

Bridgeton Landfill, LLC

Monthly Data Submittals

April 2020

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

Contents:

Commentary on Data

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

Provided Separately:

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

May 20, 2020

Commentary on Data

May 20, 2020

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

Gas Volume

- As presented in Attachment B-1, the gas collection volumetric rate for this month averaged a total site flow of 1,046 SCFM, as normalized per the MDNR weekly flow and TRS sampling results.
- On October 8, 2019 all landfill gas from the North Quarry was directed to the FL-120 Flare (combined with the South Quarry Landfill Gas). Therefore, as of this date, there was no flare testing nor data from the Auxiliary Flare. For the April 2020 Monthly Report, this affected the Appendix A – Flare Data and Flare Graphs.

Gas Quality

- Attachments D and E present the monthly data related to gas quality as measured at the respective wellheads.
- Attachment E-1 presents vertical wells which exhibited oxygen levels at or greater than 5% during one (1) or more weekly monitoring events during this reporting period. These consisted of 8 GEW wells that are experiencing low or restricted flows, one (1) leachate collection sump (LCS), and one (1) GIW well that exhibit low gas flow due to the cooling loops that are installed in these wells. By the end of the month, 4 of the GEW wells, one LCS, and one GIW well still exhibited oxygen levels at or greater than 5% at the wellhead. All of these wells are low-flow/vacuum sensitive wells with valves that are only slightly open. On-going tuning, maintenance, and pump operation are being performed to manage the oxygen content.
- Attachment E-2 presents gas temperatures as measured at the wellheads. Six (6) vertical wells (excluding GIW wells) increased by 30°F or more during this reporting period. Additionally, two (2) vertical wells (excluding GIW wells) decreased by 30°F or more. All wells that exhibited changes greater than 30°F are within the historical gas temperature norms for these wells or within the range of temperatures of nearby vertical wells.
- All gas wells in the North Quarry exhibited a maximum wellhead temperature less than 145°F during this reporting period, with the exception of GEW-054 (146.0°F). Carbon monoxide (CO) results were non-detect (ND) for North Quarry wells, with the exception of GEW-053 (54 ppm), consistent with past events.
- Site personnel are performing a comprehensive wellfield investigation to optimize the landfill gas collection and control system (GCCS). Wells that have previously been decommissioned due to excessive moisture and/or dangerous conditions have been reviewed and monitored to determine if the wells have obstructions that would prohibit

pump installation and would therefore preclude leachate and landfill gas collection. Wells with no identified downhole integrity issues and which are no longer exhibiting excessive moisture and/or dangerous conditions have been brought back online. Wells with no identified downhole integrity issues but which still exhibit excessive moisture and/or dangerous conditions will remain decommissioned until conditions at the location improve. Wells with poor gas quality are planned to be decommissioned in the latter half of 2020. This investigation will continue through the Second Quarter 2020. Wellfield expansion and abandonment activities will be reported in the quarterly Landfill Gas Corrective Action Update.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 0.34 feet over 34 days during this reporting period (see Attachment E).
- The North Quarry exhibited quarterly maximum settlement up to 0.71 feet over 96 days during this reporting period (see Attachment E).

Bird Monitoring and Mitigation

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

Natural Gas Usage

- Natural gas was not used as a supplemental fuel for the destruction of landfill gas in the previous month.

Slip Failure or Separation Assessment

- On March 17, 2020, an inspection of the Bridgeton Landfill was performed by P.J. Carey of Feezor Engineering, Inc, to identify visual evidence of instability or incipient failure. This inspection included the north and south quarry fill areas. The findings of this inspection were discussed in a separate report which was submitted on April 27, 2020. A copy of the Slip Failure or Separation Assessment is included in Attachment H.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

FLOW DATA TABLE

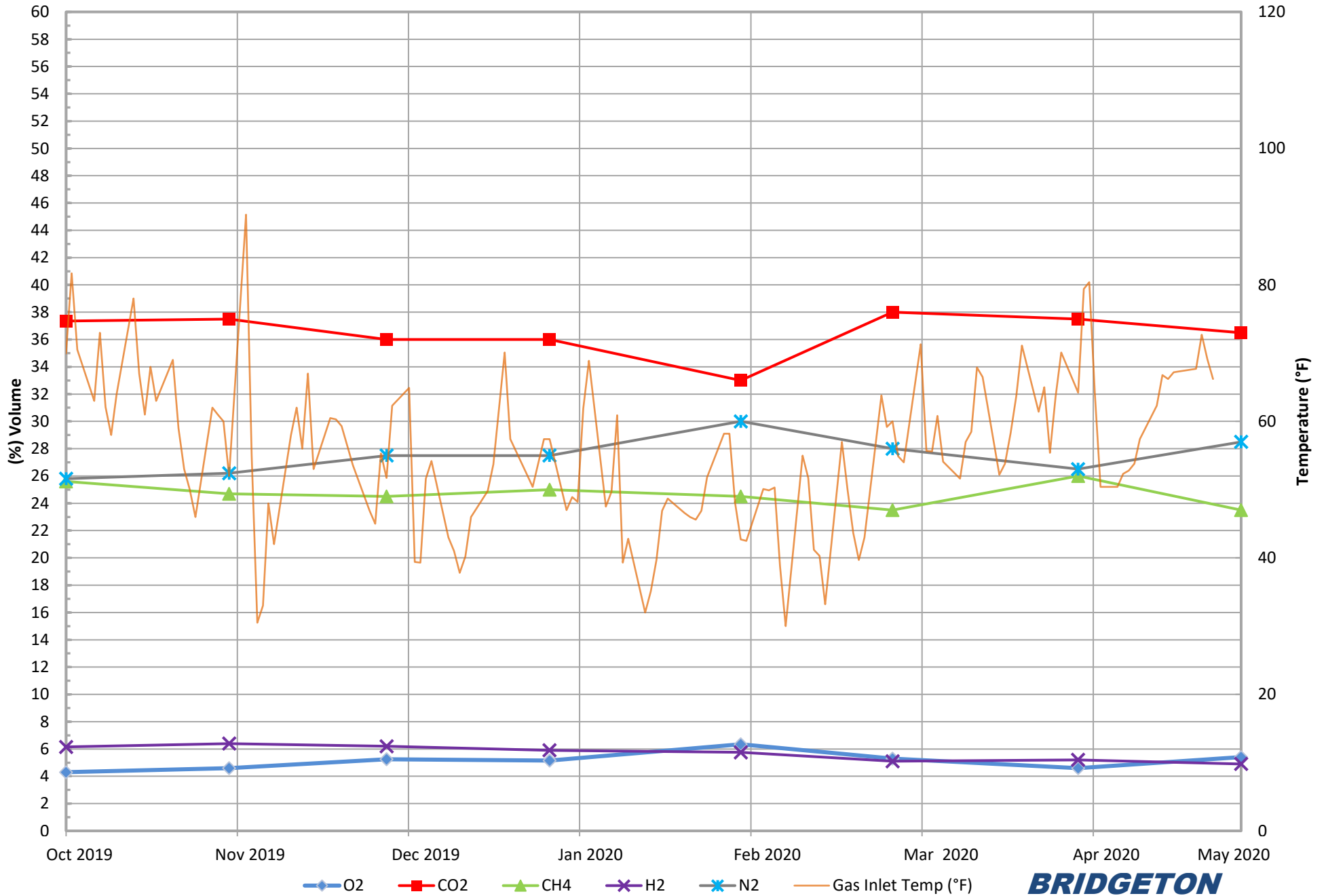
Daily Flare Monitoring Data - Bridgeton Landfill
April 2020

Date	Average Device Flow* (scfm)			Total Avg. Flow** (scfm)
	Utility Flare (FL-100)	Utility Flare (FL-120)	Utility Flare (FL-140)	
4/1/2020	0	983	0	983
4/2/2020	0	947	0	947
4/3/2020	0	954	0	954
4/4/2020	0	927	0	928
4/5/2020	0	923	0	923
4/6/2020	0	957	0	957
4/7/2020	0	985	0	985
4/8/2020	0	1,076	0	1,076
4/9/2020	0	1,071	0	1,071
4/10/2020	0	1,078	0	1,078
4/11/2020	0	1,085	0	1,085
4/12/2020	0	1,064	0	1,064
4/13/2020	0	1,010	0	1,010
4/14/2020	0	1,056	0	1,057
4/15/2020	0	1,057	0	1,057
4/16/2020	0	1,064	0	1,064
4/17/2020	0	1,062	0	1,062
4/18/2020	0	1,075	0	1,075
4/19/2020	0	1,087	0	1,087
4/20/2020	0	1,101	0	1,102
4/21/2020	178	901	0	1,079
4/22/2020	0	1,087	0	1,087
4/23/2020	0	1,069	0	1,069
4/24/2020	0	1,084	0	1,084
4/25/2020	0	1,052	0	1,052
4/26/2020	0	1,068	0	1,068
4/27/2020	0	1,088	0	1,088
4/28/2020	0	1,124	0	1,124
4/29/2020	0	1,085	0	1,085
4/30/2020	152	942	0	1,095
AVERAGE	11	1,035	0	1,046
<p>* Flows normalized to **Blower Outlet Flowmeter - EPA Method 2 measurement verified</p> <p>*** On 3/18/2016, the Bridgeton Landfill began separating the North Quarry gas to the Auxiliary Flare.</p> <p>On 10/8/19, the Bridgeton Landfill combined the North Quarry gas and the South Quarry Gas to the Main Flare</p>				

