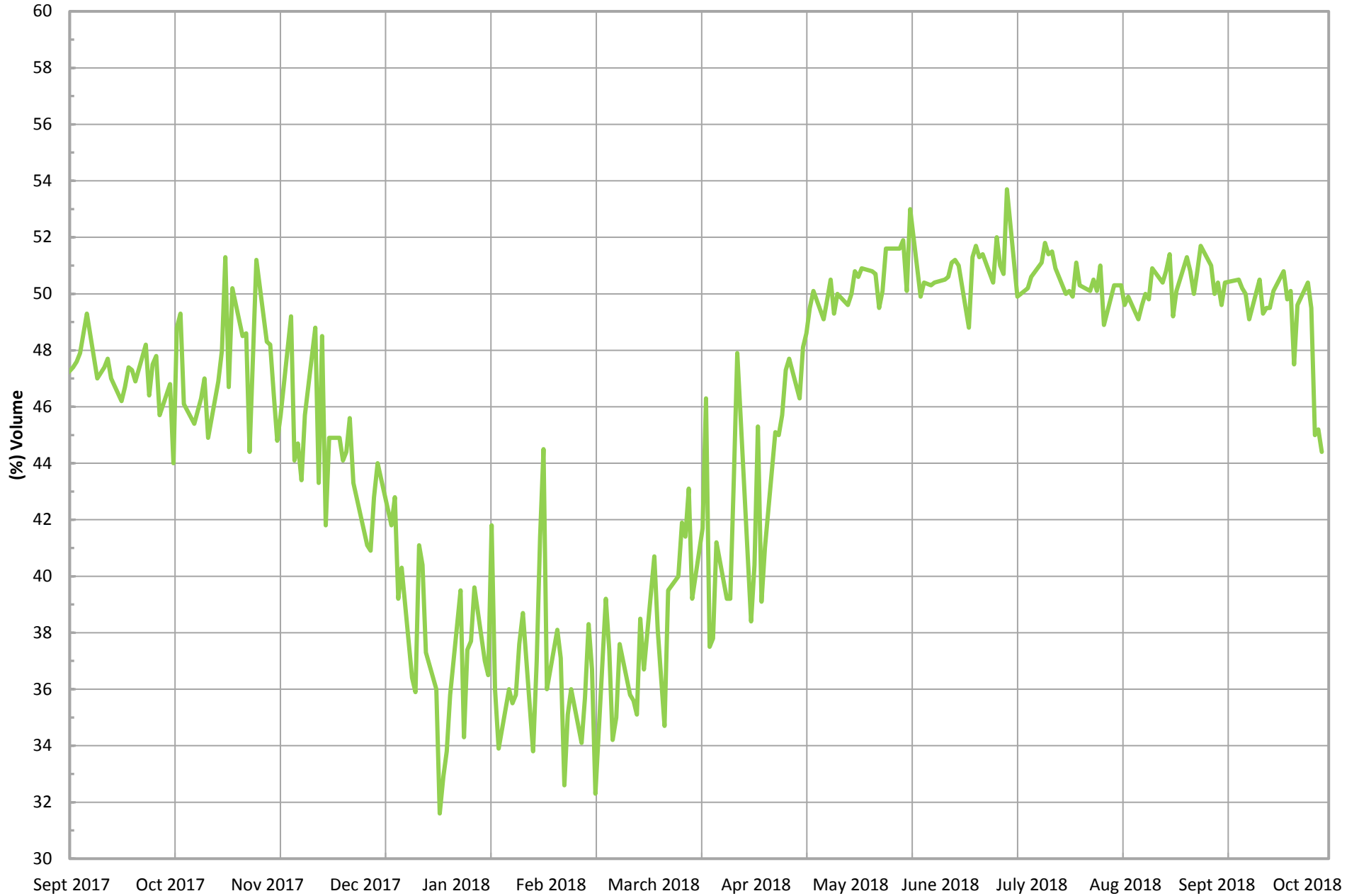
# North Quarry Inlet Carbon Monoxide\*



\*Data collected from Laboratory Reports for the North Quarry.

**BRIDGETON  
LANDFILL**

# North Quarry Inlet Methane (Field Data)\*

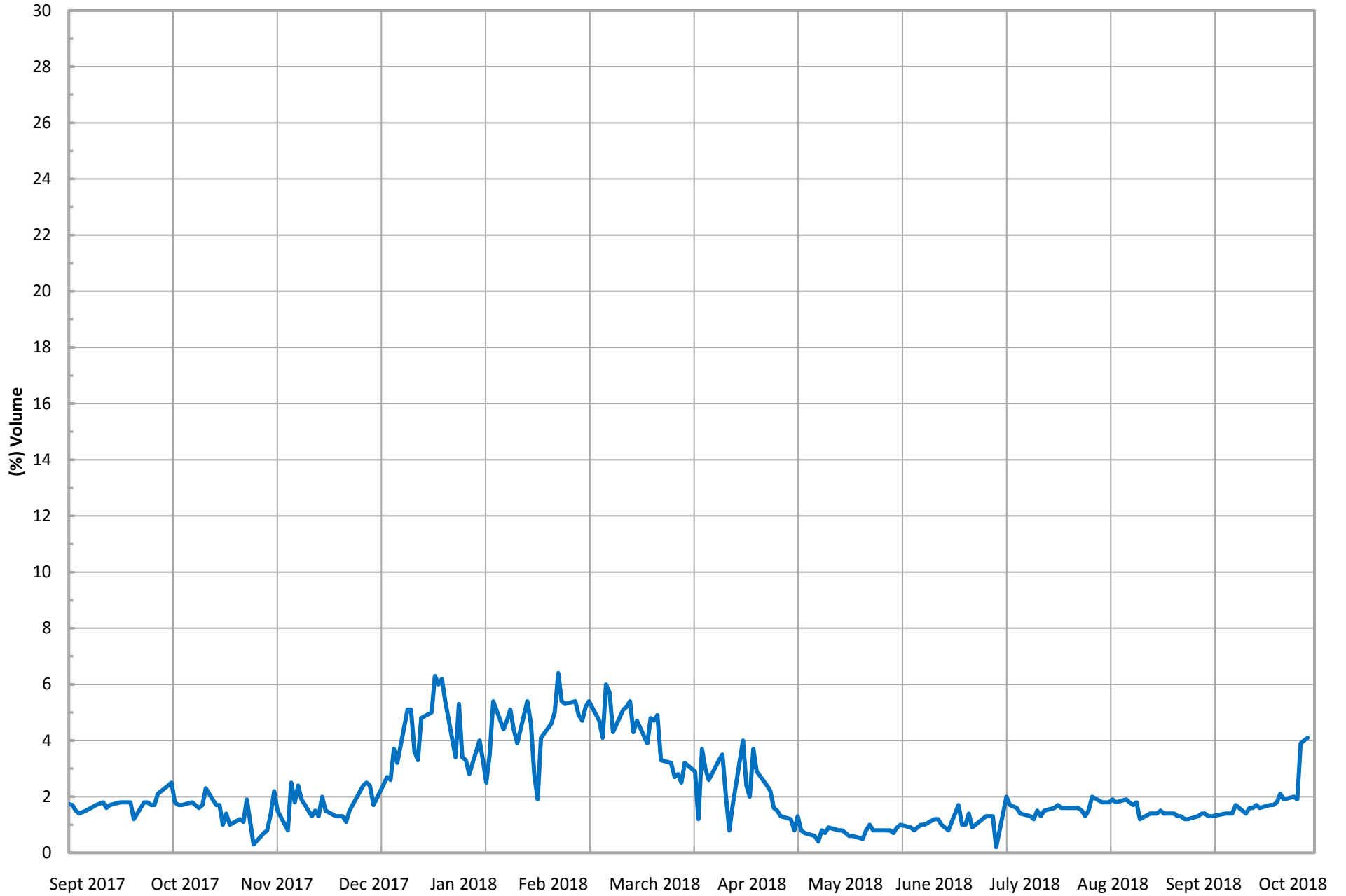


\*Gas data collected from field monitoring data in the North Quarry.

— Combined Inlet Methane (Field Data)\*

**BRIDGETON  
LANDFILL**

# North Quarry Inlet Oxygen (Field Data)\*

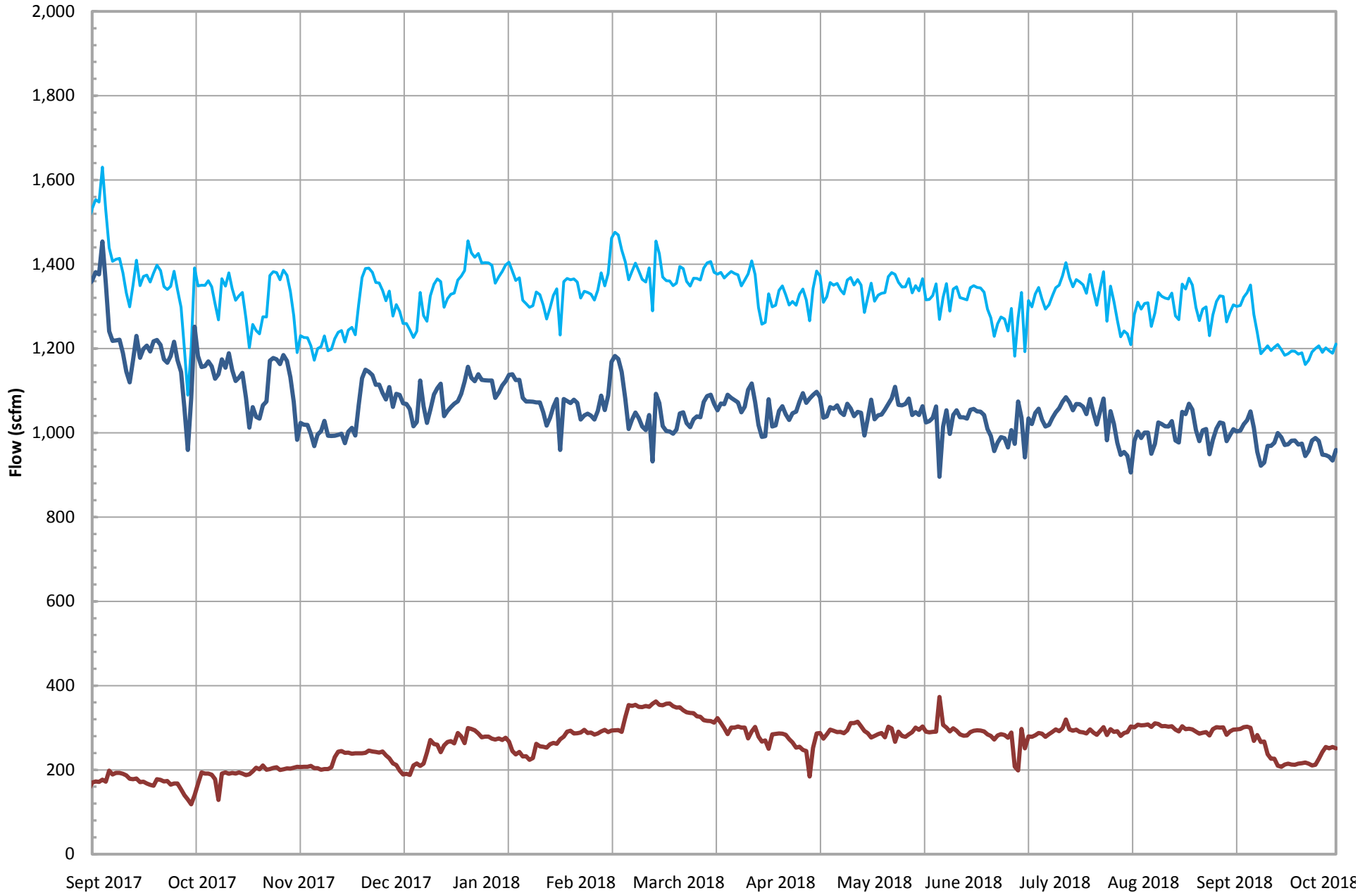


\*Gas data collected from field monitoring data in the North Quarry.

— Combined Inlet Oxygen (Field Data)\*

**BRIDGETON  
LANDFILL**

# 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.

- Total Combined Flow (scfm)\*
- SQ Flare Station Total Utility Flare Flow
- NQ Utility Flare

**BRIDGETON  
LANDFILL**



---

**ATTACHMENT B**

**WELL CONDITON/STATUS REPORT**

---

## September 2018

ID	Well Condition	Comments
GEW-1A	Non-Operational	Decommissioned
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-22R	Operational	
GEW-38	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-57R	Operational	
GEW-58	Operational	
GEW-58A	Operational	
GEW-59R	Operational	
GEW-67A	Operational	
GEW-68A	Operational	
GEW-77	Operational	
GEW-78R	Operational	

## September 2018

ID	Well Condition	Comments
GEW-81	Operational	
GEW-82R	Operational	
GEW-86	Operational	
GEW-87	Operational	
GEW-88	Operational	
GEW-90	Operational	
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	Operational	
GEW-129	Operational	
GEW-130	Operational	
GEW-131	Operational	
GEW-132	Operational	
GEW-133	Operational	
GEW-134	Operational	
GEW-135	Operational	
GEW-136	Operational	
GEW-137	Operational	
GEW-138	Operational	
GEW-139	Operational	
GEW-140	Operational	
GEW-141	Operational	
GEW-142	Operational	

## September 2018

ID	Well Condition	Comments
GEW-143	Operational	
GEW-144	Operational	
GEW-145	Operational	
GEW-146	Operational	
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Operational	
GEW-152	Operational	
GEW-153	Operational	
GEW-154	Operational	
GEW-155	Operational	
GEW-156	Operational	
GEW-157	Operational	
GEW-158	Operational	
GEW-159	Operational	
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	Operational	
GEW-174	Operational	
GEW-175	Operational	
GEW-176	Operational	
GEW-177	Operational	
GEW-178	Operational	
GEW-179	Operational	
GEW-180	Operational	
GEW-181	Operational	
GEW-182	Operational	
GEW-184	Operational	
GEW-185	Operational	
GEW-186	Operational	
GEW-187	Operational	

## September 2018

ID	Well Condition	Comments
GEW-188	Operational	
GEW-217	Operational	
GEW-218	Operational	
GEW-219	Operational	
GEW-220	Operational	
GEW-221	Operational	
GEW-222	Operational	
GEW-223	Operational	
GEW-224	Operational	
GEW-225	Operational	
GEW-226	Operational	
GEW-227	Operational	
GEW-228	Operational	
GEW-229	Operational	
GEW-230	Operational	
GEW-231	Operational	
GIW-1	Operational	
GIW-2	Operational	
GIW-3	Operational	
GIW-4	Operational	
GIW-5	Operational	
GIW-6	Operational	
GIW-7	Operational	
GIW-8	Operational	
GIW-9	Operational	
GIW-10	Operational	
GIW-11	Operational	
GIW-12	Operational	
GIW-13	Operational	

---

**ATTACHMENT C**

**LABORATORY DATA**

---

---

**ATTACHMENT C-1**

**LABORATORY ANALYSES SUMMARY**

---

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO <sub>2</sub>	O <sub>2</sub> /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
North Quarry								
GEW-002	5/21/2018	53	37	2.3	7.9	0.058	ND	See Note 8
GEW-002	5/31/2018	55	41	ND	ND	ND	ND	
GEW-002	6/4/2018	56	40	ND	3.4	ND	ND	
GEW-002	7/5/2018	56	42	ND	ND	ND	ND	
GEW-002	8/8/2018	56	41	ND	ND	ND	ND	
GEW-002	9/6/2018	57	39	ND	ND	ND	ND	
GEW-02S	5/7/2018	59	35	ND	4.5	ND	ND	
GEW-02S	7/5/2018	57	34	2.1	7.4	ND	ND	See Note 4
GEW-02S	8/8/2018	59	36	ND	3.9	ND	ND	
GEW-02S	9/6/2018	58	31	2.4	9.0	ND	ND	See Note 3
GEW-003	5/7/2018	53	36	ND	9.8	0.072	ND	
GEW-003	6/4/2018	51	37	ND	11	0.075	ND	
GEW-003	7/5/2018	54	40	ND	4.9	0.052	ND	
GEW-003	8/8/2018	50	39	ND	10	ND	ND	
GEW-003	9/6/2018	48	36	2.2	15	ND	ND	See Note 3
GEW-004	5/7/2018	54	37	ND	7.7	0.067	ND	
GEW-004	6/4/2018	55	39	ND	5.9	0.053	ND	
GEW-004	7/5/2018	56	39	ND	4.7	0.077	ND	
GEW-004	8/8/2018	55	39	ND	5.3	0.072	ND	
GEW-004	9/6/2018	57	39	ND	4.0	0.035	ND	
GEW-005	5/7/2018	54	34	ND	11	ND	ND	
GEW-005	6/5/2018	51	33	ND	14	ND	ND	
GEW-005	7/5/2018	52	32	2.2	14	ND	ND	See Note 3
GEW-005	8/8/2018	52	34	ND	13	ND	ND	
GEW-005	9/7/2018	54	34	ND	10	ND	ND	
GEW-006	5/8/2018	56	35	ND	7.8	ND	ND	
GEW-006	7/5/2018	58	37	ND	4.9	ND	ND	
GEW-006	8/8/2018	56	37	ND	6.5	ND	ND	
GEW-006	9/7/2018	58	37	ND	4.4	ND	ND	
GEW-007	5/7/2018	59	39	ND	ND	ND	ND	
GEW-007	7/3/2018	58	39	ND	ND	ND	ND	
GEW-007	8/6/2018	58	39	ND	ND	ND	ND	
GEW-007	9/4/2018	56	38	ND	4.3	ND	ND	
GEW-008	4/26/2018	55	41	ND	ND	1.6	ND	
GEW-008	5/7/2018	54	42	ND	ND	1.5	ND	
GEW-008	6/4/2018	53	42	ND	3.3	1.3	ND	
GEW-008	7/3/2018	52	44	ND	ND	1.4	ND	
GEW-008	8/6/2018	53	43	ND	ND	1.6	ND	
GEW-008	9/4/2018	53	43	ND	ND	1.3	ND	
GEW-009	5/7/2018	48	37	ND	14	0.45	ND	
GEW-009	6/4/2018	46	35	2.8	15	0.52	ND	See Note 3
GEW-009	7/3/2018	53	40	ND	4.9	0.67	ND	
GEW-009	8/8/2018	55	41	ND	ND	0.71	ND	
GEW-009	9/6/2018	53	40	ND	5.4	0.56	ND	
GEW-040	5/7/2018	55	34	1.6	9.3	ND	ND	See Note 8
GEW-040	5/29/2018	58	36	ND	5.0	ND	ND	
GEW-040	6/4/2018	58	36	ND	5.3	ND	ND	
GEW-040	7/3/2018	57	35	ND	6.0	ND	ND	
GEW-040	8/7/2018	57	36	ND	5.4	ND	ND	
GEW-040	9/5/2018	57	36	ND	6.1	ND	ND	
GEW-041R	5/7/2018	58	35	ND	6.0	ND	ND	
GEW-041R	7/3/2018	59	36	ND	3.6	ND	ND	
GEW-041R	8/7/2018	56	37	ND	5.3	ND	ND	
GEW-041R	9/6/2018	58	37	ND	4.5	ND	ND	
GEW-042R	5/7/2018	57	39	ND	ND	ND	ND	



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-042R	6/4/2018	57	39	ND	3.6	ND	ND	
GEW-042R	7/3/2018	55	38	ND	5.6	ND	ND	
GEW-042R	8/7/2018	57	40	ND	ND	ND	ND	
GEW-042R	9/6/2018	58	39	ND	ND	ND	ND	
GEW-043R	5/7/2018	52	37	2.3	8.5	0.23	ND	See Note 8
GEW-043R	5/29/2018	55	41	ND	ND	0.22	ND	
GEW-043R	7/5/2018	56	41	ND	ND	0.19	ND	
GEW-043R	8/7/2018	55	41	ND	ND	0.21	ND	
GEW-043R	9/6/2018	56	41	ND	ND	0.20	ND	
GEW-044	5/7/2018	55	37	ND	7.5	ND	ND	
GEW-044	7/5/2018	56	35	ND	6.8	ND	ND	
GEW-044	8/7/2018	58	38	ND	ND	ND	ND	
GEW-044	9/6/2018	56	39	ND	4.3	ND	ND	
GEW-045R	5/7/2018	58	40	ND	ND	ND	ND	
GEW-045R	6/4/2018	54	38	1.9	6.5	ND	ND	
GEW-045R	7/5/2018	56	39	ND	3.9	ND	ND	
GEW-045R	8/7/2018	57	39	ND	ND	ND	ND	
GEW-045R	9/6/2018	55	39	ND	4.5	ND	ND	
GEW-046R	5/7/2018	53	35	ND	11	ND	ND	
GEW-046R	6/4/2018	49	35	ND	16	0.034	ND	
GEW-046R	7/5/2018	56	37	ND	6.1	ND	ND	
GEW-046R	8/7/2018	57	38	ND	4.3	ND	ND	
GEW-046R	9/6/2018	59	37	ND	ND	ND	ND	
GEW-047R	5/7/2018	55	37	ND	7.2	0.068	ND	
GEW-047R	6/5/2018	48	36	ND	15	0.044	ND	
GEW-047R	7/5/2018	55	39	ND	4.8	0.058	ND	
GEW-047R	8/8/2018	53	38	ND	8.2	ND	ND	
GEW-047R	9/6/2018	54	39	ND	6.6	ND	ND	
GEW-048	5/7/2018	58	40	ND	ND	ND	ND	
GEW-048	6/5/2018	56	37	ND	5.7	ND	ND	
GEW-048	7/5/2018	57	38	ND	3.9	ND	ND	
GEW-048	8/8/2018	58	39	ND	ND	ND	ND	
GEW-048	9/7/2018	58	38	ND	ND	ND	ND	
GEW-049	5/8/2018	53	36	ND	10	ND	ND	
GEW-049	6/5/2018	52	35	ND	11	ND	ND	
GEW-049	7/5/2018	56	37	ND	5.7	ND	ND	
GEW-049	8/8/2018	57	39	ND	ND	ND	ND	
GEW-049	9/6/2018	56	39	ND	ND	ND	ND	
GEW-050	5/7/2018	55	35	ND	8.5	ND	ND	
GEW-050	7/3/2018	59	38	ND	ND	0.043	ND	
GEW-050	8/6/2018	58	38	ND	ND	0.045	ND	
GEW-050	9/4/2018	57	38	ND	3.8	0.057	ND	
GEW-051	5/7/2018	56	39	ND	ND	0.92	ND	
GEW-051	7/3/2018	56	40	ND	ND	0.99	ND	
GEW-051	8/6/2018	56	40	ND	ND	1.0	ND	
GEW-051	9/5/2018	56	40	ND	ND	0.83	ND	
GEW-052	5/7/2018	42	30	2.3	26	ND	ND	See Note 8
GEW-052	5/29/2018	49	33	2.4	16	ND	ND	
GEW-052	7/3/2018	55	36	ND	8.0	ND	ND	
GEW-052	8/6/2018	56	37	ND	5.6	ND	ND	
GEW-052	9/4/2018	56	39	ND	4.6	ND	ND	
GEW-053	5/7/2018	52	41	ND	ND	3.0	65	
GEW-053	6/4/2018	51	40	ND	ND	4.6	67	
GEW-053	7/3/2018	51	41	ND	ND	4.5	60	
GEW-053	8/7/2018	51	39	ND	4.4	4.8	58	
GEW-053	9/5/2018	52	40	ND	ND	4.8	62	

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-054	5/7/2018	54	41	ND	ND	2.3	ND	
GEW-054	6/4/2018	54	41	ND	ND	1.9	ND	
GEW-054	7/3/2018	50	39	1.9	6.5	2.0	ND	
GEW-054	8/7/2018	52	40	ND	4.7	2.0	ND	
GEW-054	9/5/2018	54	41	ND	ND	1.9	ND	
GEW-055	5/7/2018	52	39	ND	5.8	1.9	ND	
GEW-055	6/4/2018	52	39	ND	5.9	1.8	ND	
GEW-055	7/3/2018	52	41	ND	ND	2.5	ND	
GEW-055	8/7/2018	46	38	2.5	8.4	4.5	34	See Note 3
GEW-055	9/5/2018	52	40	ND	3.7	2.2	ND	
Flare Station <sup>2</sup>	5/1/2018	51.4	34.5	ND	12.0	0.5	ND	See Note 5
Flare Station <sup>2</sup>	6/1/2018	47.8	35.8	2.5	13.3	0.6	ND	See Note 5
Flare Station <sup>2</sup>	7/2/2018	47.8	35.4	3.2	13.0	0.6	ND	See Note 5
Flare Station <sup>2</sup>	8/1/2018	49.2	35.9	2.6	11.7	0.6	ND	See Note 5
Flare Station <sup>2</sup>	9/4/2018	48.1	35.2	3.0	13.0	0.6	24.0	See Note 5

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 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	5/2/2018	51	40	2.3	7.2	ND	ND	
GEW-010	6/5/2018	55	41	ND	3.3	ND	ND	
GEW-010	7/2/2018	54	41	ND	3.5	0.46	ND	
GEW-010	8/9/2018	55	42	ND	ND	ND	ND	
GEW-010	9/5/2018	54	42	ND	ND	0.38	ND	
GEW-013A	5/8/2018	7.0	35	5.0	44	8.0	330	
GEW-013A	7/5/2018	10	40	5.2	33	11	450	See Note 3
GEW-015	5/10/2018	0.41	46	ND	ND	49	2,400	
GEW-015	7/11/2018	0.43	46	ND	ND	50	2,400	
GEW-016R	5/10/2018	5.3	42	ND	25	26	1,100	
GEW-016R	7/11/2018	6.3	43	ND	24	25	1,000	
GEW-018B	5/11/2018	0.53	37	5.0	21	36	1,400	
GEW-018B	7/17/2018	0.63	40	4.1	17	37	1,400	
GEW-022R	5/11/2018	1.1	29	12	41	16	1,100	See Note 4
GEW-038	5/3/2018	5.0	23	12	43	17	710	See Note 4
GEW-038	6/5/2018	8.5	26	11	39	15	610	
GEW-038	7/3/2018	8.4	35	7.5	26	22	910	See Note 4
GEW-038	8/9/2018	21	39	5.0	17	18	620	
GEW-038	9/5/2018	18	41	4.7	16	20	760	
GEW-039	5/3/2018	29	38	2.3	31	ND	ND	
GEW-039	6/5/2018	30	36	ND	32	ND	ND	
GEW-039	7/3/2018	33	38	ND	28	ND	ND	
GEW-039	8/9/2018	35	38	ND	26	ND	ND	
GEW-039	9/5/2018	30	33	3.1	33	ND	ND	
GEW-056R	5/2/2018	28	40	2.4	12	17	480	
GEW-056R	6/5/2018	32	43	ND	7.9	16	470	
GEW-056R	7/3/2018	37	45	ND	ND	16	340	
GEW-056R	8/9/2018	38	44	ND	ND	15	310	
GEW-056R	9/5/2018	41	42	ND	ND	12	250	
GEW-057R	5/10/2018	12	28	12	44	3.2	130	See Note 4
GEW-057B	5/10/2018	0.50	11	17	60	11	270	See Note 3
GEW-057B	7/11/2018	1.0	52	ND	ND	43	1,400	
GEW-058	5/10/2018	6.8	29	2.8	47	13	580	
GEW-058	7/11/2018	20	39	ND	26	12	530	
GEW-058A	5/10/2018	0.62	39	4.3	17	38	1,300	
GEW-058A	7/11/2018	3.9	36	4.5	25	30	1,000	
GEW-059R	5/4/2018	15	36	2.6	18	28	930	
GEW-059R	7/11/2018	20	40	ND	6.7	31	890	
GEW-067A	5/10/2018	2.4	21	8.6	58	9.4	140	See Note 3
GEW-067A	7/5/2018	6.4	32	2.5	52	6.4	95	
GEW-068A	5/10/2018	12	52	ND	4.6	29	1,900	
GEW-068A	7/12/2018	8.1	54	ND	ND	33	2,100	
GEW-077	5/11/2018	0.36	30	10	35	23	1,200	See Note 3
GEW-078R	5/11/2018	3.6	30	ND	50	15	550	
GEW-078R	7/12/2018	4.2	31	ND	48	15	490	
GEW-081	5/14/2018	0.45	25	11	40	22	750	See Note 3
GEW-081	7/12/2018	0.29	22	12	44	20	610	See Note 4
GEW-082R	5/11/2018	6.7	33	ND	37	21	740	
GEW-082R	7/12/2018	0.81	47	ND	3.8	46	1,500	
GEW-086	5/10/2018	10	34	2.3	48	5.3	130	
GEW-086	7/5/2018	19	41	1.9	31	7.0	130	
GEW-087	5/10/2018	5.7	17	12	63	2.5	130	See Note 4
GEW-087	7/11/2018	4.0	24	4.6	61	5.6	180	
GEW-088	5/14/2018	4.1	42	ND	13	38	840	
GEW-088	7/17/2018	10.0	43	1.7	19	24	610	

