

Bridgeton Landfill, LLC

Monthly Data Submittals

October 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
Attachment H	Slip Failure and Separation Assessment

Provided Separately:

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

November 20, 2018

Commentary on Data

November 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 300 SCFM from the North Quarry and 889 SCFM from the South Quarry, for a total site flow of 1,189 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 29 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, 23 of the GEW wells, 2 of the LCS, and 2 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. Five (5) vertical wells (excluding GIW wells) increased by 30°F or more during this reporting period. Additionally, fifteen (15) vertical wells (excluding GIW wells) decreased by 30°F or more. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period, with the exception of GEW-054 (145.9 F). Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (74 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. This investigation started in the Third Quarter of 2018. The site has abandoned several wells (see Attachment B) and will continue with the abandonment activities into the Fourth Quarter.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 0.45 feet over 28 days during this reporting period (see Attachment E).
- The North Quarry exhibited quarterly maximum settlement up to 0.31 feet over 92 days during this report 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 and Separation Assessment

- The third quarter Slip Failure and Separation Assessment was submitted on 10/30/18. The inspection was completed by P.J. Carey of P.J. Carey & Associates, P.C. on September 19th, 2018. The report is included in this monthly submittal.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

FLOW DATA TABLE

Daily Flare Monitoring Data - Bridgeton Landfill
October 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***	
10/1/2018	0	992	0	201	1,193
10/2/2018	0	954	0	255	1,209
10/3/2018	0	955	0	260	1,215
10/4/2018	0	912	0	265	1,176
10/5/2018	0	937	0	263	1,200
10/6/2018	0	916	0	258	1,174
10/7/2018	0	343	33	233	609
10/8/2018	552	140	0	302	993
10/9/2018	0	947	0	318	1,265
10/10/2018	0	915	0	309	1,224
10/11/2018	0	901	0	297	1,198
10/12/2018	0	886	0	304	1,190
10/13/2018	0	883	0	302	1,185
10/14/2018	0	1,016	0	304	1,320
10/15/2018	0	943	0	300	1,243
10/16/2018	0	884	0	313	1,197
10/17/2018	0	903	0	313	1,216
10/18/2018	0	902	0	318	1,221
10/19/2018	0	892	0	320	1,213
10/20/2018	0	893	0	316	1,209
10/21/2018	0	899	0	324	1,224
10/22/2018	0	910	0	324	1,234
10/23/2018	0	897	0	322	1,219
10/24/2018	0	909	0	327	1,236
10/25/2018	0	896	0	326	1,223
10/26/2018	0	868	0	322	1,190
10/27/2018	0	881	0	325	1,206
10/28/2018	0	886	0	321	1,208
10/29/2018	0	912	0	325	1,237
10/30/2018	0	918	0	322	1,240
10/31/2018	0	878	0	312	1,190
AVERAGE	18	870	1	300	1,189

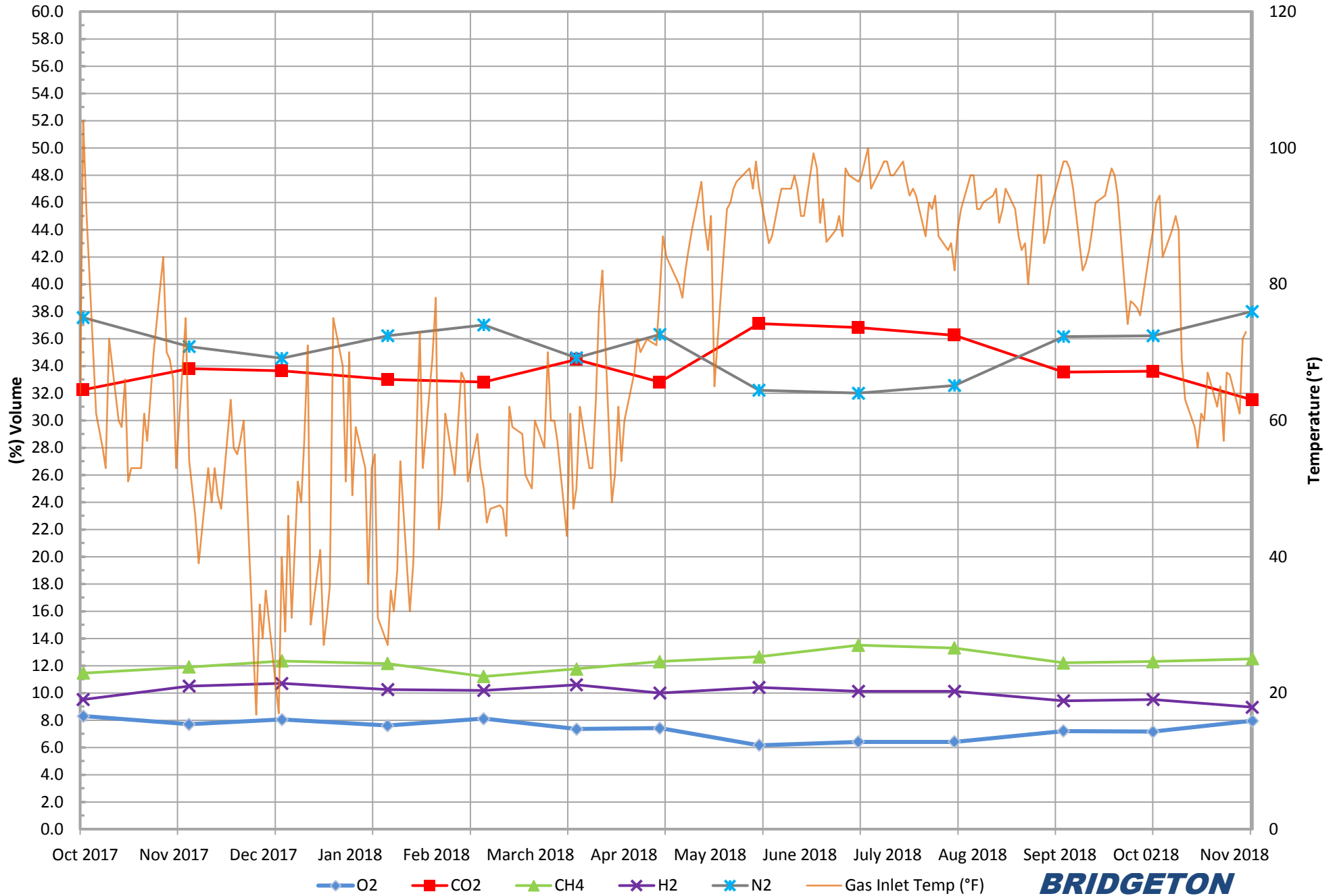
* Flows normalized to **Blower Outlet Flowmeter - EPA Method 2 measurement verified

*** On 3/18/2016, the Bridgeton Landfill began separating the North Quarry gas to the Auxiliary Flare.

ATTACHMENT A-2

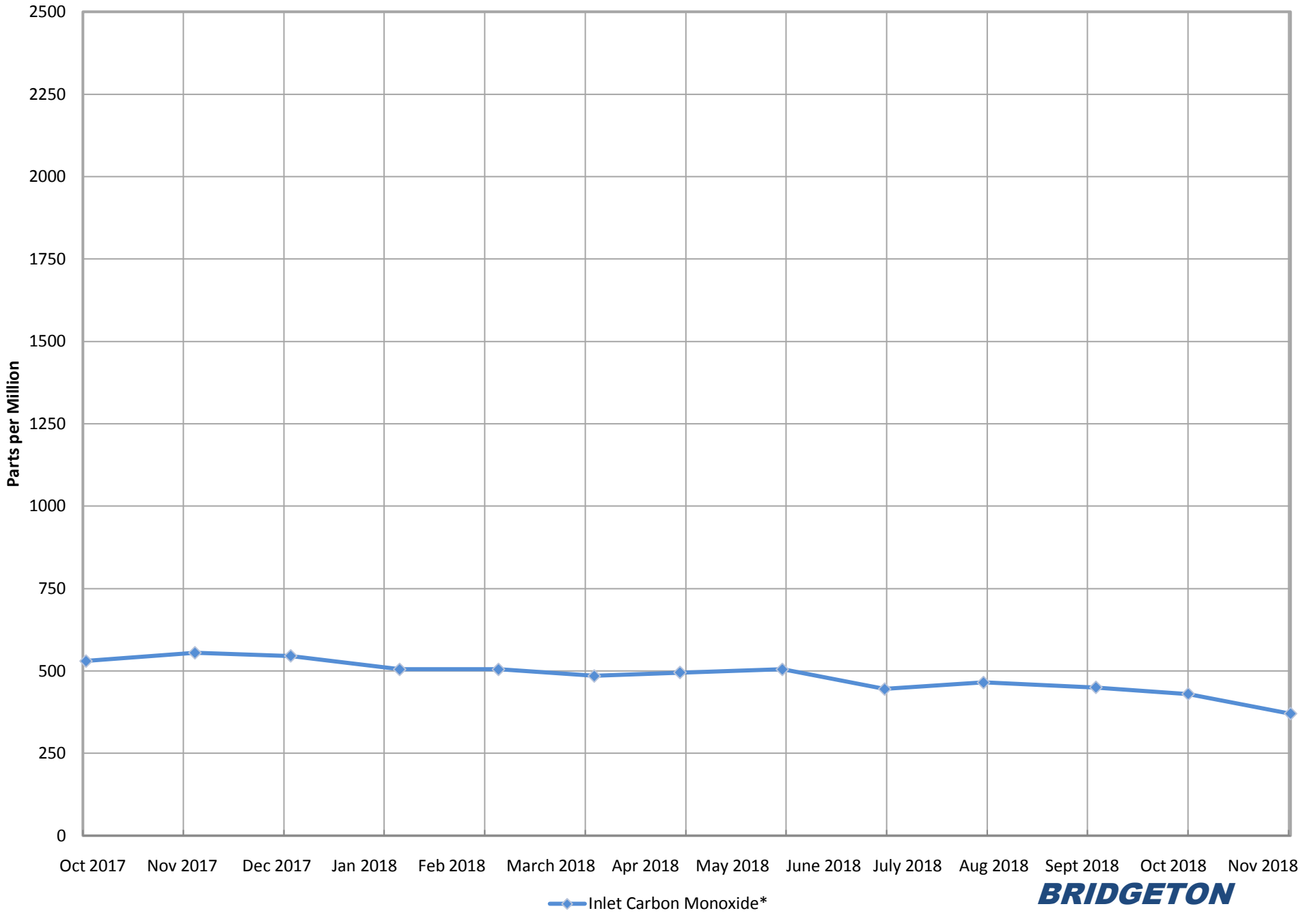
FLOW DATA GRAPHS

South Quarry Inlet Gas and Temperature*



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

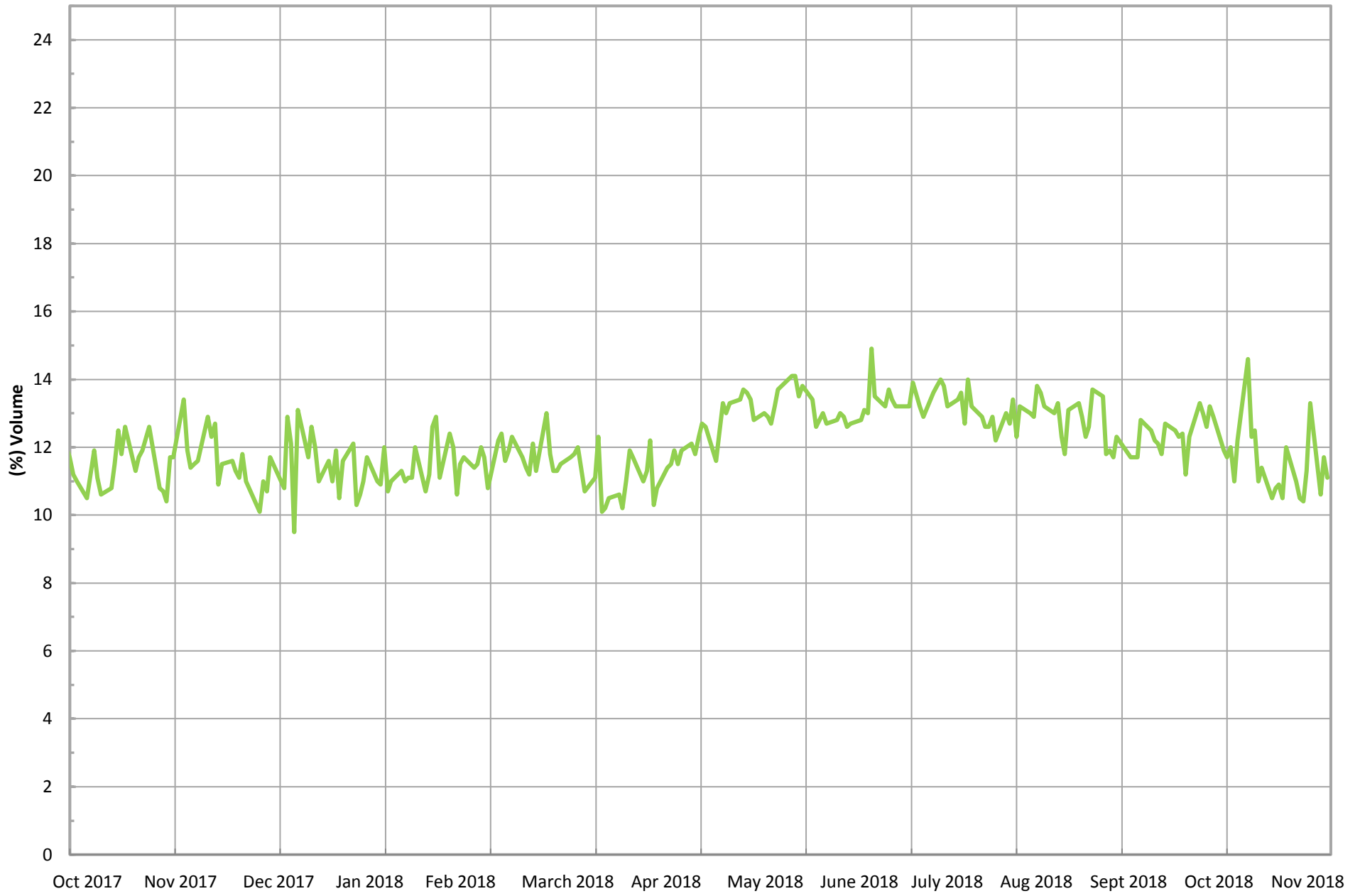
South Quarry Inlet Carbon Monoxide*



*Data collected from Laboratory Reports for the South Quarry.

**BRIDGETON
LANDFILL**

South Quarry Inlet Methane (Field Data)*

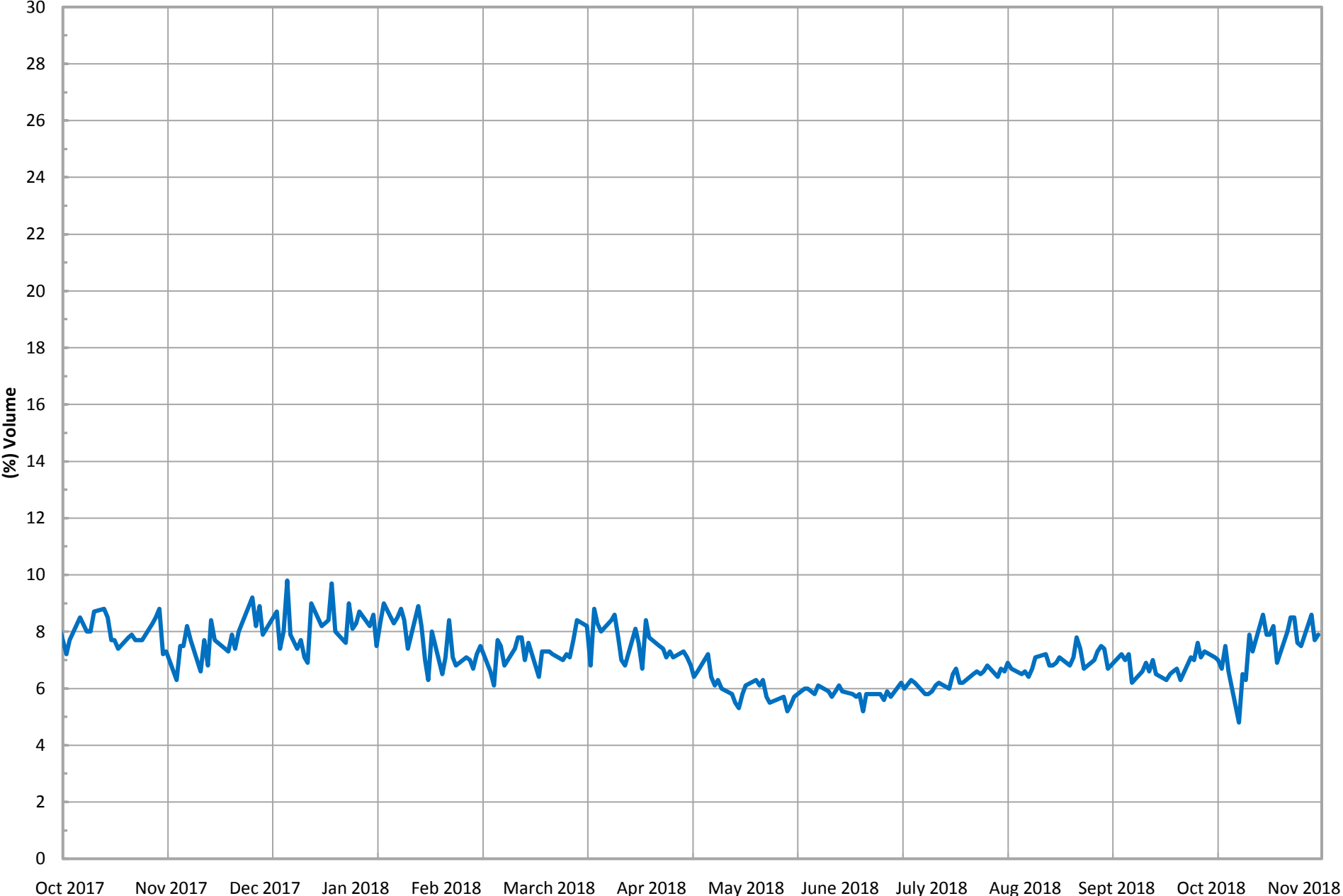


*Gas data collected from field monitoring data in the South Quarry.

— Combined Inlet Methane (Field Data)*

**BRIDGETON
LANDFILL**

South Quarry Inlet Oxygen (Field Data)*

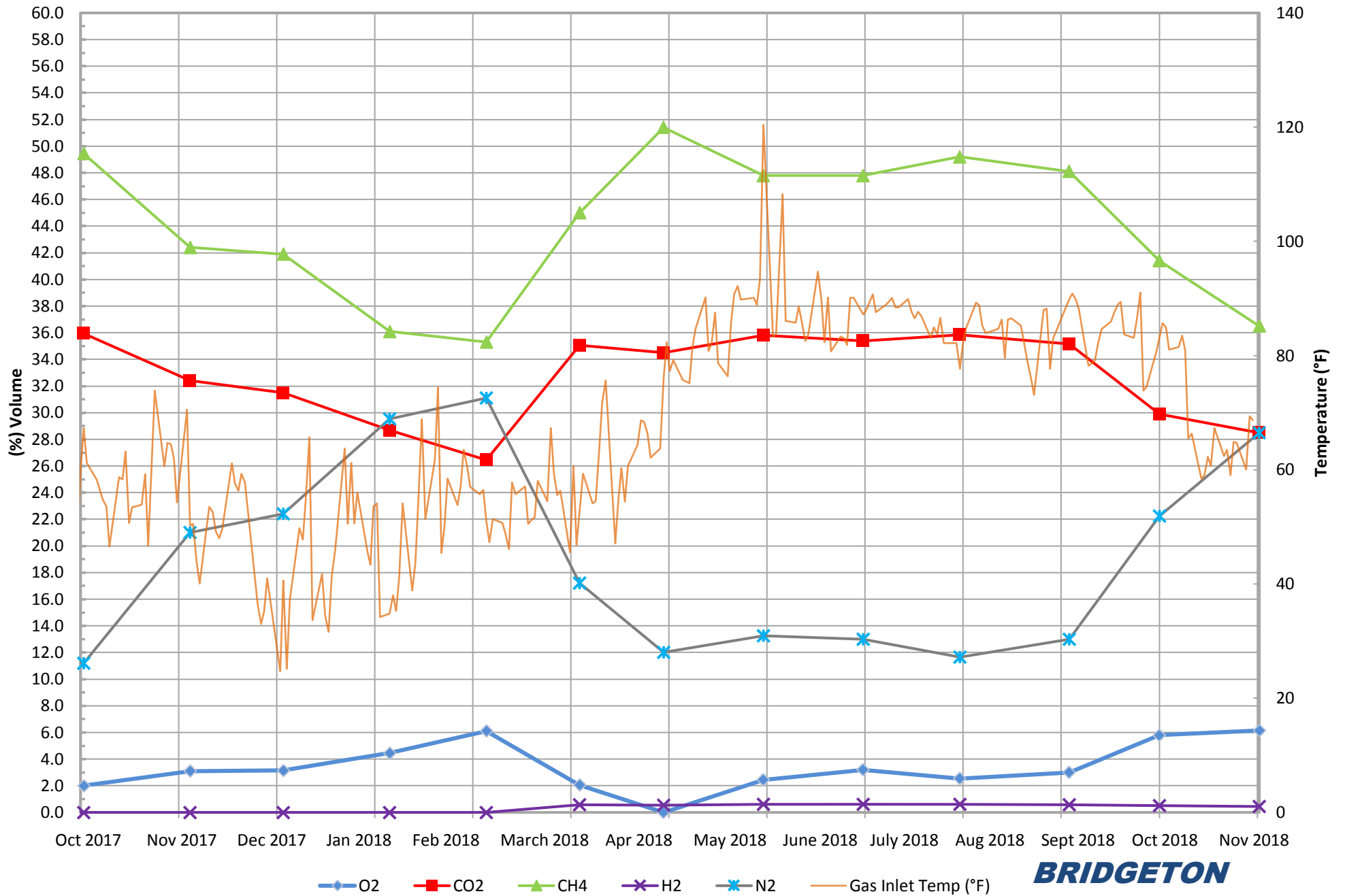


*Gas data collected from field monitoring data in the South Quarry.

— Combined Inlet Oxygen (Field Data)*

**BRIDGETON
LANDFILL**

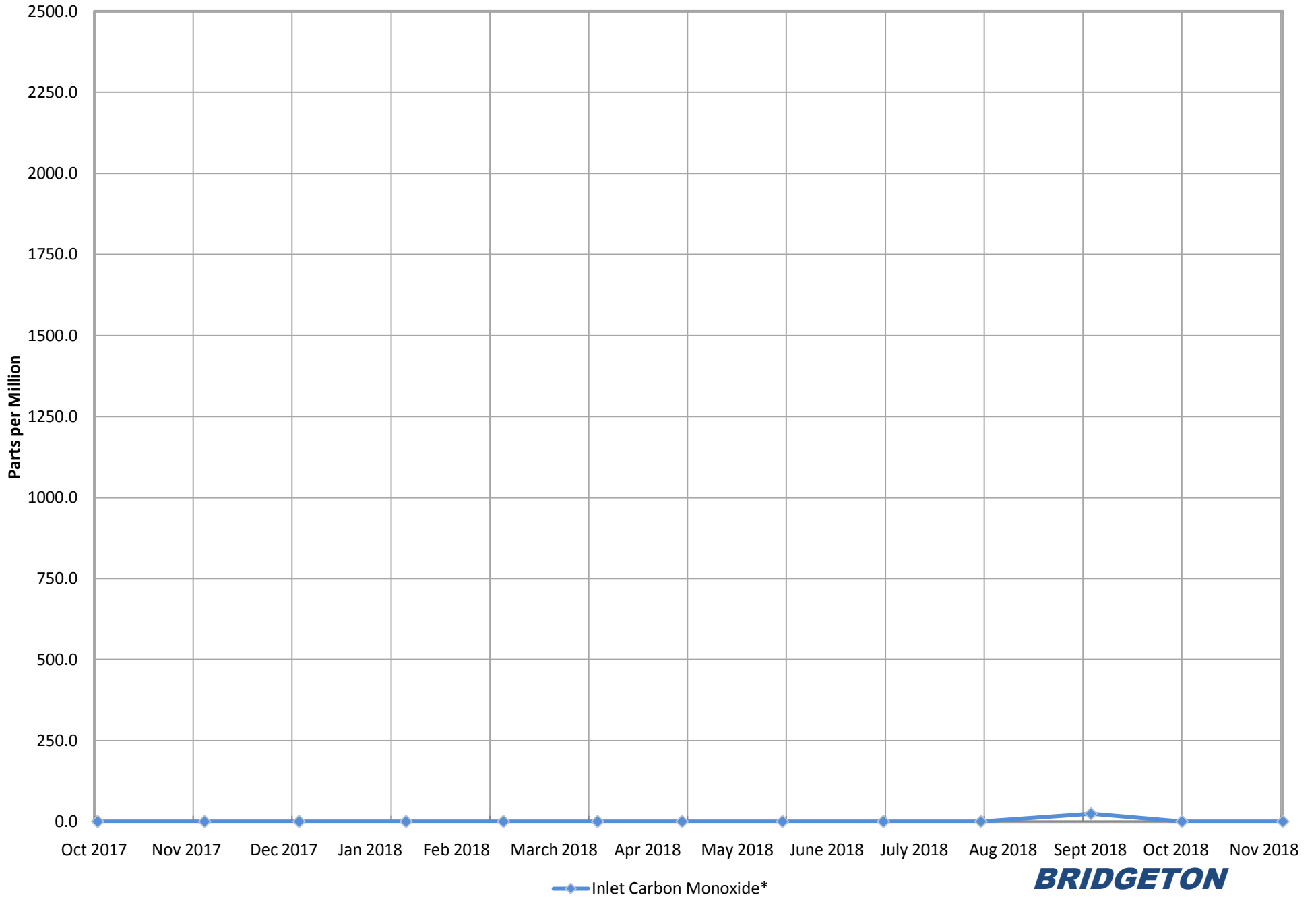
North Quarry Inlet Gas and Temperature*



**BRIDGETON
LANDFILL**

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

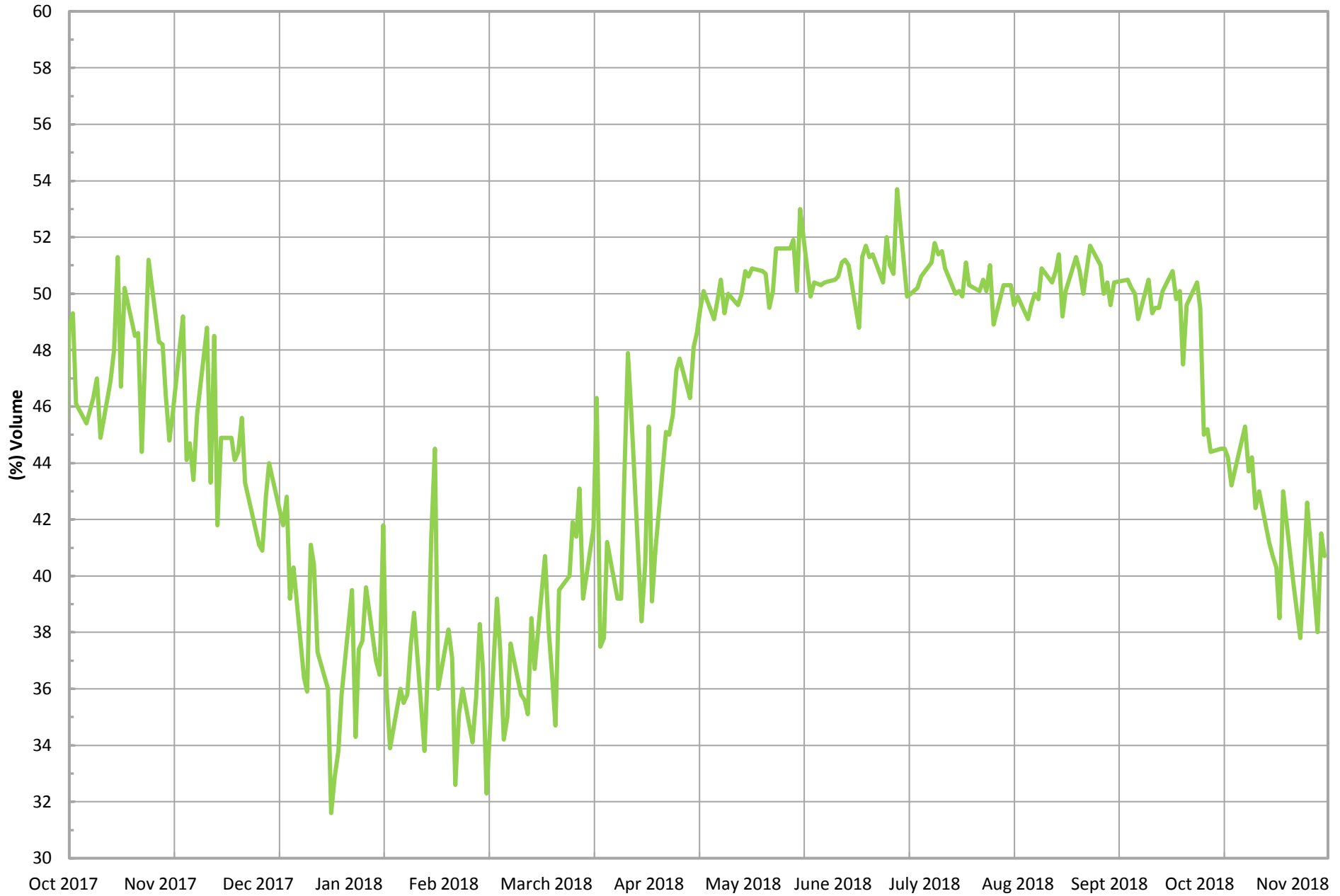
North Quarry Inlet Carbon Monoxide*



*Data collected from Laboratory Reports for the North Quarry.

**BRIDGETON
LANDFILL**

North Quarry Inlet Methane (Field Data)*

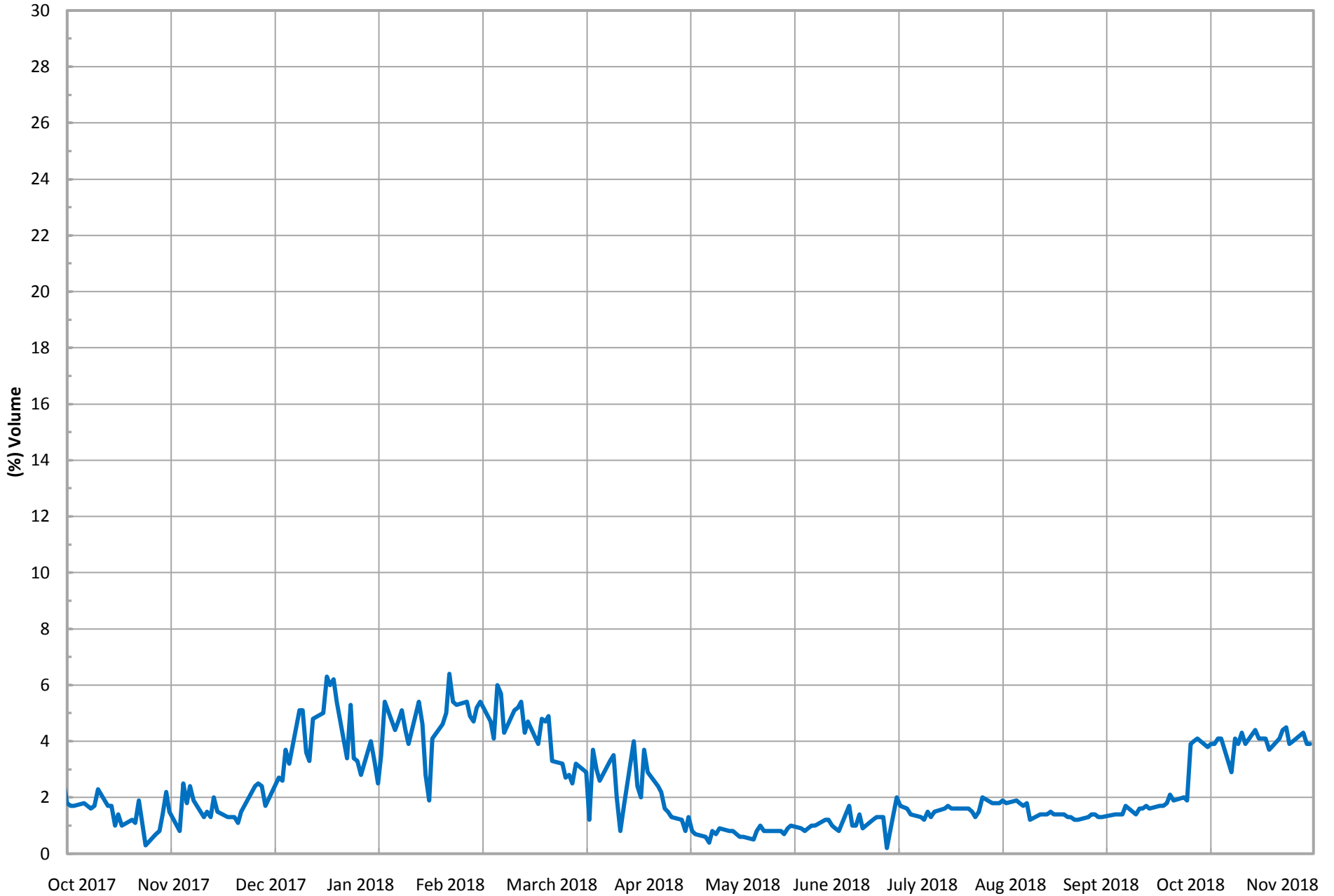


*Gas data collected from field monitoring data in the North Quarry.

— Combined Inlet Methane (Field Data)*

**BRIDGETON
LANDFILL**

North Quarry Inlet Oxygen (Field Data)*

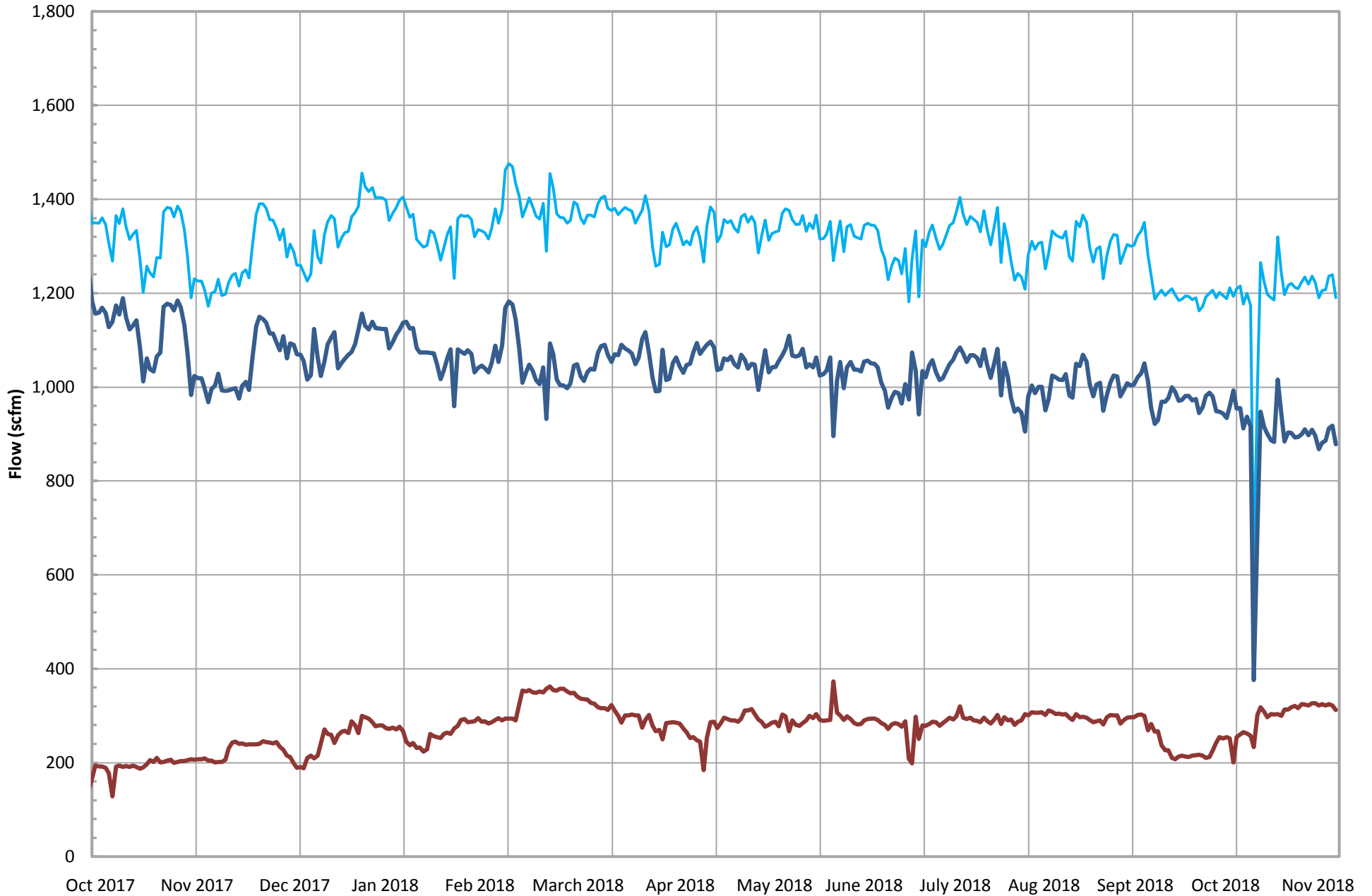


*Gas data collected from field monitoring data in the North Quarry.