ATTACHMENT A-2

FLOW DATA GRAPHS

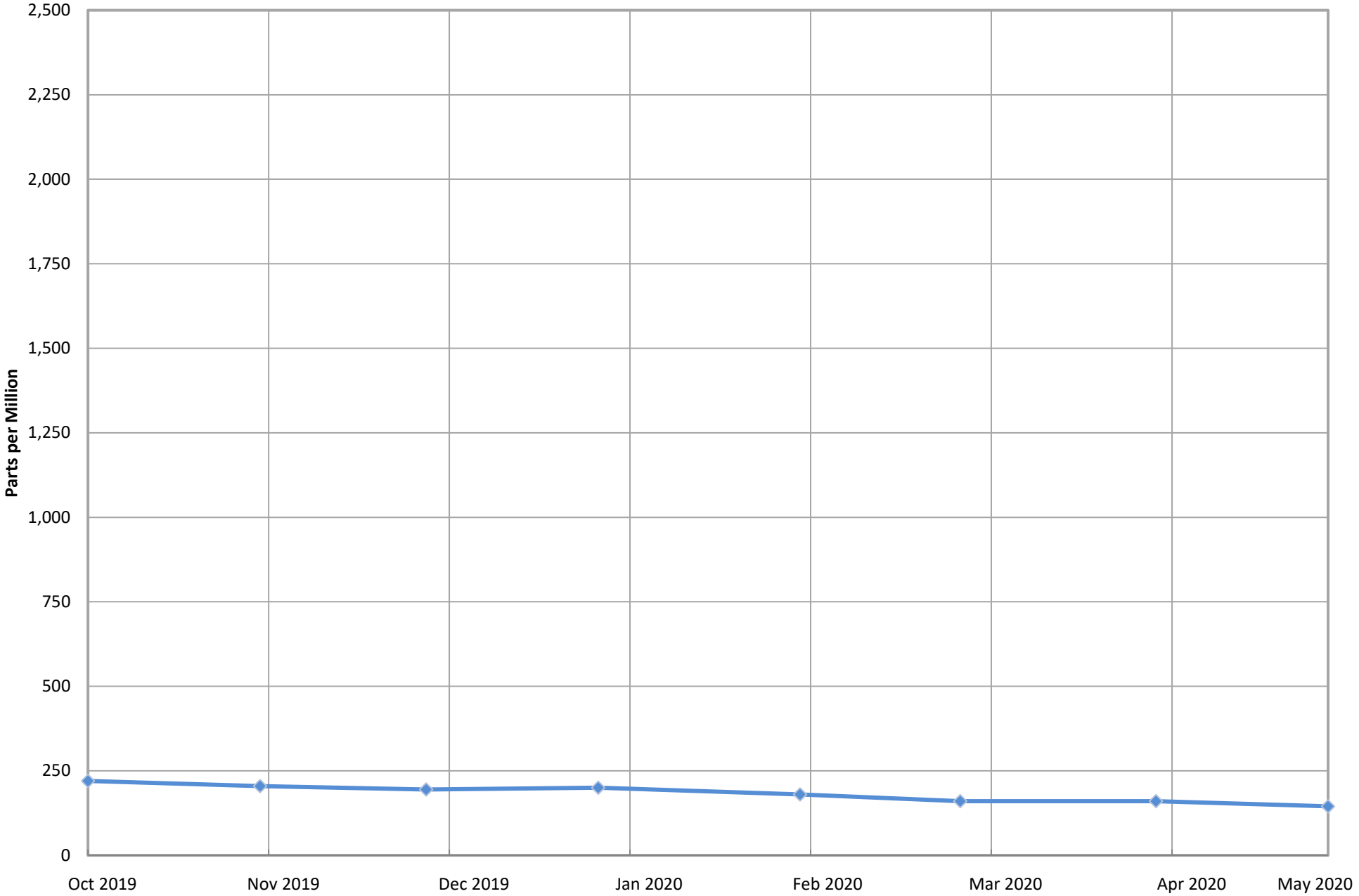
Combined Inlet Gas and Temperature*



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

Combined Inlet Carbon Monoxide*

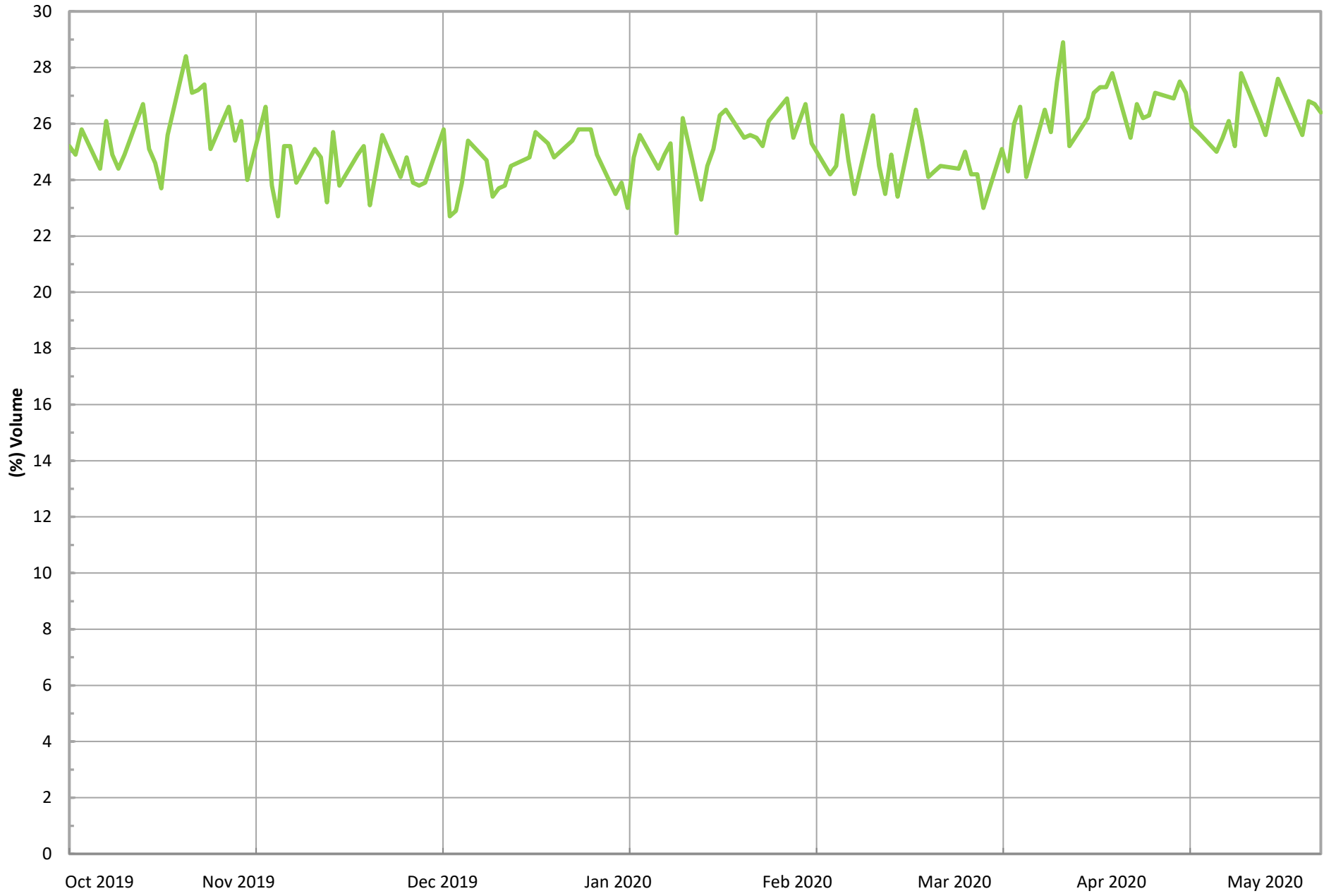


—◆— Inlet Carbon Monoxide*

*Data collected from Laboratory Reports.