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-090	5/10/2018	14	33	5.7	24	22	640	See Note 3
GEW-090	7/5/2018	19	43	ND	9.3	27	690	
GEW-091	5/10/2018	0.97	14	14	59	10	150	See Note 4
GEW-091	7/5/2018	2.0	35	5.5	27	28	350	See Note 4
GEW-091	8/9/2018	2.2	39	4.0	20	33	360	
GEW-091	9/6/2018	2.7	46	2.0	6.9	40	460	
GEW-100	5/10/2018	1.0	43	6.8	24	23	640	See Note 3
GEW-100	7/12/2018	0.89	40	7.7	27	22	560	See Note 3
GEW-101	5/10/2018	22	50	4.6	20	2.8	310	
GEW-101	7/12/2018	17	43	7.6	29	2.9	300	See Note 4
GEW-102	5/10/2018	9.8	35	6.7	23	24	370	See Note 3
GEW-102	7/12/2018	13	50	ND	ND	33	460	
GEW-104	5/15/2018	3.7	56	ND	ND	36	1,200	
GEW-104	7/12/2018	44	41	ND	ND	11	200	
GEW-105	5/10/2018	16	36	6.3	28	14	600	See Note 3
GEW-105	7/11/2018	14	39	5.5	23	17	740	See Note 3
GEW-106	5/10/2018	3.6	45	2.0	13	34	1,200	
GEW-106	7/11/2018	7.0	53	ND	6.0	30	670	
GEW-107	5/4/2018	12	56	ND	ND	28	1,600	
GEW-107	7/11/2018	13	55	ND	ND	29	1,300	
GEW-108	5/4/2018	35	48	ND	14	0.94	52	
GEW-108	7/11/2018	40	48	ND	10	1.3	47	
GEW-108	8/9/2018	40	46	ND	11	1.4	52	
GEW-108	9/4/2018	32	38	4.0	21	5.0	130	
GEW-109	5/3/2018	26	36	ND	27	9.3	340	
GEW-109	6/5/2018	27	38	ND	23	10	340	
GEW-109	7/3/2018	30	39	ND	20	10	280	
GEW-109	8/9/2018	30	40	ND	19	9.2	240	
GEW-109	9/5/2018	32	39	ND	20	8.2	230	
GEW-110	5/2/2018	17	31	8.2	29	15	470	See Note 4
GEW-110	6/5/2018	17	31	7.7	28	16	490	See Note 4
GEW-110	7/2/2018	22	40	3.8	17	18	520	
GEW-110	8/9/2018	24	46	ND	3.7	25	680	
GEW-110	9/5/2018	17	28	7.8	34	12	360	See Note 4
GEW-113	5/10/2018	7.4	46	3.6	19	23	1,200	
GEW-113	7/11/2018	11	51	ND	13	23	1,100	
GEW-116	5/11/2018	10	66	ND	ND	19	730	
GEW-116	7/13/2018	13	58	ND	4.9	22	750	
GEW-117	5/11/2018	43	51	ND	4.9	0.087	90	
GEW-117	7/13/2018	45	52	ND	ND	0.080	65	
GEW-118	5/11/2018	1.3	53	ND	3.9	39	1,300	
GEW-118	7/17/2018	1.6	55	ND	3.9	37	980	
GEW-120	5/11/2018	17	52	ND	19	10	450	
GEW-120	7/17/2018	22	61	ND	3.7	12	590	
GEW-121	5/11/2018	9.5	44	2.1	29	15	770	
GEW-121	7/13/2018	6.9	42	2.4	31	17	780	
GEW-122	5/14/2018	10	33	3.1	39	15	1,100	
GEW-122	7/13/2018	12	36	ND	35	15	1,100	
GEW-123	5/11/2018	17	52	ND	18	12	610	
GEW-123	7/13/2018	13	45	ND	29	11	480	
GEW-124	5/14/2018	41	34	5.5	19	ND	ND	See Note 4
GEW-124	7/13/2018	35	24	8.9	31	ND	ND	See Note 3
GEW-125	5/14/2018	3.4	52	ND	11	32	1,700	
GEW-125	7/13/2018	2.7	52	ND	9.8	33	1,600	
GEW-126	5/14/2018	17	53	ND	18	8.8	630	
GEW-126	7/17/2018	19	51	ND	15	13	870	

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-127	5/14/2018	4.9	62	ND	4.3	27	2,300	
GEW-127	7/17/2018	8.4	57	ND	11	21	1,800	
GEW-128	5/8/2018	12	45	6.3	24	12	1,100	See Note 3
GEW-128	7/13/2018	9.5	54	3.5	15	17	1,700	
GEW-129	5/11/2018	1.0	64	ND	ND	31	3,600	
GEW-129	7/13/2018	1.1	64	ND	ND	31	3,500	
GEW-130	5/14/2018	5.9	53	2.0	9.3	29	2,400	
GEW-130	7/17/2018	7.3	50	2.3	13	26	2,200	
GEW-131	5/14/2018	20	40	ND	25	14	940	
GEW-131	7/17/2018	24	40	ND	22	13	810	
GEW-132	5/11/2018	1.0	43	3.7	17	34	1,800	
GEW-132	7/12/2018	1.6	49	ND	8.5	40	1,900	
GEW-133	5/14/2018	11	49	ND	16	22	1,000	
GEW-133	7/13/2018	11	48	ND	17	21	880	
GEW-134	5/11/2018	11	42	ND	28	17	710	
GEW-134	7/12/2018	14	43	1.8	23	18	680	
GEW-135	5/11/2018	5.4	39	3.7	30	22	900	
GEW-135	7/12/2018	6.6	41	2.5	28	22	840	
GEW-136	5/11/2018	3.4	15	14	57	11	310	See Note 4
GEW-136	7/11/2018	6.1	20	11	48	15	330	See Note 3
GEW-137	5/11/2018	24	29	4.2	43	0.25	39	
GEW-137	7/11/2018	23	31	3.1	42	0.49	43	
GEW-138	5/10/2018	4.4	22	4.7	60	8.1	420	
GEW-138	7/12/2018	4.8	24	5.2	57	8.8	430	See Note 4
GEW-139	5/11/2018	6.1	50	ND	12	31	2,100	
GEW-139	7/13/2018	6.4	49	ND	11	31	2,100	
GEW-140	5/11/2018	20	49	ND	5.7	24	1,100	
GEW-140	7/13/2018	15	50	ND	7.2	26	1,300	
GEW-143	7/12/2018	0.25	19	14	52	14	1,400	See Note 4
GEW-144	7/12/2018	30	28	8.6	30	2.5	120	See Note 4
GEW-145	5/10/2018	5.6	42	3.6	13	36	1,400	
GEW-145	7/12/2018	5.0	49	ND	ND	42	1,700	
GEW-146	5/10/2018	1.9	4.9	18	75	0.40	ND	See Note 4
GEW-146	7/11/2018	2.7	7.2	15	74	0.59	ND	See Note 4
GEW-147	5/11/2018	9.0	40	ND	26	23	810	
GEW-147	7/11/2018	12	42	ND	20	24	750	
GEW-148	5/10/2018	0.052	0.84	22	77	0.25	ND	See Note 4
GEW-148	7/11/2018	7.4	43	3.9	16	28	1,400	
GEW-149	5/10/2018	9.7	37	ND	43	7.7	290	
GEW-149	7/5/2018	15	41	ND	40	2.7	150	
GEW-150	5/15/2018	18	53	ND	7.1	20	940	
GEW-150	7/11/2018	22	47	ND	10.0	18	760	
GEW-151	5/14/2018	25	48	ND	4.7	21	570	
GEW-151	7/17/2018	7.6	49	ND	ND	39	1,200	
GEW-152	5/4/2018	25	40	2.5	12	19	950	
GEW-152	7/11/2018	25	44	ND	5.1	24	1,000	
GEW-153	5/4/2018	32	29	1.8	35	1.6	ND	
GEW-153	7/11/2018	46	37	ND	15	1.8	ND	
GEW-154	5/10/2018	0.015	2.4	20	77	0.47	74	See Note 4
GEW-154	7/5/2018	0.81	9.6	13	76	0.34	ND	See Note 4
GEW-155	5/11/2018	0.41	17	7.6	70	5.0	170	See Note 4
GEW-155	7/12/2018	0.58	19	5.9	70	4.7	130	See Note 4
GEW-156	5/10/2018	39	48	ND	6.5	5.8	160	
GEW-156	7/11/2018	37	48	ND	6.3	7.5	200	
GEW-157	5/10/2018	15	47	1.9	6.7	29	1,100	
GEW-157	7/11/2018	16	45	2.3	8.0	28	1,100	

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-158	5/10/2018	15	46	2.8	17	18	440	
GEW-158	7/11/2018	17	53	ND	5.8	22	620	
GEW-159	5/4/2018	31	29	1.7	32	5.1	200	
GEW-159	7/11/2018	37	35	2.9	20	4.5	86	
GEW-159	8/9/2018	44	40	ND	13	2.5	47	
GEW-159	9/5/2018	46	39	ND	9.8	3.3	110	
GEW-160	5/10/2018	6.1	17	12	56	9.2	360	See Note 4
GEW-160	7/5/2018	1.6	51	ND	4.5	40	2,100	
GEW-160	8/9/2018	4.4	50	ND	5.0	38	1,700	
GEW-160	9/6/2018	5.7	49	ND	6.8	37	1,700	
GEW-161	5/10/2018	3.6	46	1.8	16	31	1,600	
GEW-161	7/5/2018	5.0	47	1.8	13	32	1,400	
GEW-161	8/9/2018	7.9	47	ND	11	32	1,200	
GEW-161	9/6/2018	7.9	45	ND	15	30	1,100	
GEW-162	5/10/2018	9.4	59	ND	16	14	730	
GEW-162	7/5/2018	7.2	39	8.5	36	8.5	420	See Note 3
GEW-162	8/9/2018	11	58	2.1	15	13	560	
GEW-162	9/6/2018	3.5	19	16	58	3.2	210	See Note 3
GEW-163	5/3/2018	12	48	2.6	23	14	520	
GEW-163	7/9/2018	8.0	32	7.7	43	8.9	270	See Note 3
GEW-164	5/3/2018	24	56	ND	7.6	10	640	
GEW-164	7/9/2018	25	54	ND	10	8.7	490	
GEW-165	5/21/2018	9.5	54	3.3	12	20	930	
GEW-165	7/9/2018	11	54	3.1	12	19	780	
GEW-166	5/3/2018	0.93	54	ND	ND	41	2,600	
GEW-166	7/9/2018	1.3	46	3.3	12	36	2,000	
GEW-167	5/3/2018	0.44	30	9.4	34	25	1,500	See Note 3
GEW-167	7/9/2018	0.63	37	6.4	25	31	1,600	See Note 3
GEW-168	5/3/2018	10	54	ND	8.4	25	1,400	
GEW-168	7/9/2018	13	50	3.1	15	18	800	
GEW-169	5/3/2018	5.5	61	ND	ND	30	1,900	
GEW-169	7/9/2018	5.3	58	ND	5.9	29	1,600	
GEW-170	5/14/2018	8.6	60	ND	4.2	25	2,000	
GEW-170	7/13/2018	10.0	57	ND	7.3	23	1,700	
GEW-171	5/10/2018	4.7	34	9.9	36	15	1,100	See Note 3
GEW-172	5/10/2018	12	55	ND	ND	29	2,200	
GEW-172	7/13/2018	20	51	ND	ND	24	1,600	
GEW-173	5/11/2018	3.8	13	11	71	0.50	53	See Note 4
GEW-173	7/13/2018	4.2	15	11	68	1.4	150	See Note 4
GEW-174	5/10/2018	21	43	ND	20	14	720	
GEW-174	7/12/2018	23	45	ND	16	14	630	
GEW-175	5/10/2018	14	50	2.4	13	20	710	
GEW-175	7/11/2018	14	53	ND	5.8	24	870	
GEW-176	5/10/2018	25	31	7.2	31	4.9	200	See Note 4
GEW-176	7/11/2018	34	46	ND	12	5.9	240	
GEW-177	5/8/2018	2.1	62	ND	ND	33	3,600	
GEW-177	7/13/2018	6.6	53	2.8	9.8	27	2,700	
GEW-178	5/3/2018	16	53	4.0	18	7.8	270	
GEW-178	7/11/2018	26	64	ND	ND	5.8	170	
GEW-179	5/3/2018	22	68	ND	3.9	5.2	140	
GEW-179	7/11/2018	16	54	2.6	22	4.7	130	
GEW-180	5/4/2018	14	64	ND	9.4	11	420	
GEW-180	7/11/2018	14	68	ND	3.9	12	400	
GEW-181	5/4/2018	15	68	ND	ND	13	850	
GEW-181	7/11/2018	16	67	ND	3.8	11	660	
GEW-182	5/4/2018	18	44	4.3	19	13	440	

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-182	7/9/2018	24	44	4.0	18	9.3	280	
GEW-184	5/4/2018	16	33	10	40	1.2	100	See Note 4
GEW-184	7/9/2018	21	49	4.2	20	5.0	200	
GEW-185	5/4/2018	16	59	ND	5.8	17	770	
GEW-185	7/9/2018	15	58	ND	6.1	18	690	
GEW-186	5/4/2018	25	52	2.5	11	8.5	630	
GEW-186	7/11/2018	19	49	4.4	18	9.2	770	
GEW-187	5/3/2018	16	52	2.7	9.2	18	810	
GEW-187	7/11/2018	14	45	5.6	19	16	630	See Note 3
GEW-187	8/9/2018	17	57	ND	ND	21	800	
GEW-187	9/4/2018	14	44	6.0	21	15	610	See Note 3
GEW-188	5/10/2018	1.8	12	15	68	3.1	160	See Note 4
GEW-188	7/9/2018	0.45	18	8.9	66	6.9	270	See Note 4
GIW-01	5/2/2018	6.3	59	ND	6.9	25	1,100	
GIW-01	6/5/2018	4.8	53	1.7	16	24	1,100	
GIW-01	7/3/2018	7.0	54	2.4	13	22	990	
GIW-01	8/9/2018	8.2	58	ND	7.4	25	990	
GIW-01	9/6/2018	6.3	41	6.7	26	19	750	See Note 3
GIW-02	5/2/2018	0.65	17	15	58	8.5	530	See Note 4
GIW-02	6/5/2018	2.3	16	14	62	4.8	280	See Note 4
GIW-02	7/3/2018	3.6	26	10	52	7.9	510	See Note 4
GIW-02	8/9/2018	3.3	24	10	55	7.7	460	See Note 4
GIW-02	9/6/2018	2.9	20	14	57	7.1	450	See Note 4
GIW-03	5/2/2018	9.4	40	3.2	31	15	740	
GIW-03	6/5/2018	8.6	45	2.6	26	17	810	
GIW-03	7/3/2018	9.9	46	3.4	20	19	780	
GIW-03	8/9/2018	13	50	ND	14	20	700	
GIW-03	9/6/2018	8.6	37	7.2	32	15	570	See Note 3
GIW-04	5/2/2018	4.6	38	6.2	25	26	1,100	See Note 3
GIW-04	6/5/2018	0.60	45	3.8	13	37	1,800	See Note 4
GIW-04	7/3/2018	2.5	52	ND	5.0	38	1,700	
GIW-04	8/9/2018	2.8	50	1.8	5.9	39	1,600	
GIW-04	9/6/2018	1.8	45	3.5	12	37	1,600	
GIW-05	5/10/2018	0.42	11	16	58	14	130	See Note 3
GIW-05	6/5/2018	0.54	15	15	53	16	160	See Note 3
GIW-05	7/5/2018	0.77	20	13	45	22	210	See Note 3
GIW-05	8/9/2018	1.5	45	3.2	11	39	420	
GIW-05	9/6/2018	0.49	11	16	57	15	130	See Note 4
GIW-06	5/3/2018	20	43	ND	25	11	170	
GIW-06	6/5/2018	24	41	ND	21	12	180	
GIW-06	7/3/2018	27	41	ND	19	11	160	
GIW-06	8/9/2018	25	39	2.0	23	11	150	
GIW-06	9/5/2018	28	41	ND	18	11	150	
GIW-07	5/3/2018	28	58	ND	4.9	7.2	360	
GIW-07	6/5/2018	34	54	ND	4.6	6.6	300	
GIW-07	7/3/2018	35	53	ND	4.2	5.9	260	
GIW-07	8/9/2018	37	52	ND	5.0	4.8	250	
GIW-07	9/5/2018	40	52	ND	3.9	2.0	220	
GIW-08	5/3/2018	37	53	ND	9.0	0.054	ND	
GIW-08	6/5/2018	40	50	ND	9.1	0.15	45	
GIW-08	7/3/2018	43	49	ND	6.4	0.34	58	
GIW-08	8/9/2018	44	49	ND	5.2	0.39	60	
GIW-08	9/5/2018	45	49	ND	5.0	0.35	61	
GIW-09	5/3/2018	3.4	24	5.6	64	2.6	120	See Note 4
GIW-09	6/5/2018	5.4	19	8.3	64	2.9	100	See Note 4
GIW-09	7/3/2018	7.8	24	4.3	59	5.5	89	

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-09	8/9/2018	9.0	27	5.1	52	7.4	180	See Note 4
GIW-09	9/5/2018	10	24	6.2	53	6.0	140	See Note 4
GIW-10	5/3/2018	8.5	28	1.8	50	11	310	
GIW-10	6/5/2018	9.8	31	ND	44	14	440	
GIW-10	7/5/2018	11	34	ND	38	16	420	
GIW-10	8/9/2018	12	34	ND	37	15	380	
GIW-10	9/5/2018	13	35	ND	35	16	410	
GIW-11	5/2/2018	12	34	2.3	39	13	600	
GIW-11	6/5/2018	12	36	ND	38	13	600	
GIW-11	7/3/2018	20	40	ND	28	11	380	
GIW-11	8/9/2018	22	40	ND	26	10	370	
GIW-11	9/5/2018	20	38	ND	31	9.9	400	
GIW-12	5/2/2018	10	25	10	45	9.3	490	See Note 4
GIW-12	6/5/2018	8.8	34	7.3	34	16	820	See Note 3
GIW-12	7/3/2018	9.3	53	ND	9.1	27	1,300	
GIW-12	8/9/2018	11	48	ND	15	24	1,100	
GIW-12	9/5/2018	10	48	2.4	14	25	1,200	
GIW-13	5/2/2018	23	50	3.1	12	12	370	
GIW-13	6/5/2018	31	53	ND	4.5	11	330	
GIW-13	7/3/2018	27	56	ND	ND	13	390	
GIW-13	8/9/2018	33	51	ND	ND	12	350	
GIW-13	9/5/2018	31	52	ND	ND	12	400	
Flare Station <sup>2</sup>	5/1/2018	12.3	32.8	7.4	36.3	10.0	495	See Note 6
Flare Station <sup>2</sup>	6/1/2018	12.7	37.1	6.2	32.2	10.4	505	See Note 6
Flare Station <sup>2</sup>	7/2/2018	13.5	36.8	6.4	32.0	10.1	445	See Note 6
Flare Station <sup>2</sup>	8/1/2018	13.3	36.3	6.4	32.6	10.1	465	See Note 6
Flare Station <sup>2</sup>	9/4/2018	12.2	33.6	7.2	36.2	9.4	450	See Note 6

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**

---



September 20, 2018

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: J091004-01/51

Enclosed are results for sample(s) received 9/10/18 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; Michelle Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 9/17/18.

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**

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

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

DELIVERABLES  
 EDD   
 EDF   
 Level 3   
 Level 4

Condition upon receipt:  
 Sealed Yes  No   
 Intact Yes  No   
 Chilled \_\_\_\_\_ deg C

PAGE: 1 OF 6

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

LAB USE ONLY	Cannister ID	Cannister Pressure ("hg)	Sample		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
			Start	End							
J091004-01	A7744	-17.5	-5	-5	GEW 187	9/4/2018	14:17	C	LFG	NA	X
-02	A7670	-20.1	-5	-5	GEW 108	9/4/2018	14:28	C	LFG	NA	X
-03	6158	-20.2	-5	-5	GEW 159	9/5/2018	8:15	C	LFG	NA	X
-04	A7776	-19.9	-5	-5	GIW 6	9/5/2018	8:26	C	LFG	NA	X
-05	3839	-20	-5	-5	GIW 7	9/5/2018	8:37	C	LFG	NA	X
-06	5271	-19.7	-5	-5	GIW 8	9/5/2018	8:47	C	LFG	NA	X
-07	5304	-19.9	-5	-5	GEW 38	9/5/2018	8:56	C	LFG	NA	X
-08	6148	-19.8	-5	-5	GIW 9	9/5/2018	9:54	C	LFG	NA	X
-09	A7764	-19.7	-5	-5	GEW 109	9/5/2018	10:04	C	LFG	NA	X
-10	5835	-19.8	-5	-5	GEW 39	9/5/2018	10:15	C	LFG	NA	X

AUTHORIZATION TO PERFORM WORK: Dave Penoyer  
 COMPANY: Republic Services

SAMPLED BY: Tim Ahrens  
 DATE/TIME: 9/4/18 9:15/18

RELINQUISHED BY: [Signature]  
 DATE/TIME: 9/17/18

RECEIVED BY: [Signature]  
 DATE/TIME: 9/10/18 9:07

RELINQUISHED BY: [Signature]  
 DATE/TIME: 9/10/18 9:07

METHOD OF TRANSPORT (circle one): Walk-In  UPS  Courier  ATL  Other

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

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

**AIRTECHNOLOGY**  
Laboratories, Inc.

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

**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

LAB USE ONLY	Cannister Pressure (\"ng)		SAMPLE IDENTIFICATION		SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVATION	ANALYSIS REQUEST	
	Cannister ID	Sample Start	Sample End								
J091004-11	5819	-19.6	-5	GIW 11	9/5/2018	11:05	C	LFG	NA	X	-7
J091004-12	3440	-19.8	-5	GEW 56R	9/5/2018	11:16	C	LFG	NA	X	-7
J091004-13	5906	-20	-5	GIW 12	9/5/2018	11:27	C	LFG	NA	X	-7
J091004-14	5927	-19.8	-5	GEW 110	9/5/2018	13:29	C	LFG	NA	X	-7
J091004-15	A7780	-19.8	-5	GIW 13	9/5/2018	13:39	C	LFG	NA	X	-6.5
J091004-16	5323	-19.4	-5	GEW 10	9/5/2018	13:50	C	LFG	NA	X	-7
J091004-17	6152	-19.6	-5	GIW 10	9/5/2018	14:26	C	LFG	NA	X	-7
J091004-18	3164	-19.7	-5	GEW 160	9/6/2018	8:15	C	LFG	NA	X	-6
J091004-19	5928	-19.7	-5	GEW 161	9/6/2018	8:24	C	LFG	NA	X	-6
J091004-20	5272	-19.8	-5	GIW 5	9/6/2018	8:36	C	LFG	NA	X	-6

**CHAIN OF CUSTODY RECORD** PAGE: 2 OF 6

Condition upon receipt: Sealed Yes  No   
 Intact Yes  No   
 Chilled \_\_\_\_\_ deg C

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

DELIVERABLES: EDD  EDF  Level 3  Level 4

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

**COMMENTS**

AUTHORIZATION TO PERFORM WORK: Dave Penoyer  
 COMPANY: Republic Services

SAMPLED BY: Tim Ahrens  
 RECEIVED BY: Cornerstone  
 DATE/TIME: 9/5/18 9:07

RELINQUISHED BY: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_  
 DATE/TIME: 9/7/18  
 DATE/TIME: 9/12/18 9:07

RELINQUISHED BY: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_  
 DATE/TIME: \_\_\_\_\_  
 DATE/TIME: \_\_\_\_\_

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

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy  
 Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other  
 Rev. 03 - 5/7/09



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

**CHAIN OF CUSTODY RECORD**

**TURNAROUND TIME**      **DELIVERABLES**      **PAGE:** 3 OF 6

Standard  48 hours  EDD  Condition upon receipt:  
 Same Day  72 hours  EDF  Sealed Yes  No   
 24 hours  96 hours  Level 3  Intact Yes  No   
 Other: 5 Day  Level 4  Chilled \_\_\_\_\_ deg C

**BILLING**

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

SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE	MATRIX	PRESERVATION	SAMPLE IDENTIFICATION	
					Cannister ID	Cannister Pressure ("hg)
9/6/2018	8:48	C	LFG	NA	5305	-19.5 -5
9/6/2018	8:58	C	LFG	NA	A8072	-19.8 -5
9/6/2018	9:08	C	LFG	NA	A8055	-20.1 -5
9/6/2018	10:09	C	LFG	NA	A7773	-19.7 -5
9/6/2018	10:22	C	LFG	NA	4657	-19.7 -5
9/6/2018	10:33	C	LFG	NA	5834	-19.9 -5

**LAB USE ONLY**

J091004-21  
 -22  
 -23  
 -24  
 -25  
 -26

**ANALYSIS REQUEST**

D1946 + CO, H2

INTACT PRESS

**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

**LAB USE ONLY**

**SAMPLE IDENTIFICATION**

SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE	MATRIX	PRESERVATION
9/6/2018	8:48	C	LFG	NA
9/6/2018	8:58	C	LFG	NA
9/6/2018	9:08	C	LFG	NA
9/6/2018	10:09	C	LFG	NA
9/6/2018	10:22	C	LFG	NA
9/6/2018	10:33	C	LFG	NA