— 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

October 2018

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

October 2018

ID	Well Condition	Comments
GEW-81	Non-Operational	Abandoned
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	Non-Operational	Decommissioned
GEW-137	Operational	
GEW-138	Operational	
GEW-139	Operational	
GEW-140	Operational	
GEW-141	Non-Operational	Decommissioned
GEW-142	Non-Operational	Decommissioned

October 2018

ID	Well Condition	Comments
GEW-143	Non-Operational	Decommissioned
GEW-144	Operational	
GEW-145	Operational	
GEW-146	Non-Operational	Decommissioned
GEW-147	Operational	
GEW-148	Operational	
GEW-149	Operational	
GEW-150	Operational	
GEW-151	Operational	
GEW-152	Operational	
GEW-153	Operational	
GEW-154	Non-Operational	Decommissioned
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	

October 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 ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
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-002	10/4/2018	48	35	3.7	14	ND	ND	See Note 3
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-02S	10/4/2018	59	36	ND	4.2	ND	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-003	10/4/2018	49	38	ND	12	ND	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-004	10/4/2018	57	40	ND	ND	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-005	10/5/2018	55	36	ND	8.4	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-006	10/5/2018	57	37	ND	4.4	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-007	10/2/2018	58	39	ND	ND	ND	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-008	10/4/2018	54	43	ND	ND	0.048	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-009	10/4/2018	53	40	ND	4.9	0.46	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-040	10/4/2018	59	37	ND	3.9	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-041R	10/4/2018	60	37	ND	ND	ND	ND	
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	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-042R	10/4/2018	50	34	3.5	12	ND	ND	See Note 3
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-043R	10/4/2018	56	41	ND	ND	0.20	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-044	10/4/2018	56	38	ND	4.7	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-045R	10/4/2018	57	41	ND	ND	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-046R	10/4/2018	57	39	ND	3.3	ND	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-047R	10/5/2018	55	40	ND	3.7	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-048	10/5/2018	58	39	ND	ND	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-049	10/4/2018	57	40	ND	ND	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-050	10/2/2018	57	38	ND	3.8	ND	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-051	10/4/2018	56	40	ND	ND	0.76	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-052	10/2/2018	56	39	ND	4.1	ND	ND	
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	
GEW-053	10/4/2018	52	42	ND	ND	3.7	74	
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-054	10/4/2018	54	41	ND	ND	2.1	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
		(%)						
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	
GEW-055	10/4/2018	53	42	ND	ND	2.3	ND	
Flare Station ²	6/1/2018	47.8	35.8	2.5	13.3	0.6	ND	See Note 5
Flare Station ²	7/2/2018	47.8	35.4	3.2	13.0	0.6	ND	See Note 5
Flare Station ²	8/1/2018	49.2	35.9	2.6	11.7	0.6	ND	See Note 5
Flare Station ²	9/4/2018	48.1	35.2	3.0	13.0	0.6	24.0	See Note 5
Flare Station ²	10/2/2018	41.4	29.9	5.8	22.3	0.5	ND	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.

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

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
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-010	10/4/2018	53	41	ND	4.4	0.38	ND	
GEW-013A	7/5/2018	10	40	5.2	33	11	450	See Note 3
GEW-013A	10/5/2018	4.2	32	11	41	12	370	See Note 3
GEW-015	7/11/2018	0.43	46	ND	ND	50	2,400	
GEW-015	10/11/2018	0.28	31	8.1	28	32	1,600	See Note 3
GEW-016R	7/11/2018	6.3	43	ND	24	25	1,000	
GEW-016R	10/11/2018	3.7	18	14	54	10	430	See Note 3
GEW-018B	7/17/2018	0.63	40	4.1	17	37	1,400	
GEW-018B	10/11/2018	1.2	16	15	53	15	510	See Note 4
GEW-22R	10/12/2018	1.7	33	9.4	33	23	1,100	See Note 3
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-038	10/4/2018	19	36	6.4	22	16	590	See Note 4
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-039	10/4/2018	17	21	11	51	ND	ND	See Note 3
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-056R	10/4/2018	40	39	2.2	9.2	9.9	200	
GEW-057B	7/11/2018	1.0	52	ND	ND	43	1,400	
GEW-057B	10/10/2018	1.2	49	3.1	11	35	920	
GEW-058	7/11/2018	20	39	ND	26	12	530	
GEW-058A	7/11/2018	3.9	36	4.5	25	30	1,000	
GEW-058A	10/5/2018	1.3	45	2.4	10	40	1,500	
GEW-059R	7/11/2018	20	40	ND	6.7	31	890	
GEW-059R	10/5/2018	25	39	ND	8.2	26	730	
GEW-067A	7/5/2018	6.4	32	2.5	52	6.4	95	
GEW-067A	10/5/2018	4.6	39	2.7	26	26	420	
GEW-068A	7/12/2018	8.1	54	ND	ND	33	2,100	
GEW-068A	10/10/2018	11	54	ND	6.4	27	1,500	
GEW-078R	7/12/2018	4.2	31	ND	48	15	490	
GEW-078R	10/11/2018	4.1	12	14	63	6.4	200	See Note 3
GEW-081	7/12/2018	0.29	22	12	44	20	610	See Note 4
GEW-082R	7/12/2018	0.81	47	ND	3.8	46	1,500	
GEW-082R	10/11/2018	9.5	34	2.0	30	24	790	
GEW-086	7/5/2018	19	41	1.9	31	7.0	130	
GEW-086	10/5/2018	17	32	5.7	37	7.7	160	See Note 3
GEW-087	7/11/2018	4.0	24	4.6	61	5.6	180	
GEW-087	10/5/2018	2.3	12	14	70	1.1	79	See Note 4
GEW-088	7/17/2018	10.0	43	1.7	19	24	610	
GEW-088	10/5/2018	2.4	40	2.9	13	40	1,000	
GEW-090	7/5/2018	19	43	ND	9.3	27	690	
GEW-090	10/5/2018	24	43	ND	4.6	27	860	
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	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-091	9/6/2018	2.7	46	2.0	6.9	40	460	
GEW-091	10/5/2018	2.6	43	3.2	12	38	460	
GEW-100	7/12/2018	0.89	40	7.7	27	22	560	See Note 3
GEW-100	10/10/2018	1.1	56	2.4	8.3	31	790	
GEW-101	7/12/2018	17	43	7.6	29	2.9	300	See Note 4
GEW-101	10/10/2018	22	62	2.3	9.3	3.8	300	
GEW-102	7/12/2018	13	50	ND	ND	33	460	
GEW-102	10/10/2018	14	43	3.9	14	24	280	
GEW-104	7/12/2018	44	41	ND	ND	11	200	
GEW-104	10/5/2018	29	37	ND	24	8.0	110	
GEW-105	7/11/2018	14	39	5.5	23	17	740	See Note 3
GEW-105	10/5/2018	7.0	53	ND	6.9	30	1,300	
GEW-106	7/11/2018	7.0	53	ND	6.0	30	670	
GEW-106	10/5/2018	21	44	3.2	16	15	380	
GEW-107	7/11/2018	13	55	ND	ND	29	1,300	
GEW-107	10/5/2018	11	53	ND	ND	32	1,500	
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-108	10/5/2018	26	30	8.1	33	3.5	110	See Note 3
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-109	10/4/2018	32	36	2.1	25	4.6	160	
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-110	10/4/2018	11	20	13	46	9.7	280	See Note 4
GEW-113	7/11/2018	11	51	ND	13	23	1,100	
GEW-113	10/11/2018	12	45	3.9	22	17	800	
GEW-116	7/13/2018	13	58	ND	4.9	22	750	
GEW-116	10/11/2018	7.9	37	9.0	33	13	480	See Note 3
GEW-117	7/13/2018	45	52	ND	ND	0.080	65	
GEW-117	10/12/2018	16	16	15	53	ND	ND	See Note 3
GEW-118	7/17/2018	1.6	55	ND	3.9	37	980	
GEW-118	10/11/2018	0.73	30	9.3	33	26	900	See Note 3
GEW-120	7/17/2018	22	61	ND	3.7	12	590	
GEW-120	10/12/2018	8.2	25	11	50	6.5	280	See Note 3
GEW-121	7/13/2018	6.9	42	2.4	31	17	780	
GEW-121	10/12/2018	4.2	24	9.4	51	11	580	See Note 4
GEW-122	7/13/2018	12	36	ND	35	15	1,100	
GEW-122	10/24/2018	24	36	2.8	22	16	610	
GEW-123	7/13/2018	13	45	ND	29	11	480	
GEW-123	10/12/2018	5.6	24	9.9	52	8.4	380	
GEW-124	7/13/2018	35	24	8.9	31	ND	ND	See Note 3
GEW-124	10/24/2018	39	28	7.3	25	ND	ND	See Note 4
GEW-125	7/13/2018	2.7	52	ND	9.8	33	1,600	
GEW-125	10/11/2018	5.2	41	4.0	19	30	1,500	
GEW-126	5/14/2018	17	53	ND	18	8.8	630	
GEW-126	7/17/2018	19	51	ND	15	13	870	
GEW-126	10/11/2018	14	50	3.1	11	21	1,400	
GEW-127	7/17/2018	8.4	57	ND	11	21	1,800	
GEW-127	10/11/2018	16	54	1.7	12	15	1,000	
GEW-128	7/13/2018	9.5	54	3.5	15	17	1,700	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-128	10/11/2018	14	50	4.2	18	13	1,000	
GEW-129	7/13/2018	1.1	64	ND	ND	31	3,500	
GEW-129	10/11/2018	8.7	61	ND	4.8	24	2,300	
GEW-130	7/17/2018	7.3	50	2.3	13	26	2,200	
GEW-130	10/11/2018	11	50	1.8	7.6	30	2,300	
GEW-131	7/17/2018	24	40	ND	22	13	810	
GEW-131	10/11/2018	2.7	52	ND	ND	42	2,500	
GEW-132	7/12/2018	1.6	49	ND	8.5	40	1,900	
GEW-132	10/12/2018	0.71	35	5.4	30	28	1,700	See Note 3
GEW-133	7/13/2018	11	48	ND	17	21	880	
GEW-133	10/11/2018	1.9	6.7	19	70	2.5	150	See Note 3
GEW-134	7/12/2018	14	43	1.8	23	18	680	
GEW-134	10/11/2018	9.1	22	11	54	4.1	210	See Note 3
GEW-135	7/12/2018	6.6	41	2.5	28	22	840	
GEW-135	10/11/2018	3.7	25	10	48	13	500	See Note 3
GEW-136	7/11/2018	6.1	20	11	48	15	330	See Note 3
GEW-137	7/11/2018	23	31	3.1	42	0.49	43	
GEW-137	10/11/2018	13	18	11	57	0.28	ND	See Note 3
GEW-138	7/12/2018	4.8	24	5.2	57	8.8	430	See Note 4
GEW-138	10/11/2018	4.1	21	5.7	61	8.1	360	See Note 3
GEW-139	7/13/2018	6.4	49	ND	11	31	2,100	
GEW-139	10/10/2018	0.54	54	ND	4.6	38	2,500	
GEW-140	7/13/2018	15	50	ND	7.2	26	1,300	
GEW-140	10/10/2018	3.3	55	ND	3.4	36	1,800	
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-144	10/10/2018	40	49	1.9	6.5	2.6	280	
GEW-145	7/12/2018	5.0	49	ND	ND	42	1,700	
GEW-145	10/10/2018	5.3	51	ND	3.6	38	1,300	
GEW-146	7/11/2018	2.7	7.2	15	74	0.59	ND	See Note 4
GEW-147	7/11/2018	12	42	ND	20	24	750	
GEW-147	10/11/2018	9.0	23	11	46	11	330	See Note 3
GEW-148	7/11/2018	7.4	43	3.9	16	28	1,400	
GEW-148	10/11/2018	7.2	33	8.2	29	23	1,100	See Note 3
GEW-149	7/5/2018	15	41	ND	40	2.7	150	
GEW-149	10/5/2018	11	48	ND	19	19	740	
GEW-150	7/11/2018	22	47	ND	10.0	18	760	
GEW-150	10/5/2018	18	35	4.4	27	15	570	
GEW-151	7/17/2018	7.6	49	ND	ND	39	1,200	
GEW-151	10/11/2018	6.1	21	12	58	2.4	150	See Note 4
GEW-152	7/11/2018	25	44	ND	5.1	24	1,000	
GEW-152	10/5/2018	30	44	ND	3.6	21	800	
GEW-153	7/11/2018	46	37	ND	15	1.8	ND	
GEW-153	10/5/2018	38	30	5.4	26	0.63	ND	See Note 4
GEW-154	7/5/2018	0.81	9.6	13	76	0.34	ND	See Note 4
GEW-155	7/12/2018	0.58	19	5.9	70	4.7	130	See Note 4
GEW-155	10/11/2018	0.88	12	12	72	2.6	81	See Note 4
GEW-156	7/11/2018	37	48	ND	6.3	7.5	200	
GEW-156	10/10/2018	29	41	3.0	16	10	240	
GEW-157	7/11/2018	16	45	2.3	8.0	28	1,100	
GEW-157	10/10/2018	15	48	1.8	6.2	28	940	
GEW-158	7/11/2018	17	53	ND	5.8	22	620	
GEW-158	10/5/2018	22	50	ND	ND	24	700	
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	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-159	10/5/2018	32	39	2.8	13	12	500	
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-160	10/5/2018	6.4	49	ND	5.8	37	1,700	
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-161	10/5/2018	0.039	0.37	22	77	0.084	ND	See Note 3
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-162	10/5/2018	7.3	39	9.1	36	7.8	350	See Note 3
GEW-163	7/9/2018	8.0	32	7.7	43	8.9	270	See Note 3
GEW-163	10/12/2018	0.78	19	15	53	12	300	See Note 4
GEW-164	7/9/2018	25	54	ND	10	8.7	490	
GEW-164	10/12/2018	14	29	10	43	3.7	250	See Note 4
GEW-165	7/9/2018	11	54	3.1	12	19	780	
GEW-165	10/12/2018	11	47	4.7	19	17	720	
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-166	10/12/2018	2.9	47	1.9	8.6	39	2,200	
GEW-167	7/9/2018	0.63	37	6.4	25	31	1,600	See Note 3
GEW-167	10/12/2018	0.56	25	9.9	44	21	1,100	See Note 4
GEW-168	7/9/2018	13	50	3.1	15	18	800	
GEW-168	10/11/2018	14	36	5.9	35	7.6	400	See Note 4
GEW-169	7/9/2018	5.3	58	ND	5.9	29	1,600	
GEW-169	10/11/2018	12	49	2.8	15	20	1,000	
GEW-170	7/13/2018	10.0	57	ND	7.3	23	1,700	
GEW-170	10/11/2018	12	47	4.6	20	16	1,100	
GEW-171	10/10/2018	6.5	61	ND	3.9	26	1,600	
GEW-172	7/13/2018	20	51	ND	ND	24	1,600	
GEW-172	10/10/2018	13	43	5.1	18	20	1,200	See Note 3
GEW-173	7/13/2018	4.2	15	11	68	1.4	150	See Note 4
GEW-173	10/10/2018	1.7	7.5	16	74	0.79	43	See Note 4
GEW-174	7/12/2018	23	45	ND	16	14	630	
GEW-174	10/10/2018	14	36	2.9	36	11	400	
GEW-175	7/11/2018	14	53	ND	5.8	24	870	
GEW-175	10/5/2018	13	35	6.4	34	11	400	See Note 4
GEW-176	7/11/2018	34	46	ND	12	5.9	240	
GEW-176	10/5/2018	28	33	3.8	33	1.2	110	
GEW-177	7/13/2018	6.6	53	2.8	9.8	27	2,700	
GEW-177	10/11/2018	0.14	24	13	51	12	1,500	See Note 4
GEW-178	7/11/2018	26	64	ND	ND	5.8	170	
GEW-178	10/3/2018	16	40	6.4	35	1.6	110	See Note 3
GEW-179	7/11/2018	16	54	2.6	22	4.7	130	
GEW-179	10/3/2018	18	62	2.7	14	2.5	130	
GEW-180	7/11/2018	14	68	ND	3.9	12	400	
GEW-180	10/3/2018	13	57	3.7	18	7.5	360	
GEW-181	7/11/2018	16	67	ND	3.8	11	660	
GEW-181	10/3/2018	12	52	5.7	20	8.7	550	See Note 3
GEW-182	7/9/2018	24	44	4.0	18	9.3	280	
GEW-182	10/3/2018	21	36	7.3	31	4.7	170	See Note 4
GEW-184	7/9/2018	21	49	4.2	20	5.0	200	
GEW-184	10/3/2018	14	28	12	46	0.90	79	See Note 4
GEW-185	7/9/2018	15	58	ND	6.1	18	690	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
GEW-185	10/3/2018	10	37	9.0	32	11	400	See Note 4
GEW-186	7/11/2018	19	49	4.4	18	9.2	770	
GEW-186	10/3/2018	19	47	4.5	19	10	660	
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-187	10/3/2018	21	54	1.9	6.4	16	650	
GEW-188	7/9/2018	0.45	18	8.9	66	6.9	270	See Note 4
GEW-188	10/3/2018	0.23	6.3	17	74	1.6	85	See Note 4
GEW-217	10/9/2018	6.3	37	8.0	28	20	720	See Note 4
GEW-218	10/9/2018	25	48	ND	7.2	19	800	
GEW-219	10/9/2018	6.5	20	11	60	1.9	110	See Note 3
GEW-220	10/9/2018	2.3	37	7.0	36	16	960	See Note 3
GEW-221	10/9/2018	13	36	2.9	40	7.7	200	
GEW-222	10/9/2018	11	18	15	51	4.5	300	See Note 3
GEW-223	10/9/2018	2.6	38	8.8	32	17	1,300	See Note 3
GEW-224	10/9/2018	6.2	63	ND	ND	24	2,400	
GEW-225	10/9/2018	5.7	41	6.7	23	22	1,700	See Note 3
GEW-226	10/9/2018	11	23	7.5	48	8.9	390	See Note 4
GEW-227	10/9/2018	3.7	16	12	64	3.3	190	See Note 4
GEW-228	10/9/2018	2.5	17	9.9	59	11	180	See Note 4
GEW-229	10/9/2018	3.0	16	8.6	69	3.1	210	See Note 4
GEW-230	10/9/2018	6.0	28	5.5	51	9.1	260	See Note 3
GEW-231	10/9/2018	15	58	ND	6.9	18	1,500	
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-01	10/4/2018	8.0	53	2.6	13	23	1,000	
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-02	10/4/2018	2.4	17	15	60	5.1	400	See Note 4
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-03	10/4/2018	11	48	2.5	18	20	760	
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-04	10/4/2018	2.5	52	ND	4.1	40	1,800	
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-05	10/4/2018	1.6	41	3.9	14	39	410	
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-06	10/4/2018	29	39	2.1	20	10	150	
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	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide (ppm)	Comments
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-07	10/4/2018	27	34	8.2	29	1.3	120	See Note 3
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-08	10/4/2018	33	34	6.9	26	0.13	ND	See Note 3
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	
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-09	10/4/2018	13	25	5.1	54	2.5	81	See Note 3
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-10	10/4/2018	11	28	4.1	45	12	330	
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-11	10/4/2018	15	30	4.8	42	7.4	340	
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-12	10/4/2018	12	36	6.2	29	17	820	See Note 4
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	
GIW-13	10/4/2018	33	47	1.6	6.9	11	340	
Flare Station ²	6/1/2018	12.7	37.1	6.2	32.2	10.4	505	See Note 6
Flare Station ²	7/2/2018	13.5	36.8	6.4	32.0	10.1	445	See Note 6
Flare Station ²	8/1/2018	13.3	36.3	6.4	32.6	10.1	465	See Note 6
Flare Station ²	9/4/2018	12.2	33.6	7.2	36.2	9.4	450	See Note 6
Flare Station ²	10/2/2018	12.3	33.6	7.2	36.2	9.5	430	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.

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

ATTACHMENT C-2

LABORATORY ANALYSES REPORTS



October 25, 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: J101705-01/148

Enclosed are results for sample(s) received 10/17/18 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 10/24/18.

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

Enclosures

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



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: 1 OF 15
 DELIVERABLES: EDD EDF Level 3 Level 4
 Condition upon receipt: Sealed Yes No Intact Yes No Chilled _____ deg C

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

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	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
J101705-01	A7794	-19.4	-5	GEW 181	10/3/2018	9:51	C	LFG	NA	X
-02	A7766	-20	-5	GEW 180	10/3/2018	10:03	C	LFG	NA	X
-03	5835	-19.7	-5	GEW 179	10/3/2018	10:15	C	LFG	NA	X
-04	A7802	-19.8	-5	GEW 178	10/3/2018	10:26	C	LFG	NA	X
-05	5323	-19.7	-5	GEW 187	10/3/2018	11:23	C	LFG	NA	X
-06	3825	-19.5	-5	GEW 186	10/3/2018	11:50	C	LFG	NA	X
-07	6151	-19.5	-5	GEW 182	10/3/2018	13:41	C	LFG	NA	X
-08	3834	-19.5	-5	GEW 184	10/3/2018	13:52	C	LFG	NA	X
-09	A8055	-19.5	-5	GEW 185	10/3/2018	14:03	C	LFG	NA	X
-10	A7781	-19.4	-5	GEW 188	10/3/2018	14:14	C	LFG	NA	X

AUTHORIZATION TO PERFORM WORK: Dave Penoyer
 COMPANY: Republic Services

SAMPLED BY: Tim Ahrens
 DATE/TIME: 10/3/18

RELINQUISHED BY: [Signature] DATE/TIME: 10/15/18
 RECEIVED BY: [Signature] DATE/TIME: 10/17/18 10:58

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

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

COMMENTS:



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: Standard 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: 2 OF 15

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 ID	Cannister Pressure ("Hg)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE	MATRIX	PRESERVA-TION	ANALYSIS REQUEST
		Sample Start	Sample End							
J01705-11	A8086	-19.8	-5	GIW 6	10/4/2018	8:10	C	LFG	NA	X
-12	A8073	-19.8	-5	GIW 7	10/4/2018	8:21	C	LFG	NA	X
-13	A7814	-18.4	-5	GIW 8	10/4/2018	8:31	C	LFG	NA	X
-14	6144	-20.5	-5	GEW 38	10/4/2018	8:41	C	LFG	NA	X
-15	A7772	-20	-5	GIW 9	10/4/2018	8:55	C	LFG	NA	X
-16	5270	-19.8	-5	GEW 109	10/4/2018	9:05	C	LFG	NA	X
-17	A7799	-20	-5	GEW 39	10/4/2018	9:16	C	LFG	NA	X
-18	5825	-19.7	-5	GIW 11	10/4/2018	10:54	C	LFG	NA	X
-19	5906	-19.9	-5	GIW 12	10/4/2018	11:04	C	LFG	NA	X
-20	5819	-20.2	-5	GIW 13	10/4/2018	11:14	C	LFG	NA	X

LAB USE ONLY

LABORATORY TO PERFORM WORK: Dave Penoyer
COMPANY: Republic Services

SAMPLED BY: Tim Ahrens
RECEIVED BY: [Signature] DATE: 10/15/18
RECEIVED BY: [Signature] DATE: 10/18/18
RECEIVED BY: [Signature] DATE: 10/18/18

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

COMMENTS:

D1946 + CO, H2

12/17/18 PRESS

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

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: 3 OF 15

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

LAB USE ONLY	Cannister ID	Cannister Pressure (mg)	Sample		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
			Start	End							
5101705-21	A7780	-20.3	-20.3	-5	GEW 110	10/4/2018	11:24	C	LFG	NA	X
-22	5304	-20.3	-20.3	-5	GEW 56R	10/4/2018	11:36	C	LFG	NA	X
-23	A7797	-20.2	-20.2	-5	GEW 10	10/4/2018	11:46	C	LFG	NA	X
-24	A7665	-20.1	-20.1	-5	GIW 10	10/4/2018	13:32	C	LFG	NA	X
-25	6154	-20	-20	-5	GIW 5	10/4/2018	13:44	C	LFG	NA	X
-26	5313	-20.1	-20.1	-5	GIW 4	10/4/2018	14:00	C	LFG	NA	X
-27	A7800	-20.2	-20.2	-5	GIW 3	10/4/2018	14:10	C	LFG	NA	X
-28	3157	-19.9	-19.9	-5	GIW 2	10/4/2018	14:20	C	LFG	NA	X
-29	6152	-20	-20	-5	GIW 1	10/4/2018	14:30	C	LFG	NA	X
-30	A8087	-19.6	-19.6	-5	GEW 108	10/5/2018	9:21	C	LFG	NA	X

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Tim Ahrens DATE/TIME: 10/4/18-10/5/18

RELINQUISHED BY: [Signature] DATE/TIME: 10/15/18

RECEIVED BY: J. Peng DATE/TIME: 10/17/18

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

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



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

CHAIN OF CUSTODY RECORD

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

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

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

LAB USE ONLY	Cannister ID	Cannister Pressure (\"ng)	Sample		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVA-TION							
			Start	End													
J101705-31	A7748	-19.6	-19.6	-5	GEW 159	10/5/2018	9:31	C	LFG	NA	X					-6	
-32	5268	-19.7	-19.7	-5	GEW 160	10/5/2018	9:51	C	LFG	NA	X						-6
-33	A7747	-19.6	-19.6	-5	GEW 161	10/5/2018	10:01	C	LFG	NA	X						-6
-34	A8098	-19.3	-19.3	-5	GEW 91	10/5/2018	10:14	C	LFG	NA	X						-6.5
-35	5905	-19.7	-19.7	-5	GEW 162	10/5/2018	10:25	C	LFG	NA	X						-6.5
-36	A8090	-19.5	-19.5	-5	GEW 149	10/5/2018	11:16	C	LFG	NA	X						-7
-37	5903	-19.3	-19.3	-5	GEW 90	10/5/2018	11:28	C	LFG	NA	X						-7
-38	A7820	-19.5	-19.5	-5	GEW 67A	10/5/2018	11:38	C	LFG	NA	X						-7
-39	4644	-19.8	-19.8	-5	GEW 13A	10/5/2018	13:53	C	LFG	NA	X						-7
-40	A7816	-19.6	-19.6	-5	GEW 88	10/5/2018	14:05	C	LFG	NA	X						-7

D1946 + CO₂ H₂

INITIAL MESS

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services
SAMPLED BY: Tim Ahrens	COMPANY: Cornerstone
RELINQUISHED BY: <i>[Signature]</i>	RECEIVED BY:
RELINQUISHED BY: <i>[Signature]</i>	RECEIVED BY: J. Liang
RELINQUISHED BY:	RECEIVED BY:
METHOD OF TRANSPORT (circle one): Walk-In <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> ATLI <input type="checkbox"/> Other <input type="checkbox"/>	

COMMENTS:

DATE/TIME 10/5/18
DATE/TIME 10/5/18
DATE/TIME 10/5/18 10:58

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

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



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME: Standard 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

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

BILLING

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

LAB USE ONLY	Cannister Pressure (") (ng)		SAMPLE IDENTIFICATION		SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
	Cannister ID	Sample Start	Sample End							
2010705-41	A7778	-19.4	-5	GEW 86	10/5/2018	14:17	C	LFG	NA	X
-42	A7646	-19.6	-5	GEW 87	10/5/2018	14:28	C	LFG	NA	X
-43	A7663	-19.5	-5	GEW 218	10/9/2018	9:06	C	LFG	NA	X
-44	5822	-19.6	-5	GEW 219	10/9/2018	9:33	C	LFG	NA	X
-45	A8068	-19.7	-5	GEW 217	10/9/2018	9:55	C	LFG	NA	X
-46	A7649	-19.7	-5	GEW 220	10/9/2018	10:16	C	LFG	NA	X
-47	4648	-19.5	-5	GEW 221	10/9/2018	10:35	C	LFG	NA	X
-48	6149	-19.7	-5	GEW 222	10/9/2018	11:09	C	LFG	NA	X
-49	A8082	-19.7	-5	GEW 223	10/9/2018	11:32	C	LFG	NA	X
-50	A7751	-19.5	-5	GEW 224	10/9/2018	11:44	C	LFG	NA	X

COMMENTS

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Tim Ahrens DATE/TIME: 10/5/18 - 10/9/18

RELINQUISHED BY: [Signature] DATE/TIME: 10/15/18 RECEIVED BY: [Signature] DATE/TIME: 10/18/18 10:52

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

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

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



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
 Standard
 Same Day
 24 hours
 Other: 5 Day

DELIVERABLES
 EDD
 EDF
 Level 3
 Level 4

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

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

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

LAB USE ONLY	Cannister Pressure ("ng)		SAMPLE IDENTIFICATION				PRESERVATION	ANALYSIS REQUEST			
	Cannister ID	Sample Start	Sample End	SAMPLE ID	SAMPLE TIME	CONTAINER QTY/TPE			MATRIX		
J101705-51	5839	-17.9	-5	GEW 225	11:55	C	LFG	NA	X	-6.5	INITIAL PRESS
-52	A8070	-19.5	-5	GEW 226	13:30	C	LFG	NA	X	-6.5	
-53	5816	-19.4	-5	GEW 231	13:43	C	LFG	NA	X	-6.5	
-54	A7654	-19	-5	GEW 227	13:59	C	LFG	NA	X	-6.5	
-55	3828	-19.4	-5	GEW 228	14:23	C	LFG	NA	X	-6.5	
-56	5815	-19.5	-5	GEW 229	14:37	C	LFG	NA	X	-6.5	
-57	6160	-18.8	-5	GEW 230	14:50	C	LFG	NA	X	-6.5	
-58	6155	-20.3	-5	GEW 151	8:09	C	LFG	NA	X	-4.9	
-59	5274	-20.6	-5	GEW 148	8:20	C	LFG	NA	X	-4.9	
-60	A7770	-20.6	-5	GEW 15	9:11	C	LFG	NA	X	-5	

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Tim Ahrens DATE/TIME: 10/9/18 - 10/11/18
RELINQUISHED BY: [Signature] DATE/TIME: 12/15/18
RECEIVED BY: J. Wang DATE/TIME: 10/18/18 10:08

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



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME
 Standard
 Same Day
 24 hours
 Other: 5 Day

DELIVERABLES
 EDD
 EDF
 Level 3
 Level 4

PAGE: 7 OF 15
 Condition upon receipt:
 Sealed Yes No
 Intact Yes No
 Chilled _____ deg C

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

LAB USE ONLY	Cannister Pressure ("hg)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
	Sample Start	Sample End							
J10705-61	A7809	-20.4	GEW 113	10/11/2018	9:21	C	LFG	NA	X
-62	5907	-20.4	GEW 16R	10/11/2018	9:30	C	LFG	NA	X
-63	6146	-20.4	GEW 147	10/11/2018	9:41	C	LFG	NA	X
-64	A8063	-20	GEW 135	10/11/2018	9:53	C	LFG	NA	X
-65	5307	-20.6	GEW 134	10/11/2018	10:04	C	LFG	NA	X
-66	5813	-20.2	GEW 137	10/11/2018	11:00	C	LFG	NA	X
-67	A7812	-20.3	GEW 155	10/11/2018	11:16	C	LFG	NA	X
-68	3126	-20.4	GEW 138	10/11/2018	11:26	C	LFG	NA	X
-69	A8064	-20.2	GEW 78R	10/11/2018	13:32	C	LFG	NA	X
-70	A7658	-20.2	GEW 82R	10/11/2018	13:42	C	LFG	NA	X

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Tim Ahrens DATE/TIME: 10/11/18

RELINQUISHED BY: [Signature] DATE/TIME: 10/15/18

RECEIVED BY: [Signature] DATE/TIME: 10/17/18 10:58

RECEIVED BY: [Signature] DATE/TIME: 10/17/18 10:58

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

COMMENTS

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



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES		PAGE: 8 OF 15	
Standard <input type="checkbox"/>	48 hours <input type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt:		
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	Sealed Yes <input type="checkbox"/>	No <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	Intact Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	Chilled _____	deg C _____	

ANALYSIS REQUEST

BILLING

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

D1946 + CO₂ H₂

*INTACT
KREBS*

LAB USE ONLY	Cannister Pressure (ng)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVA-TION
	Start	End						
<i>J101705-71</i>	A7764	-20.1	GEW 118	10/11/2018	13:53	C	LFG	NA
<i>-72</i>	3838	-20	GEW 18B	10/11/2018	14:03	C	LFG	NA
<i>-73</i>	A7818	-20.1	GEW 116	10/11/2018	14:31	C	LFG	NA
<i>-74</i>	A7815	-20.1	GEW 133	10/11/2018	14:41	C	LFG	NA
<i>-75</i>	A7773	-20.5	GEW 117	10/12/2018	8:20	C	LFG	NA
<i>-76</i>	A7667	-20.2	GEW 120	10/12/2018	8:30	C	LFG	NA
<i>-77</i>	3839	-20.5	GEW 132	10/12/2018	8:46	C	LFG	NA
<i>-78</i>	5927	-20.5	GEW 121	10/12/2018	8:57	C	LFG	NA
<i>-79</i>	6148	-20.7	GEW 123	10/12/2018	9:09	C	LFG	NA
<i>-80</i>	5272	-20.7	GEW 22R	10/12/2018	9:20	C	LFG	NA

COMMENTS

AUTHORIZATION TO PERFORM WORK: Dave Penoyer
 COMPANY: Republic Services

SAMPLED BY: Tim Ahrens	DATE/TIME: 10/11/18
RELIQUISHED BY: [Signature]	DATE/TIME: 10/12/18
RELIQUISHED BY: [Signature]	DATE/TIME: 10/12/18
RELIQUISHED BY: [Signature]	DATE/TIME: 10/12/18

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



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
 48 hours
 72 hours
 96 hours
 Other: 5 Day

DELIVERABLES
 EDD
 EDF
 Level 3
 Level 4

PAGE: 9 OF 15
 Condition upon receipt:
 Sealed Yes No
 Intact Yes No
 Chilled _____ deg C

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

LAB USE ONLY	Cannister Pressure (”ng)		SAMPLE IDENTIFICATION				PRESERVA-TION				
	Cannister ID	Sample Start	Sample End	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE		MATRIX			
510705-81	5308	-19.5	-5	10/2/2018	14:34	C	LFG	NA	X	D1946 + CO, H2	INITIAL PRESS
-82	R1349	-19.8	-5	10/2/2018	14:46	C	LFG	NA	X		
-83	5920	-19.9	-5	10/2/2018	14:58	C	LFG	NA	X		
-84	3833	-20.1	-5	10/4/2018	8:42	C	LFG	NA	X		
-85	A7782	-20.3	-5	10/4/2018	8:53	C	LFG	NA	X		
-86	3164	-20.1	-5	10/4/2018	9:10	C	LFG	NA	X		
-87	A8085	-20	-5	10/4/2018	9:26	C	LFG	NA	X		
-88	3439	-20.3	-5	10/4/2018	9:39	C	LFG	NA	X		
-89	R2488	-20.2	-5	10/4/2018	9:55	C	LFG	NA	X		
-90	N3703	-20.3	-5	10/4/2018	10:06	C	LFG	NA	X		

BILLING
P.O. No.: P07112802
Bill to: Republic Services
 Attn: Mike Lambrich
 13570 St. Charles Rock Rd.
 Bridgeton, MO 63044

ANALYSIS REQUEST

AUTHORIZATION TO PERFORM WORK: Dave Penoyer
 COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis
 RECEIVED BY: _____ DATE/TIME: 10/2/18-10/4/18