Combined Inlet Methane (Field Data)*

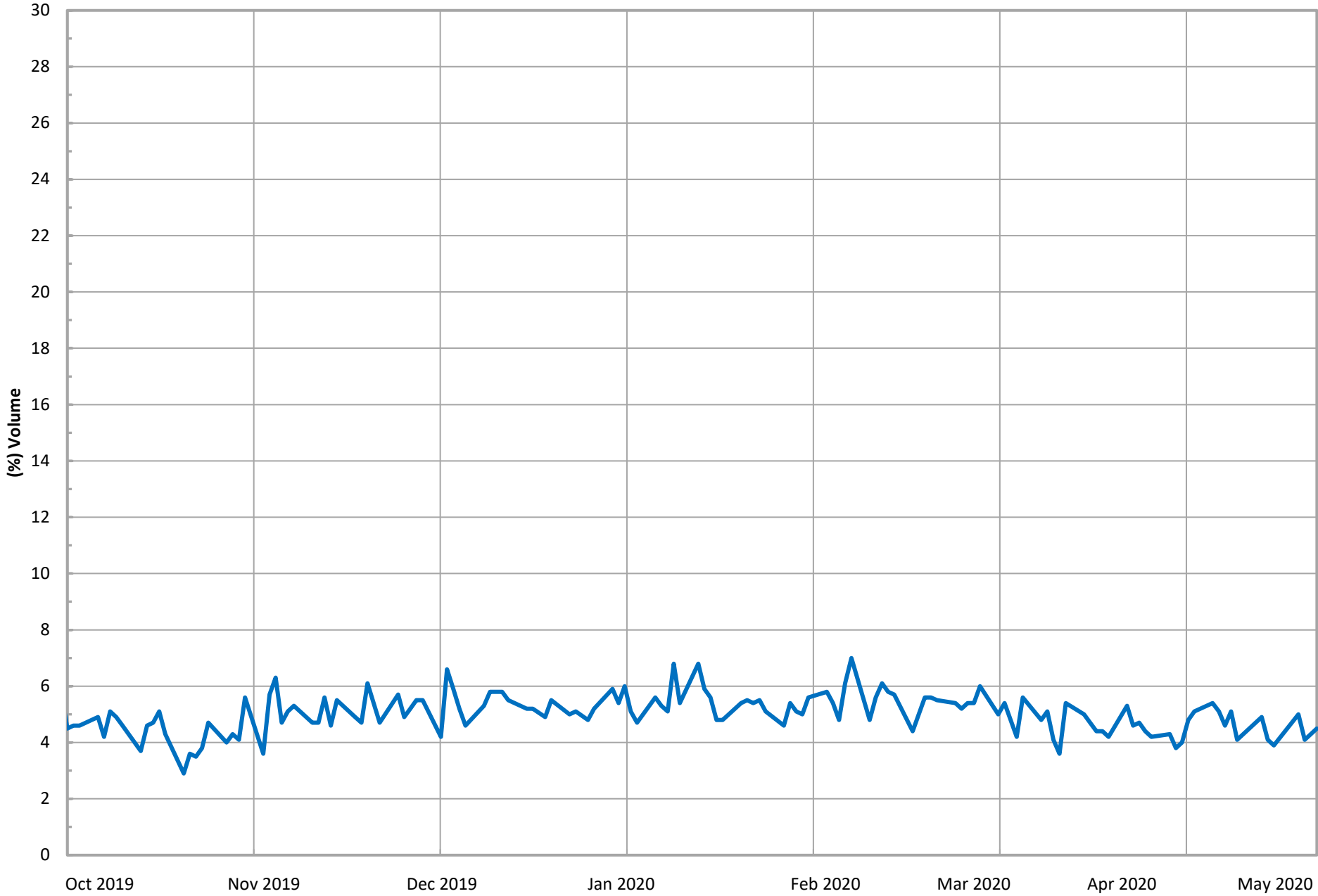


*Gas data collected from field monitoring data.

— Combined Inlet Methane (Field Data)*

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Combined Inlet Oxygen (Field Data)*