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

**SAMPLED BY:** Tim Ahrens      **DATE/TIME:** 9/6/18

**RELINQUISHED BY:** [Signature]      **DATE/TIME:** 9/7/18

**RECEIVED BY:** [Signature]      **DATE/TIME:** 9/7/18

**RECEIVED BY:** [Signature]      **DATE/TIME:** 9/7/18

**RECEIVED BY:** [Signature]      **DATE/TIME:** 9/7/18

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

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

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

**AIR TECHNOLOGY**  
Laboratories, Inc.

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

**Project No.:** 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

LAB USE ONLY	Cannister Pressure ("hg)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVA-TION	ANALYSIS REQUEST		
	Sample Start	Sample End									
J091004-27	A7794	-20.1	-5	GEW 50	9/4/2018	14:14	C	LFG	NA	X	-6
-28	A7781	-20.1	-5	GEW 52	9/4/2018	14:25	C	LFG	NA	X	-6
-29	A8078	-19.9	-5	GEW 7	9/4/2018	14:39	C	LFG	NA	X	-6.5
-30	3157	-20	-5	GEW 8	9/4/2018	14:50	C	LFG	NA	X	-6
-31	A7665	-20	-5	GEW 51	9/5/2018	9:03	C	LFG	NA	X	-6
-32	5313	-19.9	-5	GEW 53	9/5/2018	9:15	C	LFG	NA	X	-6
-33	A7818	-19.8	-5	GEW 54	9/5/2018	9:28	C	LFG	NA	X	-6
-34	A7772	-19.7	-5	GEW 55	9/5/2018	9:48	C	LFG	NA	X	-6.5
-35	3825	-19.8	-5	GEW 40	9/5/2018	9:59	C	LFG	NA	X	-7
-36	3826	-20.1	-5	GEW 9	9/6/2018	8:27	C	LFG	NA	X	-6

**CHAIN OF CUSTODY RECORD**

TURNAROUND TIME: Standard  48 hours, Same Day  72 hours, 24 hours  96 hours, Other: 5 Day

DELIVERABLES: EDD , EDF , Level 3 , Level 4

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

PAGE: 4 OF 6

**BILLING**

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

**LABORATORY WORK:** Dave Penoyer  
 COMPANY: Republic Services

**SAMPLED BY:** Anthony Kimutis  
 RECEIVED BY: [Signature] 9/4/18  
 DATE/TIME: 9/6/18

**RELINQUISHED BY:** [Signature] 9/1/18  
 RECEIVED BY: J. King 9/10/18  
 DATE/TIME: 9:07

**RELINQUISHED BY:** [Signature]  
 RECEIVED BY: [Signature]  
 DATE/TIME: [Signature]

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

**COMMENTS:**

DISTRIBUTION: White & Yellow - Lab Copies / Pink - Customer Copy  
 Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other  
 Rev. 03 - 5/7/09

**AIR TECHNOLOGY**  
Laboratories, Inc.

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

**Project No.:** Bridgeton Landfill  
**Report Name:** 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

LAB USE ONLY	Cannister ID	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVATION	CHAIN OF CUSTODY RECORD					
										TURNAROUND TIME	DELIVERABLES	PAGE:	OF		
5091004-37	A7815	-19.8	-5	GEW 41R	9/6/2018	8:42	C	LFG	NA	X				5	6
5091004-38	3838	-20	-5	GEW 42R	9/6/2018	8:52	C	LFG	NA	X					
5091004-39	A7667	-19.9	-5	GEW 43R	9/6/2018	9:05	C	LFG	NA	X					
5091004-40	6151	-19.8	-5	GEW 44	9/6/2018	9:16	C	LFG	NA	X					
5091004-41	A7797	-19.8	-5	GEW 49	9/6/2018	9:26	C	LFG	NA	X					
5091004-42	5267	-19.9	-5	GEW 45R	9/6/2018	10:19	C	LFG	NA	X					
5091004-43	A8064	-19.8	-5	GEW 46R	9/6/2018	10:29	C	LFG	NA	X					
5091004-44	A7800	-19.9	-5	GEW 2S	9/6/2018	10:41	C	LFG	NA	X					
5091004-45	A7799	-20.1	-5	GEW 2	9/6/2018	10:57	C	LFG	NA	X					
5091004-46	6135	-19.9	-5	GEW 3	9/6/2018	11:08	C	LFG	NA	X					

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

**ANALYSIS REQUEST**

Condition upon receipt: Sealed Yes  No   
Intact Yes  No   
Chilled \_\_\_\_\_ deg C

**COMMENTS**

AUTHORIZATION TO PERFORM WORK: Dave Penoyer  
COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis  
DATE/TIME: 9/6/18

RELINQUISHED BY: [Signature]  
DATE/TIME: 9/6/18

RECEIVED BY: J. Yang  
DATE/TIME: 9/10/18 9:07

RELINQUISHED BY: [Signature]  
DATE/TIME: 9/10/18 9:07

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

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

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other



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

**CHAIN OF CUSTODY RECORD**

PAGE: 6 OF 6

DELIVERABLES

TURNAROUND TIME

Condition upon receipt:

Sealed Yes  No

Intact Yes  No

Chilled \_\_\_\_\_ deg C

EDD  EDF  Level 3  Level 4

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

Project No.:

Project Name: Bridgeton Landfill

Report To: Mike Lambrich

Company: Republic Services

Street: 13570 St. Charles Rock Rd.

City/State/Zip: Bridgeton, MO 63044

Phone & Fax: 314-683-3921

e-mail: Mlambrich@republicservices.com

**BILLING**

P.O. No.: P07112802

Bill to: Republic Services

Attn: Mike Lambrich

13570 St. Charles Rock Rd.

Bridgeton, MO 63044

**ANALYSIS REQUEST**

D1946 + CO, H2

INITIAL  
MESS

-6  
-6.5  
-6  
-6  
-6

**SAMPLE IDENTIFICATION**

Cannister Pressure ("hg)

**LAB USE ONLY**

Cannister ID	Sample Start	Sample End
A8065	-19.8	-5
A7805	-20	-5
6154	-20	-5
5936	-20	-5
5837	-19.8	-5

J091004-47  
-48  
-49  
-50  
-51

DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVATION
9/6/2018	11:29	C	LFG	NA
9/6/2018	11:45	C	LFG	NA
9/7/2018	8:06	C	LFG	NA
9/7/2018	8:19	C	LFG	NA
9/7/2018	8:32	C	LFG	NA

**COMMENTS**

AUTHORIZATION TO PERFORM WORK: Dave Penoyer

COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis  
 RELINQUISHED BY: [Signature] DATE/TIME: 9/7/18  
 RECEIVED BY: [Signature] DATE/TIME: 9/18-9/21/18  
 RELINQUISHED BY: [Signature] DATE/TIME: 9/18-9/21/18  
 RECEIVED BY: [Signature] DATE/TIME: 9/18-9/21/18

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

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

Preservation: H=HCl N=None / Container: B=Bag C=Can V=VOA O=Other

Rev. 03 - 5/7/09



Client: Republic Services  
 Attn: Mike Lambrich  
 Project Name: Bridgeton Landfill  
 Project No.: NA  
 Date Received: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

**ASTM D1946**

Lab No.:	J091004-01	J091004-02	J091004-03	J091004-04
Client Sample I.D.:	GEW 187	GEW 108	GEW 159	GIW 6
Date/Time Sampled:	9/4/18 14:17	9/4/18 14:28	9/5/18 8:15	9/5/18 8:26
Date/Time Analyzed:	9/13/18 11:16	9/13/18 11:30	9/13/18 11:45	9/13/18 11:59
QC Batch No.:	180913GC8A1	180913GC8A1	180913GC8A1	180913GC8A1
Analyst Initials:	AS	AS	AS	AS
Dilution Factor:	3.6	3.5	3.4	3.5

ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	15	3.6	5.0	3.5	3.3 d	0.034	11	3.5
Carbon Dioxide	44	0.036	38	0.035	39	0.034	41	0.035
Oxygen/Argon	6.0	1.8	4.0	1.7	ND	1.7	ND	1.7
Nitrogen	21	3.6	21	3.5	9.8	3.4	18	3.5
Methane	14	0.0036	32	0.0035	46	0.0034	28	0.0035
Carbon Monoxide	0.061	0.0036	0.013	0.0035	0.011	0.0034	0.015	0.0035

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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: 09/10/18  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946**

Lab No.:	J091004-05	J091004-06	J091004-07	J091004-08
Client Sample I.D.:	GIW 7	GIW 8	GEW 38	GIW 9
Date/Time Sampled:	9/5/18 8:37	9/5/18 8:47	9/5/18 8:56	9/5/18 9:54
Date/Time Analyzed:	9/13/18 12:14	9/13/18 12:28	9/13/18 12:43	9/13/18 12:57
QC Batch No.:	180913GC8A1	180913GC8A1	180913GC8A1	180913GC8A1
Analyst Initials:	AS	AS	AS	AS
Dilution Factor:	3.4	3.5	3.4	3.5

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	2.0 d	0.034	0.35 d	0.035	20	3.4	6.0	3.5
Carbon Dioxide	52	0.034	49	0.035	41	0.034	24	0.035
Oxygen/Argon	ND	1.7	ND	1.7	4.7	1.7	6.2	1.7
Nitrogen	3.9	3.4	5.0	3.5	16	3.4	53	3.5
Methane	40	0.0034	45	0.0035	18	0.0034	10	0.0035
Carbon Monoxide	0.022	0.0034	0.0061	0.0035	0.076	0.0034	0.014	0.0035

Results normalized including non-methane hydrocarbons  
ND = Not Detected (below RL)  
RL = Reporting Limit  
d = Reported from a secondary analysis. QC Batch: 180917GC8A1

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

Date 9/17/18

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J091004-09	J091004-10	J091004-11	J091004-12				
Client Sample I.D.:	GEW 109	GEW 39	GIW 11	GEW 56R				
Date/Time Sampled:	9/5/18 10:04	9/5/18 10:15	9/5/18 11:05	9/5/18 11:16				
Date/Time Analyzed:	9/13/18 13:13	9/13/18 13:27	9/13/18 13:42	9/13/18 13:57				
QC Batch No.:	180913GC8A1	180913GC8A1	180913GC8A1	180913GC8A1				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.5	3.6	3.6				
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	8.2	3.4	ND d	0.035	9.9	3.6	12	3.6
Carbon Dioxide	39	0.034	33	0.035	38	0.036	42	0.036
Oxygen/Argon	ND	1.7	3.1	1.7	ND	1.8	ND	1.8
Nitrogen	20	3.4	33	3.5	31	3.6	ND	3.6
Methane	32	0.0034	30	0.0035	20	0.0036	41	0.0036
Carbon Monoxide	0.023	0.0034	ND	0.0035	0.040	0.0036	0.025	0.0036

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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:** 09/10/18  
**Matrix:** Air  
**Reporting Units:** % v/v

ASTM D1946

Lab No.:	J091004-13	J091004-14	J091004-15	J091004-16				
Client Sample I.D.:	GIW 12	GEW 110	GIW 13	GEW 10				
Date/Time Sampled:	9/5/18 11:27	9/5/18 13:29	9/5/18 13:39	9/5/18 13:50				
Date/Time Analyzed:	9/13/18 14:11	9/13/18 14:26	9/13/18 14:40	9/13/18 16:59				
QC Batch No.:	180913GC8A1	180913GC8A1	180913GC8A1	180913GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.6	3.6	3.5	3.6				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	25	3.6	12	3.6	12	3.5	0.38 d	0.036
Carbon Dioxide	48	0.036	28	0.036	52	0.035	42	0.036
Oxygen/Argon	2.4	1.8	7.8	1.8	ND	1.7	ND	1.8
Nitrogen	14	3.6	34	3.6	ND	3.5	ND	3.6
Methane	10	0.0036	17	0.0036	31	0.0035	54	0.0036
Carbon Monoxide	0.12	0.0036	0.036	0.0036	0.040	0.0035	ND	0.0036

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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:** 09/10/18  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	J091004-17	J091004-18	J091004-19	J091004-20				
Client Sample I.D.:	GIW 10	GEW 160	GEW 161	GIW 5				
Date/Time Sampled:	9/5/18 14:26	9/6/18 8:15	9/6/18 8:24	9/6/18 8:36				
Date/Time Analyzed:	9/13/18 17:13	9/13/18 17:28	9/13/18 17:42	9/13/18 17:57				
QC Batch No.:	180913GC8A2	180913GC8A2	180913GC8A2	180913GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.6	3.4	3.4	3.4				
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	16	3.6	37	3.4	30	3.4	15	3.4
Carbon Dioxide	35	0.036	49	0.034	45	0.034	11	0.034
Oxygen/Argon	ND	1.8	ND	1.7	ND	1.7	16	1.7
Nitrogen	35	3.6	6.8	3.4	15	3.4	57	3.4
Methane	13	0.0036	5.7	0.0034	7.9	0.0034	0.49	0.0034
Carbon Monoxide	0.041	0.0036	0.17	0.0034	0.11	0.0034	0.013	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from a secondary analysis. QC Batch: 180917GC8A1

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

*[Signature]*  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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: 09/10/18  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946**

Lab No.:	J091004-21	J091004-22	J091004-23	J091004-24				
Client Sample I.D.:	GIW 4	GIW 3	GIW 2	GIW 1				
Date/Time Sampled:	9/6/18 8:48	9/6/18 8:58	9/6/18 9:08	9/6/18 10:09				
Date/Time Analyzed:	9/13/18 18:12	9/13/18 18:26	9/13/18 18:41	9/13/18 18:56				
QC Batch No.:	180913GC8A2	180913GC8A2	180913GC8A2	180913GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.4	3.4	3.4				
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	37	3.4	15	3.4	7.1	3.4	19	3.4
Carbon Dioxide	45	0.034	37	0.034	20	0.034	41	0.034
Oxygen/Argon	3.5	1.7	7.2	1.7	14	1.7	6.7	1.7
Nitrogen	12	3.4	32	3.4	57	3.4	26	3.4
Methane	1.8	0.0034	8.6	0.0034	2.9	0.0034	6.3	0.0034
Carbon Monoxide	0.16	0.0034	0.057	0.0034	0.045	0.0034	0.075	0.0034

Results normalized including non-methane hydrocarbons  
ND = Not Detected (below RL)  
RL = Reporting Limit

Reviewed/Approved By: *Mark Johnson* Date *9/17/18*  
Mark Johnson  
Operations Manager

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J091004-25	J091004-26	J091004-27	J091004-28				
Client Sample I.D.:	GEW 162	GEW 91	GEW 50	GEW 52				
Date/Time Sampled:	9/6/18 10:22	9/6/18 10:33	9/4/18 14:14	9/4/18 14:25				
Date/Time Analyzed:	9/13/18 19:10	9/13/18 19:25	9/13/18 19:39	9/13/18 19:54				
QC Batch No.:	180913GC8A2	180913GC8A2	180913GC8A2	180913GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.5	3.4	3.4	3.4				
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	3.2 d	0.035	40	3.4	0.057 d	0.034	ND d	0.034
Carbon Dioxide	19	0.035	46	0.034	38	0.034	39	0.034
Oxygen/Argon	16	1.7	2.0	1.7	ND	1.7	ND	1.7
Nitrogen	58	3.5	6.9	3.4	3.8	3.4	4.6	3.4
Methane	3.5	0.0035	2.7	0.0034	57	0.0034	56	0.0034
Carbon Monoxide	0.021	0.0035	0.046	0.0034	ND	0.0034	ND	0.0034

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 9/17/18

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J091004-29	J091004-30	J091004-31	J091004-32				
Client Sample I.D.:	GEW 7	GEW 8	GEW 51	GEW 53				
Date/Time Sampled:	9/4/18 14:39	9/4/18 14:50	9/5/18 9:03	9/5/18 9:15				
Date/Time Analyzed:	9/13/18 20:08	9/13/18 20:23	9/13/18 20:38	9/13/18 20:52				
QC Batch No.:	180913GC8A2	180913GC8A2	180913GC8A2	180913GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.5	3.4	3.4	3.4				
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	0.035	1.3 d	0.034	0.83 d	0.034	4.8	3.4
Carbon Dioxide	38	0.035	43	0.034	40	0.034	40	0.034
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.7	ND	1.7
Nitrogen	4.3	3.5	ND	3.4	ND	3.4	ND	3.4
Methane	56	0.0035	53	0.0034	56	0.0034	52	0.0034
Carbon Monoxide	ND	0.0035	ND	0.0034	ND	0.0034	0.0062	0.0034

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date: 9/17/18

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J091004-33	J091004-34	J091004-35	J091004-36				
Client Sample I.D.:	GEW 54	GEW 55	GEW 40	GEW 9				
Date/Time Sampled:	9/5/18 9:28	9/5/18 9:48	9/5/18 9:59	9/6/18 8:27				
Date/Time Analyzed:	9/13/18 21:07	9/13/18 21:21	9/13/18 21:36	9/13/18 23:48				
QC Batch No.:	180913GC8A2	180913GC8A2	180913GC8A2	180913GC8A3				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.5	3.6	3.4				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	1.9 d	0.034	2.2 d	0.035	ND d	0.036	0.56 d	0.034
Carbon Dioxide	41	0.034	40	0.035	36	0.036	40	0.034
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.8	ND	1.7
Nitrogen	ND	3.4	3.7	3.5	6.1	3.6	5.4	3.4
Methane	54	0.0034	52	0.0035	57	0.0036	53	0.0034
Carbon Monoxide	ND	0.0034	ND	0.0035	ND	0.0036	ND	0.0034

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J091004-37	J091004-38	J091004-39	J091004-40				
Client Sample I.D.:	GEW 41R	GEW 42R	GEW 43R	GEW 44				
Date/Time Sampled:	9/6/18 8:42	9/6/18 8:52	9/6/18 9:05	9/6/18 9:16				
Date/Time Analyzed:	9/14/18 0:02	9/14/18 0:17	9/14/18 0:32	9/14/18 8:47				
QC Batch No.:	180913GC8A3	180913GC8A3	180913GC8A3	180913GC8A3				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.4	3.5	3.5				
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	0.034	ND d	0.034	0.20 d	0.035	ND d	0.035
Carbon Dioxide	37	0.034	39	0.034	41	0.035	39	0.035
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.7	ND	1.7
Nitrogen	4.5	3.4	ND	3.4	ND	3.5	4.3	3.5
Methane	58	0.0034	58	0.0034	56	0.0035	56	0.0035
Carbon Monoxide	ND	0.0034	ND	0.0034	ND	0.0035	ND	0.0035

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A1, 180917GC8A2

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946									
Lab No.:	J091004-41		J091004-42		J091004-43		J091004-44		
Client Sample I.D.:	GEW 49		GEW 45R		GEW 46R		GEW 2S		
Date/Time Sampled:	9/6/18 9:26		9/6/18 10:19		9/6/18 10:29		9/6/18 10:41		
Date/Time Analyzed:	9/14/18 9:02		9/14/18 9:53		9/14/18 10:07		9/14/18 10:22		
QC Batch No.:	180913GC8A3		180913GC8A3		180913GC8A3		180913GC8A3		
Analyst Initials:	AS		AS		AS		AS		
Dilution Factor:	3.6		3.6		3.6		3.4		
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	0.036	ND d	0.036	ND d	0.036	ND d	0.034	
Carbon Dioxide	39	0.036	39	0.036	37	0.036	31	0.034	
Oxygen/Argon	ND	1.8	ND	1.8	ND	1.8	2.4	1.7	
Nitrogen	ND	3.6	4.5	3.6	ND	3.6	9.0	3.4	
Methane	56	0.0036	55	0.0036	59	0.0036	58	0.0034	
Carbon Monoxide	ND	0.0036	ND	0.0036	ND	0.0036	ND	0.0034	

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A2

Reviewed/Approved By: Mark Johnson  
 Mark Johnson  
 Operations Manager

Date 9/17/18

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:** 09/10/18  
**Matrix:** Air  
**Reporting Units:** % v/v

**ASTM D1946**

Lab No.:	J091004-45	J091004-46	J091004-47	J091004-48				
Client Sample I.D.:	GEW 2	GEW 3	GEW 4	GEW 47R				
Date/Time Sampled:	9/6/18 10:57	9/6/18 11:08	9/6/18 11:29	9/6/18 11:45				
Date/Time Analyzed:	9/14/18 10:36	9/14/18 10:51	9/14/18 11:06	9/14/18 11:20				
QC Batch No.:	180913GC8A3	180913GC8A3	180913GC8A3	180913GC8A3				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.4	3.4	3.5				
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	0.034	ND d	0.034	0.035 d	0.034	ND d	0.035
Carbon Dioxide	39	0.034	36	0.034	39	0.034	39	0.035
Oxygen/Argon	ND	1.7	2.2	1.7	ND	1.7	ND	1.7
Nitrogen	ND	3.4	15	3.4	4.0	3.4	6.6	3.5
Methane	57	0.0034	48	0.0034	57	0.0034	54	0.0035
Carbon Monoxide	ND	0.0034	ND	0.0034	ND	0.0034	ND	0.0035

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A2

Reviewed/Approved By:   
 Mark Johnson  
 Operations Manager

Date 9/17/18

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: 09/10/18  
 Matrix: Air  
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J091004-49	J091004-50	J091004-51					
Client Sample I.D.:	GEW 5	GEW 48	GEW 6					
Date/Time Sampled:	9/7/18 8:06	9/7/18 8:19	9/7/18 8:32					
Date/Time Analyzed:	9/14/18 11:35	9/14/18 11:49	9/14/18 12:04					
QC Batch No.:	180913GC8A3	180913GC8A3	180913GC8A3					
Analyst Initials:	AS	AS	AS					
Dilution Factor:	3.4	3.4	3.4					
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v		
Hydrogen	ND d	0.034	ND d	0.034	ND d	0.034		
Carbon Dioxide	34	0.034	38	0.034	37	0.034		
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.7		
Nitrogen	10	3.4	ND	3.4	4.4	3.4		
Methane	54	0.0034	58	0.0034	58	0.0034		
Carbon Monoxide	ND	0.0034	ND	0.0034	ND	0.0034		

Results normalized including non-methane hydrocarbons  
 ND = Not Detected (below RL)  
 RL = Reporting Limit  
 d = Reported from a secondary analysis. QC Batch: 180917GC8A2

Reviewed/Approved By: Mark Johnson f Date 9/17/18  
 Mark Johnson  
 Operations Manager

The cover letter is an integral part of this analytical report

QC Batch No: 180913GC8A1  
Matrix: Air  
Reporting Units: % v/v

ASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY

Lab No.:	METHOD BLANK			LCS		LCS D			Limits		
Date Analyzed:	9/13/18 11:00			9/13/18 10:17		9/13/18 10:31					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	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	5.44	109	5.25	105	3.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.22	92	8.91	89	3.4	70	130	30
Oxygen/Argon	ND	0.50	15	16.2	109	15.6	105	3.4	70	130	30
Nitrogen	ND	1.0	70	72.0	103	69.7	100	3.3	70	130	30
Methane	ND	0.0010	0.10	0.115	115	0.114	114	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.111	111	0.111	111	0.3	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

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

Date 9/17/18

The cover letter is an integral part of this analytical report



QC Batch No: 180913GC8A2  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	9/13/18 16:44			9/13/18 15:38		9/13/18 15:53					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0					
ANALYTE	Result	RL	SPIKE	Result		Result		RPD	Limits		
	% v/v	% v/v	AMT. % v/v	% v/v	% Rec.	% v/v	% Rec.	%	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.32	106	5.37	107	0.9	70	130	30
Carbon Dioxide	ND	0.010	10	9.18	92	9.16	91	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	16.1	109	16.0	108	0.3	70	130	30
Nitrogen	ND	1.0	70	71.8	103	71.6	102	0.3	70	130	30
Methane	ND	0.0010	0.10	0.114	114	0.114	114	0.3	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.111	111	0.110	110	0.7	70	130	30

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

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

Date                     9/17/18                    

The cover letter is an integral part of this analytical report

QC Batch No: 180913GC8A3  
Matrix: Air  
Reporting Units: % v/v

**ASTM D1946  
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK	LCS				LCSD		Limits			
Date Analyzed:	9/13/18 23:33	9/13/18 22:35				9/13/18 22:49					
Analyst Initials:	AS	AS				AS					
Dilution Factor:	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	5.24	105	5.21	104	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.11	91	9.11	91	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.8	107	15.8	107	0.1	70	130	30
Nitrogen	ND	1.0	70	70.7	101	70.7	101	0.0	70	130	30
Methane	ND	0.0010	0.10	0.110	110	0.110	110	0.0	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.107	107	0.107	107	0.3	70	130	30

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

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

Date 9/17/18

The cover letter is an integral part of this analytical report





QC Batch # 180917GC8A1  
Matrix: Air  
Units: % v/v

QC for Low Level Hydrogen Analysis

Lab No.:	Blank	LCS	LCSD					
Date Analyzed:	9/17/2018 9:02	9/17/2018 8:48	9/17/2018 8:53					
Analyst Initials:	AS	AS	AS					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	%Rec	Criteria	%Rec	Criteria	RPD	Criteria
Hydrogen	ND	0.010	102	70-130	102	70-130	0.5	<20

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:

  
Mark Johnson  
Operations Manager

Date: 9/17/18

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



QC Batch # 180917GC8A2  
Matrix: Air  
Units: % v/v

QC for Low Level Hydrogen Analysis

Lab No.:	Blank	LCS	LCSD					
Date Analyzed:	9/17/2018 10:48	9/17/2018 10:34	9/17/2018 10:39					
Analyst Initials:	AS	AS	AS					
Dilution Factor:	1.0	1.0	1.0					
ANALYTE	Results	RL	%Rec	Criteria	%Rec	Criteria	RPD	Criteria
Hydrogen	ND	0.010	102	70-130	96	70-130	6.0	<20

ND = Not Detected (Below RL)

RL = PQL X Dilution Factor

Reviewed/Approved By:

  
Mark Johnson  
Operations Manager

Date:

9/17/18

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



---

**ATTACHMENT D**

**GAS WELLFIELD DATA**

---

---

**ATTACHMENT D-1**

**WELLFIELD DATA TABLE**

---

September 2018 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	9/6/2018 10:54	55.8	39.6	0.0	4.6	116.3	116.3	24.1	24.1	-0.51	-0.51	-13.8
GEW-002	9/6/2018 11:00	55.8	40.1	0.0	4.1	116.3	116.3	22.0	21.2	-0.5	-0.5	-12.8
GEW-002	9/12/2018 8:41	56.5	40.7	0.0	2.8	116.0	116.0	20.3	20.3	-0.5	-0.5	-13.7
GEW-002	9/19/2018 8:12	57.2	39.8	0.0	3.0	115.5	115.5	19.0	22.8	-0.6	-0.6	-13.8
GEW-002	9/24/2018 9:02	56.4	41.5	0.0	2.1	115.5	115.4	19.7	19.6	-0.9	-0.9	-13.4
GEW-2S	9/6/2018 10:37	59.3	35.4	0.2	5.1	96.5	96.7	13.0	9.9	-12.1	-12.2	-12.4
GEW-2S	9/6/2018 10:43	60.5	32.8	0.3	6.4	96.9	96.9	13.8	18.0	-12.2	-12.3	-12.5
GEW-2S	9/12/2018 8:38	60.8	36.7	0.1	2.4	83.0	83.2	12.9	14.3	-11.5	-11.4	-13.2
GEW-2S	9/19/2018 8:09	60.1	38.1	0.0	1.8	78.2	78.2	13.1	10.6	-9.2	-8.9	-12.7
GEW-2S	9/27/2018 9:45	62.0	35.8	0.5	1.7	73.9	73.9	12.7	16.9	-10.5	-10.6	-12.7
GEW-003	9/6/2018 11:04	49.2	39.1	0.0	11.7	114.0	113.8	8.0	8.6	-0.1	-0.1	-12.2
GEW-003	9/6/2018 11:11	49.7	38.8	0.0	11.5	113.2	113.0	9.4	9.7	-0.1	-0.1	-12.4
GEW-003	9/12/2018 8:44	51.0	40.0	0.0	9.0	114.3	114.3	7.1	7.6	-0.1	-0.1	-12.8
GEW-003	9/12/2018 8:46	50.9	40.0	0.0	9.1	113.7	113.7	11.6	11.6	-0.1	-0.1	-12.7
GEW-003	9/19/2018 8:14	53.3	40.8	0.0	5.9	112.1	112.0	6.0	6.6	-0.1	-0.1	-12.8
GEW-003	9/24/2018 8:56	54.9	42.3	0.0	2.8	111.2	111.2	8.1	8.1	0.1	0.1	-12.7
GEW-003	9/24/2018 8:58	54.5	43.0	0.0	2.5	116.0	116.0	9.7	13.1	-0.1	-0.1	-13.1
GEW-004	9/6/2018 11:25	54.5	40.0	0.0	5.5	115.3	115.0	27.0	25.7	-0.2	-0.2	-12.5
GEW-004	9/6/2018 11:33	54.8	39.6	0.0	5.6	115.0	115.1	5.0	5.2	-0.1	-0.1	-12.7
GEW-004	9/12/2018 8:49	55.6	39.8	0.0	4.6	114.0	114.0	10.4	12.1	-0.2	-0.2	-12.6
GEW-004	9/19/2018 8:18	55.7	41.1	0.0	3.2	113.8	113.7	7.1	7.6	-0.2	-0.2	-13.1
GEW-004	9/24/2018 8:53	56.8	40.3	0.0	2.9	111.3	111.3	16.4	16.8	-0.1	-0.1	-13.0
GEW-005	9/7/2018 8:03	53.7	38.7	0.0	7.6	89.3	89.2	27.1	27.1	-0.1	-0.1	-13.7
GEW-005	9/7/2018 8:12	54.4	36.9	0.0	8.7	89.1	89.2	10.3	9.6	-0.1	-0.1	-13.7
GEW-005	9/12/2018 9:19	53.9	35.6	0.0	10.5	91.5	91.5	24.8	24.1	-0.1	-0.1	-13.5
GEW-005	9/12/2018 9:20	53.6	36.3	0.0	10.1	91.7	91.7	3.9	6.2	-0.1	-0.1	-13.7
GEW-005	9/19/2018 8:27	55.3	38.2	0.0	6.5	89.8	89.8	26.4	26.7	-0.1	-0.1	-13.2
GEW-005	9/24/2018 8:47	57.3	38.4	0.0	4.3	87.0	87.2	0.0	0.0	0.0	0.01	-13.1
GEW-005	9/24/2018 8:49	57.6	38.3	0.0	4.1	88.4	88.4	15.3	16.9	-0.1	-0.04	-13.6
GEW-006	9/7/2018 8:28	57.2	38.1	0.0	4.7	89.3	89.3	13.5	11.7	-0.1	-0.1	-13.5
GEW-006	9/7/2018 8:34	57.5	37.9	0.0	4.6	89.4	89.4	14.8	14.3	-0.2	-0.2	-13.5
GEW-006	9/12/2018 9:27	55.6	37.5	0.0	6.9	88.1	88.2	15.7	14.2	-0.3	-0.3	-13.2
GEW-006	9/12/2018 9:29	56.1	37.5	0.0	6.4	88.2	88.2	12.6	16.1	-0.3	-0.3	-13.7
GEW-006	9/19/2018 8:33	56.3	38.9	0.0	4.8	89.1	89.1	12.3	13.5	-0.3	-0.3	-13.2
GEW-006	9/24/2018 8:40	59.0	38.3	0.0	2.7	88.9	88.9	21.9	21.8	-0.1	-0.1	-13.4
GEW-007	9/4/2018 14:36	57.8	39.7	0.0	2.5	97.5	97.5	11.6	11.3	-0.3	-0.3	-13.3
GEW-007	9/4/2018 14:42	58.0	39.5	0.0	2.5	97.5	97.5	11.6	10.2	-0.3	-0.3	-13.2
GEW-007	9/10/2018 13:33	58.4	39.6	0.0	2.0	96.2	96.2	14.0	14.7	-0.7	-0.7	-13.2
GEW-007	9/17/2018 13:30	56.7	39.6	0.0	3.7	100.1	100.3	8.2	10.2	-0.4	-0.4	-13.3
GEW-007	9/24/2018 10:21	57.8	41.1	0.0	1.1	93.1	93.0	7.2	8.6	-0.2	-0.2	-13.2
GEW-008	9/4/2018 14:46	52.5	42.5	0.0	5.0	115.3	115.3	23.8	24.1	-0.4	-0.4	-13.8
GEW-008	9/4/2018 14:52	52.5	42.9	0.0	4.6	115.3	115.3	15.9	16.2	-0.4	-0.4	-13.8

September 2018 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-008	9/10/2018 13:36	52.7	42.4	0.0	4.9	115.0	114.8	39.2	39.6	-0.6	-0.6	-13.5
GEW-008	9/17/2018 13:33	52.0	42.6	0.0	5.4	116.3	116.3	14.0	12.6	-0.5	-0.5	-13.5
GEW-008	9/24/2018 10:17	53.5	43.2	0.0	3.3	113.6	113.7	14.4	13.4	-0.6	-0.6	-13.6
GEW-009	9/6/2018 8:24	53.1	41.5	0.0	5.4	123.7	123.7	26.1	26.1	-0.2	-0.2	-13.5
GEW-009	9/6/2018 8:30	53.4	40.9	0.0	5.7	123.4	123.4	27.4	27.8	-0.2	-0.2	-13.7
GEW-009	9/10/2018 13:40	53.1	41.6	0.0	5.3	125.3	125.3	28.1	28.0	-0.1	-0.1	-13.5
GEW-009	9/17/2018 13:37	52.5	42.1	0.0	5.4	126.4	126.4	9.3	9.6	-0.03	-0.03	-13.5
GEW-009	9/24/2018 10:14	54.2	41.9	0.0	3.9	124.2	124.5	18.0	17.8	-0.1	-0.1	-13.6
GEW-010	9/5/2018 13:47	53.8	42.5	0.1	3.6	102.9	102.8	3.7	3.7	-0.6	-0.6	-19.9
GEW-010	9/5/2018 13:55	53.0	43.4	0.1	3.5	104.3	104.4	4.2	4.3	-0.8	-0.8	-19.9
GEW-010	9/10/2018 10:52	54.3	41.9	0.0	3.8	85.6	85.6	4.7	4.5	-0.8	-0.8	-19.4
GEW-010	9/19/2018 9:19	54.6	41.6	0.0	3.8	90.3	90.3	4.0	4.0	-0.6	-0.6	-19.0
GEW-010	9/24/2018 13:19	53.0	44.1	0.0	2.9	97.2	97.2	3.5	2.9	-0.7	-0.7	-20.1
GEW-013A	9/7/2018 9:20	9.7	61.5	0.4	28.4	190.2	190.2	11.7	4.1	-8.4	-9.1	-19.3
GEW-013A	9/7/2018 9:22	9.2	62.7	0.4	27.7	190.2	190.2	5.6	5.4	-8.3	-8.8	-19.1
GEW-013A	9/19/2018 11:20	14.6	60.5	0.3	24.6	190.7	190.9	13.8	9.8	-9.9	-9.3	-18.2
GEW-013A	9/19/2018 11:22	16.4	61.4	0.5	21.7	190.2	190.9	10.9	12.0	-9.3	-8.9	-18.0
GEW-015	9/7/2018 10:09	0.5	51.2	0.1	48.2	87.5	87.5	4.3	4.3	-0.3	-0.3	-19.3
GEW-016R	9/7/2018 10:17	9.2	48.3	0.3	42.2	176.9	176.9	NFD		-18.7	-18.6	-18.8
GEW-016R	9/7/2018 10:19	9.4	48.4	0.2	42.0	176.9	176.9	NFD		-18.6	-18.6	-18.8
GEW-016R	9/19/2018 13:18	9.3	48.8	0.2	41.7	177.5	177.5	NFD		-18.6	-18.6	-18.3
GEW-016R	9/19/2018 13:20	9.2	49.4	0.1	41.3	177.5	177.5	NFD		-18.6	-18.6	-18.5
GEW-018B	9/7/2018 13:56	2.2	26.7	10.2	60.9	165.7	165.7	5.9	4.4	-1.8	-1.8	-18.9
GEW-018B	9/7/2018 13:58	2.5	27.7	10.1	59.7	166.1	166.1	4.3	4.6	-1.8	-1.8	-18.9
GEW-018B	9/19/2018 14:27	3.2	31.5	9.6	55.7	170.2	170.4	5.4	5.0	-1.8	-1.8	-20.1
GEW-018B	9/19/2018 14:28	2.2	28.0	9.9	59.9	170.0	170.0	5.5	5.0	-1.8	-1.8	-20.0
GEW-022R	9/12/2018 13:54	0.4	6.9	19.0	73.7	100.1	100.1	1.5	3.6	-19.1	-19.1	-19.4
GEW-022R	9/12/2018 13:56	0.3	4.7	19.0	76.0	99.9	99.9	1.1	3.2	-18.7	-18.7	-19.2
GEW-022R	9/21/2018 10:37	0.6	11.4	16.1	71.9	84.9	84.9	5.1	2.7	-19.1	-19.1	-19.2
GEW-022R	9/21/2018 10:38	1.3	23.5	13.5	61.7	84.9	84.9	6.5	4.3	-19.1	-19.1	-19.2
GEW-038	9/5/2018 8:52	19.6	44.2	4.1	32.1	93.9	93.9	4.0	3.6	-0.4	-0.4	-15.5
GEW-038	9/5/2018 8:59	19.1	44.3	4.3	32.3	92.4	92.4	3.8	3.8	-0.4	-0.4	-16.8
GEW-038	9/10/2018 11:38	19.3	43.8	3.6	33.3	96.0	96.2	3.0	3.6	-0.3	-0.3	-16.2
GEW-038	9/19/2018 9:59	24.6	42.8	3.9	28.7	98.2	98.2	2.0	2.0	-0.4	-0.4	-15.9
GEW-038	9/24/2018 11:33	28.1	46.5	1.4	24.0	93.9	94.1	3.0	2.6	-0.2	-0.2	-17.0
GEW-039	9/5/2018 10:12	31.4	35.3	2.3	31.0	117.6	117.6	17.7	17.2	-0.8	-0.9	-17.8
GEW-039	9/5/2018 10:18	31.9	34.3	2.2	31.6	117.6	117.6	17.7	17.9	-0.9	-0.8	-17.6
GEW-039	9/10/2018 11:46	29.5	37.5	0.8	32.2	116.3	116.5	16.6	14.3	-0.8	-0.8	-17.7
GEW-039	9/19/2018 10:09	30.2	38.1	0.4	31.3	117.9	117.9	16.5	20.9	-0.9	-0.9	-20.1
GEW-039	9/24/2018 11:21	35.9	38.0	0.3	25.8	115.7	115.5	19.7	16.3	-0.9	-0.9	-19.0
GEW-040	9/5/2018 9:55	55.9	39.1	0.0	5.0	94.2	94.2	5.4	5.2	-0.5	-0.5	-12.4
GEW-040	9/5/2018 10:01	57.1	36.6	0.0	6.3	94.6	94.6	7.8	5.5	-0.6	-0.6	-12.6

September 2018 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-040	9/10/2018 14:08	56.9	39.4	0.0	3.7	91.7	91.8	10.3	10.6	-0.5	-0.5	-12.7
GEW-040	9/17/2018 14:04	56.3	39.5	0.0	4.2	104.5	104.7	7.7	7.7	-0.5	-0.5	-12.7
GEW-040	9/24/2018 9:20	58.7	37.7	0.0	3.6	74.0	74.0	8.8	7.4	-0.5	-0.6	-12.7
GEW-041R	9/6/2018 8:38	57.3	37.5	0.0	5.2	100.4	100.4	10.9	10.2	-0.2	-0.2	-12.7
GEW-041R	9/6/2018 8:45	58.1	36.6	0.0	5.3	100.4	100.4	9.8	10.9	-0.2	-0.2	-12.7
GEW-041R	9/10/2018 14:11	57.5	38.0	0.0	4.5	100.8	100.8	5.5	6.7	-0.1	-0.1	-12.8
GEW-041R	9/17/2018 14:07	57.2	37.9	0.0	4.9	103.4	103.3	11.6	10.2	-0.1	-0.1	-12.9
GEW-041R	9/24/2018 9:24	59.9	37.8	0.0	2.3	97.2	97.2	10.2	9.8	-0.1	-0.1	-12.8
GEW-042R	9/6/2018 8:49	57.4	40.0	0.0	2.6	108.7	108.7	7.7	7.7	-1.0	-1.0	-12.9
GEW-042R	9/6/2018 8:56	56.6	39.9	0.0	3.5	109.2	109.0	7.2	9.0	-1.0	-1.0	-12.8
GEW-042R	9/10/2018 14:14	56.9	39.7	0.0	3.4	109.0	109.0	11.8	11.8	-0.9	-0.9	-12.9
GEW-042R	9/17/2018 14:11	56.3	40.7	0.0	3.0	110.7	110.7	9.0	9.7	-0.8	-0.8	-13.1
GEW-042R	9/24/2018 9:27	58.7	40.2	0.0	1.1	104.5	104.3	10.1	8.5	-0.9	-0.9	-12.3
GEW-043R	9/6/2018 9:02	55.2	41.0	0.0	3.8	123.9	123.9	12.5	13.1	-0.6	-0.6	-12.9
GEW-043R	9/6/2018 9:08	54.6	40.9	0.0	4.5	124.2	124.2	16.0	17.3	-0.6	-0.6	-12.7
GEW-043R	9/10/2018 14:17	55.2	40.8	0.0	4.0	124.0	124.1	12.5	12.0	-0.3	-0.4	-12.9
GEW-043R	9/17/2018 14:14	54.0	41.8	0.0	4.2	124.7	124.7	11.7	15.4	-0.2	-0.2	-13.3
GEW-043R	9/24/2018 9:30	56.7	41.4	0.0	1.9	123.7	123.7	12.8	14.3	-0.4	-0.4	-12.9
GEW-044	9/6/2018 9:13	54.9	39.6	0.0	5.5	103.5	103.3	7.7	7.7	-0.6	-0.6	-12.4
GEW-044	9/6/2018 9:19	55.3	38.6	0.0	6.1	103.3	103.3	10.5	9.8	-0.6	-0.6	-12.9
GEW-044	9/10/2018 14:21	55.7	40.2	0.0	4.1	101.8	101.7	10.6	10.6	-0.3	-0.3	-10.3
GEW-044	9/17/2018 14:17	55.1	40.9	0.0	4.0	104.3	104.1	9.4	9.4	-0.3	-0.3	-12.9
GEW-044	9/24/2018 9:34	57.5	40.4	0.0	2.1	94.5	94.1	7.2	6.7	-0.4	-0.4	-12.6
GEW-045R	9/6/2018 10:16	57.1	38.9	0.0	4.0	99.7	99.8	11.2	11.9	-1.1	-1.1	-12.9
GEW-045R	9/6/2018 10:22	56.4	39.7	0.0	3.9	101.3	101.3	10.9	10.2	-1.1	-1.1	-12.6
GEW-045R	9/12/2018 8:31	57.5	41.0	0.0	1.5	95.1	95.0	11.6	11.6	-0.9	-0.9	-12.8
GEW-045R	9/19/2018 7:59	58.0	40.3	0.0	1.7	94.1	93.9	9.9	9.9	-1.0	-1.0	-12.7
GEW-045R	9/24/2018 9:38	57.7	41.0	0.0	1.3	91.5	91.5	8.2	6.7	-0.7	-0.7	-12.7
GEW-046R	9/6/2018 10:25	55.7	39.5	0.0	4.8	101.1	101.1	7.2	9.0	-0.2	-0.2	-12.6
GEW-046R	9/6/2018 10:32	56.0	38.9	0.0	5.1	101.1	101.1	11.2	11.2	-0.2	-0.2	-12.5
GEW-046R	9/12/2018 8:34	57.3	39.7	0.0	3.0	98.4	98.2	11.3	10.2	-0.2	-0.2	-13.2
GEW-046R	9/19/2018 8:02	57.2	39.9	0.0	2.9	97.6	97.8	9.9	9.9	-0.2	-0.2	-12.7
GEW-046R	9/24/2018 9:41	57.7	40.2	0.0	2.1	95.8	95.9	30.6	30.1	-0.2	-0.2	-12.6
GEW-047R	9/6/2018 11:41	51.7	40.2	0.0	8.1	111.2	111.2	9.8	8.6	-0.1	-0.1	-12.6
GEW-047R	9/6/2018 11:47	52.1	39.2	0.0	8.7	111.4	111.3	7.7	10.8	-0.04	-0.1	-12.7
GEW-047R	9/12/2018 8:55	53.6	39.1	0.0	7.3	108.5	108.5	25.4	26.3	-0.2	-0.2	-12.8
GEW-047R	9/12/2018 8:57	53.6	39.7	0.0	6.7	108.8	108.8	8.1	7.7	-0.2	-0.2	-13.0
GEW-047R	9/19/2018 8:23	54.0	40.5	0.0	5.5	108.5	108.5	9.8	8.1	-0.2	-0.1	-12.7
GEW-047R	9/24/2018 9:47	55.3	41.2	0.0	3.5	107.8	108.0	18.3	18.1	-0.1	-0.1	-12.7
GEW-048	9/7/2018 8:15	57.8	39.5	0.0	2.7	100.6	100.6	11.3	9.5	-0.2	-0.2	-14.0
GEW-048	9/7/2018 8:22	57.4	39.7	0.0	2.9	100.6	100.5	24.3	24.3	-0.1	-0.1	-14.0
GEW-048	9/12/2018 9:23	57.2	38.6	0.0	4.2	102.1	102.0	9.1	9.1	-0.3	-0.3	-13.0

September 2018 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	9/19/2018 8:29	57.8	38.7	0.0	3.5	101.6	101.6	30.0	31.4	-0.3	-0.3	-13.3
GEW-048	9/24/2018 8:44	58.5	39.3	0.0	2.2	100.3	100.3	14.9	11.8	-0.1	-0.1	-13.1
GEW-049	9/6/2018 9:22	55.0	39.0	0.0	6.0	107.7	107.7	12.1	10.8	-0.3	-0.3	-13.0
GEW-049	9/6/2018 9:29	55.2	39.3	0.0	5.5	108.0	108.0	5.4	5.9	-0.3	-0.3	-12.8
GEW-049	9/17/2018 14:20	55.1	40.9	0.0	4.0	109.5	109.4	10.8	9.8	0.1	0.1	-13.1
GEW-049	9/17/2018 14:22	55.0	41.2	0.0	3.8	109.7	109.7	28.4	28.5	0.1	0.1	-13.3
GEW-049	9/18/2018 15:26	57.5	40.4	0.0	2.1	110.2	110.2	29.1	27.0	-0.02	-0.02	-13.0
GEW-049	9/18/2018 15:28	56.3	40.3	0.0	3.4	110.2	110.2	9.8	9.8	-0.02	-0.02	-13.2
GEW-049	9/24/2018 9:51	57.1	40.6	0.0	2.3	104.2	104.3	26.2	26.0	-0.1	-0.1	-13.1
GEW-050	9/4/2018 14:11	57.2	38.7	0.0	4.1	107.4	107.4	26.0	15.6	-0.2	-0.2	-10.6
GEW-050	9/4/2018 14:18	57.5	38.4	0.0	4.1	107.2	107.2	13.3	14.5	-0.2	-0.2	-10.4
GEW-050	9/10/2018 10:23	58.3	37.8	0.0	3.9	105.9	106.0	18.2	13.8	-0.5	-0.5	-9.8
GEW-050	9/17/2018 13:24	57.7	38.5	0.0	3.8	108.7	108.7	17.1	14.1	-0.2	-0.2	-8.6
GEW-050	9/24/2018 10:28	58.0	39.5	0.0	2.5	105.7	105.7	16.2	18.1	-0.4	-0.3	-11.8
GEW-051	9/5/2018 8:58	55.3	40.3	0.0	4.4	124.3	124.2	10.0	11.3	-0.8	-0.8	-13.3
GEW-051	9/5/2018 9:05	55.3	40.2	0.0	4.5	124.2	124.2	14.6	13.3	-0.8	-0.8	-13.2
GEW-051	9/10/2018 13:45	55.5	40.4	0.0	4.1	123.9	123.9	15.6	19.1	-0.6	-0.6	-13.5
GEW-051	9/17/2018 13:41	54.3	41.1	0.0	4.6	125.3	125.3	14.1	14.3	-0.4	-0.4	-13.0
GEW-051	9/24/2018 9:54	56.3	40.9	0.0	2.8	123.0	123.1	15.3	12.2	-0.6	-0.7	-12.9
GEW-052	9/4/2018 14:22	56.0	38.7	0.0	5.3	114.4	114.4	25.7	27.1	0.04	0.04	-14.1
GEW-052	9/4/2018 14:29	55.8	38.6	0.0	5.6	114.3	114.3	10.5	13.2	0.02	0.01	-13.7
GEW-052	9/5/2018 8:52	55.0	38.8	0.0	6.2	113.3	113.4	26.4	26.0	-0.2	-0.2	-13.7
GEW-052	9/5/2018 8:53	55.0	39.2	0.0	5.8	113.5	113.4	24.9	24.3	-0.2	-0.2	-13.3
GEW-052	9/10/2018 10:27	55.0	38.5	0.0	6.5	112.2	112.2	39.6	40.2	-0.2	-0.2	-13.2
GEW-052	9/10/2018 10:30	55.3	38.4	0.0	6.3	112.1	111.7	11.8	10.8	-0.2	-0.2	-9.7
GEW-052	9/17/2018 13:27	54.9	39.2	0.0	5.9	115.8	115.8	26.5	25.6	-0.02	-0.02	-13.2
GEW-052	9/24/2018 10:25	55.7	40.0	0.0	4.3	112.8	112.9	19.2	18.2	-0.1	-0.1	-13.4
GEW-053	9/5/2018 9:12	51.2	40.7	0.0	8.1	142.9	142.9	12.0	13.4	-0.6	-0.6	-12.6
GEW-053	9/5/2018 9:19	51.3	40.6	0.0	8.1	143.2	143.2	8.7	7.0	-0.6	-0.6	-12.8
GEW-053	9/10/2018 13:51	50.7	42.0	0.0	7.3	142.9	143.2	13.9	12.3	-0.2	-0.2	-13.2
GEW-053	9/10/2018 13:52	50.5	42.4	0.0	7.1	143.2	142.9	13.9	8.7	-0.2	-0.2	-12.9
GEW-053	9/17/2018 13:48	50.0	42.0	0.0	8.0	141.5	141.5	15.6	10.5	-0.1	-0.1	-12.9
GEW-053	9/17/2018 13:49	50.0	42.5	0.0	7.5	141.2	141.2	12.6	12.4	-0.1	-0.1	-12.9
GEW-053	9/24/2018 10:00	52.4	41.7	0.0	5.9	142.9	142.5	14.8	5.2	-0.3	-0.3	-13.1
GEW-053	9/24/2018 10:02	51.9	42.5	0.0	5.6	143.0	142.9	13.8	12.3	-0.3	-0.3	-13.1
GEW-054	9/5/2018 9:24	52.5	41.3	0.0	6.2	142.4	142.2	36.5	36.6	-4.2	-4.2	-13.3
GEW-054	9/5/2018 9:31	52.7	41.0	0.0	6.3	142.2	142.2	35.3	33.5	-4.0	-4.0	-13.4
GEW-054	9/10/2018 13:55	52.6	42.2	0.0	5.2	142.5	142.5	36.5	40.7	-3.8	-3.8	-13.4
GEW-054	9/10/2018 13:56	52.9	42.0	0.0	5.1	142.5	142.5	40.8	40.8	-3.8	-3.8	-13.7
GEW-054	9/17/2018 13:52	51.8	42.4	0.0	5.8	142.7	142.6	37.7	35.2	-3.6	-3.7	-13.6
GEW-054	9/17/2018 13:54	51.9	42.1	0.0	6.0	142.6	142.5	41.2	41.5	-3.5	-3.5	-13.6
GEW-054	9/24/2018 10:05	53.8	41.8	0.0	4.4	142.5	142.5	39.6	34.3	-3.7	-3.7	-13.7