RELINQUISHED BY: _____ DATE/TIME: 10/15/18
 RECEIVED BY: J. Kang DATE/TIME: 10/18/18 10:58

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

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

COMMENTS

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



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME **DELIVERABLES** **PAGE:** 10 **OF** 15

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

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

LAB USE ONLY	Cannister Pressure (”ng)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
	Cannister ID	Sample Start							
J101705-91	A7804	-20.7	GEW 41R	10/4/2018	10:45	C	LFG	NA	X
-92	3435	-19	GEW 42R	10/4/2018	11:04	C	LFG	NA	X
-93	A7819	-20.3	GEW 43R	10/4/2018	11:19	C	LFG	NA	X
-94	A7662	-20.4	GEW 44	10/4/2018	11:30	C	LFG	NA	X
-95	6131	-20.1	GEW 45R	10/4/2018	13:22	C	LFG	NA	X
-96	A8078	-20.1	GEW 46R	10/4/2018	13:35	C	LFG	NA	X
-97	5928	-19.8	GEW 2S	10/4/2018	13:53	C	LFG	NA	X
-98	N3702	-20	GEW 49	10/4/2018	14:08	C	LFG	NA	X
-99	3159	-20.1	GEW 2	10/4/2018	14:29	C	LFG	NA	X
-100	6135	-20.1	GEW 3	10/4/2018	14:38	C	LFG	NA	X

BILLING

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

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

SAMPLED BY: Anthony Kimutis **DATE/TIME:** 10/4/18

RELINQUISHED BY: [Signature] **DATE/TIME:** 10/15/18

RECEIVED BY: [Signature] **DATE/TIME:** 10/17/18 10:58

RECEIVED BY: [Signature] **DATE/TIME:** 10/17/18 10:58

RECEIVED BY: [Signature] **DATE/TIME:** 10/17/18 10:58

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

COMMENTS:

D1946 + CO, H2

INITIAL PRESS

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: 11 OF 15
 DELIVERABLES: EDD EDF Level 3 Level 4
 Condition upon receipt: Sealed Yes No
 Intact Yes No
 Chilled _____ deg C

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

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

LAB USE ONLY	Cannister Pressure (\"ng)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST		
	Sample Start	Sample End									
J101705-101	5936	-20.2	-5	GEW 4	10/4/2018	14:49	C	LFG	NA	X	-9.5
-102	R1369	-19.5	-5	GEW 47R	10/5/2018	8:47	C	LFG	NA	X	-6.9
-103	A7650	-19.9	-5	GEW 5	10/5/2018	9:08	C	LFG	NA	X	-6.6
-104	A7805	-19.7	-5	GEW 48	10/5/2018	9:19	C	LFG	NA	X	-6.6
-105	1616	-19.9	-5	GEW 6	10/5/2018	9:31	C	LFG	NA	X	-6.6
-106	A7793	-19.9	-5	GEW 153	10/5/2018	11:05	C	LFG	NA	X	-6.9
-107	5316	-19.8	-5	GEW 59R	10/5/2018	11:29	C	LFG	NA	X	-6.9
-108	A7761	-19.6	-5	GEW 107	10/5/2018	11:39	C	LFG	NA	X	-6.9
-109	A7744	-19.7	-5	GEW 152	10/5/2018	11:48	C	LFG	NA	X	-6.9
-110	A7767	-19.9	-5	GEW 58A	10/5/2018	13:38	C	LFG	NA	X	-6.5

LAB USE ONLY

LABORATORY WORK: Dave Penoyer
 COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis
 DATE/TIME: 10/4/18 - 10/5/18

RECEIVED BY: J Kimutis
 DATE/TIME: 10/7/18 10:58

RECEIVED BY: _____
 DATE/TIME: _____

RECEIVED BY: _____
 DATE/TIME: _____

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

COMMENTS:

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

DELIVERABLES
EDD
EDF
Level 3
Level 4

PAGE: 12 OF 15

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

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

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

LAB USE ONLY

Cannister Pressure (ng)

Cannister ID	Sample Start	Sample End	SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST			
5837	-19.6	-5	GEW 106	10/5/2018	13:58	C	LFG	NA	X			
5929	-19.7	-5	GEW 158	10/5/2018	14:09	C	LFG	NA	X			-7
3124	-19.5	-5	GEW 105	10/5/2018	14:22	C	LFG	NA	X			-7
A7769	-20	-5	GEW 176	10/5/2018	14:32	C	LFG	NA	X			-7
3131	-19.8	-5	GEW 175	10/5/2018	14:41	C	LFG	NA	X			-7
5834	-19.7	-5	GEW 150	10/5/2018	14:52	C	LFG	NA	X			-7
3436	-19.4	-5	GEW 104	10/5/2018	15:00	C	LFG	NA	X			-7
5833	-19.7	-5	GEW 157	10/10/2018	9:33	C	LFG	NA	X			-6
5922	-18.5	-5	GEW 57B	10/10/2018	9:42	C	LFG	NA	X			-6
5901	-18.3	-5	GEW 156	10/10/2018	9:52	C	LFG	NA	X			-6

COMMENTS

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis DATE/TIME: 10/5/18-10/16/18
 RECEIVED BY: DATE/TIME: 10/15/18
 RECEIVED BY: J. Kimutis DATE/TIME: 10/17/18 10:58
 RECEIVED BY: DATE/TIME:

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 - 3/7/09



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
 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: 13 OF 15

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

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

LAB USE ONLY	Cannister Pressure ("ng)		SAMPLE IDENTIFICATION		SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TPE	MATRIX	PRESERVATION	ANALYSIS REQUEST	
	Cannister ID	Sample Start	Sample End								
J101705-121	A7795	-19.5	-5	GEW 145	10/10/2018	10:06	C	LFG	NA	X	
-122	4656	-19.5	-5	GEW 102	10/10/2018	10:16	C	LFG	NA	X	
-123	A7808	-19.7	-5	GEW 101	10/10/2018	10:49	C	LFG	NA	X	
-124	A8066	-19.5	-5	GEW 144	10/10/2018	11:00	C	LFG	NA	X	
-125	A8067	-19.7	-5	GEW 68A	10/10/2018	11:12	C	LFG	NA	X	
-126	A7798	-19.5	-5	GEW 174	10/10/2018	11:23	C	LFG	NA	X	
-127	5817	-19.5	-5	GEW 100	10/10/2018	13:32	C	LFG	NA	X	
-128	4655	-19.2	-5	GEW 171	10/10/2018	13:41	C	LFG	NA	X	
-129	A7760	-19.3	-5	GEW 172	10/10/2018	14:08	C	LFG	NA	X	
-130	3837	-19.7	-5	GEW 140	10/10/2018	14:35	C	LFG	NA	X	

LAB USE ONLY

LABORATORY WORK: Dave Penoyer
 COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis
 COMPANY: Republic Services
 RECEIVED BY: _____ DATE/TIME: 10/10/18

RELINQUISHED BY: _____ DATE/TIME: 10/15/18
 RECEIVED BY: J. King DATE/TIME: 10/15/18

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

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

COMMENTS:

ANALYSIS REQUEST
 D1946 + CO, H2

INITIAL PRESS

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: 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: 14 OF 15

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

LAB USE ONLY	Cannister Pressure ("hg)		SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST	
	Sample Start	Sample End								
J101705-131	A8056	-19.8	-5	GEW 173	10/10/2018	14:46	C LFG	NA	X	-6
-132	A7645	-19.6	-5	GEW 139	10/10/2018	15:06	C LFG	NA	X	-6
-133	6143	-20.5	-5	GEW 177	10/11/2018	8:48	C LFG	NA	X	-9
-134	A8103	-20.5	-5	GEW 129	10/11/2018	8:58	C LFG	NA	X	-4
-135	A8083	-20.6	-5	GEW 128	10/11/2018	9:26	C LFG	NA	X	-5
-136	A8080	-20.5	-5	GEW 170	10/11/2018	9:35	C LFG	NA	X	-5
-137	3162	-20.4	-5	GEW 127	10/11/2018	9:45	C LFG	NA	X	-5
-138	3155	-20.7	-5	GEW 130	10/11/2018	10:07	C LFG	NA	X	-5
-139	5318	-19.8	-5	GEW 169	10/11/2018	13:34	C LFG	NA	X	-5
-140	A7775	-20.2	-5	GEW 126	10/11/2018	13:55	C LFG	NA	X	-5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer
COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis
RELINQUISHED BY: [Signature] DATE/TIME: 10/10/18
RECEIVED BY: [Signature] DATE/TIME: 10/11/18

RELINQUISHED BY: [Signature] DATE/TIME: 10/15/18
RECEIVED BY: [Signature] DATE/TIME: 10/18/18

RELINQUISHED BY: [Signature] DATE/TIME: [Signature] DATE/TIME: 10/18/18
RECEIVED BY: [Signature] DATE/TIME: [Signature] DATE/TIME: 10/18/18

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



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: 15 OF 15
 DELIVERABLES: EDD EDF Level 3 Level 4
 Condition upon receipt: Sealed Yes No Intact Yes No Chilled deg C

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/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
	Sample Start	Sample End							
J101705-141	5821	-20.4	GEW 168	10/11/2018	14:07	C	LFG	NA	X
-142	5324	-20.1	GEW 131	10/11/2018	14:17	C	LFG	NA	X
-143	A7671	-20.1	GEW 125	10/11/2018	14:54	C	LFG	NA	X
-144	5315	-20.3	GEW 167	10/12/2018	8:49	C	LFG	NA	X
-145	5910	-20.6	GEW 166	10/12/2018	9:00	C	LFG	NA	X
-146	5836	-20.5	GEW 165	10/12/2018	9:11	C	LFG	NA	X
-147	A7792	-20.5	GEW 164	10/12/2018	9:22	C	LFG	NA	X
-148	A8059	-20.6	GEW 163	10/12/2018	9:34	C	LFG	NA	X

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

AUTHORIZATION TO PERFORM WORK: Dave Penoyer
 COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis
 RECEIVED BY: 10/11/18 - 10/12/18

RELINQUISHED BY: [Signature]
 RECEIVED BY: [Signature] 10/15/18

RELINQUISHED BY: [Signature]
 RECEIVED BY: [Signature] 10/18/18

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

COMMENTS:

Preservation: H=HC! 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: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-01	J101705-02	J101705-03	J101705-04				
Client Sample I.D.:	GEW 181	GEW 180	GEW 179	GEW 178				
Date/Time Sampled:	10/3/18 9:51	10/3/18 10:03	10/3/18 10:15	10/3/18 10:26				
Date/Time Analyzed:	10/17/18 17:25	10/17/18 17:40	10/17/18 17:54	10/17/18 18:09				
QC Batch No.:	181017GC8A1	181017GC8A1	181017GC8A1	181017GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	3.4	3.5	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	8.7	6.7	7.5	6.7	2.5 d	0.070	1.6 d	0.070
Carbon Dioxide	52	0.034	57	0.034	62	0.035	40	0.035
Oxygen/Argon	5.7	1.7	3.7	1.7	2.7	1.7	6.4	1.7
Nitrogen	20	3.4	18	3.4	14	3.5	35	3.5
Methane	12	0.0034	13	0.0034	18	0.0035	16	0.0035
Carbon Monoxide	0.055	0.0034	0.036	0.0034	0.013	0.0035	0.011	0.0035

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)
 RL = Reporting Limit
 d = Reported from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 12/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-05	J101705-06	J101705-07	J101705-08				
Client Sample I.D.:	GEW 187	GEW 186	GEW 182	GEW 184				
Date/Time Sampled:	10/3/18 11:23	10/3/18 11:50	10/3/18 13:41	10/3/18 13:52				
Date/Time Analyzed:	10/17/18 18:23	10/17/18 18:38	10/17/18 18:52	10/17/18 19:07				
QC Batch No.:	181017GC8A1	181017GC8A1	181017GC8A1	181017GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.5	3.5	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	16	7.0	10	7.0	4.7 d	0.067	0.90 d	0.070
Carbon Dioxide	54	0.035	47	0.035	36	0.034	28	0.035
Oxygen/Argon	1.9	1.7	4.5	1.7	7.3	1.7	12	1.7
Nitrogen	6.4	3.5	19	3.5	31	3.4	46	3.5
Methane	21	0.0035	19	0.0035	21	0.0034	14	0.0035
Carbon Monoxide	0.065	0.0035	0.066	0.0035	0.017	0.0034	0.0079	0.0035

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-09	J101705-10	J101705-11	J101705-12				
Client Sample I.D.:	GEW 185	GEW 188	GIW 6	GIW 7				
Date/Time Sampled:	10/3/18 14:03	10/3/18 14:14	10/4/18 8:10	10/4/18 8:21				
Date/Time Analyzed:	10/17/18 19:22	10/17/18 19:36	10/17/18 19:51	10/17/18 20:05				
QC Batch No.:	181017GC8A1	181017GC8A1	181017GC8A1	181017GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.5	3.5	3.3	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	11	7.0	1.6 d	0.070	10	6.5	1.3 d	0.063
Carbon Dioxide	37	0.035	6.3	0.035	39	0.033	34	0.032
Oxygen/Argon	9.0	1.7	17	1.7	2.1	1.6	8.2	1.6
Nitrogen	32	3.5	74	3.5	20	3.3	29	3.2
Methane	10	0.0035	0.23	0.0035	29	0.0033	27	0.0032
Carbon Monoxide	0.040	0.0035	0.0085	0.0035	0.015	0.0033	0.012	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-13	J101705-14	J101705-15	J101705-16				
Client Sample I.D.:	GIW 8	GEW 38	GIW 9	GEW 109				
Date/Time Sampled:	10/4/18 8:31	10/4/18 8:41	10/4/18 8:55	10/4/18 9:05				
Date/Time Analyzed:	10/17/18 20:20	10/17/18 20:34	10/17/18 20:49	10/17/18 21:04				
QC Batch No.:	181017GC8A1	181017GC8A1	181017GC8A1	181017GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.3	3.3	3.3	3.3				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	0.13 d	0.065	16	6.5	2.5 d	0.065	4.6 d	0.065
Carbon Dioxide	34	0.033	36	0.033	25	0.033	36	0.033
Oxygen/Argon	6.9	1.6	6.4	1.6	5.1	1.6	2.1	1.6
Nitrogen	26	3.3	22	3.3	54	3.3	25	3.3
Methane	33	0.0033	19	0.0033	13	0.0033	32	0.0033
Carbon Monoxide	ND	0.0033	0.059	0.0033	0.0081	0.0033	0.016	0.0033

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/29/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-17	J101705-18	J101705-19	J101705-20				
Client Sample I.D.:	GEW 39	GIW 11	GIW 12	GIW 13				
Date/Time Sampled:	10/4/18 9:16	10/4/18 10:54	10/4/18 11:04	10/4/18 11:14				
Date/Time Analyzed:	10/18/18 11:09	10/18/18 11:24	10/18/18 11:38	10/18/18 11:53				
QC Batch No.:	181018GC8A1	181018GC8A1	181018GC8A1	181018GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	3.4	3.4	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	ND d	0.067	7.4	6.7	17	6.7	11	6.3
Carbon Dioxide	21	0.034	30	0.034	36	0.034	47	0.032
Oxygen/Argon	11	1.7	4.8	1.7	6.2	1.7	1.6	1.6
Nitrogen	51	3.4	42	3.4	29	3.4	6.9	3.2
Methane	17	0.0034	15	0.0034	12	0.0034	33	0.0032
Carbon Monoxide	ND	0.0034	0.034	0.0034	0.082	0.0034	0.034	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Reported from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

The cover letter is an integral part of this analytical report



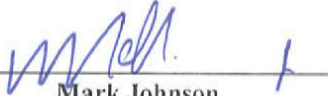
Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-21	J101705-22	J101705-23	J101705-24				
Client Sample I.D.:	GEW 110	GEW 56R	GEW 10	GIW 10				
Date/Time Sampled:	10/4/18 11:24	10/4/18 11:36	10/4/18 11:46	10/4/18 13:32				
Date/Time Analyzed:	10/18/18 12:08	10/18/18 12:22	10/18/18 12:37	10/18/18 12:51				
QC Batch No.:	181018GC8A1	181018GC8A1	181018GC8A1	181018GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.3	3.2	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	9.7	3.2	9.9	3.3	0.38 d	0.032	12	3.4
Carbon Dioxide	20	0.032	39	0.033	41	0.032	28	0.034
Oxygen/Argon	13	1.6	2.2	1.6	ND	1.6	4.1	1.7
Nitrogen	46	3.2	9.2	3.3	4.4	3.2	45	3.4
Methane	11	0.0032	40	0.0033	53	0.0032	11	0.0034
Carbon Monoxide	0.028	0.0032	0.020	0.0033	ND	0.0032	0.033	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)
RL = Reporting Limit
d = Results from secondary analysis batch 181023GC8A1

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-25	J101705-26	J101705-27	J101705-28				
Client Sample I.D.:	GIW 5	GIW 4	GIW 3	GIW 2				
Date/Time Sampled:	10/4/18 13:44	10/4/18 14:00	10/4/18 14:10	10/4/18 14:20				
Date/Time Analyzed:	10/18/18 13:06	10/18/18 13:20	10/18/18 13:35	10/18/18 13:49				
QC Batch No.:	181018GC8A1	181018GC8A1	181018GC8A1	181018GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	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	39	3.4	40	3.4	20	3.4	5.1 d	0.034
Carbon Dioxide	41	0.034	52	0.034	48	0.034	17	0.034
Oxygen/Argon	3.9	1.7	ND	1.7	2.5	1.7	15	1.7
Nitrogen	14	3.4	4.1	3.4	18	3.4	60	3.4
Methane	1.6	0.0034	2.5	0.0034	11	0.0034	2.4	0.0034
Carbon Monoxide	0.041	0.0034	0.18	0.0034	0.076	0.0034	0.040	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis batch 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-29	J101705-30	J101705-31	J101705-32				
Client Sample I.D.:	GIW 1	GEW 108	GEW 159	GEW 160				
Date/Time Sampled:	10/4/18 14:30	10/5/18 9:21	10/5/18 9:31	10/5/18 9:51				
Date/Time Analyzed:	10/18/18 14:04	10/18/18 14:19	10/18/18 14:33	10/18/18 14:48				
QC Batch No.:	181018GC8A1	181018GC8A1	181018GC8A1	181018GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	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	23	3.4	3.5 d	0.034	12	3.4	37	3.4
Carbon Dioxide	53	0.034	30	0.034	39	0.034	49	0.034
Oxygen/Argon	2.6	1.7	8.1	1.7	2.8	1.7	ND	1.7
Nitrogen	13	3.4	33	3.4	13	3.4	5.8	3.4
Methane	8.0	0.0034	26	0.0034	32	0.0034	6.4	0.0034
Carbon Monoxide	0.10	0.0034	0.011	0.0034	0.050	0.0034	0.17	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis batch 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-33	J101705-34	J101705-35	J101705-36				
Client Sample I.D.:	GEW 161	GEW 91	GEW 162	GEW 149				
Date/Time Sampled:	10/5/18 10:01	10/5/18 10:14	10/5/18 10:25	10/5/18 11:16				
Date/Time Analyzed:	10/18/18 15:02	10/18/18 15:17	10/18/18 15:32	10/18/18 15:46				
QC Batch No.:	181018GC8A1	181018GC8A1	181018GC8A1	181018GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	3.5	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	0.084 d	0.034	38	3.5	7.8	3.5	19	3.6
Carbon Dioxide	0.37	0.034	43	0.035	39	0.035	48	0.036
Oxygen/Argon	22	1.7	3.2	1.7	9.1	1.7	ND	1.8
Nitrogen	77	3.4	12	3.5	36	3.5	19	3.6
Methane	0.039	0.0034	2.6	0.0035	7.3	0.0035	11	0.0036
Carbon Monoxide	ND	0.0034	0.046	0.0035	0.035	0.0035	0.074	0.0036

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis batch 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-37	J101705-38	J101705-39	J101705-40				
Client Sample I.D.:	GEW 90	GEW 67A	GEW 13A	GEW 88				
Date/Time Sampled:	10/5/18 11:28	10/5/18 11:38	10/5/18 13:53	10/5/18 14:05				
Date/Time Analyzed:	10/18/18 17:43	10/18/18 17:58	10/18/18 18:46	10/18/18 19:00				
QC Batch No.:	181018GC8A2	181018GC8A2	181018GC8A2	181018GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.6	3.6	3.6	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	27	3.6	26	3.6	12	3.6	40	3.6
Carbon Dioxide	43	0.036	39	0.036	32	0.036	40	0.036
Oxygen/Argon	ND	1.8	2.7	1.8	11	1.8	2.9	1.8
Nitrogen	4.6	3.6	26	3.6	41	3.6	13	3.6
Methane	24	0.0036	4.6	0.0036	4.2	0.0036	2.4	0.0036
Carbon Monoxide	0.086	0.0036	0.042	0.0036	0.037	0.0036	0.10	0.0036

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-41	J101705-42	J101705-43	J101705-44				
Client Sample I.D.:	GEW 86	GEW 87	GEW 218	GEW 219				
Date/Time Sampled:	10/5/18 14:17	10/5/18 14:28	10/9/18 9:06	10/9/18 9:33				
Date/Time Analyzed:	10/18/18 19:15	10/18/18 20:12	10/18/18 20:26	10/18/18 20:43				
QC Batch No.:	181018GC8A2	181018GC8A2	181018GC8A2	181018GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.6	3.6	3.4	3.1				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	7.7	3.6	1.1 d	0.036	19	3.4	1.9 d	0.031
Carbon Dioxide	32	0.036	12	0.036	48	0.034	20	0.031
Oxygen/Argon	5.7	1.8	14	1.8	ND	1.7	11	1.5
Nitrogen	37	3.6	70	3.6	7.2	3.4	60	3.1
Methane	17	0.0036	2.3	0.0036	25	0.0034	6.5	0.0031
Carbon Monoxide	0.016	0.0036	0.0079	0.0036	0.080	0.0034	0.011	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A1

Reviewed/Approved By: _____

 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-45	J101705-46	J101705-47	J101705-48
Client Sample I.D.:	GEW 217	GEW 220	GEW 221	GEW 222
Date/Time Sampled:	10/9/18 9:55	10/9/18 10:16	10/9/18 10:35	10/9/18 11:09
Date/Time Analyzed:	10/18/18 20:57	10/18/18 21:12	10/18/18 21:26	10/18/18 21:41
QC Batch No.:	181018GC8A2	181018GC8A2	181018GC8A2	181018GC8A2
Analyst Initials:	MJ	MJ	MJ	MJ
Dilution Factor:	3.4	3.4	3.5	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	20	3.4	16	3.4	7.7	3.5	4.5	d 0.034
Carbon Dioxide	37	0.034	37	0.034	36	0.035	18	0.034
Oxygen/Argon	8.0	1.7	7.0	1.7	2.9	1.7	15	1.7
Nitrogen	28	3.4	36	3.4	40	3.5	51	3.4
Methane	6.3	0.0034	2.3	0.0034	13	0.0035	11	0.0034
Carbon Monoxide	0.072	0.0034	0.096	0.0034	0.020	0.0035	0.030	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A1

Reviewed/Approved By: _____


 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-49	J101705-50	J101705-51	J101705-52				
Client Sample I.D.:	GEW 223	GEW 224	GEW 225	GEW 226				
Date/Time Sampled:	10/9/18 11:32	10/9/18 11:44	10/9/18 11:55	10/9/18 13:30				
Date/Time Analyzed:	10/18/18 21:56	10/18/18 22:10	10/18/18 22:25	10/18/18 22:39				
QC Batch No.:	181018GC8A2	181018GC8A2	181018GC8A2	181018GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.5	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	17	3.5	24	3.4	22	3.5	8.9	3.5
Carbon Dioxide	38	0.035	63	0.034	41	0.035	23	0.035
Oxygen/Argon	8.8	1.7	ND	1.7	6.7	1.7	7.5	1.7
Nitrogen	32	3.5	ND	3.4	23	3.5	48	3.5
Methane	2.6	0.0035	6.2	0.0034	5.7	0.0035	11	0.0035
Carbon Monoxide	0.13	0.0035	0.24	0.0034	0.17	0.0035	0.039	0.0035

Results normalized including non-methane hydrocarbons

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

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-53	J101705-54	J101705-55	J101705-56				
Client Sample I.D.:	GEW 231	GEW 227	GEW 228	GEW 229				
Date/Time Sampled:	10/9/18 13:43	10/9/18 13:59	10/9/18 14:23	10/9/18 14:37				
Date/Time Analyzed:	10/18/18 22:54	10/18/18 23:09	10/18/18 23:23	10/19/18 1:20				
QC Batch No.:	181018GC8A2	181018GC8A2	181018GC8A2	181019GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.5	3.5	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	18	3.5	3.3 d	0.035	11	3.5	3.1 d	0.035
Carbon Dioxide	58	0.035	16	0.035	17	0.035	16	0.035
Oxygen/Argon	ND	1.7	12	1.7	9.9	1.7	8.6	1.7
Nitrogen	6.9	3.5	64	3.5	59	3.5	69	3.5
Methane	15	0.0035	3.7	0.0035	2.5	0.0035	3.0	0.0035
Carbon Monoxide	0.15	0.0035	0.019	0.0035	0.018	0.0035	0.021	0.0035

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-57	J101705-58	J101705-59	J101705-60
Client Sample I.D.:	GEW 230	GEW 151	GEW 148	GEW 15
Date/Time Sampled:	10/9/18 14:50	10/11/18 8:09	10/11/18 8:20	10/11/18 9:11
Date/Time Analyzed:	10/19/18 1:34	10/19/18 1:49	10/19/18 2:03	10/19/18 2:18
QC Batch No.:	181019GC8A1	181019GC8A1	181019GC8A1	181019GC8A1
Analyst Initials:	MJ	MJ	MJ	MJ
Dilution Factor:	3.5	3.1	3.1	3.2

ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	9.1	3.5	2.4 d	0.031	23	3.1	32	3.2
Carbon Dioxide	28	0.035	21	0.031	33	0.031	31	0.032
Oxygen/Argon	5.5	1.7	12	1.5	8.2	1.5	8.1	1.6
Nitrogen	51	3.5	58	3.1	29	3.1	28	3.2
Methane	6.0	0.0035	6.1	0.0031	7.2	0.0031	0.28	0.0032
Carbon Monoxide	0.026	0.0035	0.015	0.0031	0.11	0.0031	0.16	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A1

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-61	J101705-62	J101705-63	J101705-64				
Client Sample I.D.:	GEW 113	GEW 16R	GEW 147	GEW 135				
Date/Time Sampled:	10/11/18 9:21	10/11/18 9:30	10/11/18 9:41	10/11/18 9:53				
Date/Time Analyzed:	10/19/18 2:32	10/19/18 2:47	10/19/18 3:02	10/19/18 3:16				
QC Batch No.:	181019GC8A1	181019GC8A1	181019GC8A1	181019GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.1	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	17	3.1	10	3.2	11	3.2	13	3.2
Carbon Dioxide	45	0.031	18	0.032	23	0.032	25	0.032
Oxygen/Argon	3.9	1.5	14	1.6	11	1.6	10	1.6
Nitrogen	22	3.1	54	3.2	46	3.2	48	3.2
Methane	12	0.0031	3.7	0.0032	9.0	0.0032	3.7	0.0032
Carbon Monoxide	0.080	0.0031	0.043	0.0032	0.033	0.0032	0.050	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-65	J101705-66	J101705-67	J101705-68				
Client Sample I.D.:	GEW 134	GEW 137	GEW 155	GEW 138				
Date/Time Sampled:	10/11/18 10:04	10/11/18 11:00	10/11/18 11:16	10/11/18 11:26				
Date/Time Analyzed:	10/19/18 3:31	10/19/18 3:46	10/19/18 4:00	10/19/18 4:15				
QC Batch No.:	181019GC8A1	181019GC8A1	181019GC8A1	181019GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	4.1 d	0.032	0.28 d	0.032	2.6 d	0.032	8.1	3.2
Carbon Dioxide	22	0.032	18	0.032	12	0.032	21	0.032
Oxygen/Argon	11	1.6	11	1.6	12	1.6	5.7	1.6
Nitrogen	54	3.2	57	3.2	72	3.2	61	3.2
Methane	9.1	0.0032	13	0.0032	0.88	0.0032	4.1	0.0032
Carbon Monoxide	0.021	0.0032	ND	0.0032	0.0081	0.0032	0.036	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A2

Reviewed/Approved By: _____

Mark Johnson
 Mark Johnson
 Operations Manager

Date _____

10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-69	J101705-70	J101705-71	J101705-72				
Client Sample I.D.:	GEW 78R	GEW 82R	GEW 118	GEW 18B				
Date/Time Sampled:	10/11/18 13:32	10/11/18 13:42	10/11/18 13:53	10/11/18 14:03				
Date/Time Analyzed:	10/19/18 9:00	10/19/18 9:15	10/19/18 9:29	10/19/18 9:44				
QC Batch No.:	181019GC8A2	181019GC8A2	181019GC8A2	181019GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	6.4	3.2	24	3.2	26	3.2	15	3.2
Carbon Dioxide	12	0.032	34	0.032	30	0.032	16	0.032
Oxygen/Argon	14	1.6	2.0	1.6	9.3	1.6	15	1.6
Nitrogen	63	3.2	30	3.2	33	3.2	53	3.2
Methane	4.1	0.0032	9.5	0.0032	0.73	0.0032	1.2	0.0032
Carbon Monoxide	0.020	0.0032	0.079	0.0032	0.090	0.0032	0.051	0.0032

Results normalized including non-methane hydrocarbons

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

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-73	J101705-74	J101705-75	J101705-76				
Client Sample I.D.:	GEW 116	GEW 133	GEW 117	GEW 120				
Date/Time Sampled:	10/11/18 14:31	10/11/18 14:41	10/12/18 8:20	10/12/18 8:30				
Date/Time Analyzed:	10/19/18 9:59	10/19/18 10:13	10/19/18 10:28	10/19/18 10:42				
QC Batch No.:	181019GC8A2	181019GC8A2	181019GC8A2	181019GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	13	3.2	2.5 d	0.032	ND d	0.032	6.5	3.2
Carbon Dioxide	37	0.032	6.7	0.032	16	0.032	25	0.032
Oxygen/Argon	9.0	1.6	19	1.6	15	1.6	11	1.6
Nitrogen	33	3.2	70	3.2	53	3.2	50	3.2
Methane	7.9	0.0032	1.9	0.0032	16	0.0032	8.2	0.0032
Carbon Monoxide	0.048	0.0032	0.015	0.0032	ND	0.0032	0.028	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A2

Reviewed/Approved By: _____

Mark Johnson
 Mark Johnson
 Operations Manager

Date _____

10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-77	J101705-78	J101705-79	J101705-80				
Client Sample I.D.:	GEW 132	GEW 121	GEW 123	GEW 22R				
Date/Time Sampled:	10/12/18 8:46	10/12/18 8:57	10/12/18 9:09	10/12/18 9:20				
Date/Time Analyzed:	10/19/18 10:57	10/19/18 11:11	10/19/18 11:26	10/19/18 11:41				
QC Batch No.:	181019GC8A2	181019GC8A2	181019GC8A2	181019GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.1	3.1	3.1				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	28	3.2	11	3.1	8.4	3.1	23	3.1
Carbon Dioxide	35	0.032	24	0.031	24	0.031	33	0.031
Oxygen/Argon	5.4	1.6	9.4	1.5	9.9	1.5	9.4	1.5
Nitrogen	30	3.2	51	3.1	52	3.1	33	3.1
Methane	0.71	0.0032	4.2	0.0031	5.6	0.0031	1.7	0.0031
Carbon Monoxide	0.17	0.0032	0.058	0.0031	0.038	0.0031	0.11	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-81	J101705-82	J101705-83	J101705-84
Client Sample I.D.:	GEW 50	GEW 52	GEW 7	GEW 8
Date/Time Sampled:	10/2/18 14:34	10/2/18 14:46	10/2/18 14:58	10/4/18 8:42
Date/Time Analyzed:	10/19/18 11:55	10/19/18 12:10	10/19/18 12:24	10/19/18 12:39
QC Batch No.:	181019GC8A2	181019GC8A2	181019GC8A2	181019GC8A2
Analyst Initials:	MJ	MJ	MJ	MJ
Dilution Factor:	3.5	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	0.070	ND d	0.072	ND d	7.2	0.048 d	0.067
Carbon Dioxide	38	0.035	39	0.036	39	0.036	43	0.034
Oxygen/Argon	ND	1.7	ND	1.8	ND	1.8	ND	1.7
Nitrogen	3.8	3.5	4.1	3.6	ND	3.6	ND	3.4
Methane	57	0.0035	56	0.0036	58	0.0036	54	0.0034
Carbon Monoxide	ND	0.0035	ND	0.0036	ND	0.0036	ND	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-85	J101705-86	J101705-87	J101705-88				
Client Sample I.D.:	GEW 9	GEW 51	GEW 53	GEW 54				
Date/Time Sampled:	10/4/18 8:53	10/4/18 9:10	10/4/18 9:26	10/4/18 9:39				
Date/Time Analyzed:	10/19/18 12:53	10/19/18 13:08	10/19/18 15:36	10/19/18 15:51				
QC Batch No.:	181019GC8A2	181019GC8A2	181019GC8A3	181019GC8A3				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	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	0.46 d	0.063	0.76 d	0.063	3.7 d	0.067	2.1 d	0.067
Carbon Dioxide	40	0.032	40	0.032	42	0.034	41	0.034
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.7	ND	1.7
Nitrogen	4.9	3.2	ND	3.2	ND	3.4	ND	3.4
Methane	53	0.0032	56	0.0032	52	0.0034	54	0.0034
Carbon Monoxide	ND	0.0032	ND	0.0032	0.0074	0.0034	ND	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A2

Reviewed/Approved By: _____

Mark Johnson
 Mark Johnson
 Operations Manager

Date _____

10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-89	J101705-90	J101705-91	J101705-92				
Client Sample I.D.:	GEW 55	GEW 40	GEW 41R	GEW 42R				
Date/Time Sampled:	10/4/18 9:55	10/4/18 10:06	10/4/18 10:45	10/4/18 11:04				
Date/Time Analyzed:	10/19/18 16:05	10/19/18 16:20	10/19/18 16:34	10/19/18 16:49				
QC Batch No.:	181019GC8A3	181019GC8A3	181019GC8A3	181019GC8A3				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.3	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	2.3 d	0.063	ND d	0.065	ND d	0.063	ND d	0.063
Carbon Dioxide	42	0.032	37	0.033	37	0.032	34	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	3.5	1.6
Nitrogen	ND	3.2	3.9	3.3	ND	3.2	12	3.2
Methane	53	0.0032	59	0.0033	60	0.0032	50	0.0032
Carbon Monoxide	ND	0.0032	ND	0.0033	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-93	J101705-94	J101705-95	J101705-96
Client Sample I.D.:	GEW 43R	GEW 44	GEW 45R	GEW 46R
Date/Time Sampled:	10/4/18 11:19	10/4/18 11:30	10/4/18 13:22	10/4/18 13:35
Date/Time Analyzed:	10/19/18 17:04	10/19/18 17:18	10/19/18 17:33	10/19/18 17:48
QC Batch No.:	181019GC8A3	181019GC8A3	181019GC8A3	181019GC8A3
Analyst Initials:	MJ	MJ	MJ	MJ
Dilution Factor:	3.2	3.2	3.2	3.2

ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	0.20 d	0.063	ND d	0.063	ND d	0.063	ND d	0.063
Carbon Dioxide	41	0.032	38	0.032	41	0.032	39	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	ND	3.2	4.7	3.2	ND	3.2	3.3	3.2
Methane	56	0.0032	56	0.0032	57	0.0032	57	0.0032
Carbon Monoxide	ND	0.0032	ND	0.0032	ND	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A2

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-97	J101705-98	J101705-99	J101705-100
Client Sample I.D.:	GEW 2S	GEW 49	GEW 2	GEW 3
Date/Time Sampled:	10/4/18 13:53	10/4/18 14:08	10/4/18 14:29	10/4/18 14:38
Date/Time Analyzed:	10/19/18 18:02	10/19/18 18:17	10/19/18 18:31	10/19/18 18:46
QC Batch No.:	181019GC8A3	181019GC8A3	181019GC8A3	181019GC8A3
Analyst Initials:	MJ	MJ	MJ	MJ
Dilution Factor:	3.4	3.3	3.0	3.3