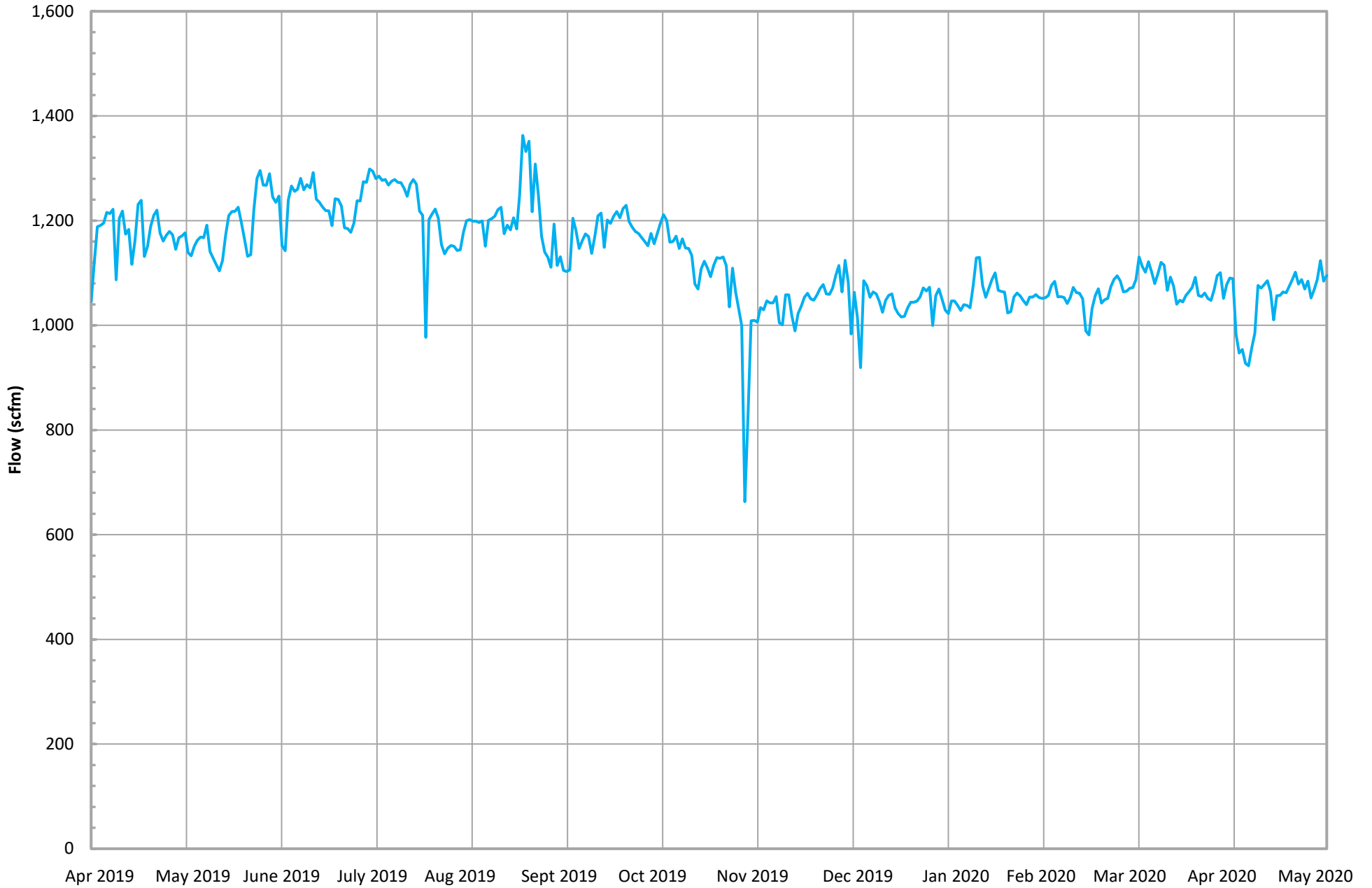


*Gas data collected from field monitoring data

— Combined Inlet Oxygen (Field Data)*

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Total Combined Flow (scfm)*



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

— Total Combined Flow (scfm)*

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ATTACHMENT B

WELL CONDITON/STATUS REPORT

April 2020

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

April 2020

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

April 2020

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

April 2020

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

ATTACHMENT C

LABORATORY DATA

ATTACHMENT C-1

LABORATORY ANALYSES SUMMARY

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
North Quarry								
GEW-002	12/11/2019	52	39	ND	8.5	ND	ND	
GEW-002	1/16/2020	53	38	ND	7.9	ND	ND	
GEW-002	2/17/2020	50	36	ND	14	ND	ND	
GEW-002	3/10/2020	51	41	1.6	6.9	ND	ND	
GEW-002	3/24/2020	52	44	ND	3.5	ND	ND	
GEW-002	4/7/2020	53	43	ND	3.9	ND	ND	
GEW-02S	12/10/2019	53	33	1.5	13	ND	ND	
GEW-02S	12/23/2019	53	32	2.2	13	ND	ND	
GEW-02S	1/15/2020	60	34	ND	5.3	ND	ND	
GEW-02S	2/17/2020	58	33	1.6	7.5	ND	ND	
GEW-02S	2/27/2020	57	33	ND	8.5	ND	ND	
GEW-02S	3/10/2020	56	36	ND	7.3	ND	ND	
GEW-02S	4/7/2020	54	34	2.3	9.6	ND	ND	
GEW-02S	4/28/2020	54	34	2.3	9.1	ND	ND	
GEW-003	12/11/2019	53	41	ND	5.1	ND	ND	
GEW-003	1/16/2020	55	40	ND	4.9	ND	ND	
GEW-003	2/18/2020	52	38	ND	8.5	ND	ND	
GEW-003	3/10/2020	52	42	ND	5.4	0.028	ND	
GEW-003	4/8/2020	51	42	ND	6.2	ND	ND	
GEW-004	12/11/2019	54	40	ND	5.2	0.036	ND	
GEW-004	1/16/2020	52	38	ND	9.7	0.049	ND	
GEW-004	2/18/2020	53	38	ND	9.0	0.037	ND	
GEW-004	3/10/2020	40	32	5.3	23	ND	ND	
GEW-004	3/24/2020	50	42	ND	7.3	ND	ND	
GEW-004	4/7/2020	51	41	ND	6.8	ND	ND	
GEW-005	12/11/2019	55	37	ND	7.7	ND	ND	
GEW-005	1/16/2020	48	34	ND	17	ND	ND	
GEW-005	2/18/2020	47	33	ND	19	ND	ND	
GEW-005	3/10/2020	49	37	ND	14	ND	ND	
GEW-005	4/8/2020	52	38	ND	9.1	ND	ND	
GEW-006	12/11/2019	55	37	ND	7.5	ND	ND	
GEW-006	1/16/2020	54	36	ND	9.1	ND	ND	
GEW-006	2/18/2020	53	35	ND	11	ND	ND	
GEW-006	3/10/2020	53	38	ND	8.9	ND	ND	
GEW-006	4/8/2020	54	39	ND	6.8	ND	ND	
GEW-007	12/9/2019	55	40	ND	3.6	ND	ND	
GEW-007	1/15/2020	56	39	ND	4.5	ND	ND	
GEW-007	2/17/2020	55	40	ND	4.3	ND	ND	
GEW-007	3/9/2020	54	41	ND	4.4	ND	ND	
GEW-007	4/6/2020	52	40	ND	6.9	ND	ND	
GEW-008	12/9/2019	49	40	2.1	8.0	1.4	ND	
GEW-008	12/23/2019	52	42	ND	3.5	1.2	ND	
GEW-008	1/15/2020	54	41	ND	3.1	1.1	48	
GEW-008	1/31/2020	54	41	ND	3.4	1.2	ND	
GEW-008	2/17/2020	54	41	ND	2.8	1.3	ND	
GEW-008	3/9/2020	52	43	ND	3.3	1.1	ND	
GEW-008	4/6/2020	51	43	ND	3.6	1.2	ND	
GEW-009	12/9/2009	50	41	ND	7.3	0.68	ND	
GEW-009	1/15/2020	50	39	ND	9.3	0.63	ND	
GEW-009	2/17/2020	52	40	ND	6.7	0.77	ND	
GEW-009	3/9/2020	48	40	ND	9.4	0.67	ND	
GEW-009	4/7/2020	49	42	ND	7.6	0.62	ND	
GEW-040	12/9/2019	58	35	ND	6.9	ND	ND	
GEW-040	1/15/2020	61	34	ND	4.7	ND	ND	
GEW-040	2/17/2020	57	32	ND	10.0	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-040	3/9/2020	51	33	ND	15	ND	ND	
GEW-040	4/7/2020	51	33	ND	14	ND	ND	
GEW-041R	12/10/2019	53	35	ND	12	ND	ND	
GEW-041R	1/15/2020	49	32	1.7	17	ND	ND	
GEW-041R	1/31/2020	54	33	ND	12	ND	ND	
GEW-041R	2/17/2020	53	33	ND	12	ND	ND	
GEW-041R	3/9/2020	49	35	ND	15	ND	ND	
GEW-041R	4/7/2020	51	35	ND	13	ND	ND	
GEW-042R	12/10/2019	53	36	1.5	9.1	ND	ND	
GEW-042R	12/23/2019	55	38	ND	5.4	ND	ND	
GEW-042R	1/15/2020	53	36	ND	9.0	ND	ND	
GEW-042R	2/17/2020	56	37	ND	6.5	ND	ND	
GEW-042R	3/10/2020	50	36	2.2	12	ND	ND	
GEW-042R	3/24/2020	52	40	ND	7.4	ND	ND	
GEW-042R	4/7/2020	53	39	ND	7.1	ND	ND	
GEW-043R	12/10/2019	55	40	ND	3.8	0.13	ND	
GEW-043R	1/15/2020	55	40	ND	4.9	ND	ND	
GEW-043R	2/17/2020	55	39	ND	5.6	0.12	ND	
GEW-043R	3/10/2020	50	40	ND	8.8	0.084	ND	
GEW-043R	4/7/2020	51	41	ND	6.8	0.13	ND	
GEW-044	12/10/2019	45	34	ND	20	ND	ND	
GEW-044	1/15/2020	44	32	ND	23	ND	ND	
GEW-044	2/17/2020	46	31	ND	21	ND	ND	
GEW-044	3/11/2020	47	36	ND	16	ND	ND	
GEW-044	4/7/2020	50	37	ND	12	ND	ND	
GEW-045R	12/10/2019	57	39	ND	3.3	ND	ND	
GEW-045R	1/15/2020	56	38	ND	4.8	ND	ND	
GEW-045R	2/17/2020	55	37	ND	6.8	ND	ND	
GEW-045R	3/10/2020	53	40	ND	6.2	ND	ND	
GEW-045R	4/7/2020	52	39	ND	7.9	ND	ND	
GEW-046R	12/10/2019	55	39	ND	4.8	0.047	ND	
GEW-046R	1/15/2020	54	37	ND	8.2	ND	ND	
GEW-046R	2/17/2020	52	37	ND	9.9	0.054	ND	
GEW-046R	3/10/2020	51	39	ND	9.0	0.044	ND	
GEW-046R	4/7/2020	49	38	ND	11	ND	ND	
GEW-047R	12/11/2019	54	40	ND	5.7	ND	ND	
GEW-047R	1/16/2020	49	37	ND	14	ND	ND	
GEW-047R	2/18/2020	45	33	2.5	20	ND	ND	See Note 3
GEW-047R	2/27/2020	49	36	ND	13	0.035	ND	
GEW-047R	3/10/2020	48	39	ND	13	ND	ND	
GEW-047R	4/8/2020	48	40	ND	12	ND	ND	
GEW-048	12/11/2019	56	38	ND	5.1	ND	ND	
GEW-048	1/16/2020	55	38	ND	6.4	ND	ND	
GEW-048	2/18/2020	54	37	ND	8.2	ND	ND	
GEW-048	3/10/2020	52	40	ND	7.4	ND	ND	
GEW-048	4/8/2020	52	40	ND	7.0	ND	ND	
GEW-049	12/10/2019	48	36	ND	15	ND	ND	
GEW-049	1/15/2020	50	35	ND	14	ND	ND	
GEW-049	2/17/2020	53	37	ND	8.7	ND	ND	
GEW-049	3/10/2020	42	34	ND	23	ND	ND	
GEW-049	4/7/2020	52	42	ND	5.5	ND	ND	
GEW-050	12/9/2019	55	38	ND	6.4	ND	ND	
GEW-050	1/15/2020	52	36	ND	11	0.44	ND	
GEW-050	2/17/2020	54	36	ND	9.5	ND	ND	
GEW-050	3/9/2020	51	38	ND	9.7	ND	ND	
GEW-050	4/7/2020	52	38	ND	8.6	ND	ND	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
(%)								
GEW-051	12/9/2019	54	41	ND	ND	1.1	ND	
GEW-051	1/15/2020	51	37	2.4	9.4	0.71	30	
GEW-051	1/31/2020	55	40	ND	4.1	0.88	ND	
GEW-051	2/17/2020	54	39	ND	5.0	0.85	ND	
GEW-051	3/9/2020	49	39	2.0	9.6	0.71	ND	
GEW-051	3/24/2020	43	36	4.2	17	0.74	ND	See Note 3
GEW-051	4/7/2020	52	42	ND	4.7	0.87	ND	
GEW-052	12/9/2019	50	38	ND	11	ND	ND	
GEW-052	1/15/2020	54	39	1.6	6.0	ND	ND	
GEW-052	1/31/2020	54	38	ND	6.3	ND	ND	
GEW-052	2/17/2020	51	37	ND	11	ND	ND	
GEW-052	3/9/2020	50	40	ND	9.5	ND	ND	
GEW-052	4/7/2020	48	38	ND	13	ND	ND	
GEW-053	12/9/2019	50	43	ND	ND	3.9	63	
GEW-053	1/15/2020	50	41	ND	4.7	3.3	66	
GEW-053	2/17/2020	50	41	ND	4.3	3.7	65	
GEW-053	3/9/2020	48	43	ND	4.8	3.3	58	
GEW-053	4/7/2020	48	43	ND	4.7	3.2	54	
GEW-054	12/9/2019	51	41	ND	4.9	1.7	ND	
GEW-054	1/15/2020	53	42	ND	ND	1.6	ND	
GEW-054	2/17/2020	53	41	ND	3.3	1.7	ND	
GEW-054	3/9/2020	51	43	ND	4.0	1.5	ND	
GEW-054	4/7/2020	51	43	ND	3.4	1.5	ND	
GEW-055	12/9/2019	52	42	ND	3.7	1.4	ND	
GEW-055	1/15/2020	52	41	ND	4.6	1.2	ND	
GEW-055	2/17/2020	52	40	ND	5.5	1.4	ND	
GEW-055	3/9/2020	49	42	ND	7.2	1.2	ND	
GEW-055	4/7/2020	49	42	ND	6.7	1.2	ND	
Flare Station ²	12/5/2019	24.5	36.0	5.3	27.5	6.2	195	See Note 9
Flare Station ²	1/3/2020	25.0	36.0	5.2	27.5	5.9	200	See Note 9
Flare Station ²	2/6/2020	24.5	33.0	6.4	30.0	5.8	180	See Note 9
Flare Station ²	3/4/2020	23.5	38.0	5.3	28.0	5.1	160	See Note 9
Flare Station ²	4/6/2020	26.0	37.5	4.6	26.5	5.2	160	See Note 9

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

ND = Analyte not detected in sample.