September 2018 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	9/24/2018 10:07	53.7	42.3	0.0	4.0	142.5	142.5	53.4	44.1	-3.8	-3.8	-13.3
GEW-055	9/5/2018 9:44	52.4	41.4	0.0	6.2	133.2	133.2	7.4	5.3	-0.5	-0.5	-12.7
GEW-055	9/5/2018 9:51	52.2	41.5	0.0	6.3	132.6	132.6	6.2	2.4	-0.4	-0.4	-12.7
GEW-055	9/10/2018 14:04	51.7	41.7	0.0	6.6	130.9	130.6	4.7	4.5	-0.1	-0.1	-12.8
GEW-055	9/10/2018 14:05	51.3	42.6	0.0	6.1	130.3	130.6	5.4	7.1	-0.1	-0.1	-12.8
GEW-055	9/17/2018 14:00	50.9	42.0	0.0	7.1	132.3	132.3	4.3	4.7	0.04	0.1	-12.9
GEW-055	9/17/2018 14:01	50.3	42.9	0.0	6.8	133.2	133.2	6.9	6.0	-0.02	-0.02	-13.1
GEW-055	9/24/2018 10:10	53.0	42.7	0.0	4.3	128.3	128.0	0.0	0.0	-0.3	-0.3	-12.9
GEW-056R	9/5/2018 11:12	42.7	45.2	0.1	12.0	125.0	125.2	3.4	1.9	-0.3	-0.3	-18.6
GEW-056R	9/5/2018 11:19	43.2	43.9	0.1	12.8	124.5	124.3	1.9	1.9	-0.3	-0.3	-18.5
GEW-056R	9/10/2018 11:04	40.9	47.4	0.0	11.7	121.2	121.0	2.7	2.9	-0.4	-0.3	-19.1
GEW-056R	9/19/2018 9:30	40.8	47.9	0.0	11.3	127.5	127.6	2.9	2.6	-0.4	-0.4	-19.1
GEW-056R	9/24/2018 13:16	42.1	43.5	0.1	14.3	115.5	115.9	3.2	2.6	-0.3	-0.3	-19.9
GEW-057B	9/7/2018 14:36	3.2	50.5	1.1	45.2	90.5	90.5	15.9	10.2	-18.1	-18.2	-18.7
GEW-057R	9/7/2018 14:39	18.8	15.1	13.8	52.3	87.9	88.0	3.2	3.2	-13.6	-13.7	-18.7
GEW-057R	9/7/2018 14:40	22.2	14.6	13.2	50.0	88.7	88.8	3.2	2.9	-15.9	-15.6	-18.8
GEW-057R	9/20/2018 10:37	2.2	2.0	20.3	75.5	101.6	101.8	5.3	4.6	-16.2	-16.2	-18.9
GEW-057R	9/20/2018 10:39	2.9	1.0	20.2	75.9	103.0	103.0	4.1	3.5	-17.5	-17.5	-18.5
GEW-058	9/7/2018 13:44	4.5	18.2	8.5	68.8	89.2	89.3	1.6	1.6	-4.4	-4.4	-19.0
GEW-058	9/7/2018 13:46	5.0	13.5	8.6	72.9	89.6	89.6	2.8	1.2	-1.1	-1.1	-18.9
GEW-058	9/20/2018 10:02	12.1	33.8	5.8	48.3	98.7	98.8	2.7	2.7	-1.0	-1.0	-19.3
GEW-058	9/20/2018 10:04	12.9	30.4	6.0	50.7	101.6	101.6	2.7	2.5	-0.2	-0.2	-18.8
GEW-058A	9/7/2018 13:40	1.0	38.3	6.0	54.7	89.7	89.8	1.6	1.6	-0.5	-0.5	-19.3
GEW-058A	9/7/2018 13:41	0.8	38.9	6.0	54.3	90.5	90.5	2.8	2.0	-0.1	-0.1	-19.1
GEW-058A	9/20/2018 9:59	1.5	57.3	1.8	39.4	99.2	99.4	2.9	1.7	-0.4	-0.4	-19.6
GEW-059R	9/7/2018 13:27	21.5	43.8	0.0	34.7	165.2	165.4	20.2	16.0	-18.5	-18.2	-19.0
GEW-059R	9/7/2018 13:28	21.0	44.9	0.0	34.1	165.3	165.7	13.0	15.2	-18.0	-18.8	-19.0
GEW-059R	9/20/2018 9:48	21.9	51.7	0.3	26.1	165.3	165.2	15.5	18.3	-18.9	-18.9	-19.9
GEW-059R	9/20/2018 9:49	21.0	54.1	0.3	24.6	164.7	164.7	22.1	16.6	-19.3	-19.5	-19.3
GEW-067A	9/7/2018 8:44	7.0	39.2	2.7	51.1	81.2	81.2	13.5	15.4	-0.2	-0.3	-18.5
GEW-068A	9/12/2018 10:46	1.2	59.5	0.0	39.3	199.3	199.3	47.4	44.7	-5.8	-6.8	-18.8
GEW-068A	9/12/2018 10:47	1.2	60.3	0.0	38.5	199.3	199.3	44.1	43.7	-5.9	-6.5	-19.2
GEW-068A	9/21/2018 9:20	2.6	59.1	0.0	38.3	199.3	199.0	43.9	45.1	-6.9	-6.8	-19.7
GEW-068A	9/21/2018 9:22	2.2	63.6	0.0	34.2	199.3	199.2	44.5	43.9	-6.2	-7.0	-20.1
GEW-078R	9/7/2018 11:23	8.5	33.1	0.0	58.4	156.0	156.0	4.9	4.5	-17.2	-17.2	-18.8
GEW-078R	9/7/2018 11:24	8.6	33.4	0.0	58.0	156.0	156.0	1.7	4.8	-17.2	-17.2	-18.7
GEW-078R	9/19/2018 14:13	8.2	32.4	0.1	59.3	159.8	159.8	2.8	3.5	-18.1	-18.1	-19.6
GEW-078R	9/19/2018 14:14	6.8	33.6	0.0	59.6	159.8	159.8	2.2	3.8	-18.4	-18.6	-19.7
GEW-081	9/12/2018 14:11	0.6	43.6	4.7	51.1	97.9	97.9	3.9	3.2	-19.1	-19.1	-19.6
GEW-082R	9/7/2018 11:34	13.8	39.2	0.1	46.9	175.8	175.8	1.7	3.4	-9.9	-9.9	-18.8
GEW-082R	9/7/2018 11:35	13.8	39.8	0.1	46.3	175.8	175.8	5.4	4.4	-9.9	-9.9	-18.8
GEW-082R	9/19/2018 14:22	10.8	38.6	0.1	50.5	177.7	177.5	5.0	5.6	-10.8	-10.8	-20.0

September 2018 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-082R	9/19/2018 14:24	10.9	39.4	0.1	49.6	177.6	178.0	6.3	3.1	-10.8	-10.8	-20.1
GEW-086	9/7/2018 9:05	16.2	34.1	4.8	44.9	97.4	97.4	2.5	3.6	-0.2	-0.2	-19.6
GEW-087	9/7/2018 9:36	1.3	22.8	13.5	62.4	80.0	80.0	NFD		-19.4	-19.2	-19.6
GEW-087	9/7/2018 9:37	1.3	22.0	14.0	62.7	80.0	80.0	NFD		-19.4	-19.2	-19.5
GEW-087	9/19/2018 11:26	8.3	20.7	8.8	62.2	131.4	131.4	NFD		-18.1	-18.2	-18.3
GEW-087	9/19/2018 11:27	9.3	22.9	7.8	60.0	131.2	131.2	NFD		-18.1	-18.2	-18.2
GEW-087	9/28/2018 13:33	3.6	14.1	12.3	70.0	123.7	123.8	NFD		-20.1	-20.1	-20.4
GEW-087	9/28/2018 13:35	3.6	14.1	12.5	69.8	123.7	123.7	NFD		-20.1	-20.1	-20.7
GEW-088	9/7/2018 9:31	4.4	50.7	0.0	44.9	193.6	193.6	1.9	1.7	-0.5	-0.5	-19.5
GEW-088	9/7/2018 9:32	4.2	50.7	0.0	45.1	193.3	193.5	17.9	13.8	-1.0	-0.9	-19.5
GEW-088	9/19/2018 11:15	7.5	48.5	0.2	43.8	193.6	193.6	3.2	3.5	-0.8	-0.8	-18.7
GEW-088	9/19/2018 11:17	7.5	47.5	0.1	44.9	193.0	192.9	8.5	11.2	-0.9	-1.0	-18.2
GEW-090	9/7/2018 8:33	1.2	53.8	0.0	45.0	190.2	191.2	2.2	2.8	2.8	2.8	-19.7
GEW-090	9/7/2018 8:35	1.0	54.9	0.0	44.1	197.9	197.9	7.2	10.4	-1.4	-1.4	-19.3
GEW-090	9/19/2018 10:51	30.5	46.4	0.1	23.0	182.8	182.7	8.9	8.1	-8.3	-8.3	-18.8
GEW-090	9/19/2018 10:53	31.3	46.4	0.1	22.2	182.7	182.7	10.0	9.3	-8.4	-8.3	-19.4
GEW-091	9/6/2018 10:29	5.7	54.7	0.1	39.5	196.4	196.4	28.1	29.7	-0.1	-0.1	-14.4
GEW-091	9/6/2018 10:35	7.6	51.0	0.1	41.3	196.4	196.4	19.3	18.9	-0.7	-0.7	-14.4
GEW-091	9/19/2018 10:18	2.4	29.0	8.9	59.7	183.9	183.9	21.8	21.7	-2.8	-2.8	-15.1
GEW-091	9/19/2018 10:20	2.6	29.5	9.0	58.9	183.9	183.9	22.5	22.6	-2.7	-2.7	-15.8
GEW-091	9/28/2018 13:44	1.8	27.7	9.2	61.3	182.7	182.2	29.8	29.2	-2.5	-2.5	-18.1
GEW-091	9/28/2018 13:46	1.8	28.1	9.1	61.0	182.2	182.1	30.4	28.8	-2.5	-2.5	-18.9
GEW-100	9/12/2018 10:58	0.8	51.5	2.6	45.1	91.2	91.1	10.8	5.6	-9.8	-10.0	-18.9
GEW-101	9/12/2018 10:38	21.5	58.5	1.6	18.4	119.4	119.2	4.8	4.9	-0.1	-0.1	-18.5
GEW-102	9/12/2018 10:34	11.4	42.4	4.8	41.4	99.1	99.4	2.4	2.4	-17.6	-17.6	-18.4
GEW-104	9/7/2018 14:28	21.6	48.6	0.0	29.8	194.3	194.3	13.8	11.7	-5.0	-5.0	-16.2
GEW-104	9/7/2018 14:29	21.6	49.6	0.0	28.8	194.3	194.3	15.4	14.9	-5.3	-5.3	-16.3
GEW-104	9/20/2018 10:29	28.6	50.6	0.2	20.6	147.8	148.0	10.5	8.2	-13.1	-13.0	-16.3
GEW-104	9/20/2018 10:30	29.2	50.6	0.2	20.0	148.0	148.0	9.4	9.8	-13.1	-13.5	-16.9
GEW-105	9/7/2018 14:11	8.7	51.6	1.0	38.7	147.0	147.0	6.4	2.6	-0.7	-0.7	-18.9
GEW-105	9/7/2018 14:12	8.4	54.6	0.9	36.1	147.7	147.8	4.2	3.8	-0.7	-0.7	-19.2
GEW-105	9/20/2018 10:14	8.1	65.5	2.2	24.2	142.9	142.9	6.7	6.0	-0.9	-0.9	-19.5
GEW-105	9/20/2018 10:16	8.3	68.9	2.1	20.7	143.5	143.5	6.1	11.8	-1.1	-1.1	-19.2
GEW-106	9/7/2018 13:50	3.3	58.0	0.1	38.6	180.3	180.3	10.1	13.3	-2.8	-3.2	-19.0
GEW-106	9/7/2018 13:52	3.0	65.0	0.3	31.7	186.2	187.0	13.7	14.1	-5.5	-6.3	-18.9
GEW-106	9/20/2018 10:07	15.3	56.4	2.3	26.0	100.1	100.2	8.3	13.8	-16.2	-17.2	-19.2
GEW-107	9/7/2018 13:31	12.3	54.3	0.0	33.4	162.3	162.9	4.2	4.2	-3.8	-3.8	-19.1
GEW-107	9/7/2018 13:33	11.8	57.1	0.0	31.1	161.6	162.0	5.9	5.9	-3.8	-3.8	-19.1
GEW-107	9/20/2018 9:53	10.7	73.5	0.1	15.7	159.4	159.4	10.0	5.8	-4.2	-4.2	-19.4
GEW-107	9/20/2018 9:55	10.8	74.6	0.1	14.5	159.0	159.0	10.7	9.5	-4.3	-4.2	-19.9
GEW-108	9/4/2018 14:24	31.6	40.9	3.2	24.3	146.8	147.0	2.7	3.7	-13.8	-14.0	-19.4
GEW-108	9/4/2018 14:31	32.3	38.9	3.1	25.7	147.0	147.1	4.9	1.3	-13.8	-13.8	-19.1

September 2018 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-108	9/18/2018 7:56	31.0	38.4	3.9	26.7	141.5	141.6	6.8	4.8	-15.9	-15.9	-19.9
GEW-108	9/18/2018 7:57	28.2	37.1	4.6	30.1	139.3	139.3	3.1	3.3	-10.0	-9.8	-20.1
GEW-109	9/5/2018 10:01	33.1	40.7	0.2	26.0	124.7	124.7	4.4	1.8	-5.9	-5.9	-18.5
GEW-109	9/5/2018 10:08	33.2	40.3	0.2	26.3	124.2	124.2	1.1	3.0	-5.9	-5.9	-18.4
GEW-109	9/10/2018 11:43	30.2	39.6	0.2	30.0	121.8	121.8	3.2	1.9	-6.0	-6.0	-18.0
GEW-109	9/19/2018 10:07	32.9	41.2	0.0	25.9	125.8	125.8	2.6	1.5	-6.3	-6.3	-19.1
GEW-109	9/24/2018 11:25	33.2	41.8	0.1	24.9	119.4	119.4	2.6	2.2	-6.0	-5.9	-19.3
GEW-110	9/5/2018 13:25	18.6	30.8	6.6	44.0	118.4	118.4	3.3	2.2	-0.1	-0.1	-20.1
GEW-110	9/5/2018 13:32	19.0	32.0	6.2	42.8	118.4	118.4	3.5	2.9	-0.1	-0.1	-19.9
GEW-110	9/10/2018 10:55	12.8	21.3	12.3	53.6	92.7	92.6	3.0	3.0	-0.1	-0.1	-19.3
GEW-110	9/10/2018 10:56	12.6	19.2	12.5	55.7	92.8	92.8	2.0	2.3	-0.1	-0.1	-19.2
GEW-110	9/19/2018 9:22	12.8	24.9	10.5	51.8	108.0	108.0	0.0	1.1	-0.1	-0.1	-19.1
GEW-110	9/19/2018 9:23	13.0	24.9	10.7	51.4	108.0	108.0	1.6	3.7	-0.1	-0.1	-19.0
GEW-110	9/24/2018 13:23	18.0	30.0	6.7	45.3	108.6	108.7	2.1	1.8	-0.02	-0.02	-20.0
GEW-110	9/24/2018 13:24	18.1	30.2	6.7	45.0	109.2	109.2	1.3	2.4	-0.02	-0.02	-20.1
GEW-113	9/7/2018 10:12	12.7	51.9	1.5	33.9	148.3	148.4	15.4	13.2	-3.2	-3.1	-19.1
GEW-113	9/7/2018 10:14	12.9	52.4	1.4	33.3	148.2	148.0	9.7	11.7	-3.2	-3.1	-19.1
GEW-113	9/19/2018 13:14	12.2	52.3	1.2	34.3	150.2	150.2	11.9	10.2	-3.1	-3.1	-18.6
GEW-113	9/19/2018 13:15	12.3	51.9	1.1	34.7	150.2	150.2	10.6	14.6	-3.1	-3.1	-18.6
GEW-116	9/7/2018 14:13	15.5	57.5	0.5	26.5	188.3	188.3	19.2	18.2	-5.1	-5.1	-18.9
GEW-116	9/7/2018 14:15	15.3	58.7	0.4	25.6	188.3	188.3	20.5	19.4	-5.1	-5.1	-19.0
GEW-116	9/20/2018 11:15	15.5	79.9	1.1	3.5	183.3	183.3	17.5	25.5	-7.2	-7.2	-18.5
GEW-116	9/20/2018 11:16	15.8	80.6	1.1	2.5	182.7	182.7	22.1	18.2	-8.0	-8.1	-19.0
GEW-117	9/12/2018 13:35	47.1	48.3	0.1	4.5	118.6	118.6	10.2	8.1	-18.6	-18.6	-19.6
GEW-118	9/7/2018 14:24	1.4	55.5	0.1	43.0	196.4	196.4	2.7	5.2	-1.4	-1.4	-18.5
GEW-118	9/7/2018 14:25	1.5	56.2	0.1	42.2	196.4	196.4	13.8	13.0	-1.8	-1.8	-18.7
GEW-118	9/19/2018 14:31	1.0	53.2	0.3	45.5	195.8	195.7	5.5	4.0	-2.1	-2.1	-19.7
GEW-118	9/19/2018 14:33	1.1	54.9	0.3	43.7	195.9	195.7	8.0	10.2	-2.1	-2.1	-19.9
GEW-120	9/12/2018 13:39	18.1	49.9	0.0	32.0	159.8	159.8	13.1	13.3	-3.5	-3.5	-19.4
GEW-120	9/12/2018 13:41	17.3	50.4	0.0	32.3	159.8	159.8	13.8	13.0	-3.5	-3.5	-19.5
GEW-120	9/21/2018 10:24	16.8	49.9	0.1	33.2	157.3	157.3	13.8	15.8	-3.6	-3.6	-19.3
GEW-120	9/21/2018 10:25	16.4	52.1	0.0	31.5	159.0	159.0	16.0	17.0	-4.1	-4.1	-19.6
GEW-121	9/12/2018 13:44	8.3	43.0	0.8	47.9	175.3	175.3	27.9	30.3	-14.8	-14.8	-17.5
GEW-121	9/12/2018 13:46	8.0	43.0	0.8	48.2	175.3	175.3	29.2	27.4	-14.8	-14.8	-18.1
GEW-121	9/21/2018 10:28	6.5	42.3	1.6	49.6	172.1	172.1	36.8	36.5	-16.1	-16.2	-18.7
GEW-121	9/21/2018 10:29	6.5	41.7	1.6	50.2	172.6	172.1	39.2	36.2	-16.4	-16.1	-18.1
GEW-122	9/12/2018 14:06	14.0	34.7	0.6	50.7	148.1	148.2	61.4	61.8	-11.8	-11.8	-19.1
GEW-122	9/12/2018 14:07	13.2	35.5	0.6	50.7	148.4	148.4	61.5	61.3	-11.8	-11.8	-19.0
GEW-122	9/21/2018 10:48	12.6	34.9	0.5	52.0	144.9	144.9	63.4	63.4	-12.3	-12.3	-19.2
GEW-122	9/21/2018 10:49	12.3	35.2	0.4	52.1	144.9	144.9	63.3	63.9	-12.3	-12.3	-19.1
GEW-123	9/12/2018 13:49	11.0	42.6	0.3	46.1	135.3	135.0	9.4	2.1	-5.9	-5.9	-19.3
GEW-123	9/12/2018 13:51	11.0	42.7	0.3	46.0	135.3	135.3	4.1	4.2	-5.9	-5.9	-19.0

September 2018 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-123	9/21/2018 10:32	9.6	44.8	0.2	45.4	152.1	152.2	3.8	3.2	-5.4	-5.4	-19.3
GEW-123	9/21/2018 10:33	9.8	46.4	0.2	43.6	152.5	152.5	2.1	2.7	-5.4	-5.4	-19.3
GEW-124	9/12/2018 14:00	29.2	21.0	9.4	40.4	92.9	92.9	0.0	4.0	-12.7	-12.7	-13.1
GEW-124	9/12/2018 14:02	31.7	24.8	9.0	34.5	92.0	92.0	2.5	2.7	-12.3	-12.3	-12.7
GEW-124	9/21/2018 10:45	42.7	35.7	3.6	18.0	82.3	82.3	5.6	3.2	-13.2	-13.1	-13.3
GEW-125	9/12/2018 14:21	3.0	51.1	1.7	44.2	174.7	174.7	4.0	4.0	-1.8	-1.8	-19.3
GEW-125	9/12/2018 14:22	3.0	51.3	1.7	44.0	174.7	174.7	5.8	5.4	-1.8	-1.7	-19.5
GEW-125	9/21/2018 10:53	2.4	51.1	1.8	44.7	170.6	170.6	2.0	4.1	-1.9	-1.9	-19.4
GEW-125	9/21/2018 10:54	2.3	52.1	1.8	43.8	171.0	171.0	6.6	5.9	-1.9	-1.9	-19.5
GEW-126	9/12/2018 14:23	18.5	52.6	0.5	28.4	124.8	123.7	9.5	14.5	-2.6	-2.7	-2.6
GEW-127	9/12/2018 13:59	11.2	54.2	1.0	33.6	173.1	173.1	11.9	10.8	-2.0	-2.0	-19.0
GEW-127	9/12/2018 14:00	11.2	55.4	1.0	32.4	173.6	173.6	11.7	11.7	-2.1	-2.1	-19.2
GEW-127	9/21/2018 11:07	12.5	54.7	1.2	31.6	170.0	170.0	11.0	11.6	-2.2	-2.2	-19.3
GEW-127	9/21/2018 11:08	12.6	54.4	1.1	31.9	171.6	171.9	17.1	17.1	-3.0	-3.0	-19.1
GEW-128	9/12/2018 13:51	12.2	52.2	4.5	31.1	167.6	167.6	8.1	6.4	-0.6	-0.6	-19.2
GEW-128	9/12/2018 13:52	13.3	50.5	4.6	31.6	167.6	167.6	10.8	7.6	-0.6	-0.6	-19.0
GEW-128	9/27/2018 8:25	13.6	47.9	4.8	33.7	164.7	165.1	6.9	9.0	-0.6	-0.6	-20.4
GEW-128	9/27/2018 8:27	13.6	48.8	4.8	32.8	165.1	164.7	6.7	7.5	-0.6	-0.6	-20.3
GEW-129	9/12/2018 13:46	0.7	66.8	0.0	32.5	177.5	177.8	12.1	8.7	-4.1	-4.1	-19.5
GEW-129	9/12/2018 13:48	0.7	66.5	0.0	32.8	180.3	180.3	8.0	8.0	-4.0	-4.0	-19.3
GEW-129	9/27/2018 8:30	12.2	62.5	0.1	25.2	156.9	157.0	7.3	8.5	-2.9	-2.8	-18.3
GEW-129	9/27/2018 8:32	12.3	63.5	0.0	24.2	156.9	156.9	5.7	7.4	-2.9	-2.9	-19.0
GEW-130	9/12/2018 14:19	7.2	43.4	3.6	45.8	182.7	182.2	21.1	21.0	-3.3	-3.3	-19.5
GEW-130	9/12/2018 14:21	7.2	46.2	3.5	43.1	182.2	182.2	17.7	21.0	-3.3	-3.3	-19.3
GEW-130	9/21/2018 11:11	7.2	46.0	4.8	42.0	181.5	181.3	22.5	22.5	-3.8	-3.8	-19.5
GEW-130	9/21/2018 11:12	7.1	44.5	4.9	43.5	181.4	180.9	21.0	20.3	-3.8	-3.8	-19.7
GEW-131	9/12/2018 14:26	25.1	41.5	0.0	33.4	152.5	152.5	11.9	11.9	-11.2	-11.2	-19.1
GEW-131	9/12/2018 14:28	25.4	40.7	0.0	33.9	152.5	152.5	13.6	10.6	-11.2	-11.2	-18.5
GEW-131	9/21/2018 11:16	24.8	40.8	0.0	34.4	150.2	149.9	12.7	12.7	-11.7	-11.7	-19.3
GEW-131	9/21/2018 11:17	25.0	39.9	0.0	35.1	150.2	150.2	9.9	12.0	-11.8	-11.8	-18.9
GEW-132	9/7/2018 14:30	1.9	38.8	3.7	55.6	156.9	157.3	2.3	2.1	-0.2	-0.2	-18.5
GEW-132	9/7/2018 14:32	1.9	36.4	3.7	58.0	158.1	157.5	2.3	1.0	-0.2	-0.2	-18.6
GEW-132	9/19/2018 14:37	2.0	35.3	5.1	57.6	159.0	158.2	3.1	2.0	-0.3	-0.3	-19.7
GEW-132	9/19/2018 14:39	2.0	34.6	5.1	58.3	158.1	158.1	2.0	2.5	-0.3	-0.3	-19.6
GEW-132	9/28/2018 13:56	1.8	27.0	6.7	64.5	156.9	156.5	2.5	2.1	-0.3	-0.3	-20.2
GEW-132	9/28/2018 13:58	1.8	27.0	6.7	64.5	156.9	157.3	2.5	2.1	-0.3	-0.3	-20.1
GEW-133	9/7/2018 14:18	12.3	48.4	0.3	39.0	168.1	168.1	35.3	41.4	-8.5	-8.6	-13.9
GEW-133	9/7/2018 14:20	12.4	48.6	0.3	38.7	168.5	168.5	52.8	44.4	-8.6	-8.1	-16.8
GEW-133	9/20/2018 11:21	12.9	69.5	0.1	17.5	174.2	174.2	46.1	46.1	-7.4	-7.4	-12.9
GEW-133	9/20/2018 11:23	13.8	70.3	0.1	15.8	174.2	174.2	49.5	43.6	-7.4	-7.7	-17.0
GEW-134	9/7/2018 14:08	19.7	39.6	2.4	38.3	150.6	151.0	15.7	11.7	-1.9	-1.3	-18.8
GEW-134	9/7/2018 14:10	19.7	39.6	2.4	38.3	150.8	151.0	12.9	13.2	-1.3	-1.3	-19.1

September 2018 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-134	9/20/2018 11:10	19.5	54.4	2.5	23.6	150.6	150.6	14.5	14.4	-1.3	-1.3	-18.4
GEW-134	9/20/2018 11:11	20.1	52.9	2.5	24.5	150.2	150.6	15.3	14.3	-1.3	-1.3	-18.5
GEW-135	9/7/2018 14:02	6.3	43.6	2.2	47.9	153.6	153.7	16.9	15.6	-3.1	-3.6	-18.8
GEW-135	9/7/2018 14:04	6.4	43.6	2.1	47.9	153.7	153.3	16.5	20.6	-3.6	-3.9	-18.8
GEW-135	9/20/2018 11:06	6.6	57.5	2.0	33.9	158.5	158.5	22.5	29.2	-4.0	-4.4	-18.3
GEW-135	9/20/2018 11:07	6.9	61.6	2.0	29.5	158.2	158.5	22.9	27.5	-3.9	-4.3	-18.1
GEW-136	9/7/2018 10:27	6.1	20.1	11.3	62.5	123.1	123.1	5.4	4.1	-0.2	-0.2	-15.8
GEW-136	9/7/2018 10:29	6.3	19.5	11.4	62.8	123.7	123.7	2.4	7.3	-0.2	-0.2	-15.8
GEW-136	9/19/2018 13:29	0.8	49.1	0.1	50.0	106.0	105.7	1.0	0.8	-0.02	-0.02	-4.8
GEW-137	9/7/2018 10:33	25.7	32.9	1.4	40.0	108.3	108.1	2.6	1.8	-17.2	-17.2	-19.3
GEW-138	9/7/2018 11:19	8.4	26.6	3.8	61.2	126.4	126.1	3.0	4.2	-0.2	-0.2	-18.8
GEW-139	9/12/2018 11:40	2.6	56.6	0.0	40.8	188.9	188.9	3.8	7.8	-2.1	-2.1	-18.2
GEW-139	9/12/2018 11:41	2.6	58.7	0.0	38.7	188.3	188.3	8.3	6.1	-2.2	-2.1	-20.1
GEW-139	9/27/2018 8:38	5.4	52.8	0.2	41.6	164.7	164.7	5.3	1.7	-4.5	-4.5	-10.9
GEW-139	9/27/2018 8:39	5.5	52.9	0.1	41.5	164.7	164.7	2.0	2.8	-4.5	-4.5	-11.5
GEW-140	9/12/2018 11:31	3.1	56.7	0.0	40.2	197.9	197.7	16.1	16.1	-1.0	-1.0	-20.3
GEW-140	9/12/2018 11:32	3.0	58.6	0.0	38.4	197.9	197.9	14.6	16.5	-0.9	-1.0	-19.8
GEW-140	9/27/2018 8:43	4.8	59.4	0.0	35.8	198.6	198.6	10.0	11.0	-1.4	-1.4	-20.7
GEW-140	9/27/2018 8:47	4.9	55.6	0.1	39.4	198.6	198.6	21.5	22.9	-2.3	-2.4	-20.4
GEW-141	9/12/2018 13:30	0.3	60.0	0.0	39.7	94.1	94.1	6.2	6.9	0.4	0.4	-19.4
GEW-141	9/12/2018 13:32	0.2	64.0	1.0	34.8	97.4	97.4	2.3	5.3	-0.1	-0.1	-19.1
GEW-142	9/12/2018 11:06	0.0	3.5	20.8	75.7	89.8	89.8	3.3	3.5	-0.02	-0.02	-17.9
GEW-142	9/12/2018 11:07	0.0	0.4	21.3	78.3	90.8	90.8	2.3	1.2	-0.03	-0.03	-18.1
GEW-142	9/21/2018 9:40	0.0	0.3	21.8	77.9	77.0	77.1	3.6	3.6	-0.03	-0.03	-17.9
GEW-142	9/21/2018 9:42	0.0	0.0	20.9	79.1	78.2	78.2	2.9	3.1	-0.04	-0.03	-18.1
GEW-143	9/12/2018 10:55	0.0	3.2	20.0	76.8	95.0	95.0	2.3	2.3	-0.1	-0.1	-19.0
GEW-143	9/12/2018 10:56	0.0	1.9	20.2	77.9	96.7	96.9	0.0	2.0	-0.1	-0.1	-18.9
GEW-143	9/21/2018 9:27	0.0	5.2	19.8	75.0	80.2	80.2	4.2	3.7	-0.1	-0.1	-19.4
GEW-143	9/21/2018 9:28	0.0	4.3	20.0	75.7	80.3	80.3	3.3	3.9	-0.1	-0.1	-19.5
GEW-144	9/12/2018 10:41	17.9	38.0	7.4	36.7	91.7	91.8	5.0	4.3	-18.2	-18.1	-18.2
GEW-144	9/12/2018 10:43	19.6	37.4	6.5	36.5	93.4	93.5	1.6	1.6	-18.0	-18.0	-18.3
GEW-144	9/21/2018 9:24	28.0	43.2	4.8	24.0	83.5	83.7	5.6	3.2	-19.1	-19.2	-19.4
GEW-145	9/12/2018 10:31	4.6	51.7	0.0	43.7	105.0	105.1	1.5	1.9	-15.6	-15.6	-18.4
GEW-146	9/7/2018 10:03	2.5	4.2	18.7	74.6	102.3	102.5	17.0	18.0	-0.1	-0.1	-19.1
GEW-146	9/7/2018 10:05	2.3	3.6	18.8	75.3	102.5	102.7	14.8	15.0	-0.1	-0.1	-19.6
GEW-146	9/19/2018 13:51	25.9	33.4	0.5	40.2	108.2	108.3	3.1	1.6	-0.02	-0.01	-19.6
GEW-147	9/7/2018 10:22	16.2	45.8	0.1	37.9	179.2	179.2	34.4	34.9	-15.2	-15.1	-19.2
GEW-147	9/7/2018 10:24	16.4	46.1	0.1	37.4	179.2	179.2	34.6	34.9	-15.2	-15.2	-19.1
GEW-147	9/19/2018 13:23	15.9	46.3	0.1	37.7	157.3	157.3	25.2	25.4	-16.6	-16.6	-18.5
GEW-147	9/19/2018 13:24	16.4	45.4	0.1	38.1	157.3	157.3	25.4	26.0	-16.4	-16.4	-18.2
GEW-148	9/7/2018 9:42	23.0	40.4	4.4	32.2	83.3	83.3	6.4	5.4	-18.7	-18.7	-19.7
GEW-149	9/7/2018 8:40	10.9	34.9	2.6	51.6	126.9	126.7	15.8	16.5	-0.3	-0.3	-19.3