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	0.067	ND d	0.065	ND d	0.059	ND d	0.065
Carbon Dioxide	36	0.034	40	0.033	35	0.030	38	0.033
Oxygen/Argon	ND	1.7	ND	1.6	3.7	1.5	ND	1.6
Nitrogen	4.2	3.4	ND	3.3	14	3.0	12	3.3
Methane	59	0.0034	57	0.0033	48	0.0030	49	0.0033
Carbon Monoxide	ND	0.0034	ND	0.0033	ND	0.0030	ND	0.0033

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results reported from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-101	J101705-102	J101705-103	J101705-104				
Client Sample I.D.:	GEW 4	GEW 47R	GEW 5	GEW 48				
Date/Time Sampled:	10/4/18 14:49	10/5/18 8:47	10/5/18 9:08	10/5/18 9:19				
Date/Time Analyzed:	10/19/18 19:00	10/19/18 19:15	10/19/18 19:30	10/19/18 19:44				
QC Batch No.:	181019GC8A1	181019GC8A1	181019GC8A1	181019GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.3	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	0.033	ND d	0.034	ND d	0.034	ND d	0.034
Carbon Dioxide	40	0.033	40	0.034	36	0.034	39	0.034
Oxygen/Argon	ND	1.6	ND	1.7	ND	1.7	ND	1.7
Nitrogen	ND	3.3	3.7	3.4	8.4	3.4	ND	3.4
Methane	57	0.0033	55	0.0034	55	0.0034	58	0.0034
Carbon Monoxide	ND	0.0033	ND	0.0034	ND	0.0034	ND	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-105	J101705-106	J101705-107	J101705-108				
Client Sample I.D.:	GEW 6	GEW 153	GEW 59R	GEW 107				
Date/Time Sampled:	10/5/18 9:31	10/5/18 11:05	10/5/18 11:29	10/5/18 11:39				
Date/Time Analyzed:	10/19/18 19:59	10/19/18 20:13	10/20/18 0:28	10/20/18 0:42				
QC Batch No.:	181019GC8A1	181019GC8A1	181020GC8A1	181020GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	3.5	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	0.63 d	0.035	26	3.4	32	3.5
Carbon Dioxide	37	0.034	30	0.035	39	0.034	53	0.035
Oxygen/Argon	ND	1.7	5.4	1.7	ND	1.7	ND	1.7
Nitrogen	4.4	3.4	26	3.5	8.2	3.4	ND	3.5
Methane	57	0.0034	38	0.0035	25	0.0034	11	0.0035
Carbon Monoxide	ND	0.0034	ND	0.0035	0.073	0.0034	0.15	0.0035

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-109	J101705-110	J101705-111	J101705-112				
Client Sample I.D.:	GEW 152	GEW 58A	GEW 106	GEW 158				
Date/Time Sampled:	10/5/18 11:48	10/5/18 13:38	10/5/18 13:58	10/5/18 14:09				
Date/Time Analyzed:	10/20/18 0:57	10/20/18 1:12	10/20/18 1:26	10/20/18 1:41				
QC Batch No.:	181020GC8A1	181020GC8A1	181020GC8A1	181020GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.5	3.5	3.6	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	21	3.5	40	3.5	15	3.6	24	3.6
Carbon Dioxide	44	0.035	45	0.035	44	0.036	50	0.036
Oxygen/Argon	ND	1.7	2.4	1.7	3.2	1.8	ND	1.8
Nitrogen	3.6	3.5	10	3.5	16	3.6	ND	3.6
Methane	30	0.0035	1.3	0.0035	21	0.0036	22	0.0036
Carbon Monoxide	0.080	0.0035	0.15	0.0035	0.038	0.0036	0.070	0.0036

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-113	J101705-114	J101705-115	J101705-116				
Client Sample I.D.:	GEW 105	GEW 176	GEW 175	GEW 150				
Date/Time Sampled:	10/5/18 14:22	10/5/18 14:32	10/5/18 14:41	10/5/18 14:52				
Date/Time Analyzed:	10/20/18 1:56	10/20/18 2:10	10/20/18 2:25	10/20/18 2:39				
QC Batch No.:	181020GC8A1	181020GC8A1	181020GC8A1	181020GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.6	3.6	3.6	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	30	3.6	1.2 d	0.036	11	3.6	15	3.6
Carbon Dioxide	53	0.036	33	0.036	35	0.036	35	0.036
Oxygen/Argon	ND	1.8	3.8	1.8	6.4	1.8	4.4	1.8
Nitrogen	6.9	3.6	33	3.6	34	3.6	27	3.6
Methane	7.0	0.0036	28	0.0036	13	0.0036	18	0.0036
Carbon Monoxide	0.13	0.0036	0.011	0.0036	0.040	0.0036	0.057	0.0036

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-117	J101705-118	J101705-119	J101705-120				
Client Sample I.D.:	GEW 104	GEW 157	GEW 57B	GEW 156				
Date/Time Sampled:	10/5/18 15:00	10/10/18 9:33	10/10/18 9:42	10/10/18 9:52				
Date/Time Analyzed:	10/20/18 2:54	10/20/18 3:08	10/20/18 3:23	10/20/18 3:37				
QC Batch No.:	181020GC8A1	181020GC8A1	181020GC8A1	181020GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.6	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	8.0	3.6	28	3.4	35	3.4	10	3.4
Carbon Dioxide	37	0.036	48	0.034	49	0.034	41	0.034
Oxygen/Argon	ND	1.8	1.8	1.7	3.1	1.7	3.0	1.7
Nitrogen	24	3.6	6.2	3.4	11	3.4	16	3.4
Methane	29	0.0036	15	0.0034	1.2	0.0034	29	0.0034
Carbon Monoxide	0.011	0.0036	0.094	0.0034	0.092	0.0034	0.024	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-121	J101705-122	J101705-123	J101705-124				
Client Sample I.D.:	GEW 145	GEW 102	GEW 101	GEW 144				
Date/Time Sampled:	10/10/18 10:06	10/10/18 10:16	10/10/18 10:49	10/10/18 11:00				
Date/Time Analyzed:	10/21/18 10:27	10/21/18 10:42	10/21/18 10:56	10/21/18 11:11				
QC Batch No.:	181021GC8A1	181021GC8A1	181021GC8A1	181021GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	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	38	3.4	24	3.4	3.8 d	0.034	2.6 d	0.034
Carbon Dioxide	51	0.034	43	0.034	62	0.034	49	0.034
Oxygen/Argon	ND	1.7	3.9	1.7	2.3	1.7	1.9	1.7
Nitrogen	3.6	3.4	14	3.4	9.3	3.4	6.5	3.4
Methane	5.3	0.0034	14	0.0034	22	0.0034	40	0.0034
Carbon Monoxide	0.13	0.0034	0.028	0.0034	0.030	0.0034	0.028	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-125	J101705-126	J101705-127	J101705-128				
Client Sample I.D.:	GEW 68A	GEW 174	GEW 100	GEW 171				
Date/Time Sampled:	10/10/18 11:12	10/10/18 11:23	10/10/18 13:32	10/10/18 13:41				
Date/Time Analyzed:	10/21/18 11:25	10/21/18 11:40	10/21/18 11:55	10/22/18 10:55				
QC Batch No.:	181021GC8A1	181021GC8A1	181021GC8A1	181022GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.4	3.4	3.5	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	27	3.4	11	3.4	31	3.5	26	3.5
Carbon Dioxide	54	0.034	36	0.034	56	0.035	61	0.035
Oxygen/Argon	ND	1.7	2.9	1.7	2.4	1.7	ND	1.7
Nitrogen	6.4	3.4	36	3.4	8.3	3.5	3.9	3.5
Methane	11	0.0034	14	0.0034	1.1	0.0035	6.5	0.0035
Carbon Monoxide	0.15	0.0034	0.040	0.0034	0.079	0.0035	0.16	0.0035

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-129	J101705-130	J101705-131	J101705-132				
Client Sample I.D.:	GEW 172	GEW 140	GEW 173	GEW 139				
Date/Time Sampled:	10/10/18 14:08	10/10/18 14:35	10/10/18 14:46	10/10/18 15:06				
Date/Time Analyzed:	10/22/18 11:09	10/21/18 12:38	10/21/18 12:53	10/21/18 13:08				
QC Batch No.:	181022GC8A1	181021GC8A1	181021GC8A1	181021GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	2.8	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	20	2.8	36	3.4	0.79 d	0.034	38	3.4
Carbon Dioxide	43	0.028	55	0.034	7.5	0.034	54	0.034
Oxygen/Argon	5.1	1.4	ND	1.7	16	1.7	ND	1.7
Nitrogen	18	2.8	3.4	3.4	74	3.4	4.6	3.4
Methane	13	0.0028	3.3	0.0034	1.7	0.0034	0.54	0.0034
Carbon Monoxide	0.12	0.0028	0.18	0.0034	0.0043	0.0034	0.25	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-133	J101705-134	J101705-135	J101705-136				
Client Sample I.D.:	GEW 177	GEW 129	GEW 128	GEW 170				
Date/Time Sampled:	10/11/18 8:48	10/11/18 8:58	10/11/18 9:26	10/11/18 9:35				
Date/Time Analyzed:	10/21/18 13:22	10/21/18 13:37	10/21/18 13:51	10/21/18 14:06				
QC Batch No.:	181021GC8A1	181021GC8A1	181021GC8A1	181021GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.0	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	12	3.2	24	3.0	13	3.2	16	3.2
Carbon Dioxide	24	0.032	61	0.030	50	0.032	47	0.032
Oxygen/Argon	13	1.6	ND	1.5	4.2	1.6	4.6	1.6
Nitrogen	51	3.2	4.8	3.0	18	3.2	20	3.2
Methane	0.14	0.0032	8.7	0.0030	14	0.0032	12	0.0032
Carbon Monoxide	0.15	0.0032	0.23	0.0030	0.10	0.0032	0.11	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson

Mark Johnson
Operations Manager

Date: 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-137	J101705-138	J101705-139	J101705-140				
Client Sample I.D.:	GEW 127	GEW 130	GEW 169	GEW 126				
Date/Time Sampled:	10/11/18 9:45	10/11/18 10:07	10/11/18 13:34	10/11/18 13:55				
Date/Time Analyzed:	10/21/18 14:21	10/21/18 14:35	10/21/18 14:50	10/21/18 15:05				
QC Batch No.:	181021GC8A1	181021GC8A1	181021GC8A1	181021GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	15	3.2	30	3.2	20	3.2	21	3.2
Carbon Dioxide	54	0.032	50	0.032	49	0.032	50	0.032
Oxygen/Argon	1.7	1.6	1.8	1.6	2.8	1.6	3.1	1.6
Nitrogen	12	3.2	7.6	3.2	15	3.2	11	3.2
Methane	16	0.0032	11	0.0032	12	0.0032	14	0.0032
Carbon Monoxide	0.10	0.0032	0.23	0.0032	0.10	0.0032	0.14	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

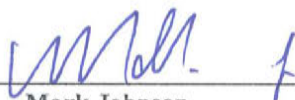
Lab No.:	J101705-141	J101705-142	J101705-143	J101705-144				
Client Sample I.D.:	GEW 168	GEW 131	GEW 125	GEW 167				
Date/Time Sampled:	10/11/18 14:07	10/11/18 14:17	10/11/18 14:54	10/12/18 8:49				
Date/Time Analyzed:	10/21/18 17:02	10/21/18 17:17	10/21/18 17:31	10/21/18 17:46				
QC Batch No.:	181021GC8A2	181021GC8A2	181021GC8A2	181021GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.3	3.3	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	7.6	6.3	42	6.5	30	6.5	21	6.3
Carbon Dioxide	36	0.032	52	0.033	41	0.033	25	0.032
Oxygen/Argon	5.9	1.6	ND	1.6	4.0	1.6	9.9	1.6
Nitrogen	35	3.2	ND	3.3	19	3.3	44	3.2
Methane	14	0.0032	2.7	0.0033	5.2	0.0033	0.56	0.0032
Carbon Monoxide	0.040	0.0032	0.25	0.0033	0.15	0.0033	0.11	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____



Mark Johnson
Operations Manager

Date _____

10/24/18

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: 10/17/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J101705-145	J101705-146	J101705-147	J101705-148				
Client Sample I.D.:	GEW 166	GEW 165	GEW 164	GEW 163				
Date/Time Sampled:	10/12/18 9:00	10/12/18 9:11	10/12/18 9:22	10/12/18 9:34				
Date/Time Analyzed:	10/21/18 18:01	10/21/18 18:15	10/21/18 18:30	10/21/18 18:45				
QC Batch No.:	181021GC8A2	181021GC8A2	181021GC8A2	181021GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	39	6.3	17	6.3	3.7 d	0.063	12	6.3
Carbon Dioxide	47	0.032	47	0.032	29	0.032	19	0.032
Oxygen/Argon	1.9	1.6	4.7	1.6	10	1.6	15	1.6
Nitrogen	8.6	3.2	19	3.2	43	3.2	53	3.2
Methane	2.9	0.0032	11	0.0032	14	0.0032	0.78	0.0032
Carbon Monoxide	0.22	0.0032	0.072	0.0032	0.025	0.0032	0.030	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Result reported from secondary analysis 181023GC8A3

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date 10/24/18

The cover letter is an integral part of this analytical report



QC Batch No: 181017GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/17/18 15:39			10/17/18 14:01		10/17/18 14:16					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.81	116	5.84	117	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.78	98	9.80	98	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	16.2	109	16.2	109	0.0	70	130	30
Nitrogen	ND	1.0	70	72.9	104	72.9	104	0.1	70	130	30
Methane	ND	0.0010	0.10	0.116	116	0.116	116	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.114	114	0.114	114	0.1	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report



QC Batch No: 181018GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/18/18 10:48			10/18/18 10:05		10/18/18 10:19					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.71	114	5.70	114	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	10.1	101	9.80	98	3.1	70	130	30
Oxygen/Argon	ND	0.50	15	16.0	108	16.3	110	1.6	70	130	30
Nitrogen	ND	1.0	70	72.3	103	73.1	105	1.1	70	130	30
Methane	ND	0.0010	0.10	0.117	117	0.115	115	1.8	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.115	115	0.113	113	2.0	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181018GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/18/18 17:28			10/18/18 16:45		10/18/18 16:59					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	6.05	121	6.10	122	0.7	70	130	30
Carbon Dioxide	ND	0.010	10	10.1	101	10.1	100	0.8	70	130	30
Oxygen/Argon	ND	0.50	15	16.3	110	16.3	110	0.2	70	130	30
Nitrogen	ND	1.0	70	73.5	105	73.2	105	0.3	70	130	30
Methane	ND	0.0010	0.10	0.115	115	0.115	115	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.115	115	0.115	115	0.3	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report



QC Batch No: 181019GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/19/18 1:05			10/19/18 0:21		10/19/18 0:36					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.96	119	5.95	119	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	9.96	99	9.95	99	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	16.2	109	16.1	109	0.2	70	130	30
Nitrogen	ND	1.0	70	72.8	104	72.6	104	0.3	70	130	30
Methane	ND	0.0010	0.10	0.114	114	0.114	114	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.114	114	0.113	113	0.3	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report



QC Batch No: 181019GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/19/18 5:57			10/19/18 5:13		10/19/18 5:28					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.93	119	5.93	119	0.1	70	130	30
Carbon Dioxide	ND	0.010	10	9.86	98	9.89	99	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	16.1	109	16.1	109	0.0	70	130	30
Nitrogen	ND	1.0	70	72.6	104	72.5	104	0.1	70	130	30
Methane	ND	0.0010	0.10	0.105	105	0.101	101	3.6	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.104	104	0.1000	100	3.7	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181019GC8A3
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/19/18 15:22			10/19/18 14:38		10/19/18 14:52					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.82	116	5.84	117	0.3	70	130	30
Carbon Dioxide	ND	0.010	10	9.96	99	9.89	99	0.7	70	130	30
Oxygen/Argon	ND	0.50	15	16.3	110	16.2	109	0.3	70	130	30
Nitrogen	ND	1.0	70	73.3	105	73.0	104	0.5	70	130	30
Methane	ND	0.0010	0.10	0.113	113	0.114	114	0.7	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.112	112	0.113	113	0.7	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report

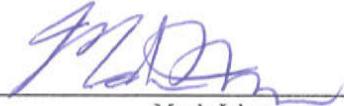


QC Batch No: 181020GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/20/18 0:13			10/19/18 23:29		10/19/18 23:44					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.79	116	5.76	115	0.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.87	99	9.82	98	0.5	70	130	30
Oxygen/Argon	ND	0.50	15	16.2	109	16.2	109	0.1	70	130	30
Nitrogen	ND	1.0	70	72.9	104	72.8	104	0.2	70	130	30
Methane	ND	0.0010	0.10	0.114	114	0.114	114	0.0	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.112	112	0.112	112	0.1	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181021GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	10/21/18 5:32			10/21/18 4:48		10/21/18 5:03					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.27	105	5.46	109	3.5	70	130	30
Carbon Dioxide	ND	0.010	10	9.28	93	9.61	96	3.5	70	130	30
Oxygen/Argon	ND	0.50	15	15.7	106	16.2	109	3.3	70	130	30
Nitrogen	ND	1.0	70	70.4	101	72.7	104	3.3	70	130	30
Methane	ND	0.0010	0.10	0.114	114	0.114	114	0.5	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.111	111	0.110	110	0.5	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181021GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS		LCSD						
Date Analyzed:	10/21/18 16:47		10/21/18 16:03		10/21/18 16:18						
Analyst Initials:	AS		AS		AS						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.35	107	5.34	107	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	9.74	97	9.66	96	0.8	70	130	30
Oxygen/Argon	ND	0.50	15	16.3	110	16.3	110	0.1	70	130	30
Nitrogen	ND	1.0	70	73.3	105	73.3	105	0.0	70	130	30
Methane	ND	0.0010	0.10	0.112	112	0.112	112	0.0	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.110	110	0.110	110	0.1	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181023GC8A1
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK		LCS	LCS	LCS	LCS	LCS	Limits				
Date Analyzed:	10/23/18 9:50		10/23/18 9:41	10/23/18 9:41	10/23/18 9:45	10/23/18 9:45	10/23/18 9:45					
Analyst Initials:	MJ		MJ	MJ	MJ	MJ	MJ					
Dilution Factor:	1.0		1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD	
Hydrogen	ND	0.010	1.0	1.23	123	1.23	123	0.2	70	130	30	

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181023GC8A2
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCS					
Date Analyzed:	10/23/18 13:49			10/23/18 13:40		10/23/18 13:44					
Analyst Initials:	MJ			MJ		MJ					
Dilution Factor:	1.0			1.0		1.0					
									Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	1.21	121	1.20	120	0.1	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report




QC Batch No: 181023GC8A3
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK		LCS	LCS	Limits						
Date Analyzed:	10/23/18 15:31		10/23/18 15:22	10/23/18 15:27							
Analyst Initials:	MJ		MJ	MJ							
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	0.010	1.0	1.19	119	1.19	119	0.4	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-29-18

The cover letter is an integral part of this analytical report




QC Batch No: 181023GC8A4
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCS D			Limits			
Date Analyzed:	10/23/18 19:27			10/23/18 19:18		10/23/18 19:23						
Analyst Initials:	MJ			MJ		MJ						
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	0.010	1.0	1.19	119	1.19	119	0.1	70	130	30	

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 10-24-18

The cover letter is an integral part of this analytical report





October 31, 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: J102602-01/02

Enclosed are results for sample(s) received 10/26/18 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 10/30/18.

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 that appears to read "Mark Johnson".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

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



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

CHAIN OF CUSTODY RECORD

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

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

LAB USE ONLY	SAMPLE IDENTIFICATION			SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	ANALYSIS REQUEST
	Cannister ID	Sample Start	Sample End						
J102602-01	5267	-19.7	-5	10/24/2018	14:02	C	LFG	NA	D1946 + CO, H2
L - 02	4657	-20.7	-5	10/24/2018	14:12	C	LFG	NA	

LABORATORY USE ONLY

Authorization to Perform Work: Dave Penoyer **Company:** Republic Services

Sampled By: Anthony Kimutis **Company:** Republic Services **Date/Time:** 10/24/18

Relinquished By: [Signature] **Date/Time:** 10/25/18 **Received By:** [Signature]

Relinquished By: [Signature] **Date/Time:** 10/26/18 **Received By:** [Signature]

Relinquished By: [Signature] **Date/Time:** 10/26/18 **Received By:** [Signature]

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: 10/26/18
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	J102602-01	J102602-02						
Client Sample I.D.:	GEW 122	GEW 124						
Date/Time Sampled:	10/24/18 14:02	10/24/18 14:12						
Date/Time Analyzed:	10/30/18 2:35	10/30/18 2:49						
QC Batch No.:	181029GC8A1	181029GC8A1						
Analyst Initials:	MJ	MJ						
Dilution Factor:	3.1	3.2						
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v				
Hydrogen	16	3.1	ND	3.2				
Carbon Dioxide	36	0.031	28	0.032				
Oxygen/Argon	2.8	1.5	7.3	1.6				
Nitrogen	22	3.1	25	3.2				
Methane	24	0.0031	39	0.0032				
Carbon Monoxide	0.061	0.0031	ND	0.0032				

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: Mark Johnson
 Mark Johnson
 Operations Manager

Date: 10/30/18

The cover letter is an integral part of this analytical report



QC Batch No: 181029GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:		METHOD BLANK		LCS		LCSD					
Date Analyzed:		10/29/18 11:09		10/29/18 10:40		10/29/18 10:54					
Analyst Initials:		MJ		MJ		MJ					
Dilution Factor:		1.0		1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.20	104	5.24	105	0.8	70	130	30
Carbon Dioxide	0.021	0.010	10	9.64	96	9.53	95	1.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.8	107	16.3	110	3.3	70	130	30
Nitrogen	ND	1.0	70	71.3	102	73.3	105	2.8	70	130	30
Methane	ND	0.0010	0.10	0.117	117	0.115	115	1.7	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.112	112	0.110	110	1.6	70	130	30

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

Reviewed/Approved By: _____ *Mark Johnson* _____ Date: 10/30/18
Mark Johnson
 Operations Manager

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

ATTACHMENT D

GAS WELLFIELD DATA

ATTACHMENT D-1

WELLFIELD DATA TABLE

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-002	10/4/2018 14:25	56.6	40.4	0.0	3.0	114.8	114.8	19.2	19.2	-0.37	-0.37	-13.7
GEW-002	10/4/2018 14:31	57.2	39.4	0.0	3.4	114.8	114.8	19.8	21.9	-0.4	-0.4	-13.7
GEW-002	10/8/2018 14:03	55.8	40.3	0.0	3.9	115.5	115.5	15.9	23.0	-0.4	-0.3	-13.5
GEW-002	10/19/2018 9:39	55.7	39.7	0.0	4.6	113.7	113.7	21.6	22.1	-0.4	-0.4	-13.8
GEW-002	10/22/2018 11:30	55.4	40.1	0.0	4.5	114.9	114.8	23.0	22.4	-0.5	-0.5	-13.7
GEW-002	10/30/2018 9:29	54.0	39.2	0.0	6.8	107.5	110.2	44.4	46.6	-2.2	-2.3	-13.5
GEW-002	10/30/2018 9:31	53.1	40.0	0.0	6.9	112.0	112.0	32.2	33.3	-1.1	-1.1	-13.8
GEW-003	10/4/2018 14:35	50.0	37.8	0.0	12.2	114.0	114.0	6.0	10.8	-0.1	-0.1	-12.8
GEW-003	10/4/2018 14:42	49.5	38.3	0.0	12.2	114.0	113.8	15.7	14.8	-0.1	-0.1	-13.2
GEW-003	10/8/2018 14:06	50.1	39.5	0.0	10.4	119.9	119.9	7.1	11.4	-0.02	-0.03	-12.9
GEW-003	10/19/2018 9:48	49.7	37.9	0.0	12.4	111.5	111.3	11.2	9.8	-0.1	-0.1	-12.7
GEW-003	10/19/2018 9:51	49.7	39.2	0.0	11.1	111.9	111.7	8.0	7.2	-0.1	-0.1	-13.1
GEW-003	10/22/2018 11:33	49.1	37.7	0.0	13.2	114.3	114.5	9.3	12.9	-0.2	-0.2	-12.9
GEW-003	10/22/2018 11:34	48.3	38.2	0.0	13.5	113.5	113.0	7.6	6.6	-0.1	-0.1	-13.0
GEW-003	10/30/2018 9:34	53.0	41.3	0.0	5.7	108.7	108.7	7.2	6.1	0.1	0.1	-13.2
GEW-003	10/30/2018 9:36	52.7	42.2	0.0	5.1	109.2	109.0	7.7	6.1	0.04	0.04	-13.3
GEW-003	10/31/2018 7:47	48.9	40.5	0.0	10.6	106.5	106.2	11.3	8.7	-0.3	-0.3	-13.1
GEW-003	10/31/2018 7:49	49.2	40.0	0.0	10.8	102.5	102.5	17.7	17.9	-0.2	-0.2	-12.8
GEW-004	10/4/2018 14:45	56.4	40.0	0.0	3.6	111.5	111.3	9.8	10.5	-0.1	-0.1	-12.7
GEW-004	10/4/2018 14:52	57.2	39.3	0.0	3.5	111.2	111.4	15.2	15.3	-0.1	-0.1	-12.7
GEW-004	10/8/2018 14:10	54.9	40.7	0.0	4.4	114.5	114.5	24.3	24.2	0.03	0.01	-12.7
GEW-004	10/8/2018 14:12	54.9	41.3	0.0	3.8	115.3	115.3	11.1	7.1	0.1	0.1	-12.9
GEW-004	10/9/2018 9:00	56.1	41.0	0.0	2.9	114.6	114.8	3.8	3.8	-0.2	-0.2	-12.5
GEW-004	10/19/2018 9:55	55.5	40.4	0.0	4.1	108.7	108.5	14.4	17.1	-0.2	-0.2	-13.0
GEW-004	10/22/2018 11:37	55.1	39.8	0.0	5.1	112.5	112.5	26.6	23.9	-0.2	-0.2	-11.6
GEW-004	10/30/2018 9:39	54.1	40.6	0.0	5.3	111.0	111.2	19.0	19.4	-0.1	-0.1	-13.2
GEW-005	10/5/2018 8:56	54.1	38.3	0.0	7.6	90.6	90.6	23.6	24.4	-0.1	-0.1	-13.3
GEW-005	10/5/2018 9:11	54.6	36.7	0.0	8.7	90.9	90.9	32.6	32.6	-0.2	-0.1	-13.7
GEW-005	10/8/2018 14:25	53.4	38.7	0.0	7.9	92.9	92.9	12.1	12.2	0.1	0.1	-13.6
GEW-005	10/8/2018 14:27	54.0	38.2	0.0	7.8	92.9	92.9	15.3	10.3	0.02	0.03	-14.0
GEW-005	10/9/2018 9:08	53.5	38.3	0.0	8.2	91.0	91.0	11.4	12.0	-0.2	-0.2	-13.3
GEW-005	10/19/2018 10:46	54.2	38.8	0.0	7.0	87.0	87.0	10.7	11.8	0.3	0.3	-13.3
GEW-005	10/19/2018 10:48	54.8	38.1	0.0	7.1	87.8	87.8	14.9	13.0	0.2	0.2	-13.5
GEW-005	10/22/2018 13:44	53.0	37.5	0.0	9.5	91.0	91.0	27.3	26.4	-0.02	-0.02	-13.7
GEW-005	10/30/2018 9:57	52.0	37.7	0.0	10.3	89.3	89.3	11.7	11.0	-0.2	-0.2	-13.5
GEW-005	10/30/2018 9:58	52.1	38.1	0.0	9.8	89.4	89.3	11.0	15.1	-0.1	-0.1	-13.9
GEW-006	10/5/2018 9:27	58.1	37.4	0.0	4.5	89.1	89.2	30.1	30.5	-0.2	-0.2	-13.2
GEW-006	10/5/2018 9:34	57.9	37.7	0.0	4.4	89.3	89.3	13.0	13.3	-0.2	-0.2	-13.2
GEW-006	10/9/2018 9:15	56.9	39.0	0.0	4.1	89.3	89.3	12.9	12.0	-0.1	-0.1	-13.8
GEW-006	10/19/2018 10:56	58.9	39.5	0.0	1.6	86.8	86.5	13.3	12.4	0.2	0.2	-13.1
GEW-006	10/19/2018 10:58	58.7	39.4	0.0	1.9	86.7	86.7	12.7	10.4	0.3	0.3	-13.2
GEW-006	10/22/2018 13:53	58.4	37.9	0.0	3.7	89.6	89.6	32.4	33.2	-0.02	-0.02	-13.5

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-006	10/22/2018 13:55	58.6	37.8	0.0	3.6	89.8	89.8	32.3	32.0	-0.1	-0.1	-13.4
GEW-006	10/30/2018 10:06	56.2	38.1	0.0	5.7	87.8	87.9	29.0	29.0	-0.2	-0.2	-13.3
GEW-007	10/2/2018 14:54	57.7	39.9	0.0	2.4	97.0	97.0	10.6	11.3	-0.1	-0.1	-13.7
GEW-007	10/2/2018 15:01	57.5	39.3	0.0	3.2	97.2	97.2	11.0	12.5	-0.1	-0.1	-13.7
GEW-007	10/8/2018 10:23	57.6	39.7	0.0	2.7	93.6	93.6	7.3	8.2	-0.6	-0.6	-13.1
GEW-007	10/16/2018 11:23	58.2	39.3	0.0	2.5	87.0	87.2	8.0	8.0	0.0	0.0	-13.1
GEW-007	10/16/2018 11:24	58.0	40.7	0.0	1.3	87.9	87.9	9.3	10.1	-0.2	-0.2	-13.0
GEW-007	10/22/2018 9:10	58.5	39.7	0.0	1.8	85.9	86.1	10.0	9.2	-0.8	-0.8	-13.2
GEW-007	10/29/2018 9:07	58.6	40.4	0.0	1.0	85.6	85.8	7.3	7.3	-1.1	-1.1	-13.0
GEW-008	10/4/2018 8:38	53.5	43.6	0.0	2.9	112.7	112.7	33.1	32.9	-1.2	-1.2	-13.6
GEW-008	10/4/2018 8:46	53.7	43.4	0.0	2.9	113.0	112.7	15.4	15.3	-1.2	-1.2	-13.7
GEW-008	10/8/2018 10:26	52.9	42.5	0.0	4.6	114.4	114.4	15.2	15.2	-0.7	-0.7	-13.2
GEW-008	10/16/2018 11:28	54.3	42.0	0.0	3.7	111.5	111.6	8.7	5.0	-0.4	-0.4	-13.2
GEW-008	10/22/2018 9:13	54.2	41.4	0.0	4.4	111.7	111.7	21.6	20.2	-0.7	-0.7	-13.3
GEW-008	10/29/2018 9:11	54.2	42.1	0.0	3.7	112.2	112.0	29.7	29.7	-0.7	-0.7	-13.5
GEW-009	10/4/2018 8:50	53.4	41.9	0.0	4.7	122.1	122.1	24.2	23.8	-0.4	-0.4	-13.7
GEW-009	10/4/2018 8:57	54.2	40.7	0.0	5.1	122.1	121.9	27.8	28.1	-0.4	-0.4	-13.4
GEW-009	10/8/2018 10:29	53.1	41.9	0.0	5.0	125.0	125.0	15.4	17.1	-0.1	-0.1	-13.3
GEW-009	10/16/2018 11:31	53.6	41.9	0.0	4.5	122.1	122.3	26.6	26.6	0.04	0.04	-13.4
GEW-009	10/16/2018 11:33	53.9	42.1	0.0	4.0	123.6	123.4	26.1	25.7	-0.04	-0.03	-13.2
GEW-009	10/22/2018 9:17	51.9	41.3	0.0	6.8	121.8	121.8	25.3	24.7	-0.2	-0.2	-13.3
GEW-009	10/22/2018 9:18	51.9	41.1	0.0	7.0	121.5	121.3	25.3	24.4	-0.2	-0.2	-13.6
GEW-009	10/29/2018 9:14	52.2	42.2	0.0	5.6	121.4	121.0	25.3	24.7	-0.2	-0.2	-13.0
GEW-010	10/4/2018 11:43	55.2	43.6	0.0	1.2	68.3	68.3	3.8	2.8	-0.8	-0.8	-20.1
GEW-010	10/4/2018 11:48	55.4	42.9	0.0	1.7	68.5	68.5	3.7	3.2	-0.8	-0.8	-20.2
GEW-010	10/8/2018 14:42	53.8	42.1	0.0	4.1	98.2	98.2	3.9	3.6	-0.3	-0.3	-18.7
GEW-010	10/19/2018 13:16	57.3	40.0	0.0	2.7	60.2	60.2	6.5	6.0	-0.2	-0.2	-20.4
GEW-010	10/22/2018 14:09	55.3	39.9	0.0	4.8	86.8	86.8	3.7	3.7	-0.4	-0.4	-20.3
GEW-010	10/31/2018 9:19	57.4	40.1	0.0	2.5	57.8	57.8	4.8	4.8	-0.7	-0.7	-20.1
GEW-013A	10/5/2018 13:49	9.4	60.1	0.6	29.9	190.2	190.2	9.4	5.2	-10.8	-10.4	-20.2
GEW-013A	10/5/2018 13:57	9.1	63.3	0.6	27.0	190.9	190.2	9.4	7.2	-10.8	-11.3	-20.1
GEW-013A	10/19/2018 10:13	10.3	59.3	0.5	29.9	189.3	188.9	3.9	8.9	-11.1	-11.0	-20.1
GEW-013A	10/19/2018 10:15	9.9	59.6	0.5	30.0	188.9	189.5	14.6	14.4	-11.0	-11.1	-20.4
GEW-015	10/11/2018 9:07	0.5	52.7	0.0	46.8	55.2	55.2	3.2	4.1	-1.3	-1.3	-20.0
GEW-015	10/11/2018 9:13	0.4	51.0	0.0	48.6	56.5	56.5	4.0	5.6	-1.3	-1.3	-20.3
GEW-016R	10/11/2018 9:27	10.3	49.9	0.1	39.7	175.3	175.3	NFD		-20.0	-20.0	-20.1
GEW-016R	10/11/2018 9:33	10.3	48.9	0.3	40.5	174.2	174.2	NFD		-20.0	-20.0	-20.1
GEW-016R	10/24/2018 11:10	7.6	44.7	0.0	47.7	172.1	171.9	NFD		-19.3	-19.3	-19.5
GEW-016R	10/24/2018 11:12	7.1	47.6	0.0	45.3	172.1	172.1	NFD		-19.0	-19.0	-19.2
GEW-018B	10/11/2018 13:59	2.1	28.6	10.2	59.1	153.3	153.3	3.4	3.6	-1.9	-1.9	-19.0
GEW-018B	10/11/2018 14:06	2.2	26.5	9.9	61.4	153.3	153.3	2.3	1.5	-1.9	-1.9	-18.6
GEW-018B	10/24/2018 11:24	1.7	28.2	10.7	59.4	149.5	149.4	6.1	5.6	-1.7	-1.7	-19.5