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

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(ppm)	
South Quarry								
GEW-010	12/5/2019	54	41	ND	3.6	0.18	ND	
GEW-010	1/3/2020	54	40	ND	5.0	0.14	ND	
GEW-010	2/13/2020	56	41	ND	ND	0.13	ND	
GEW-010	3/11/2020	53	43	ND	ND	0.096	ND	
GEW-010	4/8/2020	53	43	ND	ND	0.096	ND	
GEW-013A	1/16/2020	9.5	61	ND	ND	25	860	
GEW-013A	4/7/2020	13	60	ND	ND	22	680	
GEW-015	1/16/2020	26	46	ND	8.4	18	610	
GEW-015	4/9/2020	22	49	ND	11	17	530	
GEW-016R	1/16/2020	9.2	54	ND	8.1	27	880	
GEW-016R	4/9/2020	8.2	58	ND	6.6	26	780	
GEW-018B	1/21/2020	7.1	33	4.4	37	18	670	
GEW-018B	4/13/2020	6.2	44	2.5	23	24	630	
GEW-019A	1/21/2020	1.8	57	3.7	12	25	1,200	
GEW-019A	4/10/2020	0.66	55	5.5	19	18	870	See Note 4
GEW-039	12/9/2019	28	32	2.8	37	ND	ND	
GEW-039	1/14/2020	30	31	2.7	36	ND	ND	
GEW-039	2/17/2020	36	32	2.2	29	ND	ND	
GEW-039	3/11/2020	31	33	1.8	34	ND	ND	
GEW-039	4/9/2020	22	30	3.1	44	ND	ND	
GEW-056R	12/5/2019	41	40	ND	15	3.2	55	
GEW-056R	1/3/2020	44	39	ND	13	3.3	73	
GEW-056R	2/12/2020	46	42	ND	4.8	6.1	90	
GEW-056R	3/11/2020	43	44	ND	7.6	3.8	72	
GEW-056R	4/8/2020	44	45	ND	6.2	3.6	67	
GEW-057B	1/13/2020	5.2	52	ND	2.8	38	870	
GEW-057B	4/9/2020	5.0	55	ND	3.0	34	600	
GEW-058A	1/10/2020	0.52	38	3.9	23	34	1,500	
GEW-058A	4/9/2020	7.7	32	3.5	42	14	400	
GEW-059R	1/9/2020	20	38	ND	19	22	640	
GEW-059R	4/8/2020	13	40	ND	22	23	520	
GEW-067A	1/16/2020	7.8	54	ND	4.2	33	670	
GEW-067A	4/6/2020	6.0	56	ND	ND	31	570	
GEW-068A	1/14/2020	1.0	54	ND	ND	38	1,400	
GEW-068A	4/9/2020	13	52	ND	6.1	27	920	
GEW-078R	1/20/2020	8.0	25	1.9	53	12	470	
GEW-078R	4/10/2020	8.6	27	1.6	51	11	400	
GEW-082R	1/20/2020	7.6	32	1.4	39	20	680	
GEW-082R	4/10/2020	7.3	34	ND	40	17	550	
GEW-086	1/16/2020	7.1	23	9.5	48	12	300	See Note 4
GEW-086	4/6/2020	6.1	52	ND	ND	36	910	
GEW-087	1/16/2020	10	38	5.6	32	13	360	See Note 4
GEW-087	4/9/2020	10	30	5.6	52	2.8	80	See Note 4
GEW-088	1/16/2020	1.9	40	3.3	19	35	1,100	
GEW-088	4/7/2020	1.7	45	ND	15	35	1,000	
GEW-090	1/16/2020	18	37	ND	26	17	420	
GEW-090	4/6/2020	20	42	ND	18	19	380	
GEW-091	12/9/2019	3.0	51	ND	4.0	39	320	
GEW-091	1/3/2020	2.8	53	ND	3.8	37	400	
GEW-091	2/17/2020	3.6	51	ND	ND	41	390	
GEW-091	3/11/2020	2.3	57	ND	ND	35	380	
GEW-091	4/8/2020	6.0	49	ND	5.4	36	230	
GEW-100	1/14/2020	9.7	51	2.9	9.9	26	740	
GEW-100	4/13/2020	11	64	ND	ND	22	540	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-101	1/14/2020	47	49	ND	3.0	ND	ND	
GEW-101	4/9/2020	38	60	ND	ND	ND	ND	
GEW-102	1/13/2020	21	36	6.0	20	16	110	See Note 4
GEW-102	4/9/2020	25	50	ND	ND	21	120	
GEW-104	1/13/2020	22	38	ND	28	10	270	
GEW-104	4/9/2020	24	40	ND	26	8.4	170	
GEW-105	1/10/2020	35	44	ND	6.1	14	440	
GEW-105	4/9/2020	38	45	ND	4.9	11	280	
GEW-106	1/10/2020	14	46	ND	18	20	620	
GEW-106	4/9/2020	13	50	ND	12	23	540	
GEW-107	1/9/2020	19	49	2.5	8.6	21	770	
GEW-107	4/8/2020	26	52	ND	ND	18	570	
GEW-108	12/9/2019	24	50	ND	ND	22	490	
GEW-108	1/14/2020	33	46	ND	3.8	16	380	
GEW-108	2/17/2020	35	41	2.0	6.7	15	310	
GEW-108	3/11/2020	29	45	2.5	8.8	15	310	
GEW-108	4/9/2020	37	48	ND	3.8	10	200	
GEW-109	12/9/2019	39	39	2.1	19	0.77	ND	
GEW-109	1/14/2020	39	37	2.4	21	0.89	ND	
GEW-109	2/17/2020	43	42	3.2	11	ND	ND	
GEW-109	3/11/2020	43	43	ND	11	0.57	ND	
GEW-109	4/9/2020	41	42	2.1	15	0.41	ND	
GEW-110	12/5/2019	31	35	3.5	26	3.5	74	
GEW-110	1/3/2020	26	36	6.2	22	8.8	190	See Note 4
GEW-110	2/13/2020	26	33	7.5	26	8.1	140	See Note 4
GEW-110	3/11/2020	34	44	1.7	13	6.8	120	
GEW-110	4/8/2020	37	48	ND	4.9	8.9	150	
GEW-113	1/16/2020	10	54	1.7	13	21	910	
GEW-113	4/9/2020	9.7	61	ND	6.1	22	870	
GEW-116	1/21/2020	18	43	4.7	28	5.7	430	
GEW-116	4/8/2020	31	64	ND	ND	0.91	48	
GEW-117	1/21/2020	44	45	2.2	7.8	0.61	66	
GEW-117	4/8/2020	33	58	ND	5.7	1.9	160	
GEW-118	1/21/2020	3.1	41	ND	29	26	1,300	
GEW-118	4/10/2020	1.8	58	ND	3.2	34	640	
GEW-120	1/21/2020	35	35	3.5	26	0.12	52	
GEW-120	4/13/2020	48	49	ND	ND	0.17	ND	
GEW-121	1/21/2020	29	46	ND	17	6.5	240	
GEW-121	4/13/2020	33	55	ND	3.9	6.3	210	
GEW-122	1/20/2020	32	33	ND	26	7.4	330	
GEW-122	4/13/2020	38	37	ND	18	6.9	260	
GEW-123	1/21/2020	26	51	ND	17	4.0	590	
GEW-123	4/13/2020	29	59	ND	9.6	1.8	250	
GEW-124	1/20/2020	41	32	6.2	21	ND	ND	See Note 3
GEW-124	4/13/2020	44	37	4.2	15	ND	ND	
GEW-125	1/10/2020	35	61	ND	ND	1.1	170	
GEW-125	4/13/2020	35	56	ND	6.1	2.1	280	
GEW-126	1/15/2020	16	45	1.8	24	14	1,000	
GEW-126	4/14/2020	20	50	2.0	16	12	730	
GEW-127	1/13/2020	13	56	ND	6.2	23	1,800	
GEW-127	4/14/2020	12	45	4.5	26	12	810	
GEW-129	1/13/2020	32	52	ND	11	3.8	410	
GEW-129	4/14/2020	35	56	ND	4.8	3.3	280	
GEW-130	1/10/2020	21	43	ND	17	17	1,200	
GEW-130	4/14/2020	22	45	ND	17	14	930	
GEW-131	1/10/2020	44	42	ND	ND	11	540	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-131	4/14/2020	39	46	ND	ND	11	700	
GEW-132	1/21/2020	11	24	4.0	52	8.7	430	
GEW-132	4/10/2020	15	31	2.7	41	9.9	470	
GEW-133	1/21/2020	13	31	2.1	51	2.1	540	
GEW-133	4/10/2020	1.2	65	ND	3.9	27	1,300	
GEW-134	1/21/2020	5.9	28	4.3	55	6.4	250	
GEW-134	4/10/2020	8.0	35	4.4	44	7.9	280	
GEW-135	1/20/2020	2.4	31	4.6	48	14	560	
GEW-135	4/10/2020	3.5	50	1.7	19	26	690	
GEW-137	1/20/2020	38	40	ND	21	ND	ND	
GEW-137	4/9/2020	36	42	ND	21	ND	ND	
GEW-138	1/20/2020	7.9	16	6.2	66	3.7	220	See Note 4
GEW-139	1/14/2020	5.5	53	ND	3.5	36	1,900	
GEW-139	4/13/2020	17	40	3.6	22	17	760	
GEW-140	1/14/2020	23	38	ND	23	15	380	
GEW-140	4/13/2020	28	43	ND	13	14	370	
GEW-144	4/9/2020	36	34	6.8	24	0.050	ND	See Note 3
GEW-145	1/13/2020	23	48	ND	3.5	24	400	
GEW-145	4/9/2020	29	48	ND	ND	19	250	
GEW-147	1/16/2020	17	40	4.2	23	15	480	
GEW-147	4/9/2020	14	45	3.1	24	14	440	
GEW-148	1/16/2020	16	52	ND	ND	27	1,400	
GEW-148	4/9/2020	17	53	ND	5.3	23	1,100	
GEW-149	1/16/2020	7.0	19	2.2	71	0.81	61	
GEW-149	4/6/2020	7.2	24	1.7	65	1.4	45	
GEW-150	1/10/2020	32	45	ND	5.2	15	490	
GEW-150	4/9/2020	21	40	4.5	21	12	330	
GEW-151	1/16/2020	6.1	29	5.3	41	18	500	See Note 4
GEW-151	4/7/2020	5.3	30	6.7	41	16	390	See Note 4
GEW-152	1/13/2020	19	48	ND	10	22	760	
GEW-152	4/8/2020	18	50	1.7	12	18	430	