September 2018 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-150	9/7/2018 14:24	17.7	41.8	3.0	37.5	182.1	182.1	13.2	14.5	-1.2	-1.2	-16.5
GEW-150	9/7/2018 14:25	17.9	41.9	3.0	37.2	181.6	181.6	12.8	12.5	-0.9	-0.9	-16.3
GEW-150	9/20/2018 10:23	17.9	53.4	3.0	25.7	175.4	175.3	6.8	9.8	-1.9	-1.8	-18.2
GEW-150	9/20/2018 10:24	18.4	53.0	3.0	25.6	175.3	175.4	11.0	10.5	-1.9	-2.0	-16.4
GEW-151	9/7/2018 9:28	9.6	53.1	0.0	37.3	112.7	113.0	2.5	2.5	-0.1	-0.1	-19.3
GEW-152	9/7/2018 13:36	29.4	49.8	0.0	20.8	123.5	123.7	2.9	2.9	-4.2	-4.2	-19.3
GEW-153	9/7/2018 13:24	40.5	32.3	4.1	23.1	89.8	89.8	2.8	2.0	-1.1	-1.1	-19.3
GEW-154	9/7/2018 8:27	27.4	33.6	4.1	34.9	78.2	78.2	4.8	4.5	-0.2	-0.2	-13.1
GEW-154	9/7/2018 8:29	27.1	34.6	4.0	34.3	78.2	78.2	4.4	4.4	-0.2	-0.2	-12.9
GEW-155	9/7/2018 11:28	1.5	17.8	6.2	74.5	101.8	102.1	0.0	1.6	-0.1	-0.1	-18.3
GEW-155	9/7/2018 11:30	1.5	17.4	6.2	74.9	101.8	101.8	2.3	1.6	-0.1	-0.1	-18.3
GEW-155	9/19/2018 14:18	0.7	20.0	3.6	75.7	117.9	117.7	1.5	1.1	-0.2	-0.2	-19.6
GEW-156	9/7/2018 14:44	38.0	46.9	0.0	15.1	116.8	116.8	10.1	10.3	-9.2	-9.2	-18.5
GEW-157	9/7/2018 14:32	12.8	50.4	1.1	35.7	141.5	141.8	5.5	4.5	-6.8	-6.8	-18.7
GEW-157	9/7/2018 14:34	13.1	51.0	1.1	34.8	142.2	141.9	3.9	4.0	-6.8	-6.8	-18.8
GEW-157	9/20/2018 10:33	12.6	62.7	2.8	21.9	145.9	146.3	5.1	6.6	-5.8	-6.0	-18.6
GEW-157	9/20/2018 10:34	13.1	64.1	2.8	20.0	146.5	146.3	5.0	4.8	-6.0	-6.0	-19.0
GEW-158	9/14/2018 9:48	0.7	56.0	0.1	43.2	98.2	98.4	9.4	5.0	0.1	0.1	-19.1
GEW-158	9/14/2018 9:49	0.6	58.2	0.0	41.2	100.8	100.8	3.0	4.9	-1.0	-1.0	-18.9
GEW-159	9/5/2018 8:11	45.8	40.8	0.2	13.2	88.4	88.5	2.6	3.4	-1.7	-1.7	-19.8
GEW-159	9/5/2018 8:18	45.9	40.8	0.2	13.1	88.2	88.2	4.3	3.2	-1.7	-1.7	-19.7
GEW-160	9/6/2018 8:11	6.8	53.6	0.1	39.5	87.7	87.7	13.0	8.1	-3.8	-3.8	-16.6
GEW-160	9/6/2018 8:17	6.8	53.0	0.0	40.2	87.1	87.2	10.5	10.2	-3.7	-3.7	-16.1
GEW-161	9/6/2018 8:21	9.4	51.2	0.1	39.3	103.2	103.3	2.2	1.1	-7.9	-7.9	-16.7
GEW-161	9/6/2018 8:27	9.2	49.6	0.1	41.1	102.9	102.9	2.9	4.5	-8.3	-8.2	-16.6
GEW-162	9/6/2018 10:17	14.1	58.4	1.3	26.2	125.8	125.8	1.8	7.1	-5.9	-5.9	-18.1
GEW-162	9/6/2018 10:25	15.8	57.0	1.3	25.9	126.4	126.4	5.0	3.5	-5.9	-5.9	-18.2
GEW-163	9/4/2018 9:41	1.0	21.2	12.9	64.9	168.9	168.9	23.4	23.5	-0.2	-0.2	-18.5
GEW-163	9/4/2018 9:42	0.9	21.7	12.9	64.5	169.0	168.8	26.0	25.2	-0.2	-0.2	-18.5
GEW-163	9/11/2018 13:28	1.7	19.3	11.6	67.4	168.1	168.1	13.3	9.6	-0.2	-0.2	-20.0
GEW-163	9/11/2018 13:29	1.6	20.7	11.5	66.2	168.1	168.1	3.4	11.4	-0.2	-0.2	-19.7
GEW-163	9/18/2018 8:44	1.1	21.3	13.4	64.2	168.1	168.1	23.4	22.7	-0.2	-0.2	-19.4
GEW-163	9/18/2018 8:45	0.9	21.3	13.4	64.4	168.1	168.1	22.8	23.4	-0.2	-0.2	-19.1
GEW-163	9/25/2018 9:08	1.0	21.7	13.5	63.8	167.6	167.1	19.0	18.7	-0.2	-0.2	-19.3
GEW-163	9/25/2018 9:11	0.8	21.9	13.6	63.7	167.6	167.1	19.8	19.7	-0.2	-0.2	-19.0
GEW-164	9/4/2018 9:45	18.4	40.1	5.2	36.3	151.0	151.0	21.2	36.1	-0.6	-0.6	-19.8
GEW-164	9/4/2018 9:46	19.2	40.2	5.2	35.4	151.0	151.0	42.3	29.3	-0.5	-0.6	-19.3
GEW-164	9/11/2018 13:33	20.1	42.2	4.5	33.2	149.5	149.6	44.6	36.1	-0.7	-0.7	-20.2
GEW-164	9/11/2018 13:34	20.1	42.3	4.5	33.1	149.7	149.5	39.4	32.5	-0.7	-0.7	-20.5
GEW-164	9/18/2018 8:49	19.1	41.4	5.1	34.4	150.2	150.2	32.9	26.0	-0.5	-0.6	-19.7
GEW-164	9/18/2018 8:51	19.3	41.8	5.0	33.9	150.2	150.2	48.2	48.3	-0.5	-0.5	-19.8
GEW-164	9/25/2018 9:14	17.5	38.5	6.3	37.7	149.5	149.6	43.1	42.1	-0.5	-0.5	-19.6

September 2018 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-164	9/25/2018 9:16	17.9	39.0	6.2	36.9	149.9	149.5	25.5	52.4	-0.5	-0.5	-19.7
GEW-165	9/4/2018 9:50	10.4	48.0	5.1	36.5	174.7	174.7	24.4	18.4	-0.8	-0.8	-18.2
GEW-165	9/4/2018 9:52	10.5	48.3	5.1	36.1	174.4	174.3	18.7	17.5	-0.8	-0.8	-18.2
GEW-165	9/11/2018 13:38	11.0	47.8	4.8	36.4	174.2	174.7	17.7	14.2	-0.8	-0.8	-19.3
GEW-165	9/11/2018 13:39	10.4	48.2	4.7	36.7	174.2	174.2	18.7	22.5	-0.8	-0.8	-19.2
GEW-165	9/18/2018 8:54	10.9	48.2	5.0	35.9	174.7	174.7	23.0	14.3	-0.8	-0.8	-19.2
GEW-165	9/18/2018 8:56	10.8	48.2	5.0	36.0	174.7	174.7	9.7	17.2	-0.8	-0.8	-19.7
GEW-165	9/25/2018 9:21	11.3	47.8	5.1	35.8	173.6	173.6	7.8	5.8	-0.7	-0.7	-19.0
GEW-165	9/25/2018 9:23	11.0	49.0	4.9	35.1	173.6	173.6	15.9	21.0	-0.7	-0.7	-19.6
GEW-166	9/4/2018 9:55	1.5	52.7	0.5	45.3	194.3	194.3	24.2	23.4	-6.9	-6.9	-18.5
GEW-166	9/4/2018 9:57	1.3	54.8	0.5	43.4	194.3	194.3	42.3	33.9	-7.4	-7.4	-18.7
GEW-166	9/11/2018 13:43	1.5	54.2	0.5	43.8	194.3	194.3	42.0	21.7	-7.4	-7.4	-19.6
GEW-166	9/11/2018 13:44	1.3	56.5	0.6	41.6	194.3	194.3	42.9	27.6	-7.8	-7.8	-19.8
GEW-166	9/18/2018 8:59	1.5	56.2	0.5	41.8	194.6	194.4	25.8	32.4	-7.4	-7.4	-19.4
GEW-166	9/18/2018 9:00	1.4	56.8	0.5	41.3	194.4	194.5	23.1	34.7	-7.4	-7.4	-19.1
GEW-166	9/25/2018 9:26	1.7	55.2	0.6	42.5	194.3	194.3	21.4	18.6	-7.4	-7.3	-19.4
GEW-166	9/25/2018 9:27	1.4	56.6	0.5	41.5	194.3	194.3	5.0	28.9	-7.6	-7.8	-19.4
GEW-167	9/4/2018 10:11	0.5	36.3	7.9	55.3	185.7	185.7	7.7	9.3	-0.4	-0.4	-8.0
GEW-167	9/4/2018 10:13	0.4	36.1	7.9	55.6	185.8	185.7	4.6	7.0	-0.4	-0.4	-8.2
GEW-167	9/11/2018 13:47	0.5	38.6	7.2	53.7	185.7	185.7	8.7	5.7	-0.4	-0.4	-8.9
GEW-167	9/11/2018 13:48	0.5	37.0	7.1	55.4	185.7	185.9	12.5	5.7	-0.4	-0.4	-8.6
GEW-167	9/18/2018 9:15	0.5	38.2	7.4	53.9	186.4	186.4	39.8	36.2	-0.4	-0.4	-7.0
GEW-167	9/18/2018 9:16	0.4	38.0	7.3	54.3	186.4	186.4	36.9	33.9	-0.4	-0.4	-7.0
GEW-167	9/25/2018 9:43	1.2	42.2	3.9	52.7	187.6	187.6	35.1	28.3	-0.3	-0.3	-5.9
GEW-167	9/25/2018 9:45	0.9	43.9	3.9	51.3	187.6	187.6	30.7	33.7	-0.3	-0.3	-6.1
GEW-168	9/4/2018 10:00	16.3	47.8	2.6	33.3	142.9	142.9	11.7	11.7	-0.6	-0.6	-18.8
GEW-168	9/4/2018 10:02	16.6	48.2	2.6	32.6	142.9	142.9	2.5	11.4	-0.6	-0.6	-17.9
GEW-168	9/11/2018 14:18	17.0	50.1	2.0	30.9	135.9	135.9	30.2	35.7	-1.0	-1.0	-17.8
GEW-168	9/11/2018 14:20	16.9	51.0	2.0	30.1	136.2	136.2	33.8	31.5	-0.9	-0.9	-19.1
GEW-168	9/18/2018 9:04	16.1	42.7	4.0	37.2	141.5	141.5	27.6	14.5	-0.6	-0.6	-18.7
GEW-168	9/18/2018 9:06	16.5	43.8	4.0	35.7	141.6	141.8	8.6	10.0	-0.6	-0.6	-18.3
GEW-168	9/25/2018 9:31	10.9	32.9	8.6	47.6	129.2	129.2	12.5	28.4	-0.7	-0.7	-18.4
GEW-168	9/25/2018 9:33	11.2	31.9	8.5	48.4	129.2	129.2	18.8	14.8	-0.7	-0.7	-18.0
GEW-169	9/4/2018 10:05	8.3	52.5	2.7	36.5	183.3	183.3	46.4	37.1	-1.7	-1.7	-18.8
GEW-169	9/4/2018 10:07	7.9	52.5	2.6	37.0	183.5	183.3	52.3	40.0	-1.8	-1.8	-18.4
GEW-169	9/11/2018 14:24	7.9	53.8	2.2	36.1	183.9	183.4	42.1	57.4	-1.8	-1.8	-18.3
GEW-169	9/11/2018 14:26	8.0	53.3	2.2	36.5	183.4	183.8	49.6	54.8	-1.9	-1.9	-18.5
GEW-169	9/18/2018 9:09	8.9	51.4	3.1	36.6	183.9	183.9	53.4	47.0	-1.6	-1.7	-19.3
GEW-169	9/18/2018 9:11	8.6	51.7	3.1	36.6	183.9	183.9	78.7	79.8	-1.8	-1.8	-18.5
GEW-169	9/25/2018 9:37	9.1	49.4	3.5	38.0	182.1	182.1	66.0	65.5	-1.7	-1.7	-19.5
GEW-169	9/25/2018 9:38	9.0	49.9	3.4	37.7	182.1	182.1	81.9	81.6	-1.8	-1.8	-18.6
GEW-170	9/12/2018 13:54	11.8	50.2	2.0	36.0	171.0	171.0	11.4	15.7	-3.3	-3.3	-15.2

September 2018 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-170	9/12/2018 13:56	11.7	50.5	2.0	35.8	171.0	171.0	12.1	12.1	-3.2	-3.2	-10.8
GEW-170	9/21/2018 11:03	11.6	50.7	2.3	35.4	170.0	170.0	14.1	11.9	-3.1	-3.2	-11.8
GEW-170	9/21/2018 11:04	12.1	49.1	2.2	36.6	170.0	170.1	18.7	16.1	-3.3	-3.2	-13.4
GEW-171	9/12/2018 11:01	10.4	31.5	10.4	47.7	89.8	89.8	3.9	6.7	-13.2	-13.2	-15.4
GEW-171	9/12/2018 11:03	11.9	36.4	9.4	42.3	87.3	87.3	3.6	1.1	-11.7	-11.7	-14.9
GEW-171	9/21/2018 9:36	0.0	1.1	21.5	77.4	80.1	80.1	3.5	3.7	-6.8	-6.9	-15.2
GEW-171	9/21/2018 9:37	0.0	0.7	21.5	77.8	79.5	79.5	3.7	3.3	-6.0	-5.9	-15.9
GEW-172	9/12/2018 11:10	14.1	54.3	0.1	31.5	163.8	163.8	25.2	23.8	-5.4	-5.8	-18.5
GEW-172	9/12/2018 11:12	13.8	55.7	0.0	30.5	163.3	163.1	20.2	20.8	-5.8	-5.4	-19.0
GEW-172	9/27/2018 8:52	14.7	57.8	0.0	27.5	182.7	182.7	6.9	19.1	-4.0	-4.0	-18.7
GEW-172	9/27/2018 8:54	14.9	57.3	0.0	27.8	182.7	182.7	4.0	13.5	-3.9	-3.9	-17.7
GEW-173	9/12/2018 11:35	1.7	13.0	12.5	72.8	121.0	120.7	8.2	8.2	-0.1	-0.1	-19.4
GEW-173	9/12/2018 11:36	1.9	10.9	12.7	74.5	121.0	121.3	4.5	6.4	-0.1	-0.1	-19.6
GEW-173	9/27/2018 9:00	4.1	16.4	7.5	72.0	110.3	110.5	2.6	5.3	-0.1	-0.1	-19.9
GEW-173	9/27/2018 9:01	4.2	15.8	7.5	72.5	110.2	110.1	4.6	4.6	-0.1	-0.1	-19.9
GEW-174	9/12/2018 10:50	12.4	41.8	1.1	44.7	152.9	152.9	25.3	30.9	-3.8	-3.8	-19.0
GEW-174	9/12/2018 10:51	12.8	40.1	1.1	46.0	152.9	152.5	38.1	30.8	-3.9	-3.9	-18.9
GEW-174	9/21/2018 9:13	14.3	36.8	1.3	47.6	153.1	152.5	30.2	24.7	-4.1	-4.1	-19.3
GEW-174	9/21/2018 9:17	13.5	39.2	1.2	46.1	153.3	153.3	35.5	36.3	-4.1	-4.2	-20.0
GEW-175	9/7/2018 14:20	16.1	42.9	3.6	37.4	159.4	160.2	29.5	26.6	-0.1	-0.1	-18.5
GEW-175	9/7/2018 14:21	16.1	42.7	3.1	38.1	159.4	160.2	18.9	11.9	-0.1	-0.1	-18.6
GEW-175	9/20/2018 10:19	16.1	58.2	3.1	22.6	161.6	161.2	18.4	30.0	-0.1	-0.1	-18.6
GEW-175	9/20/2018 10:20	17.0	55.8	3.5	23.7	162.4	162.1	21.6	32.1	-0.1	-0.1	-18.8
GEW-176	9/7/2018 14:16	28.8	40.5	2.2	28.5	101.8	101.8	8.2	9.7	-0.2	-0.2	-19.1
GEW-177	9/12/2018 13:38	8.3	62.9	0.3	28.5	184.5	184.5	20.3	18.5	-13.2	-13.2	-18.1
GEW-177	9/12/2018 13:39	8.3	62.6	0.2	28.9	184.5	184.8	17.5	20.0	-13.2	-13.2	-18.4
GEW-177	9/27/2018 9:06	10.2	60.5	0.3	29.0	185.7	185.7	16.4	5.9	-13.5	-13.4	-20.2
GEW-177	9/27/2018 9:08	9.9	62.2	0.3	27.6	186.4	186.4	28.3	20.3	-13.4	-13.5	-19.9
GEW-178	9/4/2018 13:23	20.8	46.9	1.6	30.7	120.5	120.7	10.3	8.2	-1.2	-1.2	-18.8
GEW-178	9/11/2018 11:13	21.9	48.4	1.5	28.2	119.2	119.4	13.9	12.3	-1.2	-1.2	-19.9
GEW-178	9/18/2018 13:34	23.5	52.5	1.0	23.0	121.2	121.3	8.7	10.3	-1.2	-1.3	-20.5
GEW-178	9/25/2018 11:17	25.1	51.9	0.5	22.5	117.3	117.6	10.7	14.3	-1.3	-1.3	-20.1
GEW-179	9/4/2018 13:26	15.2	47.5	3.1	34.2	138.0	138.0	14.2	18.4	-5.0	-5.0	-19.7
GEW-179	9/4/2018 13:28	15.3	47.5	3.0	34.2	138.0	138.0	18.5	18.4	-5.0	-5.0	-19.7
GEW-179	9/11/2018 11:07	15.2	46.3	3.1	35.4	141.9	142.3	4.6	4.9	-7.9	-7.9	-17.6
GEW-179	9/11/2018 11:10	17.3	48.6	2.4	31.7	141.5	141.2	5.4	5.4	-7.4	-7.4	-17.5
GEW-179	9/18/2018 13:30	9.5	44.0	3.4	43.1	117.3	117.6	1.1	1.5	-0.5	-0.4	-19.6
GEW-179	9/25/2018 11:10	17.8	67.9	0.1	14.2	100.6	100.8	1.6	1.1	0.8	0.8	-19.8
GEW-179	9/25/2018 11:13	18.0	69.1	0.1	12.8	114.6	114.8	5.9	6.5	-0.3	-0.3	-19.7
GEW-180	9/4/2018 13:32	15.3	66.2	0.2	18.3	142.9	143.0	6.3	4.3	-2.3	-2.3	-18.9
GEW-180	9/4/2018 13:34	15.1	67.4	0.1	17.4	142.9	142.9	2.2	6.4	-2.2	-2.2	-19.3
GEW-180	9/11/2018 11:01	15.7	67.7	0.2	16.4	143.2	143.2	3.8	4.3	-2.3	-2.3	-19.9



September 2018 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-180	9/11/2018 11:03	15.0	66.4	0.2	18.4	142.9	142.9	5.1	4.9	-2.3	-2.3	-19.3
GEW-180	9/18/2018 13:24	15.8	67.1	0.1	17.0	146.7	147.0	5.1	7.4	-3.4	-3.4	-19.9
GEW-180	9/18/2018 13:25	16.0	67.7	0.1	16.2	146.6	146.6	6.6	4.0	-3.5	-3.5	-20.3
GEW-180	9/25/2018 10:59	17.7	68.4	0.1	13.8	143.9	144.2	8.2	7.9	-4.8	-4.8	-19.9
GEW-180	9/25/2018 11:01	17.8	68.7	0.1	13.4	144.2	144.2	10.2	10.0	-4.8	-4.8	-20.4
GEW-181	9/4/2018 13:38	16.3	65.8	0.3	17.6	163.3	163.3	17.6	13.1	-1.3	-1.4	-20.2
GEW-181	9/4/2018 13:40	16.6	66.3	0.2	16.9	163.3	163.3	17.7	17.0	-1.3	-1.4	-20.3
GEW-181	9/11/2018 10:56	17.1	64.6	0.2	18.1	164.4	164.3	17.7	16.0	-1.5	-1.5	-21.0
GEW-181	9/11/2018 10:57	16.9	65.3	0.2	17.6	164.3	164.3	19.5	19.1	-1.5	-1.5	-21.2
GEW-181	9/18/2018 13:19	16.5	61.9	0.3	21.3	165.7	166.1	18.9	19.9	-1.6	-1.6	-20.1
GEW-181	9/18/2018 13:20	16.5	64.2	0.2	19.1	166.1	166.1	16.0	18.1	-1.6	-1.6	-21.6
GEW-181	9/25/2018 10:49	16.9	66.1	0.1	16.9	165.2	165.2	15.2	16.4	-1.5	-1.5	-20.2
GEW-181	9/25/2018 10:51	17.2	66.5	0.1	16.2	165.2	165.2	12.0	12.4	-1.5	-1.5	-20.9
GEW-182	9/4/2018 11:09	25.2	36.1	5.4	33.3	120.2	120.2	8.6	9.7	-0.3	-0.3	-15.3
GEW-182	9/4/2018 11:11	26.1	37.1	5.4	31.4	120.2	120.1	8.1	11.5	-0.3	-0.3	-14.7
GEW-182	9/11/2018 9:13	25.3	34.1	5.9	34.7	108.1	108.2	6.2	8.5	-0.3	-0.3	-17.5
GEW-182	9/11/2018 9:15	25.5	35.0	5.9	33.6	108.5	108.5	9.6	19.1	-0.3	-0.3	-16.4
GEW-182	9/18/2018 10:03	24.9	35.7	5.9	33.5	109.5	109.5	18.0	15.4	-0.3	-0.4	-16.1
GEW-182	9/18/2018 10:05	25.2	35.9	5.8	33.1	109.0	109.2	17.8	16.8	-0.4	-0.3	-15.5
GEW-182	9/25/2018 10:08	27.3	39.7	4.9	28.1	106.4	106.2	14.8	13.1	-0.3	-0.3	-15.3
GEW-184	9/4/2018 10:52	9.3	18.8	14.5	57.4	116.5	116.6	4.5	0.0	-0.2	-0.2	-18.8
GEW-184	9/4/2018 10:54	9.4	18.6	14.5	57.5	116.3	116.3	4.4	4.4	-0.2	-0.1	-19.0
GEW-184	9/11/2018 9:19	11.2	22.6	13.1	53.1	109.5	110.0	5.4	5.7	-0.1	-0.1	-19.9
GEW-184	9/11/2018 9:21	10.7	22.0	13.2	54.1	109.7	109.7	5.8	5.0	-0.1	-0.1	-19.9
GEW-184	9/18/2018 10:09	13.8	29.6	10.8	45.8	116.1	116.0	10.7	8.1	-0.1	-0.1	-18.7
GEW-184	9/18/2018 10:10	13.7	29.5	10.9	45.9	116.6	116.6	11.3	11.2	-0.1	-0.2	-18.8
GEW-184	9/25/2018 10:18	13.1	27.2	11.9	47.8	105.6	105.7	8.9	8.9	-0.1	-0.1	-19.5
GEW-184	9/25/2018 10:19	12.9	27.1	11.9	48.1	106.0	105.7	9.5	9.0	-0.1	-0.1	-20.1
GEW-185	9/4/2018 10:57	13.1	45.6	5.5	35.8	171.0	171.0	9.2	6.7	-0.5	-0.6	-19.2
GEW-185	9/4/2018 10:59	13.2	46.2	5.6	35.0	171.0	171.0	7.1	6.7	-0.6	-0.7	-18.9
GEW-185	9/11/2018 9:24	12.8	43.8	6.3	37.1	170.7	171.0	7.9	8.0	-0.7	-0.7	-19.6
GEW-185	9/11/2018 9:26	12.8	44.6	6.1	36.5	171.0	171.0	6.4	8.8	-0.7	-0.6	-20.2
GEW-185	9/18/2018 10:14	13.4	45.6	5.8	35.2	171.0	171.2	23.0	21.3	-0.8	-0.7	-18.8
GEW-185	9/18/2018 10:16	13.6	45.1	5.7	35.6	171.0	171.0	20.1	21.6	-0.6	-0.7	-18.9
GEW-185	9/25/2018 10:23	13.0	44.4	6.5	36.1	168.1	168.1	20.5	20.7	-0.6	-0.6	-20.2
GEW-185	9/25/2018 10:25	12.9	44.6	6.5	36.0	168.1	168.1	20.0	21.1	-0.6	-0.7	-20.2
GEW-186	9/4/2018 11:43	25.1	48.4	2.3	24.2	131.7	131.7	13.5	15.6	-0.4	-0.4	-20.1
GEW-186	9/4/2018 11:46	25.0	49.8	2.3	22.9	131.9	131.7	10.9	14.8	-0.4	-0.4	-19.8
GEW-186	9/11/2018 10:04	22.4	51.1	2.4	24.1	132.4	132.6	12.3	15.0	-0.4	-0.4	-20.2
GEW-186	9/11/2018 10:06	22.5	51.8	2.2	23.5	133.2	133.8	19.7	14.5	-0.4	-0.4	-20.7
GEW-186	9/18/2018 10:43	22.9	44.5	3.8	28.8	132.0	132.0	30.3	29.9	-0.4	-0.4	-18.5
GEW-186	9/18/2018 10:44	23.5	46.3	3.7	26.5	132.3	132.1	32.4	32.5	-0.4	-0.4	-19.4