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-018B	10/24/2018 11:26	1.4	24.0	11.9	62.7	131.8	131.4	2.6	2.1	-0.4	-0.4	-19.2
GEW-022R	10/12/2018 9:16	3.5	55.6	0.7	40.2	53.9	53.7	5.3	3.6	-20.3	-20.7	-20.7
GEW-022R	10/12/2018 9:22	3.2	54.9	0.9	41.0	50.7	50.7	3.6	3.4	-20.2	-20.2	-20.2
GEW-038	10/4/2018 8:37	22.5	42.6	4.4	30.5	70.9	70.9	3.0	2.8	-0.7	-0.7	-17.7
GEW-038	10/4/2018 8:44	22.7	41.9	4.3	31.1	70.8	70.9	3.8	3.2	-0.7	-0.7	-17.2
GEW-038	10/10/2018 8:08	25.3	50.2	0.1	24.4	70.9	70.9	1.7	1.7	-0.3	-0.3	-16.7
GEW-039	10/4/2018 9:13	29.3	35.6	2.4	32.7	110.2	110.0	19.3	19.4	-0.8	-0.9	-19.7
GEW-039	10/4/2018 9:20	29.0	34.6	2.5	33.9	110.6	110.6	18.1	16.2	-0.9	-0.8	-19.3
GEW-039	10/10/2018 8:15	33.8	41.3	0.5	24.4	112.4	112.4	17.2	20.0	-1.0	-0.9	-19.7
GEW-039	10/19/2018 13:56	35.3	40.8	0.0	23.9	109.7	109.8	15.8	17.7	-0.8	-0.8	-20.6
GEW-039	10/23/2018 9:10	26.7	34.9	2.6	35.8	114.0	114.0	20.6	10.7	-0.9	-0.9	-19.3
GEW-039	10/31/2018 10:41	28.4	36.9	1.6	33.1	107.9	107.5	19.2	16.0	-0.9	-0.9	-19.9
GEW-040	10/4/2018 10:02	58.8	39.1	0.0	2.1	74.7	74.7	10.4	8.4	-0.6	-0.6	-12.7
GEW-040	10/4/2018 10:10	59.7	37.2	0.0	3.1	74.5	74.5	11.8	11.2	-0.6	-0.6	-12.3
GEW-040	10/8/2018 11:20	57.4	39.0	0.0	3.6	84.4	84.7	9.8	6.6	-0.6	-0.6	-12.4
GEW-040	10/19/2018 9:05	55.8	38.7	0.0	5.5	56.3	56.2	6.4	7.0	-0.6	-0.6	-12.9
GEW-040	10/22/2018 10:57	56.2	37.9	0.0	5.9	63.5	63.5	1.6	2.7	-0.5	-0.6	-13.2
GEW-040	10/29/2018 9:41	55.3	39.4	0.0	5.3	57.2	57.2	2.7	2.1	-0.6	-0.6	-12.9
GEW-041R	10/4/2018 10:42	60.7	37.8	0.0	1.5	95.9	95.8	24.7	25.3	-0.3	-0.3	-12.7
GEW-041R	10/4/2018 10:53	60.7	37.8	0.0	1.5	95.6	95.7	10.6	11.3	-0.3	-0.3	-12.7
GEW-041R	10/8/2018 11:24	58.6	38.0	0.0	3.4	102.1	102.1	9.4	9.4	-0.2	-0.2	-12.6
GEW-041R	10/19/2018 9:08	58.1	37.3	0.0	4.6	93.1	93.1	17.4	16.5	-0.1	-0.2	-12.7
GEW-041R	10/22/2018 11:01	57.8	37.0	0.0	5.2	97.2	97.2	14.2	13.7	-0.2	-0.2	-12.9
GEW-041R	10/29/2018 9:44	58.2	38.0	0.0	3.8	97.7	97.7	12.2	10.6	-0.2	-0.2	-12.7
GEW-042R	10/4/2018 11:01	59.5	39.0	0.0	1.5	104.8	104.3	9.8	10.2	-1.2	-1.2	-12.7
GEW-042R	10/4/2018 11:08	58.4	40.3	0.0	1.3	105.0	104.8	30.1	30.3	-1.2	-1.2	-12.7
GEW-042R	10/8/2018 13:17	57.2	40.0	0.0	2.8	108.7	108.7	10.8	9.8	-0.8	-0.8	-12.7
GEW-042R	10/19/2018 9:10	59.2	38.8	0.0	2.0	102.1	102.1	8.2	8.2	-1.1	-1.1	-13.0
GEW-042R	10/22/2018 11:04	57.2	39.2	0.0	3.6	104.1	104.0	40.0	40.0	-1.1	-1.1	-13.0
GEW-042R	10/29/2018 9:47	58.3	40.4	0.0	1.3	103.5	103.5	4.5	4.4	-1.2	-1.3	-13.0
GEW-043R	10/4/2018 11:15	56.9	41.0	0.0	2.1	122.5	122.3	8.9	16.5	-0.7	-0.7	-12.9
GEW-043R	10/4/2018 11:21	56.9	41.3	0.0	1.8	122.6	122.3	14.9	15.4	-0.7	-0.7	-13.2
GEW-043R	10/8/2018 13:22	55.5	41.3	0.0	3.2	123.7	123.9	15.6	13.4	-0.2	-0.2	-13.2
GEW-043R	10/19/2018 9:16	57.0	40.3	0.0	2.7	122.1	122.1	7.1	13.7	-0.3	-0.3	-13.1
GEW-043R	10/22/2018 11:08	56.1	40.8	0.0	3.1	122.4	122.3	15.4	15.4	-0.4	-0.4	-13.2
GEW-043R	10/29/2018 9:50	56.0	41.8	0.0	2.2	118.1	118.1	16.7	18.4	-0.6	-0.6	-13.1
GEW-044	10/4/2018 11:26	56.4	39.6	0.0	4.0	87.7	87.7	21.7	21.7	-0.6	-0.6	-12.3
GEW-044	10/4/2018 11:32	57.3	39.1	0.0	3.6	88.8	88.6	27.3	26.9	-0.7	-0.7	-12.8
GEW-044	10/8/2018 13:25	56.5	40.4	0.0	3.1	101.8	101.8	25.3	24.2	-0.3	-0.3	-12.9
GEW-044	10/19/2018 9:19	55.9	41.2	0.0	2.9	80.5	80.8	21.7	21.5	-0.2	-0.2	-12.7
GEW-044	10/22/2018 11:12	55.9	39.7	0.0	4.4	94.1	94.1	35.6	36.2	-0.4	-0.4	-13.1
GEW-044	10/29/2018 9:53	52.3	40.1	0.0	7.6	91.7	92.2	42.3	42.4	-0.5	-0.5	-12.9

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-044	10/29/2018 9:55	52.5	40.0	0.0	7.5	90.9	90.1	9.9	9.9	-0.5	-0.5	-13.0
GEW-045R	10/4/2018 13:18	57.9	40.1	0.0	2.0	86.7	86.6	11.4	11.4	-0.4	-0.4	-12.7
GEW-045R	10/4/2018 13:25	57.5	40.5	0.0	2.0	87.7	87.7	8.3	7.8	-0.4	-0.4	-12.4
GEW-045R	10/8/2018 13:30	56.3	41.3	0.0	2.4	97.4	97.4	9.1	9.5	-0.2	-0.2	-12.9
GEW-045R	10/19/2018 9:23	56.5	41.6	0.0	1.9	78.7	78.5	6.3	7.4	0.04	0.1	-12.9
GEW-045R	10/19/2018 9:25	56.3	42.4	0.0	1.3	79.5	79.4	7.4	6.8	-0.1	-0.1	-12.7
GEW-045R	10/22/2018 11:16	57.6	40.1	0.0	2.3	89.1	89.1	13.2	12.9	-0.6	-0.6	-13.1
GEW-045R	10/30/2018 9:18	56.8	42.5	0.0	0.7	87.7	87.7	10.0	10.0	-0.2	-0.2	-13.2
GEW-046R	10/4/2018 13:31	58.1	39.0	0.0	2.9	95.5	95.7	27.3	26.9	-0.02	-0.02	-12.7
GEW-046R	10/4/2018 13:38	58.2	38.9	0.0	2.9	95.9	96.0	7.8	7.8	-0.02	-0.02	-12.7
GEW-046R	10/8/2018 13:57	57.0	39.0	0.0	4.0	100.8	100.8	10.6	11.9	-0.1	-0.1	-11.9
GEW-046R	10/19/2018 9:29	56.9	40.6	0.0	2.5	92.4	92.7	11.7	9.1	-0.1	-0.1	-12.9
GEW-046R	10/22/2018 11:19	57.2	39.7	0.0	3.1	95.8	95.5	7.3	6.7	-0.2	-0.2	-13.2
GEW-046R	10/30/2018 9:20	56.9	41.0	0.0	2.1	94.4	94.3	10.3	9.5	-0.1	-0.1	-13.2
GEW-047R	10/5/2018 8:44	55.5	40.8	0.0	3.7	106.2	106.2	9.9	10.3	-0.1	-0.1	-12.8
GEW-047R	10/5/2018 8:51	55.6	40.4	0.0	4.0	107.0	106.8	18.1	17.9	-0.1	-0.1	-12.6
GEW-047R	10/8/2018 14:20	54.0	41.7	0.0	4.3	112.5	112.2	6.0	6.8	0.2	0.1	-12.8
GEW-047R	10/8/2018 14:22	54.4	41.7	0.0	3.9	113.0	113.0	34.2	30.8	0.1	0.1	-12.9
GEW-047R	10/9/2018 9:04	55.4	40.4	0.0	4.2	109.8	109.8	9.0	9.0	-0.1	-0.1	-13.2
GEW-047R	10/19/2018 10:02	56.0	40.3	0.0	3.7	104.0	103.8	17.9	16.4	0.2	0.2	-13.0
GEW-047R	10/19/2018 10:03	55.8	41.3	0.0	2.9	105.0	105.0	21.6	21.6	0.1	0.1	-12.9
GEW-047R	10/22/2018 13:39	55.0	39.9	0.0	5.1	111.2	111.2	26.4	26.9	0.1	0.1	-13.3
GEW-047R	10/22/2018 13:41	55.0	39.8	0.0	5.2	111.5	111.5	9.0	4.7	0.1	0.1	-13.5
GEW-047R	10/23/2018 8:14	55.4	39.2	0.0	5.4	105.3	105.2	9.8	10.2	-0.4	-0.4	-13.2
GEW-047R	10/30/2018 9:46	54.2	40.5	0.0	5.3	108.7	109.0	27.8	26.4	-0.1	-0.1	-13.5
GEW-048	10/5/2018 9:15	57.7	39.3	0.0	3.0	101.1	101.1	29.7	29.3	-0.2	-0.2	-12.9
GEW-048	10/5/2018 9:21	58.1	38.5	0.0	3.4	100.9	100.9	12.9	13.2	-0.2	-0.2	-13.4
GEW-048	10/9/2018 9:10	57.7	39.0	0.0	3.3	101.4	101.4	5.5	5.5	-0.2	-0.2	-12.5
GEW-048	10/19/2018 10:51	58.5	39.2	0.0	2.3	97.6	97.5	7.1	8.7	0.3	0.3	-13.3
GEW-048	10/19/2018 10:53	58.0	39.7	0.0	2.3	97.7	97.4	11.0	10.6	0.3	0.4	-13.4
GEW-048	10/22/2018 13:48	57.8	38.1	0.0	4.1	101.1	101.1	8.2	7.7	0.01	0.02	-13.6
GEW-048	10/22/2018 13:50	57.5	39.1	0.0	3.4	101.1	101.0	9.1	9.1	-0.02	-0.02	-13.4
GEW-048	10/30/2018 10:01	57.3	39.9	0.0	2.8	99.1	99.1	24.7	23.5	-0.2	-0.2	-13.2
GEW-049	10/4/2018 14:05	57.2	39.7	0.0	3.1	103.3	103.3	6.9	7.4	0.02	0.02	-13.2
GEW-049	10/4/2018 14:12	57.9	39.3	0.0	2.8	103.3	103.0	10.2	9.6	-0.02	-0.02	-12.7
GEW-049	10/9/2018 9:22	56.3	40.1	0.0	3.6	105.8	105.8	28.0	28.2	-0.1	-0.1	-12.6
GEW-049	10/19/2018 10:41	57.4	39.9	0.0	2.7	99.9	99.9	31.5	31.5	0.3	0.3	-12.8
GEW-049	10/19/2018 10:43	57.5	40.1	0.0	2.4	101.3	101.5	37.9	37.8	0.2	0.2	-13.0
GEW-049	10/22/2018 14:01	56.5	39.0	0.0	4.5	106.0	106.0	5.4	6.1	-0.04	-0.04	-13.3
GEW-049	10/22/2018 14:03	56.0	39.8	0.0	4.2	106.0	106.0	9.8	10.5	-0.1	-0.1	-13.5
GEW-049	10/30/2018 9:49	55.4	40.2	0.0	4.4	103.8	103.8	8.6	9.8	-0.2	-0.2	-13.2
GEW-050	10/2/2018 14:30	57.3	39.6	0.0	3.1	107.0	107.0	30.0	29.6	-0.1	-0.1	-8.9

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-050	10/2/2018 14:37	57.1	39.4	0.0	3.5	107.0	107.0	29.4	29.1	-0.1	-0.1	-10.3
GEW-050	10/8/2018 10:17	57.9	38.1	0.0	4.0	105.7	105.7	16.3	8.6	-0.5	-0.5	-9.3
GEW-050	10/16/2018 11:14	57.9	39.4	0.0	2.7	103.4	103.1	12.0	4.2	-0.1	-0.1	-8.9
GEW-050	10/22/2018 9:00	58.1	39.8	0.0	2.1	102.3	102.3	14.8	14.6	-0.4	-0.4	-9.4
GEW-050	10/29/2018 9:00	58.5	39.1	0.0	2.4	102.5	102.6	22.3	20.0	-0.5	-0.5	-11.8
GEW-051	10/4/2018 9:06	56.5	41.5	0.0	2.0	120.5	120.5	12.8	13.6	-1.5	-1.5	-13.0
GEW-051	10/4/2018 9:14	56.1	41.0	0.0	2.9	120.2	120.2	13.1	13.6	-1.5	-1.5	-13.1
GEW-051	10/8/2018 10:34	54.8	41.4	0.0	3.8	123.1	122.9	10.4	12.2	-0.8	-0.8	-13.1
GEW-051	10/16/2018 11:37	55.2	41.6	0.0	3.2	120.2	120.4	15.3	18.1	-0.4	-0.4	-12.9
GEW-051	10/22/2018 9:22	56.1	41.0	0.0	2.9	120.5	120.7	11.4	12.0	-0.8	-0.8	-13.3
GEW-051	10/29/2018 9:18	56.6	41.7	0.0	1.7	120.2	120.2	13.9	13.9	-1.0	-0.9	-13.3
GEW-052	10/2/2018 14:42	55.2	39.6	0.0	5.2	114.8	115.0	26.0	25.9	0.04	0.04	-13.7
GEW-052	10/2/2018 14:49	55.6	39.4	0.0	5.0	115.0	115.0	28.3	26.8	0.01	0.02	-13.5
GEW-052	10/3/2018 8:00	55.6	40.1	0.0	4.3	112.2	112.2	28.6	29.3	-0.2	-0.1	-13.4
GEW-052	10/8/2018 10:20	55.1	38.9	0.0	6.0	112.4	112.3	25.9	25.0	-0.1	-0.2	-13.2
GEW-052	10/16/2018 11:17	56.8	38.6	0.0	4.6	109.7	109.2	27.5	27.4	0.02	0.03	-13.7
GEW-052	10/16/2018 11:18	56.1	40.4	0.0	3.5	109.5	109.5	26.7	26.5	0.02	0.03	-13.5
GEW-052	10/17/2018 8:03	55.1	40.9	0.0	4.0	107.4	107.4	7.3	8.4	-0.3	-0.3	-13.5
GEW-052	10/22/2018 9:04	55.8	38.1	0.0	6.1	109.5	109.2	28.1	27.5	-0.2	-0.2	-13.7
GEW-052	10/22/2018 9:05	55.4	39.0	0.0	5.6	108.8	109.0	28.5	27.4	-0.2	-0.2	-13.6
GEW-052	10/29/2018 9:03	54.4	38.3	0.0	7.3	108.5	108.5	25.4	24.7	-0.2	-0.2	-13.2
GEW-052	10/29/2018 9:04	53.9	39.6	0.0	6.5	108.7	108.5	27.2	26.7	-0.2	-0.2	-13.7
GEW-053	10/4/2018 9:22	51.5	42.1	0.0	6.4	141.5	141.9	13.9	13.1	-1.0	-1.1	-12.7
GEW-053	10/4/2018 9:29	52.3	42.3	0.0	5.4	140.9	140.9	33.1	33.3	-1.0	-1.0	-12.9
GEW-053	10/8/2018 10:41	51.4	41.5	0.0	7.1	143.5	143.2	17.7	16.7	-0.4	-0.4	-12.9
GEW-053	10/8/2018 10:42	51.1	42.0	0.0	6.9	143.5	143.6	11.2	10.5	-0.4	-0.4	-12.6
GEW-053	10/16/2018 11:42	51.6	40.4	0.0	8.0	141.6	141.5	7.8	9.7	-0.04	-0.1	-13.4
GEW-053	10/16/2018 11:44	51.1	41.8	0.0	7.1	141.7	141.2	15.6	14.4	-0.02	-0.02	-13.0
GEW-053	10/22/2018 9:28	52.8	40.2	0.0	7.0	141.5	141.9	7.9	10.5	-0.5	-0.5	-13.1
GEW-053	10/22/2018 9:29	51.8	42.3	0.0	5.9	141.6	141.5	10.9	10.5	-0.5	-0.5	-13.3
GEW-053	10/29/2018 9:25	52.9	41.4	0.0	5.7	141.2	141.9	12.6	6.4	-0.6	-0.6	-13.0
GEW-053	10/29/2018 9:26	52.1	43.0	0.0	4.9	141.9	142.2	12.9	14.1	-0.6	-0.6	-13.1
GEW-054	10/4/2018 9:36	54.3	41.5	0.0	4.2	142.4	142.2	38.7	39.2	-4.3	-4.4	-13.0
GEW-054	10/4/2018 9:42	54.8	41.3	0.0	3.9	142.2	142.2	36.9	36.9	-4.3	-4.3	-13.3
GEW-054	10/8/2018 11:27	52.2	41.5	0.0	6.3	143.5	144.1	46.5	47.3	-3.3	-3.3	-13.3
GEW-054	10/8/2018 11:28	51.8	42.4	0.0	5.8	144.2	143.9	51.9	50.3	-3.6	-3.6	-13.1
GEW-054	10/19/2018 8:06	53.1	44.2	0.0	2.7	143.9	143.9	49.4	54.6	-4.1	-4.0	-13.5
GEW-054	10/19/2018 8:07	53.3	43.6	0.0	3.1	143.9	143.7	49.9	52.4	-3.9	-4.0	-13.4
GEW-054	10/22/2018 10:45	53.8	41.3	0.0	4.9	145.9	145.9	53.0	46.5	-4.0	-4.0	-13.5
GEW-054	10/22/2018 10:47	53.1	42.0	0.0	4.9	145.9	145.9	43.2	46.2	-3.9	-3.9	-13.7
GEW-054	10/29/2018 9:29	53.8	42.4	0.0	3.8	145.6	145.6	37.9	37.9	-4.2	-4.2	-13.2
GEW-054	10/29/2018 9:30	53.0	43.3	0.0	3.7	145.6	145.6	40.0	40.0	-4.2	-4.2	-13.2

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-055	10/4/2018 9:52	53.1	42.5	0.0	4.4	123.7	123.4	3.4	5.3	-0.8	-0.8	-12.7
GEW-055	10/4/2018 9:59	53.7	41.7	0.0	4.6	123.7	123.7	5.7	6.1	-0.8	-0.8	-12.9
GEW-055	10/8/2018 11:16	52.0	42.0	0.0	6.0	130.3	130.3	2.6	6.8	-0.3	-0.3	-12.6
GEW-055	10/19/2018 9:02	54.1	40.8	0.0	5.1	119.9	119.9	1.9	5.2	-0.2	-0.2	-13.0
GEW-055	10/22/2018 10:53	52.8	41.8	0.0	5.4	124.5	124.5	7.4	6.0	-0.3	-0.3	-13.2
GEW-055	10/29/2018 9:38	53.8	41.6	0.0	4.6	124.8	125.0	3.5	2.9	-0.5	-0.5	-12.9
GEW-056R	10/4/2018 11:32	44.6	43.8	0.0	11.6	91.0	91.0	3.5	3.3	-0.5	-0.5	-20.4
GEW-056R	10/4/2018 11:38	44.8	43.9	0.0	11.3	92.5	92.5	1.8	2.4	-0.5	-0.5	-20.2
GEW-056R	10/9/2018 9:35	41.8	43.4	0.0	14.8	115.5	115.5	1.6	1.9	-0.3	-0.3	-20.0
GEW-056R	10/19/2018 13:30	41.0	46.5	0.0	12.5	91.3	91.5	3.3	2.6	-0.3	-0.3	-20.4
GEW-056R	10/22/2018 14:20	41.5	45.5	0.0	13.0	111.3	111.5	1.9	1.9	-0.4	-0.4	-20.5
GEW-056R	10/31/2018 9:30	42.8	46.9	0.0	10.3	82.6	82.8	3.2	3.8	-0.5	-0.5	-20.1
GEW-057B	10/10/2018 9:39	1.1	59.2	0.0	39.7	187.6	187.6	6.8	7.6	-6.5	-6.5	-19.6
GEW-057B	10/10/2018 9:45	1.0	60.7	0.0	38.3	187.7	187.6	6.5	5.6	-6.5	-6.5	-19.6
GEW-057B	10/24/2018 9:23	1.6	54.5	0.0	43.9	185.7	185.7	6.2	7.8	-8.6	-8.6	-19.8
GEW-057B	10/24/2018 9:25	1.0	58.8	0.0	40.2	186.4	186.3	6.2	6.2	-8.7	-8.7	-19.9
GEW-058A	10/5/2018 13:35	1.0	46.7	2.1	50.2	89.6	89.6	4.8	4.9	-0.3	-0.4	-20.6
GEW-058A	10/5/2018 13:40	1.0	47.1	1.9	50.0	90.1	90.0	4.0	4.0	-0.3	-0.3	-20.6
GEW-059R	10/5/2018 11:26	25.2	40.6	0.2	34.0	165.2	165.2	20.7	15.3	-18.4	-19.4	-18.5
GEW-059R	10/5/2018 11:31	24.8	39.1	0.2	35.9	165.7	165.7	21.3	26.7	-19.5	-19.3	-19.5
GEW-059R	10/19/2018 13:39	23.2	45.0	0.0	31.8	173.1	173.1	20.2	14.9	-19.2	-18.7	-20.7
GEW-059R	10/19/2018 13:40	24.0	44.1	0.0	31.9	173.1	173.2	23.0	14.5	-19.5	-20.0	-20.5
GEW-067A	10/5/2018 11:35	10.4	40.6	1.9	47.1	100.4	100.4	17.6	16.3	-0.4	-0.3	-19.1
GEW-067A	10/5/2018 11:41	11.6	43.4	1.6	43.4	99.0	98.9	12.0	12.7	-0.2	-0.2	-19.6
GEW-068A	10/10/2018 11:08	10.7	60.2	0.0	29.1	192.9	192.9	40.7	40.7	-10.7	-10.7	-20.8
GEW-068A	10/10/2018 11:14	10.5	56.3	0.0	33.2	192.9	192.9	41.1	39.9	-10.3	-10.3	-20.9
GEW-068A	10/24/2018 9:57	3.9	56.9	0.0	39.2	198.7	198.6	28.9	28.9	-7.7	-7.7	-20.3
GEW-068A	10/24/2018 9:58	3.7	60.4	0.0	35.9	198.7	198.7	21.6	24.5	-9.1	-8.2	-20.3
GEW-078R	10/11/2018 13:28	11.9	33.2	0.1	54.8	153.8	154.0	33.3	17.7	-15.3	-13.7	-16.8
GEW-078R	10/11/2018 13:34	12.3	31.6	0.2	55.9	154.0	154.4	23.0	21.9	-15.6	-15.4	-19.3
GEW-078R	10/25/2018 9:30	5.4	32.0	0.0	62.6	152.5	152.9	22.8	22.9	-16.1	-16.3	-18.9
GEW-078R	10/25/2018 9:31	5.4	33.4	0.0	61.2	152.9	153.3	11.0	11.9	-15.9	-16.3	-18.2
GEW-082R	10/11/2018 13:39	11.4	38.6	0.0	50.0	174.2	174.2	1.7	7.6	-10.8	-10.8	-19.1
GEW-082R	10/11/2018 13:45	11.2	39.4	0.0	49.4	174.2	174.2	8.2	4.2	-10.7	-10.7	-18.8
GEW-082R	10/25/2018 9:16	11.2	37.2	0.0	51.6	174.7	174.7	2.0	6.2	-11.4	-11.4	-19.8
GEW-082R	10/25/2018 9:17	10.9	39.1	0.0	50.0	174.7	174.7	23.6	20.1	-12.0	-11.8	-19.5
GEW-086	10/5/2018 14:12	13.5	41.8	3.2	41.5	111.3	111.0	18.9	18.8	-0.5	-0.5	-19.7
GEW-086	10/5/2018 14:19	20.1	36.7	2.9	40.3	111.5	111.2	3.7	3.1	-0.1	-0.1	-20.0
GEW-087	10/5/2018 14:24	4.0	16.5	10.1	69.4	126.9	126.7	NFD		-19.7	-19.7	-20.0
GEW-087	10/5/2018 14:34	4.6	16.6	9.5	69.3	127.5	127.3	NFD		-19.6	-19.6	-20.0
GEW-087	10/19/2018 10:09	2.5	15.7	12.6	69.2	104.3	104.3	NFD		-20.2	-20.0	-20.1
GEW-087	10/19/2018 10:10	2.7	14.6	12.8	69.9	104.3	104.8	NFD		-20.2	-20.3	-20.2

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-088	10/5/2018 14:01	3.0	50.1	0.0	46.9	195.7	195.6	1.0	1.7	-0.3	-0.3	-20.2
GEW-088	10/5/2018 14:07	3.3	51.0	0.0	45.7	195.7	195.7	2.7	3.2	-0.3	-0.3	-20.4
GEW-088	10/19/2018 10:03	2.3	50.7	0.0	47.0	193.6	193.7	8.0	11.5	-0.1	-0.2	-19.7
GEW-088	10/19/2018 10:05	1.9	51.8	0.0	46.3	194.3	194.3	20.9	22.6	-0.6	-0.7	-18.6
GEW-090	10/5/2018 11:24	33.5	46.7	0.1	19.7	179.2	179.2	8.3	8.1	-7.8	-7.8	-17.2
GEW-090	10/5/2018 11:31	34.3	45.5	0.1	20.1	179.2	179.2	9.1	8.4	-7.8	-7.8	-19.1
GEW-090	10/19/2018 9:57	25.4	48.7	0.0	25.9	177.5	177.5	7.2	6.8	-7.6	-7.6	-19.8
GEW-090	10/19/2018 9:59	26.2	47.5	0.0	26.3	177.5	177.5	7.7	7.1	-7.6	-7.6	-20.1
GEW-091	10/5/2018 10:09	3.6	52.8	1.3	42.3	194.3	194.3	15.4	14.7	-0.5	-0.5	-17.3
GEW-091	10/5/2018 10:16	3.7	48.4	2.7	45.2	193.1	192.9	7.9	3.1	-0.8	-0.6	-16.2
GEW-091	10/19/2018 9:51	3.0	48.8	2.5	45.7	193.6	193.6	37.7	38.1	-0.6	-0.6	-15.8
GEW-091	10/19/2018 9:53	3.1	50.5	2.2	44.2	194.1	193.8	35.4	35.3	-0.8	-0.8	-16.6
GEW-100	10/10/2018 13:29	0.9	56.3	1.8	41.0	81.9	81.9	4.7	2.6	-7.8	-8.3	-19.1
GEW-100	10/10/2018 13:35	1.0	54.0	1.5	43.5	83.7	83.7	6.2	4.1	-9.1	-9.0	-19.0
GEW-101	10/10/2018 10:46	22.5	60.8	1.1	15.6	97.9	97.9	1.1	3.6	-0.1	-0.1	-16.3
GEW-101	10/10/2018 10:53	21.5	61.7	1.1	15.7	97.7	97.7	2.0	3.2	-0.1	-0.1	-18.2
GEW-102	10/10/2018 10:12	14.3	48.2	3.2	34.3	73.4	73.4	5.0	3.9	-5.6	-5.4	-19.5
GEW-102	10/10/2018 10:18	15.7	46.0	3.3	35.0	73.1	73.1	6.2	5.5	-5.3	-5.4	-19.7
GEW-104	10/5/2018 14:56	29.2	39.2	0.1	31.5	149.1	148.8	8.1	8.1	-13.2	-13.2	-16.3
GEW-104	10/5/2018 15:02	30.3	39.1	0.1	30.5	148.5	148.7	8.9	10.6	-13.7	-13.8	-17.3
GEW-104	10/19/2018 11:35	29.3	39.3	0.1	31.3	110.5	110.5	10.0	7.2	-9.9	-9.9	-16.3
GEW-105	10/5/2018 14:18	7.0	56.1	0.0	36.9	141.2	141.5	5.7	10.6	-1.1	-1.1	-20.6
GEW-105	10/5/2018 14:24	7.4	55.4	0.0	37.2	157.3	158.0	7.4	6.4	-2.0	-2.1	-20.1
GEW-105	10/19/2018 11:21	13.8	41.3	4.8	40.1	130.6	130.6	1.8	4.7	-2.2	-2.2	-20.1
GEW-106	10/5/2018 13:55	19.2	46.7	3.2	30.9	96.2	96.3	3.5	3.3	-16.7	-15.1	-20.6
GEW-106	10/5/2018 14:01	21.1	44.9	2.2	31.8	102.6	103.3	3.1	6.4	-13.2	-13.2	-20.7
GEW-107	10/5/2018 11:35	11.1	55.4	0.0	33.5	170.5	170.0	12.7	9.0	-3.1	-3.1	-20.1
GEW-107	10/5/2018 11:40	11.5	56.2	0.1	32.2	170.5	170.2	6.0	5.1	-3.1	-3.1	-20.1
GEW-107	10/19/2018 13:35	15.8	52.7	0.0	31.5	143.3	143.9	7.0	6.0	-4.5	-4.5	-20.5
GEW-107	10/19/2018 13:36	14.9	54.7	0.0	30.4	143.9	143.5	5.5	4.3	-4.5	-4.5	-20.4
GEW-108	10/5/2018 9:17	32.6	37.9	3.9	25.6	148.3	148.4	5.8	5.8	-7.4	-7.4	-19.6
GEW-108	10/5/2018 9:24	33.3	37.8	3.7	25.2	147.8	147.7	5.2	5.5	-7.2	-7.2	-19.4
GEW-108	10/19/2018 13:30	36.4	36.9	3.2	23.5	143.9	143.9	4.1	3.9	-6.9	-6.9	-20.4
GEW-108	10/19/2018 13:32	36.2	38.2	3.0	22.6	141.1	141.2	3.3	2.7	-5.8	-5.8	-20.3
GEW-109	10/4/2018 9:02	34.5	39.6	0.1	25.8	102.1	102.3	0.9	6.8	-7.3	-7.3	-19.7
GEW-109	10/4/2018 9:09	34.5	40.3	0.1	25.1	101.8	101.8	4.2	3.4	-7.4	-7.3	-19.7
GEW-109	10/10/2018 8:13	31.1	41.9	0.1	26.9	103.3	103.5	1.6	1.6	-6.6	-6.6	-20.4
GEW-109	10/19/2018 13:58	32.2	39.9	0.0	27.9	90.8	90.6	5.6	6.8	-6.7	-6.8	-20.4
GEW-109	10/23/2018 9:07	32.7	39.7	0.1	27.5	109.2	109.2	2.7	1.1	-6.5	-6.5	-20.2
GEW-109	10/31/2018 10:38	32.5	41.0	0.0	26.5	87.5	87.7	1.5	2.6	-6.8	-6.9	-20.5
GEW-110	10/4/2018 11:19	13.5	26.4	12.3	47.8	72.7	72.7	3.3	1.8	-0.1	-0.1	-20.1
GEW-110	10/4/2018 11:27	12.3	21.8	13.3	52.6	73.6	73.5	1.8	1.5	-0.1	-0.1	-18.2

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-110	10/8/2018 14:45	18.4	34.0	4.6	43.0	109.4	109.3	3.9	2.5	-0.04	-0.03	-19.3
GEW-110	10/19/2018 13:19	14.0	19.2	12.5	54.3	60.9	60.9	2.4	1.7	-0.1	-0.1	-20.4
GEW-110	10/19/2018 13:20	14.4	17.6	12.7	55.3	61.0	61.0	2.7	2.7	-0.1	-0.1	-20.3
GEW-110	10/22/2018 14:11	12.8	18.8	13.2	55.2	87.6	87.7	2.6	3.1	-0.1	-0.1	-20.0
GEW-110	10/22/2018 14:13	12.5	16.4	13.3	57.8	87.9	87.9	1.2	2.3	-0.1	-0.1	-20.0
GEW-110	10/31/2018 9:22	9.7	16.3	15.4	58.6	57.0	57.0	3.6	3.4	-0.1	-0.1	-20.0
GEW-110	10/31/2018 9:23	9.5	14.1	15.8	60.6	57.0	57.0	2.4	2.4	-0.1	-0.1	-20.0
GEW-113	10/11/2018 9:17	12.7	46.3	3.3	37.7	136.8	136.8	13.0	11.8	-2.8	-2.9	-19.9
GEW-113	10/11/2018 9:23	13.2	46.0	3.2	37.6	137.1	136.8	9.2	13.6	-2.8	-2.8	-19.9
GEW-113	10/24/2018 11:06	9.6	39.8	4.3	46.3	136.5	136.4	10.8	14.9	-2.8	-2.8	-19.6
GEW-113	10/24/2018 11:08	9.3	42.1	4.4	44.2	135.3	135.3	8.0	12.4	-2.2	-2.2	-19.5
GEW-116	10/11/2018 14:27	14.2	57.3	0.7	27.8	184.3	184.0	22.4	23.8	-6.3	-6.3	-20.1
GEW-116	10/11/2018 14:34	13.9	58.8	0.6	26.7	184.2	184.3	31.0	35.2	-6.3	-6.7	-20.1
GEW-116	10/24/2018 14:44	13.3	52.5	1.0	33.2	179.2	179.2	18.7	23.5	-9.2	-8.8	-20.0
GEW-116	10/24/2018 14:45	13.3	52.8	0.9	33.0	179.2	179.2	30.8	34.4	-9.4	-9.3	-19.5
GEW-117	10/12/2018 8:17	50.5	46.4	0.2	2.9	90.8	90.7	6.8	6.1	-19.2	-19.2	-19.8
GEW-117	10/12/2018 8:22	49.6	46.6	0.1	3.7	87.5	87.5	5.4	7.3	-19.2	-19.3	-19.9
GEW-118	10/11/2018 13:50	2.2	54.8	0.1	42.9	196.4	196.5	11.1	9.4	-1.3	-1.4	-18.6
GEW-118	10/11/2018 13:55	1.1	50.7	0.2	48.0	195.0	195.0	3.2	4.1	-2.1	-2.1	-18.6
GEW-118	10/25/2018 9:20	1.1	52.2	0.0	46.7	194.7	194.8	5.2	5.6	-0.6	-0.5	-19.6
GEW-118	10/25/2018 9:22	1.1	57.3	0.0	41.6	195.7	195.7	8.4	9.5	-0.9	-0.9	-19.9
GEW-120	10/12/2018 8:26	18.4	47.1	0.0	34.5	158.1	158.1	15.3	16.4	-4.2	-4.2	-20.0
GEW-120	10/12/2018 8:32	16.2	46.0	0.0	37.8	159.4	159.4	16.4	15.0	-4.3	-4.3	-20.4
GEW-120	10/25/2018 14:40	14.6	49.1	0.0	36.3	156.0	156.0	16.7	15.9	-4.0	-4.0	-18.3
GEW-120	10/25/2018 14:41	14.6	49.2	0.0	36.2	156.0	156.0	15.8	14.4	-4.0	-4.0	-18.9
GEW-121	10/12/2018 8:54	6.3	34.6	5.3	53.8	167.6	167.6	32.5	31.6	-11.9	-11.9	-18.6
GEW-121	10/12/2018 9:01	6.4	33.4	5.5	54.7	167.6	167.6	30.6	31.0	-11.5	-11.5	-18.6
GEW-121	10/25/2018 14:44	5.8	35.1	2.7	56.4	169.5	170.0	29.0	27.2	-11.4	-11.5	-16.5
GEW-121	10/25/2018 14:46	5.9	36.9	2.6	54.6	170.0	170.0	27.5	28.6	-11.4	-11.5	-16.5
GEW-122	10/24/2018 13:54	27.2	39.6	0.0	33.2	126.3	126.1	41.5	39.1	-15.0	-15.0	-18.7
GEW-122	10/24/2018 14:04	27.0	39.2	0.0	33.8	126.7	126.7	39.2	36.7	-15.0	-14.5	-19.0
GEW-123	10/12/2018 9:05	10.5	42.1	0.9	46.5	148.8	148.8	5.3	6.3	-5.5	-5.5	-20.1
GEW-123	10/12/2018 9:12	10.6	40.7	1.0	47.7	147.6	147.2	4.6	1.9	-5.1	-5.1	-19.4
GEW-123	10/25/2018 14:49	7.8	34.5	2.3	55.4	98.7	99.0	19.5	20.8	-9.8	-9.8	-18.0
GEW-124	10/24/2018 14:08	35.6	27.4	7.4	29.6	78.1	78.2	4.8	2.3	-18.9	-18.9	-19.0
GEW-124	10/24/2018 14:15	40.5	29.2	5.5	24.8	77.5	77.5	5.4	2.3	-18.9	-18.9	-19.0
GEW-125	10/11/2018 14:50	5.3	43.4	3.1	48.2	162.4	162.4	4.8	5.1	-1.6	-1.6	-18.7
GEW-125	10/11/2018 14:56	5.2	45.1	3.1	46.6	162.0	162.4	5.0	5.2	-1.6	-1.6	-18.7
GEW-125	10/25/2018 9:40	3.9	43.8	3.2	49.1	160.7	160.2	17.0	17.0	-1.7	-1.7	-19.6
GEW-125	10/25/2018 9:41	3.8	46.0	3.2	47.0	161.2	161.4	14.3	13.1	-2.0	-2.0	-19.5
GEW-126	10/11/2018 13:52	11.5	53.6	1.9	33.0	72.0	72.0	5.7	5.4	-16.1	-16.2	-19.0
GEW-126	10/11/2018 13:58	15.9	52.8	1.8	29.5	75.7	75.7	2.8	4.3	-16.1	-16.1	-18.6