GEW-153	1/9/2020	26	28	2.1	41	2.7	120	
GEW-153	4/8/2020	21	30	ND	45	2.7	180	
GEW-156	1/9/2020	22	31	6.7	31	9.3	250	See Note 3
GEW-156	4/9/2020	30	44	ND	15	10	250	
GEW-157	1/10/2020	21	28	9.0	31	10	240	See Note 3
GEW-157	4/9/2020	34	41	2.8	10	12	220	
GEW-158	1/10/2020	23	44	ND	17	15	440	
GEW-158	4/9/2020	25	46	ND	16	12	320	
GEW-159	12/9/2019	29	32	5.6	31	1.5	36	See Note 4
GEW-159	1/20/2020	2.0	5.6	19	71	3.1	240	See Note 4
GEW-160	12/9/2019	15	31	5.8	34	14	310	See Note 4
GEW-160	1/3/2020	17	39	2.4	22	18	570	
GEW-160	2/17/2020	24	39	ND	19	17	400	
GEW-160	3/11/2020	17	35	4.6	30	14	380	
GEW-160	4/8/2020	21	38	ND	24	15	340	
GEW-161	12/5/2019	1.8	51	1.6	5.9	39	1,300	
GEW-161	1/3/2020	2.1	51	2.6	9.2	35	1,300	
GEW-161	2/13/2020	5.4	54	ND	3.6	36	1,300	
GEW-161	3/11/2020	2.5	51	ND	14	31	1,100	
GEW-161	4/8/2020	8.9	53	ND	5.5	30	990	
GEW-162	12/5/2019	13	62	ND	12	12	500	
GEW-162	1/3/2020	15	64	ND	6.6	13	620	
GEW-162	2/13/2020	14	65	ND	6.0	15	650	
GEW-162	3/11/2020	1.1	14	2.8	81	1.5	1,100	
GEW-162	4/8/2020	12	66	ND	6.8	13	550	
GEW-163	1/21/2020	30	55	ND	6.1	7.6	210	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-163	4/13/2020	27	56	ND	12	4.1	130	
GEW-164	1/20/2020	28	44	1.7	26	0.40	140	
GEW-164	4/13/2020	31	49	ND	18	0.072	ND	
GEW-165	1/20/2020	12	31	9.0	40	6.7	320	See Note 4
GEW-165	4/13/2020	17	45	4.9	25	7.9	290	
GEW-166	1/20/2020	5.5	55	ND	ND	36	2,500	
GEW-166	4/13/2020	5.5	55	ND	4.1	33	2,200	
GEW-167	1/20/2020	11	43	ND	12	32	1,600	
GEW-167	4/8/2020	11	43	3.1	15	27	1,100	
GEW-168	1/10/2020	30	51	ND	14	3.9	230	
GEW-168	4/14/2020	28	41	5.7	22	3.1	100	See Note 4
GEW-169	1/13/2020	9.4	42	4.4	28	16	860	
GEW-169	4/14/2020	17	47	2.0	23	11	570	
GEW-170	1/13/2020	12	38	6.1	29	15	1,000	See Note 4
GEW-170	4/13/2020	12	43	4.3	25	15	860	
GEW-171	1/14/2020	43	32	4.7	16	3.7	150	
GEW-171	4/13/2020	17	52	4.0	15	11	500	
GEW-172	1/14/2020	18	43	3.5	14	21	1,100	
GEW-172	4/13/2020	19	41	3.8	19	16	730	
GEW-174	1/13/2020	13	36	2.1	34	15	490	
GEW-174	4/13/2020	13	34	ND	48	4.2	74	
GEW-175	1/10/2020	25	33	5.5	33	3.4	150	See Note 4
GEW-175	4/9/2020	27	35	5.8	31	1.7	67	See Note 4
GEW-176	1/10/2020	40	33	3.6	22	1.2	ND	
GEW-177	1/13/2020	11	46	1.8	23	17	1,600	
GEW-177	4/14/2020	11	55	ND	14	19	1,500	
GEW-178	1/13/2020	24	26	7.2	43	0.035	ND	See Note 4
GEW-178	4/9/2020	35	44	3.6	17	ND	ND	
GEW-179	1/13/2020	42	55	ND	ND	ND	ND	
GEW-179	4/9/2020	44	51	ND	4.6	ND	ND	
GEW-180	1/14/2020	32	60	1.7	6.0	0.19	110	
GEW-180	4/9/2020	31	62	ND	4.9	ND	ND	
GEW-181	1/15/2020	25	71	ND	ND	ND	ND	
GEW-181	4/9/2020	24	72	ND	3.5	ND	ND	
GEW-185	1/21/2020	35	47	ND	16	ND	ND	
GEW-185	4/13/2020	39	58	ND	ND	ND	ND	
GEW-186	1/13/2020	21	25	9.8	43	1.2	110	See Note 4
GEW-186	4/13/2020	35	42	2.8	18	0.97	84	
GEW-187	12/9/2019	38	54	ND	ND	4.1	140	
GEW-187	1/14/2020	40	53	ND	ND	3.3	130	
GEW-187	2/17/2020	18	23	13	44	0.92	51	See Note 3
GEW-187	3/11/2020	38	50	1.9	6.7	2.8	100	
GEW-187	4/9/2020	40	52	ND	5.0	2.0	79	
GEW-217	1/13/2020	25	47	ND	2.9	23	480	
GEW-217	4/9/2020	10	55	ND	4.4	28	590	
GEW-218	1/13/2020	16	33	4.9	37	9.1	330	
GEW-218	4/9/2020	20	41	3.3	25	10	300	
GEW-219	1/13/2020	3.5	19	13	51	13	450	See Note 4
GEW-220	1/13/2020	26	46	2.0	14	12	560	
GEW-220	4/8/2020	31	50	ND	4.4	13	420	
GEW-221	1/14/2020	25	45	ND	21	7.3	150	
GEW-221	4/9/2020	25	57	ND	9.7	6.4	160	
GEW-222	1/14/2020	31	45	ND	8.7	14	390	
GEW-222	4/13/2020	33	42	2.5	13	8.7	290	
GEW-223	1/14/2020	25	58	ND	3.2	13	790	
GEW-223	4/13/2020	31	64	ND	ND	2.3	230	
GEW-224	1/13/2020	25	58	ND	ND	14	1,100	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GEW-224	4/13/2020	31	59	ND	ND	7.3	540	
GEW-225	1/14/2020	9.1	53	ND	4.1	32	2,700	
GEW-225	4/13/2020	17	51	1.8	9.4	21	1,400	
GEW-226	1/14/2020	9.0	37	ND	32	20	1,100	
GEW-226	4/13/2020	12	36	ND	35	15	690	
GEW-227	1/20/2020	1.8	36	5.4	32	25	570	See Note 4
GEW-227	4/10/2020	1.6	39	2.7	36	20	470	
GEW-228	1/20/2020	6.8	33	3.6	26	30	490	
GEW-228	4/9/2020	3.8	16	11	65	4.2	59	See Note 4
GEW-229	1/20/2020	2.0	11	11	75	0.86	30	See Note 4
GEW-229	4/6/2020	13	30	ND	46	9.7	270	
GEW-230	1/16/2020	0.57	9.4	15	72	3.2	200	See Note 4
GEW-230	4/6/2020	3.6	47	2.0	17	29	620	
GEW-231	1/13/2020	11	23	13	51	2.7	260	See Note 4
GEW-232	1/16/2020	18	48	2.9	14	16	720	
GEW-232	4/9/2020	25	60	ND	7.0	6.3	240	
GEW-233	1/21/2020	6.9	40	ND	35	16	510	
GEW-233	4/10/2020	0.68	38	4.0	36	22	520	
GEW-234	1/16/2020	3.4	31	4.7	43	17	810	
GEW-234	4/10/2020	7.9	50	ND	12	27	1,100	
GEW-235	1/21/2020	24	49	ND	9.6	16	440	
GEW-235	4/13/2020	25	53	ND	8.1	12	320	
GEW-236	1/20/2020	2.8	38	4.1	17	37	470	
GEW-236	4/10/2020	2.9	41	4.1	20	31	320	
GEW-237	1/10/2020	24	34	5.9	32	4.2	150	See Note 4
GEW-237	4/8/2020	32	42	4.2	19	2.9	100	
GEW-238	1/16/2020	13	54	ND	14	18	730	
GEW-238	4/9/2020	5.3	64	ND	3.3	25	780	
GEW-239	1/16/2020	0.78	34	7.3	29	29	950	See Note 4
GEW-239	4/6/2020	1.2	55	ND	ND	38	1,100	
GEW-240	1/14/2020	8.5	23	5.6	52	10	460	See Note 4
GEW-240	4/13/2020	1.7	26	8.6	52	12	340	See Note 4
GIW-01	12/9/2019	12	58	2.0	7.7	20	660	
GIW-01	1/3/2020	12	53	3.6	13	18	790	
GIW-01	2/17/2020	19	51	3.2	11	16	550	
GIW-01	3/11/2020	25	61	ND	ND	10	370	
GIW-01	4/8/2020	26	59	ND	ND	11	330	
GIW-02	12/9/2019	1.7	32	7.2	48	11	560	See Note 4
GIW-02	1/15/2020	3.8	57	2.2	17	19	1,100	
GIW-02	2/17/2020	6.1	53	ND	22	17	870	
GIW-02	3/11/2020	8.3	50	2.5	28	11	500	
GIW-02	4/8/2020	8.8	65	ND	8.0	17	900	
GIW-03	12/9/2019	17	45	ND	23	12	400	
GIW-03	1/15/2020	19	45	ND	22	13	470	
GIW-03	2/17/2020	20	45	1.8	19	13	490	
GIW-03	3/11/2020	12	41	ND	36	9.9	470	
GIW-03	4/8/2020	21	49	ND	17	12	430	
GIW-04	12/9/2019	14	48	1.7	11	25	780	
GIW-04	1/15/2020	13	49	ND	8.4	28	1,000	
GIW-04	2/17/2020	17	46	1.7	7.1	27	930	
GIW-04	3/11/2020	17	49	ND	9.7	22	760	
GIW-04	4/8/2020	19	50	ND	7.8	22	710	
GIW-05	12/9/2019	0.26	0.52	22	77	0.22	ND	See Note 4
GIW-05	1/15/2020	0.12	1.0	23	76	ND	ND	See Note 4
GIW-05	2/17/2020	0.32	1.5	23	76	0.065	ND	See Note 4
GIW-05	3/11/2020	20	38	4.7	26	11	190	
GIW-05	4/8/2020	7.8	19	14	52	6.9	70	See Note 4
GIW-06	12/9/2019	29	36	1.6	30	3.4	37	