September 2018 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-186	9/25/2018 10:41	20.5	48.3	3.5	27.7	122.4	122.3	2.9	16.4	-0.5	-0.4	-20.0
GEW-187	9/4/2018 14:13	19.2	58.5	0.2	22.1	171.6	171.6	5.7	10.5	-1.0	-1.1	-19.2
GEW-187	9/4/2018 14:19	19.7	58.0	0.3	22.0	171.6	171.6	4.7	2.9	-1.0	-1.0	-19.1
GEW-187	9/11/2018 10:22	22.1	57.7	0.1	20.1	168.7	169.0	4.9	4.6	-1.6	-1.6	-20.2
GEW-187	9/11/2018 10:23	22.1	59.1	0.1	18.7	169.0	169.0	5.6	3.0	-1.6	-1.6	-20.4
GEW-187	9/18/2018 11:18	24.0	55.0	0.6	20.4	169.5	169.5	35.3	32.1	-1.5	-1.5	-18.7
GEW-187	9/18/2018 11:20	24.2	56.0	0.6	19.2	169.5	169.6	32.8	32.9	-1.4	-1.4	-18.6
GEW-187	9/25/2018 11:34	25.2	56.0	0.3	18.5	165.7	166.1	5.3	4.4	-1.7	-1.7	-19.7
GEW-187	9/25/2018 11:35	25.8	56.7	0.4	17.1	165.7	165.7	3.0	1.0	-1.7	-1.6	-19.7
GEW-188	9/4/2018 11:03	0.3	9.4	13.9	76.4	112.2	112.0	5.5	5.3	-0.2	-0.2	-18.6
GEW-188	9/4/2018 11:05	0.2	8.3	13.9	77.6	112.0	112.2	7.4	2.7	-0.2	-0.1	-19.2
GEW-188	9/11/2018 9:30	0.3	8.7	14.7	76.3	108.2	108.2	7.2	6.7	-0.1	-0.1	-19.7
GEW-188	9/11/2018 9:32	0.2	6.8	14.9	78.1	108.5	108.5	5.8	6.5	-0.1	-0.1	-19.8
GEW-188	9/18/2018 10:19	0.4	9.0	14.8	75.8	116.0	116.3	11.1	10.5	-0.1	-0.1	-18.3
GEW-188	9/18/2018 10:21	0.3	7.5	14.9	77.3	117.3	117.3	11.3	9.5	-0.1	-0.1	-18.5
GEW-188	9/25/2018 10:30	0.3	7.3	16.0	76.4	95.5	95.5	11.4	11.3	-0.1	-0.2	-20.0
GEW-188	9/25/2018 10:32	0.2	6.5	16.1	77.2	95.3	95.3	10.2	9.8	-0.2	-0.2	-19.9
GEW-217	9/6/2018 13:27	6.1	51.2	4.4	38.3	199.4	199.3	17.0	17.6	-6.4	-6.4	-19.9
GEW-217	9/6/2018 13:38	5.5	50.2	4.6	39.7	200.8	200.8	16.4	16.7	-2.2	-2.3	-20.3
GEW-217	9/12/2018 8:28	6.5	53.4	3.8	36.3	197.8	197.9	11.3	10.4	-8.3	-8.3	-20.1
GEW-217	9/12/2018 8:30	6.1	53.9	3.8	36.2	197.9	197.9	14.4	15.9	-8.8	-8.8	-21.0
GEW-217	9/18/2018 14:14	11.6	17.8	13.0	57.6	106.0	106.0	1.1	4.4	-19.1	-19.1	-19.5
GEW-217	9/18/2018 14:15	9.2	13.5	15.1	62.2	105.5	105.5	4.1	2.4	-19.1	-19.1	-19.6
GEW-217	9/25/2018 13:14	4.7	3.4	18.5	73.4	97.2	97.2	6.0	7.9	-18.2	-18.2	-18.8
GEW-217	9/25/2018 13:16	4.6	4.0	18.5	72.9	97.2	97.2	5.0	6.9	-18.2	-18.4	-18.9
GEW-218	9/6/2018 13:45	22.0	46.2	0.2	31.6	120.5	120.7	8.5	13.6	-1.1	-1.1	-20.1
GEW-218	9/12/2018 8:35	21.5	47.0	0.1	31.4	112.0	111.9	6.0	6.2	-1.3	-1.3	-19.6
GEW-218	9/18/2018 14:21	23.5	44.1	0.4	32.0	120.5	120.5	8.0	10.4	-1.0	-1.0	-19.4
GEW-218	9/25/2018 13:20	23.3	43.1	0.7	32.9	108.2	108.2	15.8	11.6	-1.2	-1.2	-19.3
GEW-219	9/6/2018 13:53	12.5	36.0	0.6	50.9	177.5	177.5	9.4	7.0	-0.7	-0.7	-20.1
GEW-219	9/6/2018 13:55	11.7	36.6	0.5	51.2	177.5	177.5	6.4	10.5	-0.7	-0.7	-20.3
GEW-219	9/12/2018 8:40	9.0	31.5	0.7	58.8	147.0	147.0	4.9	12.1	-1.2	-1.2	-20.5
GEW-219	9/12/2018 8:42	8.8	31.2	0.7	59.3	147.0	147.0	2.7	8.8	-1.2	-1.2	-19.3
GEW-219	9/18/2018 14:26	11.5	35.0	0.8	52.7	183.1	183.1	4.3	7.3	-0.5	-0.6	-20.1
GEW-219	9/18/2018 14:28	11.4	35.5	0.7	52.4	182.8	183.1	5.3	3.9	-0.6	-0.6	-20.0
GEW-219	9/25/2018 13:24	9.4	32.7	3.4	54.5	182.7	182.7	6.6	4.1	-0.4	-0.4	-19.4
GEW-219	9/25/2018 13:27	9.1	32.4	3.4	55.1	182.7	182.7	4.1	6.7	-0.5	-0.4	-19.4
GEW-220	9/6/2018 14:03	8.9	69.3	0.5	21.3	204.7	204.7	31.5	32.1	-3.4	-3.4	-19.9
GEW-220	9/6/2018 14:05	10.2	63.8	0.2	25.8	204.7	204.7	24.1	24.3	-3.9	-3.9	-18.5
GEW-220	9/12/2018 8:48	11.0	64.4	0.1	24.5	204.7	204.7	54.7	56.2	-10.9	-11.0	-18.5
GEW-220	9/12/2018 8:51	11.5	61.7	0.1	26.7	204.7	204.7	23.3	16.9	-4.9	-4.9	-17.5
GEW-220	9/18/2018 14:33	5.8	47.0	1.1	46.1	202.4	202.4	28.4	32.2	-1.8	-1.7	-17.9

September 2018 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-220	9/18/2018 14:34	4.6	47.7	1.1	46.6	202.4	202.6	31.0	29.1	-2.0	-2.0	-18.3
GEW-220	9/25/2018 13:32	4.1	17.3	11.2	67.4	136.5	136.4	26.1	29.5	-7.4	-7.4	-17.5
GEW-220	9/25/2018 13:33	4.0	16.5	11.2	68.3	136.2	136.1	28.2	27.6	-7.4	-7.4	-16.6
GEW-221	9/6/2018 14:14	16.2	51.1	0.8	31.9	136.3	136.5	3.0	5.9	-1.7	-1.7	-19.9
GEW-221	9/6/2018 14:16	16.3	51.5	0.7	31.5	136.2	136.5	2.4	4.2	-1.8	-1.8	-20.0
GEW-221	9/12/2018 8:56	18.7	47.5	0.7	33.1	122.8	122.7	3.9	8.0	-3.3	-3.2	-19.2
GEW-221	9/19/2018 7:58	14.9	52.8	0.6	31.7	144.0	143.9	2.3	1.5	-1.4	-1.4	-20.2
GEW-221	9/19/2018 7:59	14.7	53.6	0.5	31.2	143.9	143.9	2.8	6.8	-1.4	-1.4	-20.2
GEW-221	9/25/2018 13:37	16.7	41.6	0.5	41.2	119.9	119.7	4.9	6.0	-3.0	-3.0	-18.8
GEW-222	9/6/2018 14:22	25.0	46.9	1.7	26.4	159.0	158.5	12.8	12.7	-6.6	-6.6	-19.7
GEW-222	9/6/2018 14:24	25.5	46.5	1.7	26.3	158.1	157.7	10.7	8.1	-5.8	-5.8	-21.0
GEW-222	9/12/2018 9:02	26.4	47.3	1.2	25.1	139.3	139.6	10.3	10.4	-6.3	-6.3	-19.9
GEW-222	9/12/2018 9:03	27.0	47.7	1.2	24.1	139.3	139.3	13.0	10.5	-6.3	-6.3	-19.4
GEW-222	9/19/2018 8:06	27.0	48.7	0.4	23.9	147.3	147.3	12.1	9.9	-6.9	-6.9	-20.2
GEW-222	9/19/2018 8:07	27.5	49.1	0.4	23.0	147.3	147.3	11.5	9.2	-6.9	-6.9	-20.3
GEW-222	9/25/2018 13:43	24.0	47.9	0.2	27.9	175.3	175.3	12.7	14.2	-2.4	-2.4	-19.1
GEW-222	9/25/2018 13:45	23.9	50.7	0.2	25.2	175.3	175.3	10.2	10.6	-2.3	-2.3	-19.3
GEW-223	9/6/2018 14:30	5.9	63.8	0.2	30.1	200.3	200.5	13.2	13.3	-0.04	-0.1	-19.2
GEW-223	9/6/2018 14:31	3.6	66.2	0.2	30.0	200.7	200.5	18.0	12.6	-0.8	-0.7	-17.4
GEW-223	9/12/2018 9:12	7.1	60.6	0.3	32.0	188.9	188.9	12.7	8.9	-3.1	-3.1	-13.6
GEW-223	9/12/2018 9:14	6.9	60.5	0.3	32.3	189.0	188.9	9.6	9.1	-3.0	-3.1	-13.5
GEW-223	9/19/2018 8:10	9.6	59.7	0.4	30.3	185.7	185.7	11.7	6.3	-5.4	-5.4	-15.8
GEW-223	9/19/2018 8:12	9.1	61.6	0.2	29.1	185.1	185.6	13.4	8.9	-5.4	-5.3	-15.1
GEW-223	9/28/2018 9:04	4.9	63.2	0.1	31.8	198.6	198.6	14.0	16.1	-0.6	-0.4	-12.8
GEW-223	9/28/2018 9:05	4.7	64.5	0.0	30.8	198.7	198.7	4.4	12.6	-0.9	-0.9	-14.5
GEW-224	9/6/2018 14:27	18.0	64.4	0.6	17.0	167.6	167.9	4.8	4.8	-17.1	-17.2	-19.8
GEW-224	9/6/2018 14:28	18.3	66.6	0.2	14.9	169.0	169.0	5.0	3.6	-17.6	-17.6	-19.8
GEW-224	9/12/2018 9:33	20.4	66.0	0.3	13.3	152.1	151.7	4.2	5.0	-17.2	-17.1	-18.2
GEW-224	9/12/2018 9:35	20.9	65.8	0.3	13.0	152.1	152.1	3.7	4.3	-17.1	-17.1	-18.2
GEW-224	9/19/2018 8:28	19.9	63.5	0.4	16.2	147.0	147.3	5.0	3.9	-17.6	-17.6	-18.6
GEW-224	9/19/2018 8:30	20.5	65.2	0.3	14.0	147.0	147.0	3.7	0.0	-17.2	-17.2	-18.9
GEW-224	9/28/2018 9:10	15.5	65.7	0.2	18.6	174.7	174.7	2.9	4.9	-15.9	-15.9	-17.7
GEW-224	9/28/2018 9:11	16.0	65.1	0.2	18.7	175.3	174.8	2.7	3.9	-15.9	-15.9	-17.7
GEW-225	9/6/2018 14:38	30.7	36.4	4.8	28.1	88.4	88.4	3.3	3.3	-3.3	-3.3	-19.6
GEW-225	9/12/2018 9:38	44.9	47.4	0.0	7.7	95.8	96.0	2.0	1.6	-3.1	-3.1	-18.6
GEW-225	9/19/2018 8:34	0.8	61.6	0.0	37.6	104.8	104.8	5.3	7.0	2.8	2.9	-18.9
GEW-225	9/19/2018 8:36	0.4	62.2	0.0	37.4	116.0	115.8	8.0	7.2	-2.4	-2.4	-18.5
GEW-225	9/28/2018 9:16	14.1	55.7	0.0	30.2	135.0	135.3	7.0	5.3	-5.1	-5.1	-18.2
GEW-225	9/28/2018 9:17	14.0	57.6	0.0	28.4	135.3	135.6	8.7	7.3	-5.2	-5.1	-18.7
GEW-226	9/6/2018 14:40	1.1	36.1	9.0	53.8	140.2	139.9	4.3	1.1	-0.2	-0.2	-20.1
GEW-226	9/6/2018 14:41	0.8	36.4	9.0	53.8	139.9	140.6	2.6	1.5	-0.2	-0.2	-20.1
GEW-226	9/12/2018 9:46	5.9	27.3	6.5	60.3	165.7	165.7	5.9	5.9	-0.2	-0.1	-18.0

September 2018 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-226	9/12/2018 9:48	5.4	26.8	6.5	61.3	165.2	165.2	9.3	4.4	-0.2	-0.1	-18.0
GEW-226	9/19/2018 8:20	0.5	63.5	0.0	36.0	198.8	199.3	10.8	11.0	0.4	0.4	-19.3
GEW-226	9/19/2018 8:23	0.6	67.0	0.0	32.4	200.8	200.8	13.2	11.7	-0.3	-0.3	-19.1
GEW-226	9/28/2018 9:24	0.4	62.6	0.0	37.0	183.3	183.3	6.0	9.3	-1.3	-1.3	-19.3
GEW-226	9/28/2018 9:25	0.4	64.9	0.0	34.7	185.1	185.3	7.3	2.4	-1.2	-1.2	-19.1
GEW-227	9/6/2018 13:37	1.1	44.7	3.0	51.2	202.8	202.8	16.2	15.8	-0.5	-0.5	-20.4
GEW-227	9/6/2018 13:39	0.9	46.6	3.0	49.5	203.0	202.8	23.6	24.4	-1.8	-1.9	-19.8
GEW-227	9/12/2018 10:22	1.2	34.3	7.4	57.1	200.8	200.8	14.1	14.7	-0.4	-0.4	-19.2
GEW-227	9/12/2018 10:25	1.1	34.7	7.2	57.0	200.8	200.8	10.4	10.1	-0.2	-0.2	-19.4
GEW-227	9/19/2018 9:01	1.3	39.1	3.8	55.8	194.3	194.3	12.6	11.3	-2.4	-2.4	-16.9
GEW-227	9/19/2018 9:02	1.0	39.2	3.8	56.0	194.3	194.3	9.5	7.6	-2.2	-2.2	-16.1
GEW-227	9/28/2018 9:37	1.1	39.5	5.0	54.4	200.1	200.1	11.8	13.1	-0.8	-0.9	-20.1
GEW-227	9/28/2018 9:40	1.0	39.0	4.9	55.1	198.6	198.4	20.5	20.7	-0.6	-0.6	-19.3
GEW-228	9/6/2018 13:47	2.8	11.6	11.3	74.3	155.6	155.6	18.0	17.4	-1.3	-1.4	-20.3
GEW-228	9/6/2018 13:50	3.3	13.9	10.8	72.0	153.7	153.5	4.6	6.2	-0.3	-0.3	-19.7
GEW-228	9/12/2018 10:44	5.4	51.7	0.1	42.8	202.3	202.3	22.3	22.4	-0.9	-0.8	-19.1
GEW-228	9/12/2018 10:47	6.4	51.6	0.1	41.9	202.3	202.3	12.5	14.7	-0.3	-0.3	-19.3
GEW-228	9/19/2018 9:18	3.2	14.5	11.3	71.0	168.7	168.6	12.5	17.4	-0.6	-0.6	-19.3
GEW-228	9/19/2018 9:20	3.4	13.8	11.3	71.5	168.6	168.7	14.5	15.2	-0.6	-0.6	-19.1
GEW-228	9/28/2018 14:03	2.4	12.4	10.8	74.4	149.1	149.1	15.7	14.3	-0.6	-0.6	-19.3
GEW-228	9/28/2018 14:05	2.4	11.7	10.8	75.1	149.1	149.1	16.5	15.0	-0.6	-0.6	-20.6
GEW-229	9/6/2018 14:01	2.5	7.1	11.8	78.6	114.0	114.0	7.2	9.5	-0.2	-0.2	-20.3
GEW-229	9/6/2018 14:03	2.6	9.5	11.6	76.3	111.2	111.2	2.5	1.9	-0.1	-0.1	-20.0
GEW-229	9/12/2018 11:08	8.8	19.6	2.8	68.8	105.5	105.7	4.0	4.5	-0.1	-0.1	-19.1
GEW-229	9/12/2018 11:10	8.9	19.4	2.8	68.9	106.1	106.1	8.9	6.6	-0.1	-0.1	-20.2
GEW-229	9/19/2018 9:28	2.1	16.0	7.0	74.9	152.9	152.9	14.3	13.8	-0.2	-0.2	-20.4
GEW-229	9/19/2018 9:30	2.1	15.9	7.0	75.0	152.9	152.9	16.1	15.5	-0.2	-0.2	-19.3
GEW-229	9/28/2018 9:57	1.7	11.2	10.8	76.3	117.3	117.3	14.5	13.3	-0.2	-0.2	-19.6
GEW-229	9/28/2018 10:01	1.6	11.2	10.8	76.4	117.0	116.8	15.1	15.2	-0.2	-0.2	-19.1
GEW-230	9/6/2018 14:08	11.5	35.7	1.3	51.5	169.0	169.0	12.0	11.8	-0.2	-0.2	-20.4
GEW-230	9/6/2018 14:10	11.1	37.0	1.2	50.7	169.6	170.0	10.2	10.4	-0.4	-0.4	-20.1
GEW-230	9/12/2018 11:17	8.4	29.4	3.2	59.0	155.2	155.2	12.9	12.1	-0.4	-0.4	-20.9
GEW-230	9/12/2018 11:19	8.2	29.1	3.5	59.2	154.8	155.2	11.4	11.6	-0.5	-0.5	-20.9
GEW-230	9/19/2018 9:35	5.2	27.4	4.1	63.3	174.2	174.0	15.3	13.6	-0.2	-0.3	-19.7
GEW-230	9/19/2018 9:36	5.5	27.4	4.1	63.0	174.2	174.0	17.7	11.3	-0.2	-0.3	-19.6
GEW-230	9/28/2018 10:14	4.0	26.0	4.5	65.5	174.8	174.7	8.6	10.1	-0.2	-0.2	-20.7
GEW-230	9/28/2018 10:16	3.9	26.5	4.4	65.2	174.7	175.3	11.3	6.4	-0.3	-0.4	-20.4
GEW-231	9/6/2018 14:19	13.3	52.5	3.1	31.1	170.5	171.0	10.2	10.7	-0.3	-0.3	-20.3
GEW-231	9/6/2018 14:20	13.2	54.2	3.1	29.5	171.6	171.0	11.3	10.2	-0.3	-0.2	-20.3
GEW-231	9/12/2018 9:54	17.5	56.4	1.4	24.7	169.0	169.5	18.1	15.8	-0.8	-0.7	-19.8
GEW-231	9/12/2018 9:56	17.4	57.0	1.6	24.0	168.9	169.5	14.2	12.2	-0.6	-0.5	-19.6
GEW-231	9/19/2018 8:45	14.1	46.0	5.9	34.0	156.5	156.5	10.7	8.0	-0.2	-0.2	-19.9

September 2018 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-231	9/19/2018 8:47	14.9	45.5	5.9	33.7	156.9	156.9	12.8	8.7	-0.2	-0.2	-19.3
GEW-231	9/28/2018 9:30	16.4	61.1	1.1	21.4	162.1	162.1	11.6	12.0	-0.1	-0.1	-19.6
GEW-231	9/28/2018 9:31	16.8	59.7	1.0	22.5	162.1	162.4	8.6	12.4	-0.1	-0.1	-18.8
GIW-01	9/6/2018 10:06	11.2	57.7	0.3	30.8	171.0	171.0	6.0	5.4	-3.1	-3.1	-18.6
GIW-01	9/6/2018 10:13	11.4	58.3	0.3	30.0	168.9	169.0	5.1	6.0	-3.1	-3.1	-18.4
GIW-01	9/10/2018 11:12	7.6	56.7	0.2	35.5	168.1	168.1	5.4	5.4	-4.3	-4.3	-19.1
GIW-01	9/10/2018 11:13	7.6	59.9	0.2	32.3	168.5	168.2	5.7	6.1	-4.3	-4.3	-19.5
GIW-01	9/19/2018 9:37	8.2	58.0	0.3	33.5	170.5	170.1	6.6	7.5	-3.3	-3.3	-19.1
GIW-01	9/19/2018 9:38	8.2	57.5	0.3	34.0	170.5	170.5	3.9	5.7	-3.3	-3.3	-19.1
GIW-01	9/24/2018 13:54	10.5	57.1	0.2	32.2	169.0	169.0	8.2	7.5	-3.3	-3.3	-20.2
GIW-01	9/24/2018 13:55	10.3	57.4	0.2	32.1	168.8	169.0	7.7	5.7	-3.3	-3.3	-20.2
GIW-02	9/6/2018 9:04	3.9	21.8	12.7	61.6	99.4	99.6	3.0	2.8	-0.3	-0.3	-19.1
GIW-02	9/6/2018 9:11	4.1	20.6	12.8	62.5	102.8	102.9	2.5	2.8	-0.3	-0.3	-19.3
GIW-02	9/10/2018 11:16	2.6	25.6	11.9	59.9	92.6	92.7	1.6	1.2	-0.2	-0.2	-19.0
GIW-02	9/10/2018 11:17	2.7	23.0	12.1	62.2	93.2	93.2	2.8	3.0	-0.3	-0.3	-19.1
GIW-02	9/19/2018 9:40	1.9	27.0	12.5	58.6	101.7	101.8	3.0	2.0	-0.3	-0.3	-19.0
GIW-02	9/19/2018 9:41	2.0	21.1	13.0	63.9	103.8	103.8	2.0	2.0	-0.3	-0.3	-19.0
GIW-02	9/24/2018 13:49	3.2	24.1	11.4	61.3	91.2	91.3	2.1	1.4	-0.2	-0.2	-20.1
GIW-02	9/24/2018 13:51	3.1	22.9	11.4	62.6	91.3	91.3	2.1	1.8	-0.2	-0.2	-20.2
GIW-03	9/6/2018 8:54	14.3	53.8	1.0	30.9	88.9	89.0	3.2	3.6	-4.3	-4.3	-14.7
GIW-03	9/6/2018 9:01	15.5	52.3	1.0	31.2	90.8	90.8	4.1	3.6	-4.4	-4.4	-13.6
GIW-03	9/10/2018 11:19	13.3	49.9	0.7	36.1	84.4	84.2	5.0	4.3	-5.1	-5.0	-13.5
GIW-03	9/19/2018 9:43	13.0	47.3	1.0	38.7	98.9	99.1	3.4	3.4	-5.8	-5.8	-13.3
GIW-03	9/24/2018 13:47	13.7	52.1	0.8	33.4	91.5	91.5	2.9	1.3	-5.4	-5.4	-13.6
GIW-04	9/6/2018 8:45	2.3	53.5	1.9	42.3	86.8	86.9	4.3	3.8	-1.9	-1.9	-14.7
GIW-04	9/6/2018 8:50	2.3	55.0	1.5	41.2	89.9	90.1	3.2	3.2	-2.0	-2.0	-16.1
GIW-04	9/10/2018 11:22	1.4	52.3	1.1	45.2	88.6	88.6	3.6	3.1	-1.8	-1.8	-15.7
GIW-04	9/19/2018 9:45	1.9	49.6	2.3	46.2	103.8	104.3	3.0	3.0	-3.4	-3.4	-15.6
GIW-04	9/24/2018 13:44	2.7	50.7	1.8	44.8	92.4	92.5	3.8	4.0	-3.1	-3.1	-17.7
GIW-05	9/6/2018 8:32	0.8	21.4	12.9	64.9	83.5	83.7	7.3	7.3	-0.4	-0.4	-16.2
GIW-05	9/6/2018 8:39	0.4	9.1	16.9	73.6	84.5	84.5	7.3	7.8	-0.4	-0.4	-16.1
GIW-05	9/10/2018 11:26	0.9	36.1	7.6	55.4	86.3	86.5	7.3	6.8	-0.5	-0.5	-15.2
GIW-05	9/10/2018 11:27	1.3	42.6	4.8	51.3	88.6		7.7	7.8	-0.7	-0.7	-15.1
GIW-05	9/19/2018 9:49	1.6	41.9	4.4	52.1	98.2	98.4	8.6	8.2	-0.8	-0.8	-16.5
GIW-05	9/24/2018 13:40	2.1	50.7	1.2	46.0	90.1	90.1	9.6	6.4	-0.4	-0.4	-17.2
GIW-06	9/5/2018 8:23	29.2	44.3	0.3	26.2	91.5	91.5	2.7	3.7	-9.3	-9.3	-17.1
GIW-06	9/5/2018 8:29	29.3	42.7	0.2	27.8	93.4	93.4	3.7	3.2	-9.3	-9.3	-16.9
GIW-06	9/10/2018 11:30	28.3	45.1	0.1	26.5	91.2	91.3	3.2	2.0	-9.8	-9.8	-14.6
GIW-06	9/19/2018 9:51	27.8	45.1	0.4	26.7	100.7	100.9	1.9	1.1	-9.7	-9.8	-16.2
GIW-06	9/24/2018 11:39	28.9	44.5	0.2	26.4	91.7	91.9	4.7	0.0	-10.3	-10.3	-17.7
GIW-07	9/5/2018 8:33	39.9	51.4	0.2	8.5	93.4	93.4	3.9	3.0	-3.0	-3.0	-15.8
GIW-07	9/5/2018 8:40	40.0	51.3	0.3	8.4	94.6	94.6	2.5	3.4	-2.9	-2.9	-15.9