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-127	10/11/2018 9:42	16.5	54.4	0.6	28.5	160.7	160.7	18.3	16.7	-3.5	-3.5	-19.2
GEW-127	10/11/2018 9:48	16.4	52.7	0.6	30.3	160.2	160.2	13.8	15.2	-3.5	-3.5	-18.8
GEW-127	10/25/2018 9:52	16.7	53.9	0.8	28.6	159.0	159.0	16.7	18.7	-3.3	-3.3	-19.0
GEW-127	10/25/2018 9:53	16.3	55.2	0.7	27.8	159.0	159.0	19.1	18.6	-3.2	-3.2	-18.9
GEW-128	10/11/2018 9:23	14.0	50.2	3.7	32.1	156.5	156.1	8.5	9.0	-0.7	-0.7	-20.5
GEW-128	10/11/2018 9:29	14.6	49.7	3.6	32.1	156.5	156.9	8.7	6.2	-0.7	-0.7	-20.6
GEW-128	10/25/2018 9:59	15.1	48.3	4.0	32.6	153.7	153.7	7.8	4.9	-0.6	-0.6	-20.2
GEW-128	10/25/2018 10:01	15.1	49.9	4.0	31.0	153.3	153.7	3.7	8.9	-0.6	-0.6	-20.0
GEW-129	10/11/2018 8:55	9.4	59.5	0.0	31.1	128.1	128.1	4.6	4.6	-2.9	-2.9	-19.2
GEW-129	10/11/2018 9:00	9.5	58.3	0.0	32.2	130.0	130.0	9.3	9.3	-2.9	-2.9	-14.7
GEW-130	10/11/2018 10:03	10.5	53.2	0.8	35.5	185.7	185.6	12.1	16.8	-1.7	-1.8	-10.4
GEW-130	10/11/2018 10:09	10.6	53.6	0.8	35.0	185.7	185.1	7.0	10.7	-1.6	-1.6	-13.2
GEW-130	10/25/2018 9:48	15.6	44.3	2.5	37.6	182.7	182.7	20.0	20.4	-3.1	-3.2	-19.2
GEW-130	10/25/2018 9:49	14.9	46.9	2.4	35.8	183.3	182.7	15.6	16.9	-3.1	-3.2	-14.4
GEW-131	10/11/2018 14:14	2.6	51.8	0.0	45.6	67.0	67.0	3.7	3.9	3.8	3.8	-18.7
GEW-131	10/11/2018 14:26	14.1	53.1	0.0	32.8	134.1	134.8	5.8	5.1	-0.5	-0.5	-18.8
GEW-131	10/25/2018 9:45	38.4	46.5	0.0	15.1	143.5	143.5	6.1	4.1	-3.7	-3.7	-19.3
GEW-131	10/25/2018 9:46	38.8	46.1	0.0	15.1	143.5	142.9	3.4	3.9	-3.7	-3.7	-18.8
GEW-132	10/12/2018 8:43	0.9	43.3	2.9	52.9	64.6	64.8	3.0	1.4	-0.1	-0.1	-20.1
GEW-132	10/12/2018 8:49	0.9	42.3	3.0	53.8	77.3	77.2	3.0	3.0	-0.1	-0.1	-20.1
GEW-133	10/11/2018 14:38	11.4	45.5	2.3	40.8	164.3	164.3	45.3	26.7	-6.8	-6.7	-16.4
GEW-133	10/11/2018 14:45	11.7	43.6	2.7	42.0	164.8	164.7	42.7	54.5	-6.4	-6.7	-11.3
GEW-133	10/24/2018 14:48	10.6	43.8	1.2	44.4	117.3	117.4	22.1	24.3	-10.1	-9.6	-18.1
GEW-134	10/11/2018 10:00	15.9	38.8	2.4	42.9	130.3	130.3	17.8	16.6	-1.6	-1.6	-20.5
GEW-134	10/11/2018 10:07	16.1	37.3	2.5	44.1	129.4	129.7	4.1	11.6	-2.0	-1.7	-20.3
GEW-135	10/11/2018 9:49	7.2	41.7	2.6	48.5	154.8	154.8	8.3	9.9	-3.2	-3.2	-20.6
GEW-135	10/11/2018 9:56	6.9	42.5	2.6	48.0	154.8	154.8	22.0	21.7	-4.1	-4.0	-20.1
GEW-135	10/24/2018 14:38	5.6	40.3	2.2	51.9	152.5	152.5	32.1	25.9	-4.8	-4.4	-19.1
GEW-135	10/24/2018 14:40	5.7	40.3	2.2	51.8	152.5	152.5	33.3	29.0	-5.0	-4.6	-19.0
GEW-137	10/11/2018 10:56	24.1	33.2	1.4	41.3	94.3	93.7	29.0	26.2	-20.0	-19.5	-19.6
GEW-137	10/11/2018 11:02	25.2	33.1	1.4	40.3	94.8	94.6	7.2	3.3	-18.9	-19.0	-19.6
GEW-138	10/11/2018 11:23	5.7	26.3	1.9	66.1	103.3	102.8	5.7	8.0	-0.1	-0.1	-16.0
GEW-138	10/11/2018 11:29	5.4	26.2	1.9	66.5	103.0	102.5	5.5	4.4	-0.2	-0.1	-16.7
GEW-139	10/10/2018 14:53	0.3	56.9	0.1	42.7	188.3	188.3	5.9	4.0	-1.3	-1.3	-9.9
GEW-139	10/10/2018 15:09	0.3	58.7	0.3	40.7	187.1	187.0	4.0	5.5	-1.4	-1.4	-9.5
GEW-139	10/24/2018 9:40	7.4	52.2	0.1	40.3	152.5	152.5	4.9	3.7	-9.5	-9.6	-20.0
GEW-139	10/24/2018 9:41	7.9	50.4	0.2	41.5	152.5	152.6	5.3	5.3	-9.5	-9.5	-20.0
GEW-140	10/10/2018 14:31	3.3	55.8	0.0	40.9	196.5	196.4	17.8	18.4	-1.4	-1.4	-19.3
GEW-140	10/10/2018 14:39	3.2	57.0	0.0	39.8	197.1	196.9	18.2	17.4	-1.4	-1.4	-19.4
GEW-140	10/24/2018 9:44	5.5	55.2	0.0	39.3	196.4	196.4	24.4	23.6	-2.7	-2.7	-20.1
GEW-140	10/24/2018 9:45	5.1	57.2	0.0	37.7	196.4	196.4	22.2	22.6	-2.8	-2.8	-20.3
GEW-144	10/10/2018 10:56	35.1	43.9	3.5	17.5	73.4	73.4	3.4	3.0	-19.5	-19.5	-19.7

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-144	10/10/2018 11:02	39.8	45.2	1.2	13.8	72.3	72.3	3.8	2.0	-19.6	-19.6	-19.8
GEW-145	10/10/2018 10:02	5.8	53.2	0.0	41.0	77.1	77.1	3.6	1.6	-17.5	-17.5	-19.9
GEW-145	10/10/2018 10:08	5.7	55.0	0.0	39.3	78.7	78.7	2.0	2.5	-17.5	-17.5	-19.5
GEW-147	10/11/2018 9:37	18.2	47.3	0.1	34.4	159.5	159.5	26.6	26.0	-17.6	-17.6	-20.1
GEW-147	10/11/2018 9:44	18.6	45.1	0.1	36.2	159.4	159.4	26.3	27.2	-18.0	-18.0	-20.2
GEW-147	10/24/2018 11:18	16.2	44.8	0.0	39.0	153.7	153.7	25.9	25.7	-17.4	-17.4	-19.2
GEW-147	10/24/2018 11:19	16.3	44.6	0.0	39.1	153.7	153.7	26.2	26.2	-17.4	-17.4	-19.3
GEW-148	10/11/2018 8:16	11.2	49.9	1.9	37.0	139.8	138.3	20.2	20.4	-14.1	-14.1	-18.8
GEW-148	10/11/2018 8:23	10.4	53.0	2.5	34.1	141.6	141.5	25.1	25.1	-15.1	-15.1	-20.6
GEW-148	10/24/2018 11:03	28.4	40.4	3.5	27.7	67.7	67.7	17.6	10.7	-18.9	-18.9	-19.3
GEW-149	10/5/2018 11:13	20.3	52.4	0.0	27.3	110.7	111.0	6.2	4.3	-0.02	-0.02	-18.1
GEW-149	10/5/2018 11:21	21.4	51.2	0.0	27.4	122.1	122.4	5.3	8.7	-0.02	-0.03	-19.6
GEW-150	10/5/2018 14:48	17.8	38.0	3.5	40.7	171.2	171.6	14.3	10.0	-1.3	-1.2	-17.9
GEW-150	10/5/2018 14:54	18.1	36.0	3.6	42.3	173.1	173.1	14.3	19.7	-1.0	-1.0	-17.0
GEW-150	10/19/2018 11:30	20.9	39.2	4.2	35.7	174.7	174.7	9.1	8.6	-0.9	-0.8	-16.9
GEW-150	10/19/2018 11:31	21.0	39.2	4.2	35.6	174.8	174.8	6.6	9.3	-0.8	-0.8	-17.0
GEW-151	10/11/2018 8:05	10.3	30.9	6.6	52.2	119.9	120.0	13.7	12.4	-3.6	-3.6	-20.2
GEW-151	10/11/2018 8:11	10.2	31.9	6.5	51.4	119.4	119.4	4.6	4.3	-3.6	-3.6	-19.9
GEW-151	10/24/2018 10:49	8.0	32.4	4.6	55.0	111.5	111.5	2.7	5.5	-2.3	-2.3	-19.6
GEW-152	10/5/2018 11:44	29.8	49.8	0.0	20.4	122.6	122.6	1.8	3.5	-4.9	-4.8	-20.1
GEW-152	10/5/2018 11:49	30.7	43.5	0.0	25.8	122.3	122.3	2.0	2.0	-4.7	-4.7	-16.1
GEW-153	10/5/2018 11:01	36.7	30.6	4.4	28.3	95.1	95.3	7.0	7.8	-2.0	-2.0	-20.6
GEW-153	10/5/2018 11:09	31.5	27.4	7.3	33.8	99.4	99.4	3.3	3.3	-1.8	-1.8	-19.8
GEW-153	10/19/2018 13:44	51.0	40.5	0.0	8.5	64.0	63.6	2.4	2.1	0.01	0.01	-20.2
GEW-153	10/19/2018 13:45	51.3	39.8	0.2	8.7	62.1	62.1	2.1	1.2	-0.1	-0.1	-20.5
GEW-155	10/11/2018 11:07	1.4	15.5	9.8	73.3	86.5	86.6	2.3	3.8	-0.1	-0.1	-19.1
GEW-155	10/11/2018 11:19	1.1	13.8	10.0	75.1	86.8	86.8	2.0	2.8	-0.1	-0.1	-19.1
GEW-155	10/25/2018 9:26	0.3	23.3	5.7	70.7	57.0	57.1	2.4	3.2	0.01	0.01	-19.2
GEW-155	10/25/2018 9:27	0.4	20.4	5.9	73.3	60.7	60.5	1.1	2.4	-0.02	-0.03	-18.2
GEW-156	10/10/2018 9:49	31.8	51.7	0.0	16.5	110.4	110.5	18.2	19.3	-9.8	-9.8	-19.5
GEW-156	10/10/2018 9:55	32.4	48.2	0.0	19.4	111.7	111.7	19.2	10.9	-9.8	-9.9	-19.5
GEW-157	10/10/2018 9:29	16.2	50.2	0.9	32.7	129.4	129.4	5.5	8.8	-7.2	-7.3	-19.5
GEW-157	10/10/2018 9:35	15.8	50.5	0.8	32.9	135.9	135.9	1.8	4.2	-7.3	-7.3	-19.5
GEW-157	10/24/2018 9:21	22.7	44.1	1.6	31.6	129.3	129.4	3.2	2.1	-8.6	-8.6	-19.8
GEW-158	10/5/2018 14:06	22.2	52.6	0.0	25.2	97.4	97.4	2.8	3.0	-0.9	-0.9	-20.5
GEW-158	10/5/2018 14:12	22.2	52.3	0.0	25.5	98.1	98.1	2.5	2.8	-1.2	-1.2	-20.5
GEW-159	10/5/2018 9:28	37.1	45.1	0.0	17.8	82.1	82.1	5.9	4.0	-1.2	-1.2	-20.1
GEW-159	10/5/2018 9:34	36.8	45.2	0.0	18.0	83.5	83.5	1.2	2.0	-1.3	-1.3	-19.6
GEW-160	10/5/2018 9:47	7.6	53.0	0.0	39.4	90.7	90.7	7.6	8.9	-3.9	-4.0	-15.4
GEW-160	10/5/2018 9:54	7.5	55.4	0.0	37.1	91.4	91.5	8.1	10.1	-3.8	-3.9	-15.1
GEW-161	10/5/2018 9:57	8.5	51.8	0.0	39.7	131.7	131.7	4.1	5.2	-8.4	-8.4	-15.8
GEW-161	10/5/2018 10:05	8.8	49.6	0.1	41.5	131.7	131.8	6.2	2.1	-8.9	-8.8	-16.8

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-161	10/19/2018 9:48	8.7	50.1	0.1	41.1	113.5	113.5	6.0	3.6	-10.0	-10.0	-16.8
GEW-162	10/5/2018 10:22	13.4	51.9	4.2	30.5	100.2	100.1	4.7	1.1	-5.0	-5.0	-19.5
GEW-162	10/5/2018 10:29	15.9	50.1	3.9	30.1	101.3	101.3	3.5	1.1	-5.0	-5.0	-20.1
GEW-163	10/2/2018 9:33	1.0	22.0	12.6	64.4	168.7	168.6	21.1	22.0	-0.1	-0.1	-19.6
GEW-163	10/2/2018 9:35	0.9	22.4	12.7	64.0	168.1	168.4	21.1	21.2	-0.1	-0.1	-19.4
GEW-163	10/10/2018 9:10	1.1	25.4	13.1	60.4	171.6	171.6	19.1	17.9	-0.1	-0.1	-19.1
GEW-163	10/10/2018 9:12	1.0	25.7	13.1	60.2	171.6	171.6	17.5	16.6	-0.1	-0.1	-18.7
GEW-163	10/12/2018 9:30	0.6	22.0	14.4	63.0	166.1	166.1	28.5	27.7	-0.1	-0.1	-20.0
GEW-163	10/12/2018 9:37	0.5	21.0	14.4	64.1	166.1	166.1	28.2	28.0	-0.1	-0.1	-20.1
GEW-163	10/16/2018 9:27	1.3	19.2	14.8	64.7	162.4	162.4	17.5	17.9	-0.1	-0.1	-19.6
GEW-163	10/16/2018 9:29	1.1	19.6	14.8	64.5	162.9	162.9	16.5	16.7	-0.1	-0.1	-19.8
GEW-163	10/22/2018 9:42	1.2	19.1	13.9	65.8	162.0	162.2	12.8	10.8	-0.1	-0.1	-19.6
GEW-163	10/22/2018 9:43	1.0	19.7	13.9	65.4	162.0	162.0	9.0	9.0	-0.1	-0.1	-19.2
GEW-163	10/31/2018 10:59	0.9	28.5	12.3	58.3	166.6	166.3	14.2	18.4	-0.04	-0.03	-19.2
GEW-163	10/31/2018 11:00	0.7	26.1	12.5	60.7	166.5	166.7	7.9	6.7	-0.1	-0.1	-19.5
GEW-164	10/2/2018 9:38	18.3	40.7	4.8	36.2	149.0	149.1	9.5	34.8	-0.5	-0.4	-20.1
GEW-164	10/2/2018 9:40	19.4	41.7	4.8	34.1	149.1	149.1	25.1	26.9	-0.4	-0.5	-20.5
GEW-164	10/10/2018 9:16	16.1	35.4	7.9	40.6	148.8	149.1	34.9	31.4	-0.4	-0.5	-19.6
GEW-164	10/10/2018 9:17	16.2	35.1	7.9	40.8	149.1	149.1	43.9	33.6	-0.4	-0.4	-20.4
GEW-164	10/12/2018 9:19	13.4	34.2	8.9	43.5	146.9	146.7	40.5	39.6	-0.4	-0.5	-20.9
GEW-164	10/12/2018 9:25	13.7	31.0	9.0	46.3	145.9	145.7	32.5	29.5	-0.3	-0.3	-20.0
GEW-164	10/16/2018 9:32	21.8	42.0	5.3	30.9	149.5	149.5	30.8	25.1	-0.2	-0.2	-20.2
GEW-164	10/16/2018 9:34	21.8	42.1	5.4	30.7	149.9	149.5	30.6	8.2	-0.2	-0.2	-20.2
GEW-164	10/22/2018 9:47	21.3	39.5	6.7	32.5	150.6	151.0	14.7	19.5	-0.2	-0.2	-20.2
GEW-164	10/22/2018 9:48	21.4	39.7	6.6	32.3	150.6	151.0	19.8	30.1	-0.2	-0.2	-20.0
GEW-164	10/31/2018 11:03	17.9	38.1	7.2	36.8	132.5	132.8	17.7	17.7	-0.2	-0.2	-19.8
GEW-164	10/31/2018 11:04	18.3	38.6	7.1	36.0	131.4	131.4	23.0	28.9	-0.1	-0.1	-19.6
GEW-165	10/2/2018 9:44	11.1	47.1	5.1	36.7	172.1	171.6	21.3	23.2	-0.8	-0.8	-19.1
GEW-165	10/2/2018 9:45	10.9	47.1	5.1	36.9	171.6	171.6	12.1	16.8	-0.8	-0.8	-18.9
GEW-165	10/10/2018 9:21	12.3	50.9	3.2	33.6	172.5	172.6	13.6	23.8	-0.7	-0.7	-19.3
GEW-165	10/10/2018 9:23	11.9	51.5	3.3	33.3	172.2	172.6	14.8	9.2	-0.7	-0.7	-19.9
GEW-165	10/12/2018 9:07	11.1	50.4	4.0	34.5	170.2	170.0	24.5	25.4	-0.8	-0.8	-20.1
GEW-165	10/12/2018 9:13	12.1	46.3	3.8	37.8	170.0	169.6	22.5	21.0	-0.7	-0.7	-19.1
GEW-165	10/16/2018 9:37	12.7	44.8	5.1	37.4	162.0	162.0	20.6	17.2	-1.1	-1.1	-19.7
GEW-165	10/16/2018 9:39	12.2	46.1	5.1	36.6	162.1	162.4	14.4	12.0	-1.1	-1.1	-19.7
GEW-165	10/22/2018 9:53	13.3	50.2	3.7	32.8	169.4	169.5	20.7	20.6	-0.7	-0.7	-19.3
GEW-165	10/22/2018 9:54	13.4	50.5	3.7	32.4	169.5	169.0	18.3	23.2	-0.7	-0.6	-19.7
GEW-165	10/31/2018 11:07	11.3	44.8	5.1	38.8	167.6	167.4	20.6	15.5	-0.8	-0.8	-20.1
GEW-165	10/31/2018 11:09	10.9	47.3	4.8	37.0	167.1	167.1	18.7	18.7	-0.4	-0.4	-19.4
GEW-166	10/2/2018 10:02	1.8	54.8	0.4	43.0	194.3	194.3	31.0	25.9	-6.4	-6.4	-19.6
GEW-166	10/2/2018 10:03	1.6	56.1	0.3	42.0	194.3	194.3	42.3	37.1	-6.7	-6.6	-19.6
GEW-166	10/10/2018 9:39	0.5	55.9	0.0	43.6	108.7	108.2	9.7	8.1	9.4	9.4	-19.2

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-166	10/10/2018 9:42	0.4	58.1	0.0	41.5	180.3	180.9	16.9	15.3	-2.8	-2.8	-19.3
GEW-166	10/10/2018 9:44	0.5	58.2	0.0	41.3	187.0	187.0	25.4	20.4	-2.3	-2.4	-19.6
GEW-166	10/12/2018 8:56	2.8	50.6	0.7	45.9	184.5	184.5	30.4	24.2	-8.5	-8.5	-19.7
GEW-166	10/12/2018 9:02	2.8	50.0	0.7	46.5	185.1	185.0	25.7	24.2	-8.5	-8.5	-19.7
GEW-166	10/16/2018 9:56	3.8	51.1	0.8	44.3	182.1	182.2	20.0	22.9	-10.2	-10.2	-19.7
GEW-166	10/16/2018 9:58	3.8	51.1	0.7	44.4	182.1	182.1	18.4	12.9	-10.3	-10.2	-19.8
GEW-166	10/22/2018 9:58	3.1	51.4	0.0	45.5	182.7	182.8	5.2	6.3	-18.3	-18.2	-18.5
GEW-166	10/22/2018 10:00	3.0	52.9	0.0	44.1	182.7	182.7	7.3	5.8	-18.2	-18.3	-18.2
GEW-166	10/31/2018 11:13	3.0	43.6	4.3	49.1	168.5	168.1	25.8	24.6	-18.9	-18.9	-19.1
GEW-166	10/31/2018 11:15	3.0	44.8	4.4	47.8	167.6	167.6	15.5	15.5	-18.9	-18.9	-19.6
GEW-167	10/2/2018 10:07	0.2	24.0	13.1	62.7	175.8	175.7	10.3	13.7	-0.7	-0.7	-18.7
GEW-167	10/2/2018 10:09	0.2	22.8	13.1	63.9	175.9	175.8	7.5	5.8	-0.7	-0.7	-18.6
GEW-167	10/10/2018 9:48	1.5	36.2	7.5	54.8	185.2	185.2	16.7	13.7	-0.7	-0.6	-18.5
GEW-167	10/10/2018 9:50	1.9	34.7	7.8	55.6	185.1	185.1	9.0	7.7	-0.7	-0.7	-18.3
GEW-167	10/12/2018 8:45	0.5	27.1	9.6	62.8	178.0	178.0	4.7	4.7	-0.7	-0.7	-18.5
GEW-167	10/12/2018 8:52	0.4	28.3	8.6	62.7	177.5	177.5	11.3	11.3	-0.3	-0.3	-19.2
GEW-167	10/16/2018 10:03	0.7	50.2	1.3	47.8	188.3	187.6	9.6	9.2	-0.01	-0.01	-19.2
GEW-167	10/16/2018 10:05	0.6	49.6	1.3	48.5	187.9	188.3	4.0	11.8	-0.1	-0.1	-19.0
GEW-167	10/22/2018 10:03	1.4	36.2	4.8	57.6	176.4	176.4	8.5	12.0	-0.3	-0.3	-19.9
GEW-167	10/22/2018 10:07	1.2	34.6	4.9	59.3	175.8	176.7	26.4	5.3	-0.5	-0.5	-18.3
GEW-167	10/31/2018 11:21	5.4	22.6	10.6	61.4	153.7	154.0	40.7	37.5	-4.9	-4.9	-20.0
GEW-167	10/31/2018 11:24	5.4	21.8	10.7	62.1	138.0	137.7	3.9	5.3	-0.5	-0.5	-19.9
GEW-168	10/2/2018 9:50	10.2	29.1	9.2	51.5	135.3	135.3	20.4	21.4	-0.5	-0.6	-19.0
GEW-168	10/2/2018 9:52	10.5	28.2	9.3	52.0	135.3	135.0	18.3	13.1	-0.6	-0.5	-18.5
GEW-168	10/10/2018 9:27	15.0	42.3	4.6	38.1	136.5	136.5	23.3	17.0	-0.6	-0.6	-19.0
GEW-168	10/10/2018 9:29	15.4	41.8	4.6	38.2	136.8	136.8	14.8	19.4	-0.7	-0.6	-18.9
GEW-168	10/11/2018 14:03	14.1	41.2	4.6	40.1	130.3	130.5	12.5	3.6	-0.6	-0.6	-18.2
GEW-168	10/11/2018 14:10	14.4	36.6	4.8	44.2	130.6	130.3	19.9	19.9	-0.6	-0.6	-18.3
GEW-168	10/16/2018 9:43	13.1	36.5	6.9	43.5	130.0	130.0	24.1	15.0	-0.6	-0.6	-19.5
GEW-168	10/16/2018 9:45	13.5	35.5	6.9	44.1	130.0	130.0	10.8	16.5	-0.6	-0.6	-19.8
GEW-168	10/22/2018 10:11	13.5	35.9	6.9	43.7	121.3	121.5	20.1	7.3	-0.7	-0.7	-19.0
GEW-168	10/22/2018 10:13	14.2	35.9	6.9	43.0	121.3	121.3	26.3	24.6	-0.7	-0.7	-18.0
GEW-168	10/31/2018 11:28	11.4	29.8	8.5	50.3	129.2	129.4	11.5	18.5	-0.7	-0.7	-19.5
GEW-168	10/31/2018 11:30	11.3	30.6	8.4	49.7	126.4	126.2	5.5	9.1	-0.2	-0.2	-19.5
GEW-169	10/2/2018 9:56	10.9	49.9	2.8	36.4	179.7	179.7	63.9	63.6	-1.7	-1.7	-19.1
GEW-169	10/2/2018 9:58	11.0	50.1	2.9	36.0	179.5	179.7	34.9	55.3	-1.9	-1.7	-18.5
GEW-169	10/10/2018 9:32	13.6	51.0	2.4	33.0	178.6	178.6	8.4	15.3	-1.7	-1.7	-19.6
GEW-169	10/10/2018 9:34	13.5	52.6	2.4	31.5	178.6	178.7	40.8	20.2	-1.7	-1.8	-19.4
GEW-169	10/11/2018 13:30	13.2	49.5	1.5	35.8	177.0	176.9	26.1	21.6	-1.7	-1.7	-19.3
GEW-169	10/11/2018 13:36	12.9	51.4	1.5	34.2	176.9	176.9	19.0	13.6	-1.6	-1.6	-19.1
GEW-169	10/16/2018 9:49	13.4	50.8	2.1	33.7	176.4	176.4	15.6	16.3	-1.7	-1.7	-19.1
GEW-169	10/16/2018 9:51	13.4	51.7	2.1	32.8	176.2	176.4	27.2	39.3	-1.8	-1.8	-19.1

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-169	10/22/2018 10:16	12.9	49.9	2.6	34.6	174.7	174.7	0.0	13.3	-1.6	-1.7	-19.9
GEW-169	10/22/2018 10:18	12.6	50.6	2.8	34.0	174.2	174.2	24.0	24.0	-1.8	-1.8	-19.1
GEW-169	10/31/2018 11:33	10.5	44.9	4.1	40.5	171.0	170.7	32.7	32.1	-1.5	-1.5	-19.5
GEW-169	10/31/2018 11:35	10.3	46.2	4.0	39.5	167.1	167.1	43.6	43.3	-0.7	-0.8	-19.1
GEW-170	10/11/2018 9:32	12.2	50.0	4.2	33.6	166.1	165.4	22.7	26.2	-3.6	-3.6	-17.1
GEW-170	10/11/2018 9:38	12.4	46.4	4.1	37.1	165.7	165.7	22.2	20.4	-3.6	-3.6	-15.4
GEW-170	10/25/2018 9:56	11.7	48.8	4.1	35.4	165.2	165.6	13.9	14.9	-3.4	-3.5	-12.5
GEW-170	10/25/2018 9:57	11.8	47.9	4.1	36.2	165.8	165.2	13.5	20.0	-3.4	-3.4	-11.8
GEW-171	10/10/2018 13:38	6.9	62.8	0.0	30.3	84.0	84.0	4.1	3.9	7.0	7.1	-13.2
GEW-171	10/10/2018 13:44	7.1	62.7	0.0	30.2	95.3	95.3	8.8	8.9	-6.5	-6.7	-14.6
GEW-172	10/10/2018 14:05	16.3	55.7	0.0	28.0	176.9	176.4	13.0	15.2	-4.2	-4.3	-17.0
GEW-172	10/10/2018 14:10	16.8	54.9	0.0	28.3	175.8	175.8	13.5	15.0	-4.4	-4.4	-16.3
GEW-172	10/24/2018 10:06	16.3	52.9	0.0	30.8	181.5	181.5	17.3	12.5	-6.7	-6.7	-17.3
GEW-172	10/24/2018 10:07	15.3	56.7	0.0	28.0	180.9	181.6	12.0	14.3	-6.6	-6.5	-17.0
GEW-173	10/10/2018 14:42	1.3	9.9	14.7	74.1	96.5	96.3	7.2	7.2	-0.2	-0.2	-19.2
GEW-173	10/10/2018 14:48	1.4	6.1	15.4	77.1	96.0	95.8	3.8	5.4	-0.2	-0.1	-19.1
GEW-173	10/24/2018 9:48	0.3	14.3	11.6	73.8	81.2	81.2	10.8	12.8	-0.1	-0.1	-19.8
GEW-173	10/24/2018 9:49	0.4	9.6	12.2	77.8	80.7	81.2	7.4	4.8	-0.1	-0.1	-19.7
GEW-174	10/10/2018 11:19	13.9	42.6	0.9	42.6	149.5	149.7	33.3	38.9	-4.7	-4.7	-20.0
GEW-174	10/10/2018 11:25	14.3	40.0	1.0	44.7	150.1	149.1	36.1	37.1	-4.7	-4.7	-19.8
GEW-174	10/24/2018 9:53	10.5	33.0	1.0	55.5	147.7	148.0	21.4	21.4	-5.0	-5.0	-20.2
GEW-174	10/24/2018 9:54	10.6	34.8	1.0	53.6	147.5	147.3	25.5	26.6	-4.9	-4.9	-19.8
GEW-175	10/5/2018 14:38	14.1	38.2	4.2	43.5	162.4	162.3	31.7	18.9	-0.1	-0.1	-20.2
GEW-175	10/5/2018 14:44	13.1	37.9	4.5	44.5	161.1	161.1	21.7	27.8	-0.1	-0.1	-19.9
GEW-175	10/19/2018 11:25	16.9	42.3	3.4	37.4	163.3	162.9	12.5	10.8	-0.1	-0.1	-19.9
GEW-175	10/19/2018 11:26	17.2	42.3	3.4	37.1	163.3	163.3	5.4	6.9	-0.1	-0.1	-19.8
GEW-176	10/5/2018 14:28	26.9	36.1	2.8	34.2	104.0	104.0	11.8	9.1	-0.2	-0.2	-20.3
GEW-176	10/5/2018 14:34	27.6	33.8	2.8	35.8	104.8	104.8	9.7	9.9	-0.1	-0.2	-20.1
GEW-177	10/11/2018 8:45	0.1	25.8	13.4	60.7	51.0	51.0	6.6	5.1	-0.1	-0.1	-19.8
GEW-177	10/11/2018 8:51	0.1	24.6	13.4	61.9	51.5	51.5	5.1	5.1	-0.04	-0.04	-20.3
GEW-177	10/24/2018 9:32	0.2	65.9	0.0	33.9	176.4	176.4	4.1	7.9	3.5	3.5	-20.1
GEW-177	10/24/2018 9:34	0.2	67.8	0.0	32.0	192.3	192.3	3.3	5.6	-1.8	-1.8	-19.8
GEW-178	10/3/2018 10:22	24.5	50.5	1.3	23.7	118.1	118.1	8.7	9.7	-1.1	-1.1	-19.8
GEW-178	10/3/2018 10:28	25.6	48.6	1.3	24.5	118.1	117.9	10.3	7.9	-1.1	-1.1	-19.9
GEW-178	10/10/2018 13:44	22.0	48.5	3.4	26.1	113.0	112.9	11.0	7.4	-0.7	-0.8	-20.1
GEW-178	10/16/2018 11:22	21.6	44.9	4.3	29.2	103.5	103.5	10.4	9.8	-0.4	-0.4	-19.8
GEW-178	10/22/2018 11:25	21.1	46.3	4.7	27.9	103.6	103.7	12.8	13.0	-0.3	-0.3	-21.3
GEW-178	10/31/2018 14:10	11.6	34.3	10.3	43.8	95.5	96.0	13.7	10.2	-0.2	-0.2	-20.5
GEW-178	10/31/2018 14:13	12.2	32.2	10.5	45.1	96.5	96.4	11.1	12.6	-0.2	-0.2	-20.1
GEW-179	10/3/2018 10:11	22.4	63.5	0.2	13.9	133.3	133.2	8.1	7.9	-1.6	-1.6	-19.1
GEW-179	10/3/2018 10:18	23.5	62.7	0.3	13.5	133.5	133.5	7.4	7.3	-1.6	-1.6	-19.1
GEW-179	10/10/2018 13:39	23.5	63.5	0.3	12.7	131.4	131.2	7.9	8.6	-1.6	-1.6	-19.6

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-179	10/10/2018 13:40	24.2	62.9	0.3	12.6	131.2	131.2	8.2	8.9	-1.6	-1.6	-19.3
GEW-179	10/16/2018 11:27	22.3	61.3	0.3	16.1	123.4	123.9	7.6	7.3	-1.2	-1.2	-19.3
GEW-179	10/22/2018 11:21	22.3	67.3	0.0	10.4	124.5	124.9	6.6	7.2	-0.8	-0.8	-20.4
GEW-179	10/31/2018 14:06	22.9	67.8	0.0	9.3	110.5	110.2	4.0	5.6	-0.5	-0.5	-19.6
GEW-180	10/3/2018 10:00	15.7	61.2	1.3	21.8	143.2	143.5	1.0	4.5	-5.4	-5.4	-19.6
GEW-180	10/3/2018 10:06	16.1	60.1	1.3	22.5	144.2	143.9	9.3	2.9	-5.5	-5.5	-19.1
GEW-180	10/10/2018 13:33	16.6	62.8	1.3	19.3	140.2	140.0	6.5	6.5	-5.4	-5.5	-19.5
GEW-180	10/10/2018 13:35	16.7	61.9	1.3	20.1	139.9	139.9	7.6	6.1	-5.6	-5.5	-19.6
GEW-180	10/16/2018 11:30	17.3	66.4	0.0	16.3	129.2	129.2	5.4	3.5	-2.8	-2.9	-19.1
GEW-180	10/22/2018 11:18	15.2	67.8	0.1	16.9	128.9	129.0	4.3	7.5	-1.8	-1.8	-20.7
GEW-180	10/31/2018 14:02	16.9	67.1	0.0	16.0	126.1	125.8	5.6	4.5	-3.0	-3.0	-19.9
GEW-181	10/3/2018 9:47	17.1	64.1	0.3	18.5	165.5	165.7	14.3	16.7	-1.6	-1.6	-20.4
GEW-181	10/3/2018 9:55	17.7	65.6	0.3	16.4	165.5	165.5	15.6	14.8	-1.5	-1.6	-20.5
GEW-181	10/10/2018 13:28	18.9	65.9	0.1	15.1	165.2	165.2	14.9	18.1	-1.6	-1.6	-19.8
GEW-181	10/10/2018 13:29	18.3	67.1	0.1	14.5	165.2	165.2	14.7	14.5	-1.7	-1.7	-20.1
GEW-181	10/16/2018 11:34	16.6	66.2	0.0	17.2	165.2	165.2	17.9	17.9	-1.6	-1.5	-20.0
GEW-181	10/16/2018 11:35	16.5	67.8	0.0	15.7	165.2	165.2	18.1	18.7	-1.5	-1.5	-19.4
GEW-181	10/22/2018 11:12	17.0	65.7	0.1	17.2	167.0	167.0	16.3	18.8	-1.5	-1.5	-19.9
GEW-181	10/22/2018 11:14	17.0	66.2	0.0	16.8	167.1	167.1	15.0	16.0	-1.7	-1.8	-21.7
GEW-181	10/31/2018 13:57	16.9	66.7	0.0	16.4	165.2	165.2	14.1	20.5	-1.7	-1.7	-20.9
GEW-181	10/31/2018 13:58	16.9	67.3	0.0	15.8	165.0	164.7	16.4	16.3	-1.7	-1.7	-21.1
GEW-182	10/3/2018 13:37	22.9	38.0	5.1	34.0	108.9	108.8	5.0	5.7	-0.3	-0.3	-18.4
GEW-182	10/3/2018 13:43	22.3	37.2	5.1	35.4	109.2	109.2	14.2	6.9	-0.3	-0.3	-16.0
GEW-182	10/10/2018 11:10	19.3	33.0	8.3	39.4	102.8	102.8	8.0	11.5	-0.2	-0.3	-16.5
GEW-182	10/10/2018 11:11	19.7	33.3	8.2	38.8	102.8	102.6	5.0	8.2	-0.3	-0.3	-17.4
GEW-182	10/16/2018 10:27	21.4	32.9	8.0	37.7	95.0	95.0	14.3	13.9	-0.3	-0.2	-17.3
GEW-182	10/16/2018 10:29	21.3	33.5	8.0	37.2	94.8	94.8	5.2	3.8	-0.2	-0.2	-17.7
GEW-182	10/22/2018 10:40	25.4	35.3	6.1	33.2	90.1	90.3	3.6	7.6	-0.3	-0.2	-19.5
GEW-182	10/22/2018 10:41	25.4	35.5	6.0	33.1	89.8	90.1	11.7	15.5	-0.3	-0.3	-18.0
GEW-182	10/31/2018 13:18	11.9	23.1	11.6	53.4	82.6	82.6	6.6	5.7	-0.3	-0.3	-18.4
GEW-182	10/31/2018 13:20	12.1	24.0	11.5	52.4	81.8	81.9	8.2	19.9	-0.3	-0.3	-15.8
GEW-184	10/3/2018 13:48	17.8	35.5	7.7	39.0	112.5	112.5	1.1	0.0	-0.1	-0.1	-20.2
GEW-184	10/3/2018 13:55	17.8	34.3	7.8	40.1	113.5	113.5	2.2	0.0	-0.1	-0.1	-19.9
GEW-184	10/10/2018 11:16	11.0	21.3	14.5	53.2	98.4	98.7	5.1	2.3	-0.1	-0.1	-19.6
GEW-184	10/10/2018 11:17	10.9	20.5	14.6	54.0	98.9	98.9	4.9	4.1	-0.1	-0.1	-19.5
GEW-184	10/16/2018 10:22	12.1	24.9	12.8	50.2	82.6	82.7	3.3	2.9	-0.04	-0.04	-19.6
GEW-184	10/16/2018 10:23	12.5	24.2	12.9	50.4	82.5	82.6	0.0	3.1	-0.04	-0.04	-19.7
GEW-184	10/22/2018 10:34	12.4	23.8	12.5	51.3	88.6	88.9	4.0	4.2	-0.1	-0.1	-19.6
GEW-184	10/22/2018 10:36	12.4	23.4	12.5	51.7	88.9	89.1	3.0	3.5	-0.1	-0.1	-19.6
GEW-185	10/3/2018 13:59	12.9	43.9	6.2	37.0	166.3	166.1	8.2	9.4	-0.7	-0.5	-20.2
GEW-185	10/3/2018 14:07	12.8	42.9	6.4	37.9	166.5	166.4	5.1	6.1	-0.5	-0.5	-20.4
GEW-185	10/10/2018 11:21	14.0	42.9	7.1	36.0	163.3	163.3	2.5	6.9	-0.6	-0.6	-19.7