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂ /Argon	Nitrogen	Hydrogen	Carbon Monoxide	Comments
							(%)	
GIW-06	1/15/2020	34	39	ND	21	3.9	45	
GIW-06	2/17/2020	38	38	ND	17	5.9	45	
GIW-06	3/11/2020	37	40	ND	18	3.3	35	
GIW-06	4/8/2020	33	42	ND	20	3.8	35	
GIW-07	12/9/2019	49	41	1.9	7.2	ND	ND	
GIW-07	1/15/2020	54	42	ND	3.5	ND	ND	
GIW-07	2/17/2020	54	42	ND	3.2	ND	ND	
GIW-07	3/11/2020	49	39	2.0	9.6	ND	ND	
GIW-07	4/8/2020	48	46	ND	5.1	ND	ND	
GIW-08	12/9/2019	47	43	ND	8.9	ND	ND	
GIW-08	1/15/2020	48	43	ND	8.8	ND	ND	
GIW-08	2/17/2020	52	43	ND	4.3	ND	ND	
GIW-08	3/11/2020	46	46	ND	7.4	ND	ND	
GIW-08	4/8/2020	45	46	ND	7.6	ND	ND	
GIW-09	12/9/2019	14	32	2.2	42	8.6	78	
GIW-09	1/15/2020	21	35	1.6	35	7.8	86	
GIW-09	2/17/2020	26	39	3.3	17	15	200	
GIW-09	3/11/2020	24	43	ND	19	12	150	
GIW-09	4/8/2020	22	43	ND	21	13	150	
GIW-10	12/9/2019	17	31	ND	42	8.6	180	
GIW-10	1/15/2020	21	30	ND	39	8.4	210	
GIW-10	2/17/2020	27	32	1.6	30	8.6	150	
GIW-10	3/11/2020	25	34	ND	32	7.5	140	
GIW-10	4/8/2020	23	34	ND	34	7.5	130	
GIW-11	12/9/2019	19	31	2.1	44	3.3	260	
GIW-11	1/15/2020	22	29	2.5	43	2.9	310	
GIW-11	2/17/2020	27	33	1.5	35	3.4	230	
GIW-11	3/11/2020	26	35	1.6	35	2.8	210	
GIW-11	4/8/2020	25	35	ND	36	2.7	140	
GIW-12	12/9/2019	28	33	3.3	32	3.4	130	
GIW-12	1/15/2020	30	32	3.2	30	3.6	170	
GIW-12	2/17/2020	32	34	2.6	28	4.6	180	
GIW-12	3/11/2020	32	37	1.8	24	3.8	150	
GIW-12	4/8/2020	29	36	2.4	28	4.5	160	
GIW-13	12/9/2019	31	49	ND	7.1	12	190	
GIW-13	1/15/2020	41	45	ND	4.0	9.0	140	
GIW-13	2/17/2020	43	44	ND	4.1	7.8	100	
GIW-13	3/11/2020	35	48	ND	9.1	7.1	100	
GIW-13	4/8/2020	44	47	ND	3.7	4.6	80	

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



April 24, 2020

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



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

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

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

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: L041602-01/147

Enclosed are results for sample(s) received 4/16/20 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

Preliminary results were e-mailed to Mike Lambrich, Erin Fanning and Anthony Kimutis; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 4/23/20.

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

Sincerely,

A handwritten signature in blue ink, 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
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Fx: 626-964-5832

CHAIN OF CUSTODY RECORD

TURNAROUND TIME DELIVERABLES PAGE: 1 OF 17

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

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

BILLING **ANALYSIS REQUEST**

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

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				LAB INITIAL PRESERVE
	Cannister ID	Sample Start	Sample End												
1041602-01	01410	-20.3	-5	GEW 7	4/6/2020	15:34	C	LFG	NA	X					5
-02	01415	-20.6	-5	GEW 8	4/6/2020	15:45	C	LFG	NA	X					5
-03	01424	-20.7	-5	GEW 50	4/7/2020	8:47	C	LFG	NA	X					5
-04	01411	-20.5	-5	GEW 52	4/7/2020	8:56	C	LFG	NA	X					5
-05	01408	-20.4	-5	GEW 9	4/7/2020	9:09	C	LFG	NA	X					5
-06	01402	-20.7	-5	GEW 51	4/7/2020	9:21	C	LFG	NA	X					5
-07	01405	-20.5	-5	GEW 53	4/7/2020	9:38	C	LFG	NA	X					5
-08	01403	-20.6	-5	GEW 54	4/7/2020	9:48	C	LFG	NA	X					5
-09	01399	-20.6	-5	GEW 55	4/7/2020	10:36	C	LFG	NA	X					5
-10	01417	-20.5	-5	GEW 40	4/7/2020	10:47	C	LFG	NA	X					5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services	COMMENTS
SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 4/16/20 - 4/17/2020	
RELINQUISHED BY: [Signature] DATE/TIME: 4/15/2020 RECEIVED BY: [Signature] DATE/TIME: 4/16/20	
RELINQUISHED BY: FEDEX DATE/TIME: 4/16/20 RECEIVED BY: [Signature] DATE/TIME: 4/16/20 0934	
RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____	
METHOD OF TRANSPORT (circle one): Walk-In FedEx UPS Courier ATLI Other _____	



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CHAIN OF CUSTODY RECORD

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

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
	Cannister ID	Sample Start	Sample End												
LD41602-11	01419	-20.4	-5	GEW 41R	4/7/2020	10:58	C	LFG	NA	X					5
-12	01426	-20.4	-5	GEW 42R	4/7/2020	11:09	C	LFG	NA	X					5
-13	01422	-20.3	-5	GEW 43R	4/7/2020	11:22	C	LFG	NA	X					5
-14	01404	-20.4	-5	GEW 44	4/7/2020	13:26	C	LFG	NA	X					6
-15	01398	-20.3	-5	GEW 49	4/7/2020	13:38	C	LFG	NA	X					5.5
-16	01401	-20.4	-5	GEW 45R	4/7/2020	13:56	C	LFG	NA	X					6
-17	01418	-20.1	-5	GEW 46R	4/7/2020	14:08	C	LFG	NA	X					6
-18	01413	-20.4	-5	GEW 2S	4/7/2020	14:27	C	LFG	NA	X					6
-19	01407	-20.3	-5	GEW 2	4/7/2020	15:24	C	LFG	NA	X					6
-20	01409	-20.4	-5	GEW 4	4/7/2020	15:36	C	LFG	NA	X					6