September 2018 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-07	9/10/2018 11:33	40.0	51.6	0.1	8.3	93.4	93.6	4.4	4.1	-3.3	-3.2	-15.5
GIW-07	9/19/2018 9:55	39.4	52.2	0.1	8.3	101.1	101.1	2.8	2.8	-2.7	-2.7	-16.0
GIW-07	9/24/2018 11:36	39.2	52.0	0.2	8.6	91.7	91.9	4.1	3.6	-2.8	-2.8	-15.6
GIW-08	9/5/2018 8:43	44.1	48.7	0.1	7.1	100.1	100.1	2.2	2.5	-1.9	-1.9	-16.8
GIW-08	9/5/2018 8:50	44.2	48.9	0.1	6.8	101.1	101.1	2.2	2.2	-1.9	-1.9	-16.9
GIW-08	9/10/2018 11:36	43.0	50.2	0.0	6.8	96.0	96.2	4.1	4.5	-2.1	-2.1	-16.1
GIW-08	9/19/2018 9:57	43.7	50.8	0.0	5.5	104.0	104.2	3.9	3.4	-2.0	-2.0	-15.5
GIW-08	9/24/2018 11:31	42.4	48.6	0.0	9.0	89.6	89.8	5.0	3.4	-2.0	-2.0	-16.6
GIW-09	9/5/2018 9:50	11.4	26.6	5.1	56.9	98.4	98.4	2.0	2.0	-1.0	-0.9	-14.8
GIW-09	9/5/2018 9:56	11.6	25.6	5.0	57.8	99.9	99.9	2.5	1.6	-0.9	-1.0	-15.5
GIW-09	9/10/2018 11:41	9.4	27.9	4.8	57.9	88.2	88.4	1.2	1.6	-1.0	-1.0	-14.3
GIW-09	9/19/2018 10:01	12.2	32.1	1.7	54.0	97.0	97.4	6.6	1.1	-1.0	-1.0	-16.4
GIW-09	9/24/2018 11:28	13.6	31.1	1.6	53.7	86.8	86.9	2.0	0.0	-0.9	-0.9	-16.2
GIW-10	9/5/2018 14:23	13.9	37.8	0.1	48.2	102.5	102.5	2.7	2.5	-3.2	-3.2	-17.6
GIW-10	9/5/2018 14:29	13.8	37.9	0.0	48.3	101.8	101.8	1.9	1.6	-3.2	-3.2	-17.7
GIW-10	9/10/2018 11:09	11.7	38.6	0.0	49.7	85.5	85.6	2.6	4.0	-3.5	-3.5	-16.2
GIW-10	9/19/2018 9:34	12.2	38.0	0.0	49.8	94.3	94.3	2.0	2.0	-3.7	-3.7	-16.0
GIW-10	9/24/2018 13:36	13.7	37.6	0.0	48.7	96.5	96.7	2.1	1.3	-3.6	-3.6	-17.0
GIW-11	9/5/2018 11:02	21.6	40.1	0.5	37.8	100.8	100.8	5.1	3.4	-2.3	-2.2	-14.1
GIW-11	9/5/2018 11:08	21.5	40.6	0.4	37.5	102.1	102.0	2.7	4.6	-2.2	-2.2	-16.3
GIW-11	9/10/2018 11:06	19.0	40.6	0.2	40.2	86.1	86.1	4.3	3.0	-2.2	-2.2	-17.4
GIW-11	9/19/2018 9:32	18.2	40.3	0.3	41.2	99.4	99.3	2.0	2.0	-2.4	-2.4	-15.1
GIW-11	9/24/2018 13:33	18.7	40.9	0.4	40.0	98.2	98.2	2.9	4.7	-2.3	-2.3	-17.4
GIW-12	9/5/2018 11:23	12.6	51.0	1.4	35.0	96.7	96.7	2.5	2.8	-0.1	-0.1	-17.4
GIW-12	9/5/2018 11:30	12.7	51.2	1.4	34.7	96.0	96.0	1.6	2.3	-0.1	-0.1	-17.3
GIW-12	9/10/2018 11:01	11.3	46.8	1.8	40.1	78.9	78.9	4.3	4.4	-0.2	-0.2	-17.6
GIW-12	9/19/2018 9:27	11.8	44.6	3.1	40.5	94.8	95.0	2.8	2.3	-0.2	-0.2	-17.2
GIW-12	9/24/2018 13:30	12.1	49.5	1.3	37.1	94.3	94.6	3.1	2.1	-0.1	-0.1	-18.5
GIW-13	9/5/2018 13:36	32.0	52.1	0.1	15.8	99.2	99.1	4.2	3.0	-1.3	-1.3	-14.1
GIW-13	9/5/2018 13:42	31.5	52.9	0.1	15.5	98.9	98.9	1.6	3.2	-1.2	-1.2	-12.7
GIW-13	9/10/2018 10:58	32.6	49.6	0.0	17.8	86.8	87.0	4.2	3.1	-1.4	-1.4	-11.2
GIW-13	9/19/2018 9:25	34.2	49.3	0.0	16.5	93.9	94.1	4.0	4.3	-1.4	-1.4	-11.4
GIW-13	9/24/2018 13:27	34.1	50.7	0.1	15.1	91.2	91.3	1.4	2.7	-1.4	-1.4	-12.5
LCS-1D	9/14/2018 10:10	38.1	25.5	7.2	29.2	114.8	114.7	8.0	10.3	-18.0	-18.1	-17.5
LCS-1D	9/14/2018 10:12	38.2	25.3	7.2	29.3	114.8	114.8	3.0	5.0	-17.6	-17.9	-17.8
LCS-2D	9/14/2018 9:30	56.9	40.5	0.0	2.6	94.8	94.8	2.7	2.2	-18.6	-18.9	-19.0
LCS-3D	9/14/2018 9:35	0.6	7.3	19.2	72.9	98.6	98.9	3.8	3.8	-11.7	-11.7	-19.0
LCS-3D	9/14/2018 9:36	0.2	2.3	20.1	77.4	101.4	101.4	2.2	1.9	-9.6	-9.6	-19.2
LCS-5A	9/5/2018 9:09	54.9	40.2	0.3	4.6	98.4	98.4	9.5	8.7	-11.2	-11.2	-12.7
LCS-5A	9/10/2018 13:48	55.6	40.6	0.2	3.6	98.4	98.6	8.3	8.3	-10.8	-10.8	-12.7
LCS-5A	9/17/2018 13:44	55.1	40.7	0.3	3.9	104.8	104.8	7.8	7.4	-10.5	-10.3	-12.7
LCS-5A	9/24/2018 9:57	56.0	40.6	0.4	3.0	89.1	89.1	5.9	7.5	-11.8	-11.8	-12.5

September 2018 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		
LCS-5B	9/5/2018 9:38	52.5	41.0	0.1	6.4	148.9	149.2	28.8	25.4	-1.7	-1.8	-11.4
LCS-5B	9/5/2018 9:39	52.6	41.2	0.1	6.1	149.2	149.4	22.7	27.8	-1.6	-1.6	-12.2
LCS-5B	9/10/2018 14:00	52.8	41.8	0.0	5.4	148.7	148.6	30.4	25.7	-1.5	-1.5	-11.3
LCS-5B	9/10/2018 14:01	52.8	41.7	0.0	5.5	148.8	148.8	29.2	29.2	-1.6	-1.6	-12.2
LCS-5B	9/20/2018 15:52	41.7	31.4	4.6	22.3	102.8	102.7	10.7	7.2	-11.8	-11.8	-12.8
LCS-5B	9/27/2018 9:32	55.0	41.8	0.0	3.2	147.3	147.3	18.2	19.7	-7.2	-7.2	-12.8
LCS-5B	9/27/2018 9:34	54.8	41.5	0.0	3.7	148.0	148.0	24.4	22.2	-5.2	-5.1	-12.9
LCS-6B	9/6/2018 11:36	51.9	40.6	0.2	7.3	115.0	115.5	8.2	8.2	-2.4	-2.4	-12.4
LCS-6B	9/6/2018 11:38	51.9	41.0	0.2	6.9	114.8	114.8	2.6	6.9	-2.2	-2.2	-12.2
LCS-6B	9/12/2018 8:52	53.8	40.2	0.5	5.5	107.5	107.5	6.4	6.0	-2.1	-2.1	-12.7
LCS-6B	9/19/2018 8:20	54.9	40.7	0.5	3.9	106.7	106.7	5.9	2.7	-1.8	-1.8	-12.8
LCS-6B	9/24/2018 9:44	55.3	40.8	0.5	3.4	93.9	94.1	3.8	2.7	-1.5	-1.5	-13.0
SEW-002	9/13/2018 10:41	12.9	53.8	0.9	32.4	95.8	95.8	9.0	5.4	-0.1	-0.1	-17.4
SEW-003	9/13/2018 10:34	3.4	43.4	6.2	47.0	116.6	116.6	10.0	9.4	-0.2	-0.2	-19.2
SEW-003	9/13/2018 10:35	3.2	44.7	6.1	46.0	116.3	116.3	8.5	8.5	-0.2	-0.2	-19.2
SEW-003	9/28/2018 10:24	5.7	52.4	3.3	38.6	109.0	108.8	8.9	8.7	-0.2	-0.2	-19.2
T-56	9/7/2018 8:39	54.5	37.4	0.0	8.1	80.5	81.6	11.1	11.7	-0.02	-0.01	-13.3
T-56	9/12/2018 9:31	51.6	36.0	0.0	12.4	77.4	77.3	14.5	11.5	-0.04	-0.02	-13.8
T-56	9/19/2018 8:35	54.9	37.9	0.0	7.2	79.8	80.0	12.4	12.2	-0.01	-0.01	-13.3
T-56	9/24/2018 8:33	55.9	37.9	0.0	6.2	78.4	78.5	16.9	16.2	-0.01	-0.01	-13.4

---



**ATTACHMENT D-2**

**MAXIMUM WELLHEAD TEMPERATURE TABLE**

---






## Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	June 2018	July 2018	August 2018	September 2018	><30°F	
GEW-002	116.0	118.6	116.9	116.3		
GEW-003	116.8	117.6	115.1	116.0		
GEW-004	117.4	118.4	115.8	115.3		
GEW-005	90.8	97.9	95.5	91.7		
GEW-006	89.0	92.9	92.0	89.4		
GEW-007	96.7	96.1	100.6	100.1		
GEW-008	114.9	114.5	115.8	116.3		
GEW-009	125.0	125.0	126.1	126.4		
GEW-010	105.2	107.7	98.7	104.3		
GEW-013A	159.0	159.2	195.0	190.7		
GEW-015	104.1	97.4	96.2	87.5		
GEW-016R	179.7	178.0	178.6	177.5		
GEW-018B	176.9	174.3	181.5	170.2		
GEW-022R	90.4	106.0	92.2	100.1		
GEW-038	113.0	113.9	111.5	98.2		
GEW-039	120.5	119.3	118.1	117.9		
GEW-040	94.8	101.8	92.4	104.5		
GEW-041R	101.8	106.0	104.8	103.4		
GEW-042R	107.8	109.7	110.0	110.7		
GEW-043R	124.2	125.3	124.4	124.7		
GEW-044	101.4	104.0	103.8	104.3		
GEW-045R	100.1	97.9	100.8	101.3		
GEW-046R	102.2	102.3	101.5	101.1		
GEW-047R	111.5	114.5	113.5	111.4		
GEW-048	102.3	104.6	103.6	102.1		
GEW-049	107.5	109.2	108.6	110.2		
GEW-050	107.0	106.5	108.2	108.7		
GEW-051	123.6	124.6	126.9	125.3		
GEW-052	114.0	113.2	116.3	115.8		
GEW-053	143.4	143.9	144.2	143.2		
GEW-054	144.2	144.5	142.9	142.7		
GEW-055	135.0	135.9	132.6	133.2		
GEW-056R	124.5	123.4	125.8	127.5		
GEW-057B	200.1	185.1	188.9	90.5		
GEW-057R	98.7	100.1	102.2	103.0		
GEW-058	106.9	94.8	99.9	101.6		
GEW-058A	106.5	95.0	100.4	99.2		
GEW-059R	166.1	164.7	165.8	165.3		
GEW-067A	118.6	130.5	114.1	81.2		





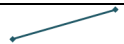

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	June 2018	July 2018	August 2018	September 2018	><30°F	
GEW-068A	196.4	199.3	200.0	199.3		
GEW-077	--	--	108.6	--		
GEW-078R	159.0	156.5	157.7	159.8		
GEW-081	89.1	109.5	92.8	97.9		
GEW-082R	175.8	195.7	176.4	177.7		
GEW-086	103.0	114.0	108.7	97.4		
GEW-087	139.3	135.7	126.9	131.4		
GEW-088	196.4	192.9	195.0	193.6		
GEW-090	167.1	167.6	181.5	197.9		
GEW-091	195.0	192.8	194.3	196.4		
GEW-100	103.3	104.1	86.1	91.2		
GEW-101	108.5	111.0	117.1	119.4		
GEW-102	103.3	87.7	84.0	99.1		
GEW-104	193.5	162.4	202.3	194.3		
GEW-105	156.5	145.6	140.2	147.7		
GEW-106	109.2	194.0	179.7	186.2		
GEW-107	139.9	173.6	173.1	162.3		
GEW-108	148.0	143.9	143.9	147.0		
GEW-109	137.1	132.3	135.3	125.8		
GEW-110	115.8	118.1	108.0	118.4		
GEW-113	152.1	150.4	150.2	150.2		
GEW-116	193.7	191.4	191.0	188.3		
GEW-117	124.5	118.3	125.6	118.6		
GEW-118	192.3	197.2	197.3	196.4		
GEW-120	157.7	159.4	161.6	159.8		
GEW-121	173.1	174.8	174.9	175.3		
GEW-122	154.0	151.3	148.0	148.4		
GEW-123	154.4	130.3	140.9	152.5		
GEW-124	88.4	99.4	88.2	92.9		
GEW-125	179.2	179.9	176.4	174.7		
GEW-126	114.0	121.2	119.7	124.8		
GEW-127	179.2	177.7	178.0	173.6		
GEW-128	185.0	180.9	178.0	167.6		
GEW-129	185.5	194.0	170.5	180.3		
GEW-130	185.1	186.4	185.1	182.7		
GEW-131	131.2	156.7	154.7	152.5		
GEW-132	165.2	174.7	167.6	159.0		
GEW-133	168.8	167.1	166.6	174.2		
GEW-134	165.2	161.6	162.4	150.8		

## Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	June 2018	July 2018	August 2018	September 2018	><30°F	
GEW-135	153.7	152.5	152.9	158.5		
GEW-136	128.6	132.9	129.4	123.7		
GEW-137	108.5	114.3	113.7	108.3		
GEW-138	134.7	136.6	135.9	126.4		
GEW-139	187.0	185.1	192.9	188.9		
GEW-140	189.3	188.9	198.8	198.6		
GEW-141	109.0	102.9	101.1	97.4		
GEW-142	105.7	97.9	100.6	90.8		
GEW-143	108.5	107.0	97.2	96.7		
GEW-144	97.7	93.3	88.4	93.4		
GEW-145	123.4	118.6	113.2	105.0		
GEW-146	112.0	105.8	105.5	108.2		
GEW-147	154.8	181.5	157.7	179.2		
GEW-148	178.6	139.9	138.7	83.3		
GEW-149	141.9	119.7	133.4	126.9		
GEW-150	190.2	187.0	187.0	182.1		
GEW-151	100.8	183.1	130.3	112.7		
GEW-152	119.9	119.2	121.8	123.5		
GEW-153	108.5	106.0	107.7	89.8		
GEW-154	115.3	110.7	94.1	78.2		
GEW-155	129.4	120.2	115.5	117.9		
GEW-156	113.6	122.6	113.7	116.8		
GEW-157	135.5	124.2	119.0	146.5		
GEW-158	167.4	161.1	156.6	100.8		
GEW-159	98.2	89.8	97.9	88.4		
GEW-160	101.8	111.7	102.8	87.7		
GEW-161	98.7	156.5	130.1	103.2		
GEW-162	112.5	133.5	122.8	126.4		
GEW-163	170.5	166.7	167.1	169.0		
GEW-164	157.6	156.5	155.6	151.0		
GEW-165	179.8	178.0	175.8	174.7		
GEW-166	195.7	195.1	194.4	194.6		
GEW-167	191.5	190.2	190.9	187.6		
GEW-168	168.6	163.0	157.7	142.9		
GEW-169	187.6	187.0	185.7	183.9		
GEW-170	179.7	179.2	178.6	171.0		
GEW-171	162.9	100.9	137.7	89.8		
GEW-172	175.2	183.3	169.0	182.7		
GEW-173	120.7	128.9	131.7	121.0		

## Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	June 2018	July 2018	August 2018	September 2018	><30°F	
GEW-174	150.6	152.3	156.6	153.3		
GEW-175	157.7	176.1	146.7	162.4		
GEW-176	110.9	118.4	105.7	101.8		
GEW-177	195.0	190.9	195.7	186.4		
GEW-178	119.2	121.0	115.2	121.2		
GEW-179	140.8	140.0	137.4	141.9		
GEW-180	152.5	149.1	143.9	146.7		
GEW-181	158.5	160.2	159.8	166.1		
GEW-182	154.8	152.9	122.0	120.2		
GEW-184	122.9	128.7	115.3	116.6		
GEW-185	172.1	174.7	175.5	171.0		
GEW-186	145.8	146.3	137.6	133.2		
GEW-187	156.5	156.9	167.6	171.6		
GEW-188	130.2	135.0	114.0	117.3		
GEW-217	--	--	104.5	200.8		
GEW-218	--	--	124.5	120.5		
GEW-219	--	--	193.6	183.1		
GEW-220	--	--	110.2	204.7		
GEW-221	--	--	104.5	144.0		
GEW-222	--	--	192.3	175.3		
GEW-223	--	--	200.1	200.7		
GEW-224	--	--	113.2	175.3		
GEW-225	--	--	106.0	135.3		
GEW-226	--	--	143.5	200.8		
GEW-227	--	--	205.4	203.0		
GEW-228	--	--	200.8	202.3		
GEW-229	--	--	121.1	152.9		
GEW-230	--	--	174.7	174.8		
GEW-231	--	--	190.9	171.6		
GEW-1A	97.2	111.0	--	--		
GEW-2S	87.9	96.0	87.5	96.9		
GIW-01	174.2	173.1	172.1	171.0		
GIW-02	109.5	111.2	104.3	103.8		
GIW-03	104.6	106.2	98.4	98.9		
GIW-04	102.1	110.8	99.9	103.8		
GIW-05	101.3	104.0	97.2	98.2		
GIW-06	106.0	107.8	99.9	100.7		
GIW-07	103.3	109.0	99.6	101.1		
GIW-08	115.5	113.7	110.8	104.0		

## Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	June 2018	July 2018	August 2018	September 2018	><30°F	
GIW-09	108.5	107.2	106.8	99.9		
GIW-10	103.0	103.0	105.7	102.5		
GIW-11	106.1	105.7	101.6	102.1		
GIW-12	105.9	107.0	96.7	96.7		
GIW-13	102.4	108.3	99.6	99.2		
LCS-1D	139.4	80.0	86.1	114.8		
LCS-2D	88.8	71.6	81.4	94.8		
LCS-3D	89.5	72.3	82.3	101.4		
LCS-4B	--	--	--	--		
LCS-5A	103.3	106.2	102.1	104.8		
LCS-5B	148.8	150.6	150.9	149.2		
LCS-6B	107.8	112.1	118.9	115.0		
SEW-002	109.2	108.2	101.6	95.8		
SEW-003	123.1	126.0	122.9	116.6		
T-56	79.3	85.7	86.8	80.5		

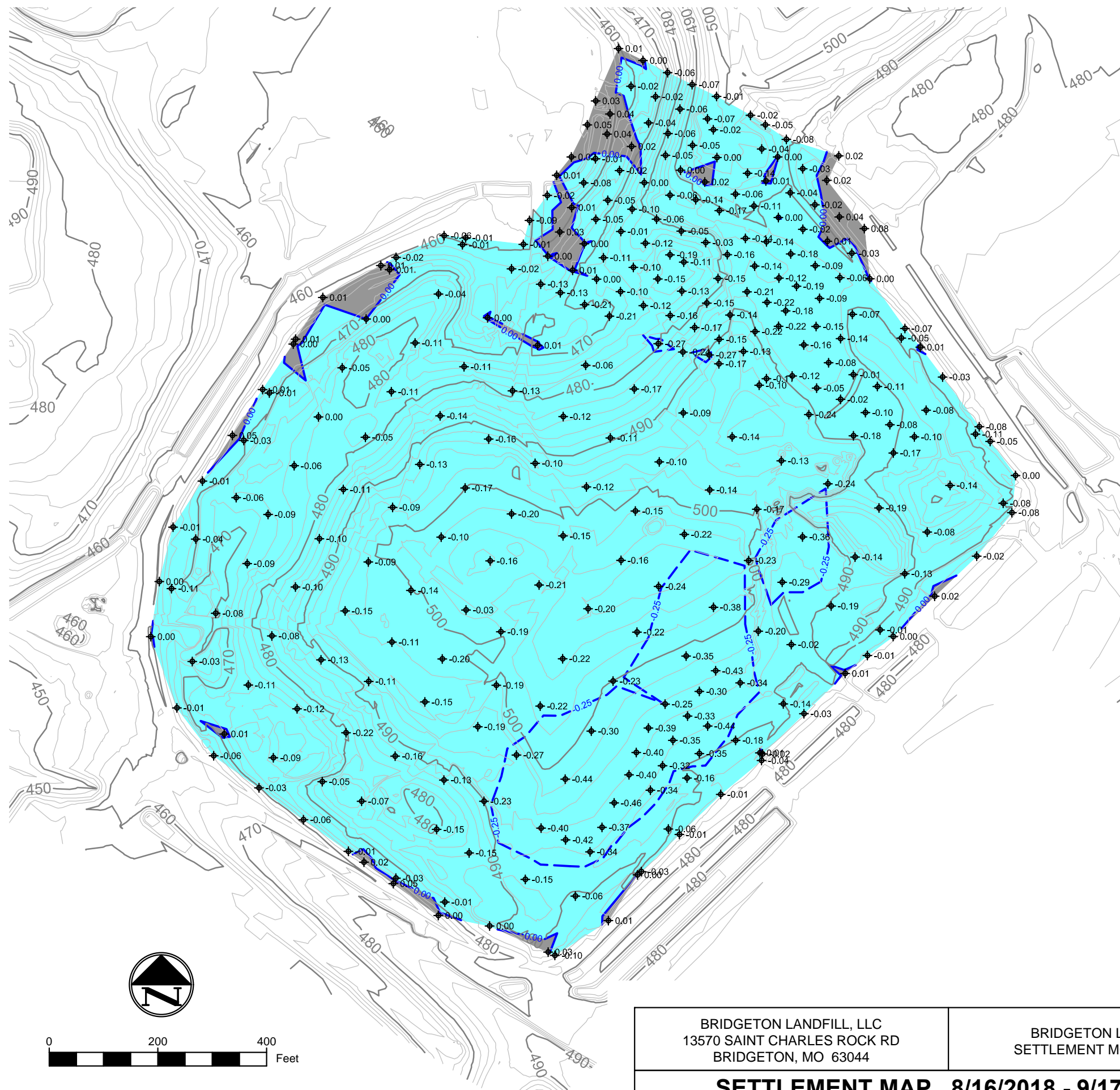
-- = Indicates no data available.

---

**ATTACHMENT E**

**SETTLEMENT FRONT MAP**

---



Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	
2	-4.00	-3.00	0.00	
3	-3.00	-2.00	0.00	
4	-2.00	-1.00	0.00	
5	-1.00	0.00	1,490,158.91	
6	0.00	1.00	47,517.17	

**LEGEND**

- 12-1-2017 TOPOGRAPHY (2' CONTOUR)
  - 500 12-2-2017 TOPOGRAPHY (10' CONTOUR)
  - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
  - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
  - 0.03 SPOT ELEVATION DIFFERENCE (78-16-2018 to 9-17-2018)
  - 9-2018 \*SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.44' PER 32 DAYS FOR CURRENT PERIOD OF DAYS
- \*NONE FOR SEPTEMBER 2018

**NOTES:**

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 1, 2017.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 8-16-18 FROM SPOT ELEVATIONS SURVEYED ON 9-17-18.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL SETTLEMENT MONITORING	 Engineering for a Better World <b>FEEZOR</b> ENGINEERING, INC.
<b>SETTLEMENT MAP 8/16/2018 - 9/17/2018</b>		SEPTEMBER 2018 DESIGNED BY: PML APPROVED BY: DRF
PROJECT NUMBER: BT-145   FILE PATH: C:\Users\pml\Dropbox (Feezor Engineering)\Bridgeton\100-1498BT-145 (Agreed Order Reporting)\Monthly Reports\09-2018 Report\Internal Drafts\Date\Settlement\Settlement And FA 9-17-2018.dwg		REVISION      DATE
		DRAWING NO.: <span style="font-size: 2em; font-weight: bold;">001</span>

---

**ATTACHMENT F**

**LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG**

---



## Bridgeton Landfill - Leachate PreTreatment Plant September 2018

### Liquid Characterization Data

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

#### Hauled Disposal to MSD – Bissell Point

Date	Waste	Source	Transporter	Quantity
9/1/2018				0
9/2/2018				0
9/3/2018				0
9/4/2018				0
9/5/2018				0
9/6/2018				0
9/7/2018				0
9/8/2018				0
9/9/2018				0
9/10/2018				0
9/11/2018				0
9/12/2018				0
9/13/2018				0
9/14/2018				0
9/15/2018	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
9/16/2018				0
9/17/2018				0
9/18/2018				0
9/19/2018				0
9/20/2018				0
9/21/2018				0
9/22/2018				0
9/23/2018				0
9/24/2018				0
9/25/2018				0
9/26/2018				0
9/27/2018				0
9/28/2018				0
9/29/2018				0
9/30/2018				0
<b>Total</b>				<b>0</b>

#### Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
9/1/2018			182,016
9/2/2018			190,896
9/3/2018			105,096
9/4/2018			190,384
9/5/2018			197,320
9/6/2018			193,304
9/7/2018			184,432
9/8/2018			176,592
9/9/2018			209,472
9/10/2018			197,984
9/11/2018			120,768
9/12/2018			117,208
9/13/2018			112,584
9/14/2018			111,728
9/15/2018	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	110,712
9/16/2018			201,336
9/17/2018			179,288
9/18/2018			171,440
9/19/2018			171,176
9/20/2018			168,728
9/21/2018			140,456
9/22/2018			77,096
9/23/2018			94,080
9/24/2018			120,952
9/25/2018			168,248
9/26/2018			160,080
9/27/2018			170,416
9/28/2018			185,296
9/29/2018			159,072
9/30/2018			151,792
<b>Total</b>			<b>4,719,952</b>

---

**ATTACHMENT G**

**VOLUMES OF LEACHATE PROCESSED**

---

**Bridgeton Landfill - Leachate Volumes**  
**September 2018**

Total volume of leachate from the individual leachate collection sumps during the month. Additional non-LCS leachate was collected and the total volume was 1,589,636 gallons. Therefore, the total leachate collected was 2,103,864 gallons.

<b>ID</b>	<b>Volume</b>
LCS -1D	0
LCS-2D	0
LCS-3D	174,140
LCS-4B	0
LCS-5A	305,152
LCS-5B	34,528
LCS-6B	408