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-185	10/10/2018 11:23	13.9	43.4	7.1	35.6	163.8	163.8	8.8	9.3	-0.6	-0.6	-19.6
GEW-185	10/16/2018 10:15	12.3	40.0	8.2	39.5	159.0	158.7	4.2	5.5	-0.5	-0.5	-19.7
GEW-185	10/16/2018 10:18	12.2	40.9	8.0	38.9	159.0	159.0	7.1	7.7	-0.5	-0.5	-19.9
GEW-185	10/22/2018 10:29	11.6	38.3	9.0	41.1	155.6	155.6	7.4	6.5	-0.7	-0.7	-19.9
GEW-185	10/22/2018 10:30	11.2	37.8	9.0	42.0	155.7	155.8	12.2	9.1	-0.7	-0.7	-20.1
GEW-185	10/31/2018 13:32	13.3	43.1	6.2	37.4	158.5	158.1	9.4	8.7	-0.4	-0.4	-20.2
GEW-185	10/31/2018 13:34	13.0	44.8	6.0	36.2	159.0	158.5	10.8	9.4	-0.4	-0.4	-20.3
GEW-186	10/3/2018 11:46	25.7	51.7	2.1	20.5	127.2	127.1	15.4	10.6	-0.4	-0.4	-19.3
GEW-186	10/3/2018 11:53	28.0	50.7	2.1	19.2	127.4	127.5	12.6	13.3	-0.4	-0.4	-18.6
GEW-186	10/10/2018 13:21	24.3	53.7	1.6	20.4	125.0	125.0	13.6	3.7	-0.4	-0.3	-20.4
GEW-186	10/16/2018 11:14	24.1	52.8	1.3	21.8	118.9	118.6	13.0	12.1	-0.4	-0.4	-19.6
GEW-186	10/22/2018 10:22	22.7	53.2	1.8	22.3	117.1	117.3	10.8	14.7	-0.4	-0.4	-21.2
GEW-186	10/31/2018 13:49	20.1	46.4	4.3	29.2	113.7	113.7	7.7	13.5	-0.4	-0.4	-21.3
GEW-187	10/3/2018 11:19	26.3	55.5	0.6	17.6	163.8	163.8	2.3	2.3	-1.5	-1.4	-18.8
GEW-187	10/3/2018 11:26	27.1	53.8	0.5	18.6	162.9	163.1	3.2	0.0	-1.4	-1.4	-18.9
GEW-187	10/10/2018 14:17	26.6	56.0	0.5	16.9	158.5	158.5	4.1	9.0	-1.5	-1.5	-19.7
GEW-187	10/10/2018 14:18	26.4	57.9	0.4	15.3	158.5	159.0	6.2	4.8	-1.5	-1.5	-19.6
GEW-187	10/16/2018 11:50	25.7	59.1	0.0	15.2	151.3	151.0	4.4	4.1	-1.7	-1.7	-19.1
GEW-187	10/16/2018 11:51	25.9	58.5	0.0	15.6	151.3	151.3	4.6	3.7	-1.7	-1.7	-19.3
GEW-187	10/22/2018 11:46	23.5	55.5	0.4	20.6	165.7	165.7	7.0	4.4	-1.1	-1.1	-21.0
GEW-187	10/22/2018 11:47	23.3	57.0	0.3	19.4	165.7	165.7	13.6	5.2	-1.2	-1.1	-20.2
GEW-188	10/3/2018 14:11	0.3	9.8	13.6	76.3	108.9	108.9	8.3	5.4	-0.1	-0.1	-20.2
GEW-188	10/3/2018 14:17	0.2	7.3	13.6	78.9	107.7	107.7	6.8	8.1	-0.1	-0.1	-19.9
GEW-188	10/10/2018 11:27	0.4	7.0	17.6	75.0	90.3	90.3	8.2	8.1	-0.1	-0.1	-19.5
GEW-188	10/10/2018 11:28	0.3	6.0	17.7	76.0	90.5	90.6	8.3	7.8	-0.1	-0.1	-19.8
GEW-188	10/16/2018 10:10	0.2	10.1	17.9	71.8	75.7	75.7	9.1	8.7	-0.1	-0.1	-19.9
GEW-188	10/16/2018 10:11	0.2	8.7	18.1	73.0	75.7	75.7	7.2	7.6	-0.1	-0.1	-19.8
GEW-188	10/23/2018 11:13	0.1	5.1	20.1	74.7	96.8	96.8	16.1	5.3	-0.5	-0.5	-19.4
GEW-188	10/23/2018 11:15	0.0	3.5	20.2	76.3	96.7	96.7	3.6	8.8	-0.6	-0.3	-19.3
GEW-188	10/31/2018 13:24	6.4	18.3	8.3	67.0	128.0	128.0	35.4	34.9	-5.9	-5.9	-20.4
GEW-188	10/31/2018 13:26	6.1	18.0	8.4	67.5	127.0	127.0	31.8	30.7	-4.9	-4.9	-20.2
GEW-217	10/2/2018 11:07	5.1	5.5	18.2	71.2	94.3	94.4	15.4	14.3	-19.6	-19.6	-19.4
GEW-217	10/2/2018 11:09	5.4	4.9	18.3	71.4	94.4	94.5	15.6	11.6	-19.7	-19.6	-19.6
GEW-217	10/9/2018 9:51	8.5	45.3	5.5	40.7	135.9	135.7	0.0	6.2	-18.6	-18.7	-19.8
GEW-217	10/9/2018 9:58	8.5	44.8	5.3	41.4	143.2	143.2	8.7	5.8	-18.6	-18.6	-19.9
GEW-217	10/16/2018 13:16	8.7	41.9	5.9	43.5	83.3	83.3	3.1	3.5	-18.3	-18.3	-18.8
GEW-217	10/16/2018 13:17	8.6	43.9	5.8	41.7	83.3	83.3	3.9	3.3	-18.3	-18.1	-18.6
GEW-217	10/22/2018 13:46	7.2	8.1	16.8	67.9	75.1	75.0	4.2	4.9	-19.6	-19.5	-19.6
GEW-217	10/22/2018 13:48	6.2	8.2	16.6	69.0	75.0	75.0	3.6	1.1	-19.6	-19.6	-19.6
GEW-217	10/31/2018 13:19	12.5	26.3	10.0	51.2	65.8	65.8	1.6	3.3	-19.0	-19.3	-19.6
GEW-217	10/31/2018 13:20	11.0	25.5	10.5	53.0	65.3	65.5	3.7	2.3	-16.4	-16.4	-20.0
GEW-218	10/2/2018 11:14	24.4	49.7	0.1	25.8	150.2	150.6	8.0	5.0	-0.5	-0.4	-19.9

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-218	10/2/2018 11:15	24.4	49.9	0.0	25.7	150.6	150.6	14.0	7.9	-0.3	-0.4	-19.4
GEW-218	10/9/2018 9:02	26.1	49.9	0.1	23.9	156.9	157.1	12.2	5.8	-0.3	-0.2	-20.0
GEW-218	10/9/2018 9:09	26.1	47.0	0.0	26.9	157.3	157.3	4.6	3.8	-0.3	-0.3	-19.8
GEW-218	10/16/2018 13:21	24.3	46.6	0.1	29.0	128.1	128.1	12.5	11.0	-0.7	-0.6	-18.8
GEW-218	10/22/2018 13:52	23.6	46.5	0.1	29.8	140.6	140.6	9.3	11.0	-0.4	-0.4	-19.9
GEW-218	10/22/2018 13:53	23.4	47.7	0.0	28.9	140.6	140.6	6.4	7.7	-0.4	-0.4	-19.3
GEW-219	10/2/2018 11:38	10.0	30.5	4.7	54.8	183.3	183.3	2.9	7.7	-0.4	-0.4	-19.6
GEW-219	10/2/2018 11:39	9.8	30.6	4.7	54.9	183.3	183.3	8.4	4.3	-0.5	-0.4	-19.3
GEW-219	10/9/2018 9:29	10.9	32.5	3.3	53.3	166.7	166.7	4.7	3.8	-0.7	-0.7	-19.4
GEW-219	10/9/2018 9:36	10.8	31.5	3.4	54.3	166.1	166.1	3.8	8.9	-0.7	-0.7	-20.2
GEW-219	10/16/2018 13:25	5.7	23.8	5.4	65.1	157.3	157.4	5.8	4.0	-0.6	-0.6	-19.2
GEW-219	10/16/2018 13:27	5.5	22.9	5.4	66.2	157.4	157.3	8.6	7.3	-0.6	-0.6	-18.6
GEW-219	10/22/2018 13:57	6.0	25.1	6.0	62.9	176.4	176.4	11.7	6.2	-0.4	-0.4	-19.4
GEW-219	10/22/2018 13:59	5.7	24.3	6.1	63.9	176.4	176.4	4.1	1.7	-0.4	-0.4	-19.4
GEW-219	10/31/2018 13:27	4.3	20.2	5.5	70.0	132.9	133.2	8.7	6.9	-0.7	-0.7	-20.0
GEW-219	10/31/2018 13:29	4.0	20.4	5.4	70.2	132.0	132.0	5.3	12.3	-0.5	-0.5	-20.1
GEW-220	10/2/2018 14:23	4.3	32.9	6.3	56.5	197.9	197.9	29.8	30.8	-1.9	-1.9	-17.6
GEW-220	10/2/2018 14:25	4.3	33.0	6.2	56.5	198.1	198.1	17.0	15.5	-1.6	-1.6	-19.6
GEW-220	10/9/2018 10:08	3.2	51.9	2.7	42.2	203.1	203.1	27.0	25.4	-0.6	-0.6	-18.6
GEW-220	10/9/2018 10:22	3.4	51.3	2.1	43.2	203.1	203.1	15.5	19.4	-1.2	-1.3	-19.1
GEW-220	10/16/2018 13:30	3.1	35.2	6.6	55.1	200.1	200.1	17.2	17.8	-1.5	-1.5	-18.2
GEW-220	10/16/2018 13:32	2.9	36.3	6.6	54.2	200.1	200.1	15.0	13.3	-1.6	-1.6	-17.4
GEW-220	10/22/2018 14:02	4.1	15.9	11.1	68.9	146.9	147.0	24.9	25.0	-5.3	-5.4	-19.2
GEW-220	10/22/2018 14:04	4.0	15.1	11.1	69.8	147.0	147.3	19.9	19.6	-4.7	-4.6	-19.7
GEW-220	10/31/2018 13:33	3.2	13.3	13.5	70.0	123.4	123.4	20.0	17.8	-4.9	-4.9	-18.9
GEW-220	10/31/2018 13:35	3.2	12.6	13.6	70.6	111.0	110.5	2.2	2.7	-2.1	-2.1	-20.1
GEW-221	10/2/2018 14:30	8.7	60.5	0.1	30.7	114.3	114.5	3.7	2.8	1.5	1.5	-19.6
GEW-221	10/2/2018 14:34	10.5	60.7	0.0	28.8	161.1	161.1	18.5	19.4	-0.8	-0.8	-19.7
GEW-221	10/2/2018 14:35	12.1	60.7	0.1	27.1	163.4	163.5	16.5	18.5	-1.1	-1.1	-20.7
GEW-221	10/9/2018 10:31	15.2	41.7	0.1	43.0	144.9	144.6	4.0	17.2	-9.3	-9.3	-18.3
GEW-221	10/9/2018 10:37	15.3	40.9	0.1	43.7	144.2	144.2	9.7	13.0	-9.3	-9.3	-18.2
GEW-221	10/16/2018 13:35	8.9	39.0	0.2	51.9	150.6	150.6	12.9	12.5	-8.6	-8.6	-18.3
GEW-221	10/16/2018 13:36	9.2	39.5	0.2	51.1	150.6	150.6	7.8	8.8	-8.6	-8.6	-18.5
GEW-221	10/22/2018 14:07	10.3	38.4	0.2	51.1	151.8	152.1	9.1	13.6	-9.3	-9.3	-18.3
GEW-221	10/22/2018 14:09	10.3	38.8	0.2	50.7	152.1	151.7	15.6	12.5	-9.3	-9.3	-19.6
GEW-221	10/31/2018 13:38	9.6	34.5	0.2	55.7	149.9	149.9	13.9	13.9	-9.5	-9.5	-19.9
GEW-221	10/31/2018 13:39	9.4	35.7	0.1	54.8	149.9	149.9	13.5	13.5	-9.5	-9.5	-19.3
GEW-222	10/3/2018 7:46	29.2	48.7	0.1	22.0	148.8	148.8	8.4	13.7	-5.3	-5.3	-19.9
GEW-222	10/3/2018 7:47	29.3	48.8	0.1	21.8	148.8	148.8	10.8	12.9	-5.3	-5.5	-20.5
GEW-222	10/9/2018 11:05	31.4	50.6	0.0	18.0	177.5	177.5	14.5	8.1	-3.2	-3.2	-19.5
GEW-222	10/9/2018 11:12	31.7	50.1	0.0	18.2	177.7	177.7	10.8	11.4	-3.3	-3.2	-19.6
GEW-222	10/16/2018 13:40	18.6	56.0	0.0	25.4	195.9	196.3	12.1	4.8	-1.2	-1.4	-19.8

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-222	10/16/2018 13:41	18.9	57.5	0.0	23.6	195.9	195.8	15.6	16.8	-1.5	-1.5	-19.9
GEW-222	10/24/2018 10:01	25.7	52.2	0.0	22.1	159.0	159.0	19.3	15.3	-18.9	-18.9	-19.5
GEW-222	10/24/2018 10:03	26.2	49.3	0.0	24.5	154.4	154.0	12.9	12.6	-10.6	-10.6	-20.0
GEW-222	10/31/2018 13:44	0.3	66.6	0.0	33.1	205.4	205.4	14.3	14.7	3.4	3.9	-20.6
GEW-222	10/31/2018 13:46	0.1	69.4	0.0	30.5	205.4	205.4	31.4	32.7	1.0	1.0	-18.4
GEW-223	10/3/2018 7:51	7.6	50.0	3.6	38.8	186.4	186.4	7.3	7.3	-3.0	-3.0	-9.4
GEW-223	10/3/2018 7:53	7.0	52.6	3.6	36.8	186.8	186.6	7.9	8.6	-3.0	-3.0	-7.2
GEW-223	10/9/2018 11:28	3.4	41.4	8.2	47.0	192.3	192.3	16.1	20.1	-1.4	-1.7	-16.4
GEW-223	10/9/2018 11:35	3.5	41.3	8.3	46.9	192.8	192.6	6.0	6.5	-1.0	-1.2	-16.6
GEW-223	10/16/2018 13:44	4.5	42.3	7.9	45.3	193.6	193.6	4.3	12.8	-1.1	-1.1	-17.9
GEW-223	10/16/2018 13:46	4.0	42.3	8.0	45.7	193.6	193.6	19.9	16.4	-1.5	-1.5	-17.3
GEW-223	10/23/2018 9:20	2.6	15.5	16.0	65.9	164.4	164.3	17.6	19.1	-1.7	-1.7	-14.5
GEW-223	10/23/2018 9:21	2.5	15.9	15.9	65.7	164.3	164.3	13.4	2.0	-1.9	-2.1	-16.2
GEW-223	10/31/2018 14:06	2.4	20.8	14.2	62.6	171.0	170.5	15.9	16.7	-1.5	-1.4	-12.1
GEW-223	10/31/2018 14:08	2.4	22.6	14.2	60.8	165.2	165.2	7.5	5.9	-0.6	-0.5	-18.7
GEW-224	10/3/2018 8:14	4.1	62.6	0.3	33.0	203.1	203.1	16.6	16.1	-3.2	-3.5	-18.1
GEW-224	10/3/2018 8:15	4.1	62.5	0.2	33.2	203.1	203.1	22.7	21.8	-3.8	-3.7	-16.5
GEW-224	10/9/2018 11:40	8.4	59.0	0.3	32.3	200.3	200.2	16.0	15.4	-5.0	-5.0	-16.4
GEW-224	10/9/2018 11:47	9.3	54.8	0.1	35.8	200.7	200.5	10.7	15.8	-4.8	-5.0	-15.9
GEW-224	10/16/2018 13:50	15.3	62.0	0.4	22.3	162.4	162.0	3.1	5.6	-15.8	-15.9	-16.9
GEW-224	10/16/2018 13:51	15.7	63.0	0.3	21.0	162.3	162.0	3.7	5.6	-15.7	-15.9	-16.2
GEW-224	10/23/2018 9:25	16.7	63.0	0.1	20.2	154.0	153.7	2.4	2.8	-16.5	-16.5	-17.0
GEW-224	10/23/2018 9:26	16.7	63.1	0.0	20.2	153.7	153.7	4.2	7.0	-16.9	-16.8	-17.3
GEW-224	10/31/2018 14:11	8.9	61.9	0.0	29.2	192.9	192.9	11.7	11.7	-9.6	-9.6	-15.2
GEW-224	10/31/2018 14:12	8.5	63.8	0.0	27.7	192.9	192.3	10.9	13.2	-9.6	-9.6	-14.5
GEW-225	10/3/2018 8:19	0.4	62.3	0.1	37.2	179.2	179.2	22.8	19.6	-1.4	-1.2	-18.8
GEW-225	10/3/2018 8:21	0.3	62.1	0.1	37.5	179.7	179.7	19.3	18.2	-1.3	-1.1	-18.7
GEW-225	10/9/2018 11:51	10.3	60.2	0.0	29.5	183.9	183.7	16.8	15.2	-3.8	-3.8	-17.2
GEW-225	10/9/2018 11:58	10.7	59.9	0.0	29.4	183.9	183.9	17.1	14.2	-3.8	-3.8	-18.3
GEW-225	10/16/2018 13:54	11.2	58.9	0.0	29.9	187.6	187.6	7.0	7.2	-3.2	-3.3	-18.3
GEW-225	10/16/2018 13:56	11.0	59.0	0.0	30.0	187.6	187.6	7.7	6.1	-3.3	-3.3	-16.4
GEW-225	10/23/2018 9:29	10.4	59.0	0.0	30.6	193.6	193.6	11.4	7.0	-2.5	-2.5	-19.5
GEW-225	10/23/2018 9:31	10.4	58.5	0.0	31.1	193.6	193.6	4.9	4.8	-2.7	-2.7	-17.5
GEW-226	10/3/2018 8:32	7.7	21.9	8.2	62.2	151.7	151.7	8.5	9.8	-1.2	-1.2	-18.8
GEW-226	10/3/2018 8:34	8.1	20.0	8.3	63.6	151.0	151.0	3.3	8.2	-1.1	-1.1	-19.4
GEW-226	10/9/2018 13:27	13.6	25.9	5.3	55.2	145.7	145.9	11.8	9.4	-0.6	-0.6	-17.7
GEW-226	10/9/2018 13:33	13.2	26.4	5.6	54.8	145.6	145.6	6.2	7.8	-0.6	-0.6	-16.3
GEW-226	10/19/2018 8:22	2.7	13.2	13.0	71.1	120.2	119.9	16.3	2.9	-0.6	-0.6	-18.5
GEW-226	10/19/2018 8:23	2.7	12.4	13.1	71.8	120.2	120.5	1.5	14.7	-0.7	-0.7	-16.7
GEW-226	10/23/2018 9:47	3.8	14.3	12.5	69.4	121.8	121.8	14.6	8.7	-0.5	-0.6	-19.2
GEW-226	10/23/2018 9:48	3.7	12.9	12.6	70.8	121.8	121.9	4.1	2.4	-0.6	-0.6	-18.9
GEW-227	10/3/2018 8:39	2.3	21.0	9.0	67.7	165.2	165.2	8.7	9.5	-0.9	-0.9	-19.6

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-227	10/3/2018 8:41	2.2	21.2	9.0	67.6	165.2	165.2	19.4	17.6	-1.5	-1.5	-19.4
GEW-227	10/9/2018 13:56	6.7	24.6	7.3	61.4	152.5	152.5	14.3	9.4	-0.7	-0.7	-19.7
GEW-227	10/9/2018 14:02	5.6	21.5	7.8	65.1	153.3	152.9	10.0	8.2	-0.7	-0.7	-19.7
GEW-227	10/19/2018 8:30	2.2	17.4	11.0	69.4	135.9	135.6	5.2	6.6	-0.2	-0.2	-2.8
GEW-227	10/19/2018 8:32	2.1	17.9	10.9	69.1	135.6	136.1	4.6	7.1	-0.2	-0.2	-2.9
GEW-227	10/24/2018 14:32	1.6	48.2	1.6	48.6	203.1	203.1	13.6	14.2	-0.5	-0.5	-19.7
GEW-227	10/24/2018 14:33	1.2	49.8	1.6	47.4	203.1	203.1	15.4	15.5	-0.6	-0.5	-19.7
GEW-228	10/3/2018 8:45	2.1	11.8	13.2	72.9	140.8	140.6	17.1	13.2	-0.6	-0.6	-20.2
GEW-228	10/3/2018 8:47	2.2	10.2	13.2	74.4	140.9	140.9	17.4	15.7	-0.6	-0.6	-20.2
GEW-228	10/9/2018 14:20	3.5	21.4	6.8	68.3	190.2	190.2	13.3	11.9	-0.2	-0.2	-20.0
GEW-228	10/9/2018 14:26	3.4	21.0	6.7	68.9	190.2	190.2	7.4	10.7	-0.3	-0.2	-20.2
GEW-228	10/19/2018 8:37	3.0	17.1	11.0	68.9	186.4	186.4	11.8	5.9	-0.7	-0.6	-21.3
GEW-228	10/19/2018 8:39	2.9	17.0	11.0	69.1	186.4	186.4	8.5	9.4	-0.5	-0.7	-20.9
GEW-228	10/23/2018 9:57	2.2	15.1	11.6	71.1	185.9	186.4	9.6	4.4	-0.6	-0.6	-20.2
GEW-228	10/23/2018 9:59	2.1	15.1	11.6	71.2	186.1	185.9	3.2	7.8	-0.6	-0.6	-19.7
GEW-229	10/3/2018 8:51	1.9	9.7	11.8	76.6	113.0	113.0	16.0	16.5	-0.2	-0.2	-19.9
GEW-229	10/3/2018 8:52	1.9	9.8	11.8	76.5	113.0	113.0	16.6	14.1	-0.2	-0.2	-19.1
GEW-229	10/9/2018 14:32	3.5	16.6	7.0	72.9	152.9	152.9	14.4	15.6	-0.7	-0.8	-19.3
GEW-229	10/9/2018 14:40	3.5	15.9	7.0	73.6	153.3	153.1	12.2	13.0	-0.1	-0.2	-20.0
GEW-229	10/19/2018 8:43	2.3	12.7	9.8	75.2	142.5	142.7	4.9	5.7	-0.4	-0.4	-21.0
GEW-229	10/19/2018 8:45	2.3	13.2	9.7	74.8	142.9	142.9	4.9	7.8	-0.4	-0.4	-20.6
GEW-229	10/19/2018 8:52	8.9	28.6	6.9	55.6	173.5	173.5	6.1	10.3	-0.4	-0.5	-21.4
GEW-229	10/23/2018 10:02	1.5	12.3	10.9	75.3	142.2	142.2	13.6	14.5	-0.2	-0.1	-20.4
GEW-229	10/23/2018 10:04	1.5	12.1	10.9	75.5	142.4	142.5	14.6	15.8	-0.1	-0.1	-20.1
GEW-230	10/3/2018 8:57	5.8	29.8	5.0	59.4	181.0	181.5	5.8	6.7	-0.4	-0.3	-20.4
GEW-230	10/3/2018 8:59	5.8	30.2	5.0	59.0	181.5	181.5	9.5	8.5	-0.3	-0.4	-20.2
GEW-230	10/9/2018 14:47	8.3	33.2	1.9	56.6	164.7	165.2	10.0	10.2	-0.2	-0.2	-20.5
GEW-230	10/9/2018 14:53	8.8	34.0	1.9	55.3	164.7	164.7	10.2	9.1	-0.2	-0.2	-20.2
GEW-230	10/19/2018 8:50	8.9	27.2	7.0	56.9	173.6	173.6	8.4	12.6	-0.6	-0.5	-21.3
GEW-230	10/23/2018 10:08	2.9	21.6	10.0	65.5	178.0	178.0	17.6	12.0	-0.7	-0.5	-20.7
GEW-230	10/23/2018 10:10	2.9	22.1	9.9	65.1	178.3	178.0	13.3	10.0	-0.6	-0.5	-20.6
GEW-231	10/3/2018 8:26	13.9	54.0	2.7	29.4	160.7	160.7	8.1	11.5	-0.1	-0.1	-19.9
GEW-231	10/3/2018 8:27	14.2	54.5	2.6	28.7	160.7	160.3	8.3	5.4	-0.1	-0.1	-20.2
GEW-231	10/9/2018 13:40	16.6	57.3	0.7	25.4	163.5	163.3	4.8	5.9	-0.1	-0.1	-18.8
GEW-231	10/9/2018 13:46	16.4	57.9	1.1	24.6	162.9	162.9	4.6	0.6	-0.2	-0.2	-19.6
GEW-231	10/19/2018 8:09	18.4	56.1	1.1	24.4	155.2	155.2	9.6	6.2	-0.2	-0.1	-20.6
GEW-231	10/19/2018 8:11	17.4	58.0	0.9	23.7	154.9	155.2	6.2	8.0	-0.1	-0.1	-20.8
GEW-231	10/23/2018 9:41	19.2	55.8	1.4	23.6	154.8	154.8	8.2	8.7	-0.1	-0.1	-20.1
GEW-231	10/23/2018 9:42	19.3	56.0	1.4	23.3	154.8	154.8	11.3	9.3	-0.1	-0.1	-20.3
GEW-231	10/31/2018 14:29	16.1	51.0	2.2	30.7	142.2	142.5	8.4	13.9	-0.1	-0.1	-20.6
GEW-231	10/31/2018 14:30	16.2	54.2	2.3	27.3	142.5	142.2	11.5	4.3	-0.1	-0.1	-20.2
GEW-2S	10/4/2018 13:49	59.5	37.6	0.2	2.7	74.8	74.9	14.6	15.6	-12.2	-12.2	-12.7

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-2S	10/4/2018 13:55	60.8	35.3	0.2	3.7	75.1	75.2	18.8	11.5	-12.4	-12.5	-12.7
GEW-2S	10/8/2018 14:00	58.1	38.2	0.3	3.4	95.5	95.4	11.0	16.4	-12.1	-11.8	-13.0
GEW-2S	10/19/2018 9:43	50.4	33.4	2.6	13.6	60.2	60.2	16.1	14.6	-11.1	-11.5	-13.0
GEW-2S	10/23/2018 8:09	59.7	39.0	0.2	1.1	64.4	64.6	13.6	13.3	-7.0	-7.0	-13.0
GEW-2S	10/29/2018 10:01	57.7	36.9	0.0	5.4	72.6	72.8	11.1	8.8	-2.1	-1.9	-13.0
GIW-01	10/4/2018 14:26	9.3	54.3	2.2	34.2	161.6	161.7	4.8	5.0	-5.5	-5.4	-20.5
GIW-01	10/4/2018 14:33	8.6	53.1	1.9	36.4	162.4	162.4	6.9	5.8	-5.5	-5.6	-19.9
GIW-01	10/9/2018 9:44	7.7	57.0	0.3	35.0	164.3	164.3	5.3	5.0	-3.5	-3.5	-20.0
GIW-01	10/9/2018 9:45	7.5	59.3	0.4	32.8	164.8	164.9	5.2	7.0	-3.4	-3.4	-19.9
GIW-01	10/19/2018 13:38	11.1	58.0	0.0	30.9	162.1	162.4	9.4	6.4	-3.7	-3.7	-20.1
GIW-01	10/19/2018 13:39	10.1	58.6	0.0	31.3	162.4	162.4	7.2	5.4	-3.6	-3.6	-20.3
GIW-01	10/22/2018 14:29	10.9	56.8	0.3	32.0	165.7	165.7	8.6	5.6	-3.9	-3.9	-20.4
GIW-01	10/22/2018 14:30	11.1	57.6	0.2	31.1	165.7	165.5	4.9	7.9	-3.9	-3.9	-20.4
GIW-01	10/31/2018 9:39	10.4	55.4	0.4	33.8	158.5	158.5	6.9	6.9	-3.7	-3.7	-19.5
GIW-01	10/31/2018 9:40	9.2	62.1	0.4	28.3	159.0	159.0	4.8	7.1	-3.8	-3.8	-20.0
GIW-02	10/4/2018 14:17	2.9	19.7	13.2	64.2	70.4	70.4	1.2	1.2	-0.2	-0.2	-20.2
GIW-02	10/4/2018 14:23	2.9	18.6	13.3	65.2	70.4	70.4	2.4	1.7	-0.2	-0.2	-20.2
GIW-02	10/9/2018 9:47	2.5	24.4	11.8	61.3	88.9	88.9	1.2	1.2	-0.2	-0.2	-20.0
GIW-02	10/9/2018 9:49	2.6	23.0	11.9	62.5	89.6	89.6	1.6	1.6	-0.2	-0.2	-20.0
GIW-02	10/19/2018 13:41	1.9	27.2	11.9	59.0	63.1	62.9	2.4	2.4	-0.2	-0.2	-20.4
GIW-02	10/19/2018 13:42	1.9	24.2	12.4	61.5	61.6	61.6	2.4	2.1	-0.2	-0.2	-20.4
GIW-02	10/22/2018 14:33	1.5	22.2	12.4	63.9	84.7	84.7	2.3	1.2	-0.2	-0.2	-20.6
GIW-02	10/22/2018 14:33	1.5	21.2	12.6	64.7	84.9	84.8	1.2	1.7	-0.2	-0.2	-20.5
GIW-02	10/31/2018 9:42	1.0	24.2	14.1	60.7	58.3	58.2	3.6	3.6	-0.2	-0.2	-20.1
GIW-02	10/31/2018 9:44	1.0	19.1	14.9	65.0	57.0	57.0	1.9	1.9	-0.2	-0.2	-20.1
GIW-03	10/4/2018 14:07	12.4	53.8	0.9	32.9	71.7	71.7	6.0	5.4	-4.3	-4.3	-15.9
GIW-03	10/4/2018 14:13	12.6	52.1	0.9	34.4	71.1	71.0	6.1	5.4	-4.2	-4.2	-15.4
GIW-03	10/9/2018 9:51	12.4	50.0	0.4	37.2	86.3	86.3	4.0	4.0	-4.2	-4.2	-15.2
GIW-03	10/19/2018 13:45	8.6	52.7	0.6	38.1	59.5	59.5	4.7	3.4	-3.1	-3.1	-13.7
GIW-03	10/22/2018 14:36	10.5	49.2	1.0	39.3	82.7	82.7	2.3	3.1	-4.7	-4.7	-11.6
GIW-03	10/31/2018 9:47	8.6	53.9	0.3	37.2	55.7	55.6	4.9	4.6	-3.4	-3.4	-12.6
GIW-04	10/4/2018 13:56	3.2	55.1	0.1	41.6	74.1	74.1	2.6	3.7	-2.9	-2.9	-17.2
GIW-04	10/4/2018 14:03	3.1	55.7	0.2	41.0	73.2	73.2	3.7	3.9	-2.9	-2.9	-16.6
GIW-04	10/9/2018 9:54	1.1	51.7	0.9	46.3	87.4	87.5	2.6	2.8	-1.6	-1.6	-18.1
GIW-04	10/19/2018 13:47	2.5	51.8	1.5	44.2	59.0	59.0	3.0	2.7	-2.2	-2.2	-16.9
GIW-04	10/22/2018 14:38	2.2	50.1	1.6	46.1	81.4	81.6	3.5	2.6	-2.6	-2.6	-17.1
GIW-04	10/31/2018 9:49	1.7	52.4	0.0	45.9	55.5	55.5	3.1	3.5	-2.3	-2.3	-14.6
GIW-05	10/4/2018 13:41	1.7	41.4	4.4	52.5	67.4	67.5	9.7	9.7	-0.6	-0.6	-17.2
GIW-05	10/4/2018 13:49	2.0	46.2	3.1	48.7	69.5	69.5	14.5	14.5	-0.6	-0.6	-16.7
GIW-05	10/9/2018 9:57	1.3	45.6	2.7	50.4	85.6	85.6	8.7	8.3	-0.4	-0.4	-18.4
GIW-05	10/19/2018 13:49	1.2	44.2	3.7	50.9	58.2	58.2	7.5	6.3	-0.3	-0.3	-16.2
GIW-05	10/22/2018 14:42	1.3	40.3	3.7	54.7	78.2	78.2	8.3	7.9	-0.7	-0.7	-17.6

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GIW-05	10/31/2018 9:52	0.6	30.7	10.7	58.0	54.6	54.7	3.3	1.7	-0.3	-0.3	-14.9
GIW-05	10/31/2018 9:53	0.6	27.8	10.7	60.9	54.6	54.6	6.6	6.6	-0.3	-0.3	-15.1
GIW-06	10/4/2018 8:07	31.7	41.3	0.4	26.6	71.8	71.9	6.7	6.1	-8.9	-8.9	-17.2
GIW-06	10/4/2018 8:13	30.7	42.0	0.3	27.0	71.9	71.9	3.6	4.4	-8.6	-8.6	-16.7
GIW-06	10/10/2018 8:01	30.8	44.4	0.0	24.8	70.0	70.0	1.7	2.0	-7.1	-7.0	-17.2
GIW-06	10/19/2018 13:49	35.8	44.1	0.1	20.0	59.1	59.1	2.4	2.4	-8.8	-8.7	-16.9
GIW-06	10/23/2018 8:55	35.6	39.0	0.3	25.1	62.8	63.0	3.4	2.7	-7.0	-7.0	-15.6
GIW-06	10/31/2018 10:28	38.1	42.5	0.0	19.4	54.4	54.4	4.6	4.6	-6.8	-6.8	-14.7
GIW-07	10/4/2018 8:17	41.5	51.1	0.1	7.3	71.4	71.4	4.5	4.5	-3.1	-3.1	-17.2
GIW-07	10/4/2018 8:24	41.7	50.8	0.2	7.3	71.1	71.1	5.1	4.9	-3.0	-3.0	-17.2
GIW-07	10/10/2018 8:04	41.7	51.0	0.0	7.3	70.3	70.3	3.6	3.6	-2.6	-2.6	-17.1
GIW-07	10/19/2018 13:53	41.6	51.0	0.1	7.3	58.7	58.6	4.2	4.0	-2.2	-2.2	-16.2
GIW-07	10/23/2018 8:58	42.0	49.7	0.0	8.3	67.6	68.0	3.4	3.2	-2.5	-2.5	-15.5
GIW-07	10/31/2018 10:31	43.3	48.8	0.0	7.9	54.4	54.4	5.1	5.1	-1.4	-1.4	-14.6
GIW-08	10/4/2018 8:28	46.8	48.7	0.0	4.5	71.6	71.6	2.5	3.0	-2.5	-2.5	-17.0
GIW-08	10/4/2018 8:35	46.7	48.2	0.0	5.1	71.1	71.2	5.1	4.9	-2.5	-2.5	-16.4
GIW-08	10/10/2018 8:06	44.0	51.7	0.0	4.3	71.1	71.0	3.6	3.6	-2.3	-2.3	-16.1
GIW-08	10/19/2018 13:56	42.3	48.8	0.0	8.9	60.2	60.2	1.7	1.2	-1.9	-1.9	-17.7
GIW-08	10/23/2018 9:01	44.9	49.0	0.0	6.1	71.9	71.9	3.4	2.1	-2.2	-2.2	-17.6
GIW-08	10/31/2018 10:33	45.6	49.5	0.0	4.9	55.4	55.4	4.1	3.1	-1.9	-1.9	-15.9
GIW-09	10/4/2018 8:51	14.9	29.3	3.0	52.8	69.6	69.5	1.8	1.4	-1.3	-1.3	-16.7
GIW-09	10/4/2018 8:58	14.9	27.9	3.1	54.1	69.1	69.1	3.2	3.6	-1.3	-1.3	-15.3
GIW-09	10/10/2018 8:10	14.8	36.3	0.3	48.6	70.5	70.5	1.2	1.7	-0.9	-0.9	-16.2
GIW-09	10/19/2018 13:58	18.7	35.0	0.2	46.1	59.2	59.2	2.1	2.1	-0.6	-0.6	-16.2
GIW-09	10/23/2018 9:04	13.3	31.3	2.5	52.9	73.4	73.9	4.6	4.1	-1.2	-1.2	-16.9
GIW-09	10/31/2018 10:36	23.6	35.3	0.0	41.1	54.7	54.7	1.0	1.4	-0.6	-0.6	-16.1
GIW-10	10/4/2018 13:29	13.8	36.3	0.0	49.9	66.7	66.8	1.7	0.0	-3.7	-3.7	-17.2
GIW-10	10/4/2018 13:35	13.8	35.3	0.0	50.9	68.4	68.4	2.7	2.1	-3.7	-3.7	-16.7
GIW-10	10/9/2018 9:41	11.9	38.7	0.0	49.4	84.0	84.0	2.0	2.3	-3.2	-3.2	-17.8
GIW-10	10/19/2018 13:34	14.4	37.8	0.0	47.8	58.5	58.5	2.4	2.4	-3.2	-3.2	-16.6
GIW-10	10/22/2018 14:25	13.6	37.1	0.0	49.3	83.1	83.2	3.8	1.2	-3.5	-3.5	-18.1
GIW-10	10/31/2018 9:36	17.8	38.5	0.0	43.7	55.7	55.7	2.2	2.8	-3.4	-3.4	-15.1
GIW-11	10/4/2018 10:22	19.4	38.2	0.5	41.9	69.3	69.3	2.7	5.4	-2.6	-2.6	-18.4
GIW-11	10/4/2018 10:57	19.5	37.7	0.5	42.3	66.3	66.3	6.3	3.5	-2.6	-2.6	-14.4
GIW-11	10/9/2018 9:38	18.7	40.6	0.1	40.6	87.5	87.5	4.0	4.6	-2.1	-2.1	-17.8
GIW-11	10/19/2018 13:32	19.5	38.9	0.2	41.4	58.6	58.6	2.1	4.0	-2.2	-2.3	-15.1
GIW-11	10/22/2018 14:22	18.8	38.1	0.3	42.8	82.8	82.8	4.0	7.0	-2.4	-2.5	-14.3
GIW-11	10/31/2018 9:33	18.9	38.2	0.2	42.7	56.0	56.0	1.0	1.5	-2.5	-2.5	-17.8
GIW-12	10/4/2018 11:00	14.2	40.2	5.0	40.6	65.1	65.1	2.2	2.2	-0.2	-0.2	-18.2
GIW-12	10/4/2018 11:07	14.2	40.0	4.9	40.9	65.1	65.1	2.2	2.5	-0.2	-0.2	-18.2
GIW-12	10/8/2018 14:50	11.3	49.1	0.3	39.3	95.0	95.3	4.1	4.1	-0.03	-0.04	-17.1
GIW-12	10/19/2018 13:28	12.3	48.8	1.2	37.7	58.2	58.2	3.2	3.0	-0.1	-0.1	-19.0

October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GIW-12	10/22/2018 14:18	11.7	47.4	1.9	39.0	85.2	85.4	2.9	2.6	-0.1	-0.1	-19.0
GIW-12	10/31/2018 9:28	12.1	43.2	3.1	41.6	55.1	55.1	3.6	3.1	-0.2	-0.2	-18.6
GIW-13	10/4/2018 11:11	35.5	50.6	0.0	13.9	64.1	64.1	5.1	6.6	-1.5	-1.5	-13.0
GIW-13	10/4/2018 11:16	36.4	47.7	0.0	15.9	63.7	63.7	6.1	6.5	-1.4	-1.4	-12.5
GIW-13	10/8/2018 14:48	30.3	52.5	0.0	17.2	95.3	95.5	2.3	2.0	-1.1	-1.1	-11.9
GIW-13	10/19/2018 13:22	36.7	46.2	0.0	17.1	58.1	58.1	5.5	4.6	-1.4	-1.4	-13.0
GIW-13	10/22/2018 14:15	36.8	46.6	0.0	16.6	81.9	82.0	2.3	3.1	-1.4	-1.4	-11.8
GIW-13	10/31/2018 9:25	37.5	45.5	0.0	17.0	55.3	55.3	5.8	6.5	-1.6	-1.6	-12.7
LCS-1D	10/15/2018 9:41	39.0	21.7	8.3	31.0	61.4	61.4	5.3	8.3	-17.3	-17.6	-17.9
LCS-1D	10/15/2018 9:42	37.8	22.8	8.2	31.2	60.9	60.9	11.7	3.7	-17.7	-18.2	-18.5
LCS-2D	10/15/2018 9:59	56.8	42.4	0.0	0.8	47.0	47.0	2.1	2.7	-19.7	-19.7	-20.1
LCS-3D	10/15/2018 9:52	1.7	34.1	10.0	54.2	47.3	47.3	2.7	7.6	-17.3	-17.7	-20.1
LCS-3D	10/15/2018 9:53	1.6	34.4	10.0	54.0	47.0	47.0	3.2	7.9	-17.3	-17.6	-20.1
LCS-5A	10/4/2018 9:18	56.4	39.9	0.3	3.4	82.6	82.4	13.8	16.0	-10.7	-10.7	-12.4
LCS-5A	10/8/2018 10:37	55.2	40.7	0.5	3.6	92.9	92.9	10.6	10.9	-11.3	-11.2	-12.4
LCS-5A	10/16/2018 11:40	55.5	41.1	0.1	3.3	80.7	80.5	8.7	10.6	-11.5	-11.6	-12.6
LCS-5A	10/22/2018 9:25	55.8	40.7	0.3	3.2	81.2	81.2	11.8	7.7	-11.8	-11.8	-13.1
LCS-5A	10/29/2018 9:23	56.3	41.3	0.1	2.3	82.7	82.6	12.1	12.1	-11.8	-11.8	-12.5
LCS-5B	10/4/2018 9:46	54.6	41.3	0.0	4.1	142.1	142.6	23.8	19.3	-5.5	-5.4	-12.7
LCS-5B	10/4/2018 9:48	54.0	42.0	0.0	4.0	141.9	141.6	18.9	16.5	-7.8	-7.8	-12.8
LCS-5B	10/8/2018 11:12	53.2	41.7	0.0	5.1	144.3	144.7	17.5	16.2	-7.8	-7.8	-12.6
LCS-5B	10/8/2018 11:14	53.3	41.2	0.0	5.5	144.2	144.5	17.0	22.4	-7.8	-7.9	-12.5
LCS-5B	10/19/2018 8:10	54.5	42.7	0.0	2.8	140.4	140.9	15.5	15.5	-8.5	-8.5	-13.0
LCS-5B	10/19/2018 8:11	54.2	42.3	0.0	3.5	141.6	141.6	20.9	23.2	-7.4	-7.6	-13.2
LCS-5B	10/22/2018 10:49	54.4	42.0	0.0	3.6	141.7	141.3	13.7	18.2	-8.5	-8.5	-13.2
LCS-5B	10/22/2018 10:50	54.2	41.3	0.0	4.5	140.6	141.0	15.7	16.6	-9.4	-9.4	-13.1
LCS-5B	10/29/2018 9:34	55.1	41.9	0.0	3.0	144.5	143.6	13.6	17.7	-8.4	-8.4	-13.0
LCS-5B	10/29/2018 9:35	55.0	41.9	0.0	3.1	144.5	144.2	18.6	18.9	-8.4	-8.5	-13.0
LCS-6B	10/5/2018 8:36	48.5	37.8	2.2	11.5	95.6	95.5	5.7	6.8	-0.6	-0.6	-12.7
LCS-6B	10/5/2018 8:38	48.7	38.0	2.3	11.0	92.2	92.2	6.3	5.0	-0.2	-0.2	-12.7
LCS-6B	10/8/2018 14:14	54.5	41.4	0.0	4.1	93.6	93.9	9.4	8.6	0.1	0.2	-12.9
LCS-6B	10/8/2018 14:16	53.8	42.4	0.3	3.5	95.0	94.9	9.8	6.7	-0.2	-0.3	-12.7
LCS-6B	10/19/2018 9:58	50.8	39.0	1.5	8.7	69.8	69.8	4.1	4.1	-0.4	-0.4	-12.8
LCS-6B	10/19/2018 9:59	50.4	38.6	1.5	9.5	67.5	67.5	5.8	5.8	-0.1	-0.1	-12.9
LCS-6B	10/22/2018 13:37	54.5	38.3	0.9	6.3	85.6	85.6	8.7	8.7	-0.1	-0.1	-12.9
LCS-6B	10/30/2018 9:42	51.9	39.6	1.2	7.3	74.8	74.8	5.6	5.6	-0.2	-0.2	-13.0
LCS-6B	10/30/2018 9:43	51.4	40.1	1.2	7.3	74.6	74.6	6.3	5.6	-0.1	-0.1	-13.2
SEW-002	10/12/2018 11:24	13.9	55.6	0.5	30.0	49.7	49.6	7.3	7.3	-0.1	-0.1	-19.0
SEW-003	10/12/2018 11:18	5.0	48.3	4.8	41.9	81.2	81.2	15.6	15.4	-0.2	-0.2	-20.1
T-56	10/5/2018 9:36	51.9	35.9	0.0	12.2	77.2	77.3	10.9	12.1	-0.03	-0.02	-13.2
T-56	10/9/2018 9:18	54.1	36.6	0.0	9.3	78.3	78.7	12.5	12.5	-0.02	-0.03	-13.8
T-56	10/19/2018 11:02	53.9	36.8	0.0	9.3	65.6	67.2	17.1	17.4	-0.02	-0.04	-13.2




October 2018 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
T-56	10/22/2018 13:58	52.8	35.5	0.0	11.7	71.5	71.5	13.1	13.0	-0.02	-0.02	-13.7
T-56	10/30/2018 10:08	51.8	36.6	0.0	11.6	67.4	67.7	13.2	14.1	-0.02	-0.04	-13.2






ATTACHMENT D-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2018	August 2018	September 2018	October 2018	><30°F	
GEW-002	118.6	116.9	116.3	115.5		
GEW-003	117.6	115.1	116.0	119.9		
GEW-004	118.4	115.8	115.3	115.3		
GEW-005	97.9	95.5	91.7	92.9		
GEW-006	92.9	92.0	89.4	89.8		
GEW-007	96.1	100.6	100.1	97.2		
GEW-008	114.5	115.8	116.3	114.4		
GEW-009	125.0	126.1	126.4	125.0		
GEW-010	107.7	98.7	104.3	98.2		
GEW-013A	159.2	195.0	190.7	190.9		
GEW-015	97.4	96.2	87.5	56.5		
GEW-016R	178.0	178.6	177.5	175.3		
GEW-018B	174.3	181.5	170.2	153.3		
GEW-022R	106.0	92.2	100.1	53.9		
GEW-038	113.9	111.5	98.2	70.9		
GEW-039	119.3	118.1	117.9	114.0		
GEW-040	101.8	92.4	104.5	84.4		
GEW-041R	106.0	104.8	103.4	102.1		
GEW-042R	109.7	110.0	110.7	108.7		
GEW-043R	125.3	124.4	124.7	123.7		
GEW-044	104.0	103.8	104.3	101.8		
GEW-045R	97.9	100.8	101.3	97.4		
GEW-046R	102.3	101.5	101.1	100.8		
GEW-047R	114.5	113.5	111.4	113.0		
GEW-048	104.6	103.6	102.1	101.4		
GEW-049	109.2	108.6	110.2	106.0		
GEW-050	106.5	108.2	108.7	107.0		
GEW-051	124.6	126.9	125.3	123.1		
GEW-052	113.2	116.3	115.8	115.0		
GEW-053	143.9	144.2	143.2	143.5		
GEW-054	144.5	142.9	142.7	145.9		
GEW-055	135.9	132.6	133.2	130.3		
GEW-056R	123.4	125.8	127.5	115.5		
GEW-057B	185.1	188.9	90.5	187.7		
GEW-057R	100.1	102.2	103.0	--		
GEW-058	94.8	99.9	101.6	--		
GEW-058A	95.0	100.4	99.2	90.1		
GEW-059R	164.7	165.8	165.3	173.1		
GEW-067A	130.5	114.1	81.2	100.4		

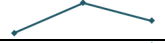

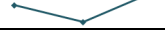

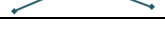

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2018	August 2018	September 2018	October 2018	><30°F	
GEW-068A	199.3	200.0	199.3	198.7		
GEW-077	--	108.6	--	--		
GEW-078R	156.5	157.7	159.8	154.0		
GEW-081	109.5	92.8	97.9	--		
GEW-082R	195.7	176.4	177.7	174.7		
GEW-086	114.0	108.7	97.4	111.5		
GEW-087	135.7	126.9	131.4	127.5		
GEW-088	192.9	195.0	193.6	195.7		
GEW-090	167.6	181.5	197.9	179.2		
GEW-091	192.8	194.3	196.4	194.3		
GEW-100	104.1	86.1	91.2	83.7		
GEW-101	111.0	117.1	119.4	97.9		
GEW-102	87.7	84.0	99.1	73.4		
GEW-104	162.4	202.3	194.3	149.1		
GEW-105	145.6	140.2	147.7	157.3		
GEW-106	194.0	179.7	186.2	102.6		
GEW-107	173.6	173.1	162.3	170.5		
GEW-108	143.9	143.9	147.0	148.3		
GEW-109	132.3	135.3	125.8	109.2		
GEW-110	118.1	108.0	118.4	109.4		
GEW-113	150.4	150.2	150.2	137.1		
GEW-116	191.4	191.0	188.3	184.3		
GEW-117	118.3	125.6	118.6	90.8		
GEW-118	197.2	197.3	196.4	196.4		
GEW-120	159.4	161.6	159.8	159.4		
GEW-121	174.8	174.9	175.3	170.0		
GEW-122	151.3	148.0	148.4	126.7		
GEW-123	130.3	140.9	152.5	148.8		
GEW-124	99.4	88.2	92.9	78.1		
GEW-125	179.9	176.4	174.7	162.4		
GEW-126	121.2	119.7	124.8	75.7		
GEW-127	177.7	178.0	173.6	160.7		
GEW-128	180.9	178.0	167.6	156.5		
GEW-129	194.0	170.5	180.3	130.0		
GEW-130	186.4	185.1	182.7	185.7		
GEW-131	156.7	154.7	152.5	143.5		
GEW-132	174.7	167.6	159.0	77.3		
GEW-133	167.1	166.6	174.2	164.8		
GEW-134	161.6	162.4	150.8	130.3		


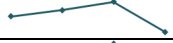


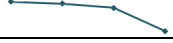
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2018	August 2018	September 2018	October 2018	><30°F	
GEW-135	152.5	152.9	158.5	154.8		
GEW-136	132.9	129.4	123.7	--		
GEW-137	114.3	113.7	108.3	94.8		
GEW-138	136.6	135.9	126.4	103.3		
GEW-139	185.1	192.9	188.9	188.3		
GEW-140	188.9	198.8	198.6	197.1		
GEW-141	102.9	101.1	97.4	--		
GEW-142	97.9	100.6	90.8	--		
GEW-143	107.0	97.2	96.7	--		
GEW-144	93.3	88.4	93.4	73.4		
GEW-145	118.6	113.2	105	78.7		
GEW-146	105.8	105.5	108.2	--		
GEW-147	181.5	157.7	179.2	159.5		
GEW-148	139.9	138.7	83.3	141.6		
GEW-149	119.7	133.4	126.9	122.1		
GEW-150	187.0	187.0	182.1	174.8		
GEW-151	183.1	130.3	112.7	119.9		
GEW-152	119.2	121.8	123.5	122.6		
GEW-153	106.0	107.7	89.8	99.4		
GEW-154	110.7	94.1	78.2	--		
GEW-155	120.2	115.5	117.9	86.8		
GEW-156	122.6	113.7	116.8	111.7		
GEW-157	124.2	119.0	146.5	135.9		
GEW-158	161.1	156.6	100.8	98.1		
GEW-159	89.8	97.9	88.4	83.5		
GEW-160	111.7	102.8	87.7	91.4		
GEW-161	156.5	130.1	103.2	131.7		
GEW-162	133.5	122.8	126.4	101.3		
GEW-163	166.7	167.1	169.0	171.6		
GEW-164	156.5	155.6	151.0	150.6		
GEW-165	178.0	175.8	174.7	172.5		
GEW-166	195.1	194.4	194.6	194.3		
GEW-167	190.2	190.9	187.6	188.3		
GEW-168	163.0	157.7	142.9	136.8		
GEW-169	187.0	185.7	183.9	179.7		
GEW-170	179.2	178.6	171.0	166.1		
GEW-171	100.9	137.7	89.8	95.3		
GEW-172	183.3	169.0	182.7	181.5		
GEW-173	128.9	131.7	121.0	96.5		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2018	August 2018	September 2018	October 2018	><30°F	
GEW-174	152.3	156.6	153.3	150.1		
GEW-175	176.1	146.7	162.4	163.3		
GEW-176	118.4	105.7	101.8	104.8		
GEW-177	190.9	195.7	186.4	192.3		
GEW-178	121.0	115.2	121.2	118.1		
GEW-179	140.0	137.4	141.9	133.5		
GEW-180	149.1	143.9	146.7	144.2		
GEW-181	160.2	159.8	166.1	167.1		
GEW-182	152.9	122.0	120.2	109.2		
GEW-184	128.7	115.3	116.6	113.5		
GEW-185	174.7	175.5	171.0	166.5		
GEW-186	146.3	137.6	133.2	127.4		
GEW-187	156.9	167.6	171.6	165.7		
GEW-188	135.0	114.0	117.3	128.0		
GEW-217	--	104.5	200.8	143.2		
GEW-218	--	124.5	120.5	157.3		
GEW-219	--	193.6	183.1	183.3		
GEW-220	--	110.2	204.7	203.1		
GEW-221	--	104.5	144.0	163.4		
GEW-222	--	192.3	175.3	205.4		
GEW-223	--	200.1	200.7	193.6		
GEW-224	--	113.2	175.3	203.1		
GEW-225	--	106.0	135.3	193.6		
GEW-226	--	143.5	200.8	151.7		
GEW-227	--	205.4	203.0	203.1		
GEW-228	--	200.8	202.3	190.2		
GEW-229	--	121.1	152.9	173.5		
GEW-230	--	174.7	174.8	181.5		
GEW-231	--	190.9	171.6	163.5		
GEW-1A	111.0	--	--	--		
GEW-2S	96.0	87.5	96.9	95.5		
GIW-01	173.1	172.1	171.0	165.7		
GIW-02	111.2	104.3	103.8	89.6		
GIW-03	106.2	98.4	98.9	86.3		
GIW-04	110.8	99.9	103.8	87.4		
GIW-05	104.0	97.2	98.2	85.6		
GIW-06	107.8	99.9	100.7	71.9		
GIW-07	109.0	99.6	101.1	71.4		
GIW-08	113.7	110.8	104.0	71.9		

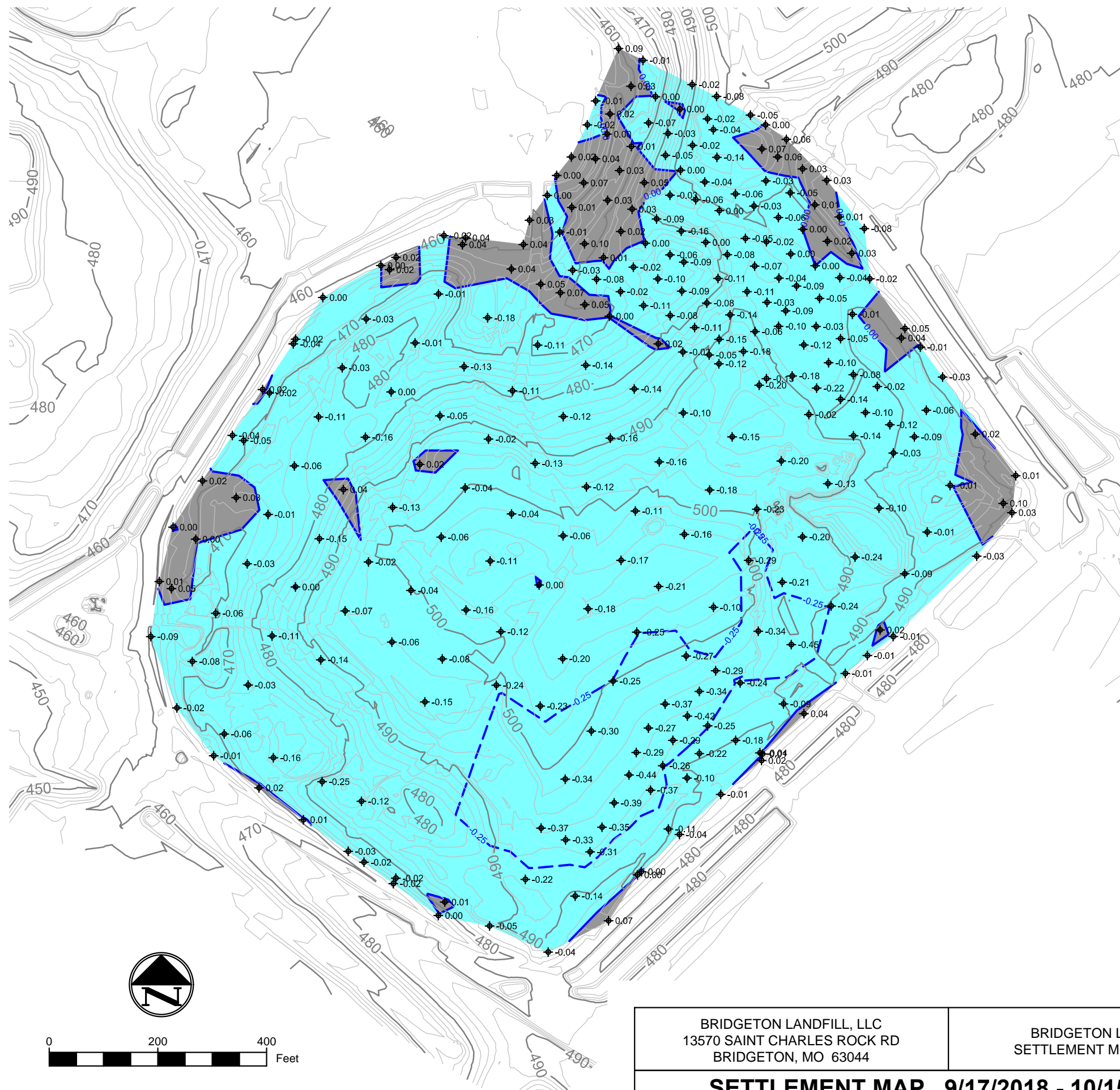
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	July 2018	August 2018	September 2018	October 2018	><30°F	
GIW-09	107.2	106.8	99.9	73.4		
GIW-10	103.0	105.7	102.5	84.0		
GIW-11	105.7	101.6	102.1	87.5		
GIW-12	107.0	96.7	96.7	95.0		
GIW-13	108.3	99.6	99.2	95.3		
LCS-1D	80.0	86.1	114.8	61.4		
LCS-2D	71.6	81.4	94.8	47.0		
LCS-3D	72.3	82.3	101.4	47.3		
LCS-4B	--	--	--	--		
LCS-5A	106.2	102.1	104.8	92.9		
LCS-5B	150.6	150.9	149.2	144.5		
LCS-6B	112.1	118.9	115.0	95.6		
SEW-002	108.2	101.6	95.8	49.7		
SEW-003	126.0	122.9	116.6	81.2		
T-56	85.7	86.8	80.5	78.3		

-- = Indicates no data available.

ATTACHMENT E

SETTLEMENT FRONT MAP



Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Medium Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	1,389,384.69	Cyan
6	0.00	1.00	145,296.99	Grey

LEGEND

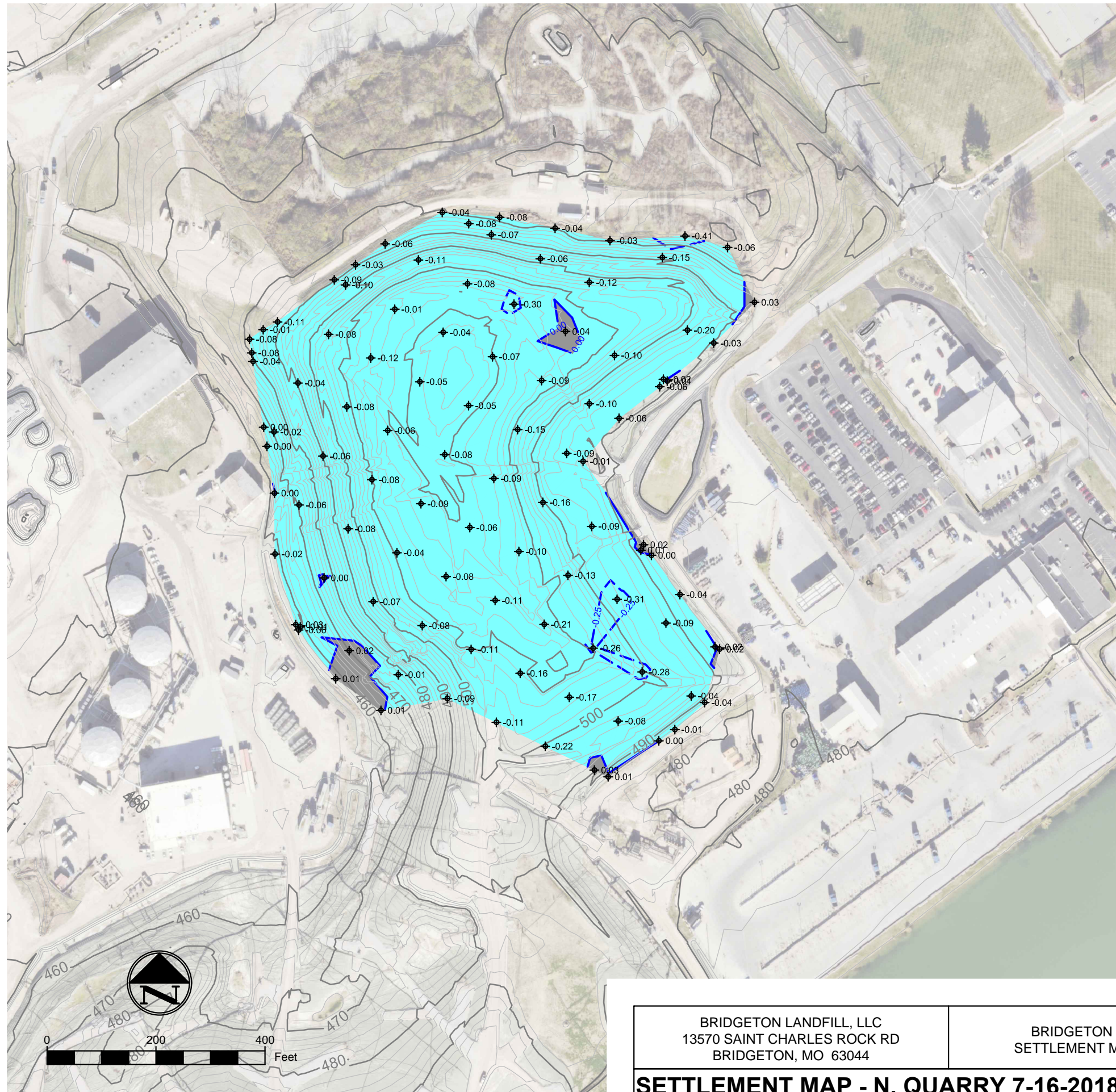
- 12-1-2017 TOPOGRAPHY (2' CONTOUR)
 - 500 12-2-2017 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - 0.3 SPOT ELEVATION DIFFERENCE (78-16-2018 to 9-17-2018)
 - 10-2018 *SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.26' PER 28 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR OCTOBER 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 9-17-18 FROM SPOT ELEVATIONS SURVEYED ON 10-15-18.
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	OCTOBER 2018 DESIGNED BY: PML APPROVED BY: DRF	DRAWING NO.: 001
SETTLEMENT MAP 9/17/2018 - 10/15/2018			
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\pml\Dropbox\Feezor Engineering\Bridgeton\100-1498BT-145 (Agreed Order Reporting)\Monthly Reports\10-2018 Report\Drafts_Data\Settlement\Settlement And Fill 10-15-2018.dwg		REVISION DATE	



Thickness Map				
Range	Minimum Depth	Maximum Depth	2D Area (Sq. Ft.)	Color
1	-5.00	-4.00	0.00	Dark Blue
2	-4.00	-3.00	0.00	Medium Blue
3	-3.00	-2.00	0.00	Light Blue
4	-2.00	-1.00	0.00	Very Light Blue
5	-1.00	0.00	628,442.71	Cyan
6	0.00	1.00	13,825.75	Grey

LEGEND

- 12-1-2017 TOPOGRAPHY (2' CONTOUR)
 - 500 12-1-2017 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - 0.03 SPOT ELEVATION DIFFERENCE (7-16-2018 to 10-16-2018)
 - 10-2018 *SETTLEMENT FRONT CONTOUR FOR AREA WITH 4.14' PER 92 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR 7-16-2018 THROUGH 10-16-2018

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 7-16-18 FROM SPOT ELEVATIONS SURVEYED ON 10-16-18.
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		OCTOBER 2018 DESIGNED BY: PML APPROVED BY: DRF	DRAWING NO.: 003
SETTLEMENT MAP - N. QUARRY 7-16-2018 - 10-16-2018		FEEZOR ENGINEERING, INC.	REVISION DATE	
PROJECT NUMBER: BT-145 FILE PATH: C:\Users\pml\OneDrive\Feezor Engineering\Bridgeton\100-149\BT-145 (Agreed Order Reporting)\Quarterly Settlement\10-2018\Quarterly NQ Settlement 10-16-2018.dwg				

ATTACHMENT F

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant October 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
10/1/2018				0
10/2/2018				0
10/3/2018				0
10/4/2018				0
10/5/2018				0
10/6/2018				0
10/7/2018				0
10/8/2018				0
10/9/2018				0
10/10/2018				0
10/11/2018				0
10/12/2018				0
10/13/2018				0
10/14/2018				0
10/15/2018				0
10/16/2018	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
10/17/2018				0
10/18/2018				0
10/19/2018				0
10/20/2018				0
10/21/2018				0
10/22/2018				0
10/23/2018				0
10/24/2018				0
10/25/2018				0
10/26/2018				0
10/27/2018				0
10/28/2018				0
10/29/2018				0
10/30/2018				0
10/31/2018				0
Total				0

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
10/1/2018			155,280
10/2/2018			140,328
10/3/2018			134,752
10/4/2018			145,680
10/5/2018			145,440
10/6/2018			143,032
10/7/2018			138,584
10/8/2018			154,352
10/9/2018			147,696
10/10/2018			125,776
10/11/2018			115,264
10/12/2018			108,808
10/13/2018			110,104
10/14/2018			182,880
10/15/2018		Through Tank AST 97k	192,864
10/16/2018	LPTP Permeate	(MSD Sampling Point 013)	195,224
10/17/2018			194,208
10/18/2018			177,080
10/19/2018			157,760
10/20/2018			182,136
10/21/2018			260,752
10/22/2018			142,960
10/23/2018			77,872
10/24/2018			75,248
10/25/2018			77,464
10/26/2018			115,392
10/27/2018			171,864
10/28/2018			172,216
10/29/2018			173,648
10/30/2018			161,256
10/31/2018			173,320
Total			4,649,240

ATTACHMENT G

VOLUMES OF LEACHATE PROCESSED

Bridgeton Landfill - Leachate Volumes
October 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 1,571,256 gallons. Therefore, the total leachate collected was 2,187,226 gallons.

ID	Volume
LCS -1D	0
LCS-2D	0
LCS-3D	223,174
LCS-4B	0
LCS-5A	318,976
LCS-5B	69,888
LCS-6B	3,932

ATTACHMENT H

SLIP FAILURE AND SEPARATION ASSESSMENT

October 25, 2018

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

RE: Bridgeton Slip Failure and Separation Assessment
3rd Quarter 2018 Inspection

Dear Erin,

On September 19, 2018, I performed an inspection of the Bridgeton Landfill for the purpose of identifying any visual evidence of instability or incipient failure. The inspection included the North and South Quarry fill areas. This inspection was for the 3rd quarter of 2018. The previous inspection was performed on 6/6/2018.

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

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

The previously reported minor surficial slumping along the southern ditch of the South Quarry appears to be resulting in a gradual reduction in slope along the lower edge of the landfill in the vicinity of the ditch. No indication that this surficial slumping is resulting in motions further upslope was observed. Rather the upslope area is lessening in elevation due to continued settlement, removing the likelihood of upslope movement related to the minor surficial slumping related to the ditch area. Given that these slump shapes have not progressed up slope it is not necessary to repair them at this time.

Since the quarterly inspections were begun in 2013, the sloping portions of the landfill are noticeably flatter and therefore, less prone to instability. As mentioned in the past few

● Page 2

inspection reports, there are very few areas within the heat affected portions of the South Quarry that have slopes exceeding 20%. This general reduction in vertical relief has essentially eliminated any potential for instability of any consequence in the South Quarry. The only slopes that are close to the original ground surface slopes in the South Quarry are those south of the neck area. These areas were examined for any signs of movement and none was observed.

Fill materials continue to be placed in the locally depressed areas to allow for drainage of stormwater in the South Quarry. The areas east of the main fills in South Quarry do exhibit signs of differential settlement along the vertical projection of the Quarry wall. No open tension cracking was indicated in area of the differential settlement when pressing the membrane down to contact the underlying ground surface in this area.

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

In addition, a review of the monthly settlement at grid points in the South Quarry for the past quarter was performed and the settlement in the North Quarry between July 16, 2018 and October 16, 2018. I did not see any indication of instability in the data. Monthly settlement mapping from July 2018 and September 2018 in the South Quarry was also reviewed. No indication of instability was observed in the South Quarry based on settlement patterns. As mentioned in previous reports, the Bridgeton site has not exhibited a coupling of instability and settlement. .

This is the twenty-fourth review I have performed of this type at the Bridgeton since the fall of 2012. To date, no signs of impending instability of any consequence has been identified or occurred.

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

Sincerely,



Peter J. Carey, PE
President