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

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 4/7/2020

RELINQUISHED BY: <i>Anthony Kimutis</i> DATE/TIME: 4/15/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <i>FedEx</i> DATE/TIME: 4/16/20	RECEIVED BY: <i>Jimmy</i> DATE/TIME: 4/16/20 0934
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS



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CHAIN OF CUSTODY RECORD

TURNAROUND TIME DELIVERABLES PAGE: 3 OF 17

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

EDD
 EDF
 Level 3
 Level 4

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

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
L041602-21	01416	-20.4	-5	GEW 47R	4/8/2020	10:09	C	LFG	NA	X					6
-22	01412	-20.4	-5	GEW 3	4/8/2020	10:38	C	LFG	NA	X					6
-23	01423	-20.3	-5	GEW 5	4/8/2020	10:49	C	LFG	NA	X					6
-24	01425	-20.4	-5	GEW 48	4/8/2020	10:58	C	LFG	NA	X					6
-25	01414	-20.1	-5	GEW 6	4/8/2020	11:08	C	LFG	NA	X					6
-26	A7799	-20.1	-5	GEW 116	4/8/2020	13:37	C	LFG	NA	X					6
-27	3838	-19.8	-5	GEW 117	4/8/2020	13:48	C	LFG	NA	X					6
-28	A7818	-18.2	-5	GEW 167	4/8/2020	14:14	C	LFG	NA	X					6
-29	5313	-20.1	-5	GEW 220	4/8/2020	14:25	C	LFG	NA	X					6
-30	5813	-20	-5	GEW 237	4/8/2020	14:36	C	LFG	NA	X					6

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services

SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 4/8/2020

RELINQUISHED BY: [Signature] DATE/TIME: 4/15/2020

RECEIVED BY: [Signature] DATE/TIME: 4/16/20

RELINQUISHED BY: [Signature] DATE/TIME: 4/16/20

RECEIVED BY: [Signature] DATE/TIME: 4/16/20

RELINQUISHED BY: [Signature] DATE/TIME: 4/16/20

RECEIVED BY: [Signature] DATE/TIME: 4/16/20

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

COMMENTS



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CHAIN OF CUSTODY RECORD

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

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
L041602-31	A8064	-19.8	-5	GEW 153	4/8/2020	15:24	C	LFG	NA	X					6
-32	A7797	-20.1	-5	GEW 59R	4/8/2020	15:33	C	LFG	NA	X					6
-33	A7662	-19.9	-5	GEW 107	4/8/2020	15:44	C	LFG	NA	X					6
-34	A8090	-20.1	-5	GEW 152	4/8/2020	15:52	C	LFG	NA	X					40.5
-35	5817	-21.1	-5	GEW 58A	4/9/2020	8:50	C	LFG	NA	X					4
-36	A7804	-21.2	-5	GEW 106	4/9/2020	9:04	C	LFG	NA	X					4
-37	4655	-21.2	-5	GEW 158	4/9/2020	9:14	C	LFG	NA	X					3.5
-38	A7773	-20.8	-5	GEW 105	4/9/2020	9:25	C	LFG	NA	X					3.5
-39	A7776	-21	-5	GEW 175	4/9/2020	9:35	C	LFG	NA	X					4
-40	A7663	-20.9	-5	GEW 150	4/9/2020	10:11	C	LFG	NA	X					4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services
SAMPLED BY: Anthony Kimutis	COMPANY: Republic Services
RELINQUISHED BY: <u>Anthony Kimutis</u>	DATE/TIME: 4/8/20 - 4/9/2020
RELINQUISHED BY: <u>FedEx</u>	DATE/TIME: 4/15/2020
RELINQUISHED BY: _____	DATE/TIME: _____
RELINQUISHED BY: _____	DATE/TIME: _____
RELINQUISHED BY: _____	DATE/TIME: _____

COMMENTS

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



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CHAIN OF CUSTODY RECORD

TURNAROUND TIME

DELIVERABLES

PAGE: 5 OF 17

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

EDD
EDF
Level 3
Level 4

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

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

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

ANALYSIS REQUEST

D1946 + CO, H2									
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LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
	Cannister ID	Sample Start	Sample End												
L041602 -41	A7751	-21.1	-5	GEW 104	4/9/2020	10:21	C	LFG	NA	X					4
-42	5815	-21.2	-5	GEW 157	4/9/2020	10:32	C	LFG	NA	X					4
-43	A7772	-20.9	-5	GEW 57B	4/9/2020	10:42	C	LFG	NA	X					4
-44	5920	-20.9	-5	GEW 156	4/9/2020	11:01	C	LFG	NA	X					4
-45	A7820	-20.4	-5	GEW 217	4/9/2020	11:23	C	LFG	NA	X					4
-46	5274	-20.9	-5	GEW 178	4/9/2020	11:33	C	LFG	NA	X					4
-47	3440	-20.3	-5	GEW 179	4/9/2020	13:49	C	LFG	NA	X					4
-48	A7759	-20.8	-5	GEW 102	4/9/2020	14:00	C	LFG	NA	X					4
-49	5916	-20	-5	GEW 218	4/9/2020	14:22	C	LFG	NA	X					4
-50	A8078	-21	-5	GEW 145	4/9/2020	14:31	C	LFG	NA	X					4

AUTHORIZATION TO PERFORM WORK: Dave Penoyer COMPANY: Republic Services
SAMPLED BY: Anthony Kimutis COMPANY: Republic Services DATE/TIME: 4/9/2020
RELINQUISHED BY: [Signature] DATE/TIME: 4/15/2020 **RECEIVED BY:** [Signature] DATE/TIME: _____
RELINQUISHED BY: [Signature] DATE/TIME: 4/14/2020 **RECEIVED BY:** [Signature] DATE/TIME: 4/14/2020 0934
RELINQUISHED BY: _____ DATE/TIME: _____ **RECEIVED BY:** _____ DATE/TIME: _____

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

COMMENTS



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CHAIN OF CUSTODY RECORD

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

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2					
	Cannister ID	Sample Start	Sample End												
L041602-51	A7642	-20.5	-5	GEW 180	4/9/2020	14:59	C	LFG	NA	X					4.5
-52	5936	-20.6	-5	GEW 101	4/9/2020	15:08	C	LFG	NA	X					4.5
-53	4648	-20.5	-5	GEW 181	4/9/2020	15:18	C	LFG	NA	X					4.5
-54	5311	-20.8	-5	GEW 221	4/9/2020	15:34	C	LFG	NA	X					4
-55	A7784	-18.5	-5	GEW 144	4/9/2020	15:45	C	LFG	NA	X					3
-56	3435	-20.4	-5	GEW 68A	4/9/2020	15:54	C	LFG	NA	X					4
-57	6151	-21.5	-5	GEW 174	4/13/2020	9:36	C	LFG	NA	X					3
-58	3439	-21.6	-5	GEW 240	4/13/2020	9:50	C	LFG	NA	X					3
-59	5825	-20.1	-5	GEW 222	4/13/2020	10:09	C	LFG	NA	X					3
-60	A7816	-21.3	-5	GEW 100	4/13/2020	10:19	C	LFG	NA	X					3

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

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 4/9/20 - 4/13/2020

RELINQUISHED BY: *[Signature]* **DATE/TIME:** 4/15/2020 **RECEIVED BY:** _____ **DATE/TIME:** _____

RELINQUISHED BY: *[Signature]* **DATE/TIME:** 4/14/20 **RECEIVED BY:** *[Signature]* **DATE/TIME:** 4/14/20 1934

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

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

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

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

BILLING

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

ANALYSIS REQUEST

D1946 + CO, H2																			
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LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2										
	Cannister ID	Sample Start	Sample End																	
LS4/1602-61	6160	-21.5	-5	GEW 171	4/13/2020	10:29	C	LFG	NA	X										3
-62	A8085	-21.1	-5	GEW 140	4/13/2020	11:30	C	LFG	NA	X										3
-63	6144	-19.5	-5	GEW 172	4/13/2020	11:40	C	LFG	NA	X										3
-64	A7666	-21.6	-5	GEW 226	4/13/2020	13:40	C	LFG	NA	X										3
-65	A8066	-21.1	-5	GEW 139	4/13/2020	13:51	C	LFG	NA	X										3
-66	3441	-21.2	-5	GEW 223	4/13/2020	14:15	C	LFG	NA	X										3
-67	5904	-21.3	-5	GEW 224	4/13/2020	14:27	C	LFG	NA	X										3
-68	A7800	-20.4	-5	GEW 225	4/13/2020	14:36	C	LFG	NA	X										3
-69	5924	-20.8	-5	GEW 186	4/13/2020	15:43	C	LFG	NA	X										3.5
-70	A7792	-20.8	-5	GEW 170	4/13/2020	16:10	C	LFG	NA	X										3

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

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 4/13/2020

RELINQUISHED BY: [Signature] DATE/TIME: 4/15/2020	RECEIVED BY: [Signature] DATE/TIME:
RELINQUISHED BY: PEN EX DATE/TIME: 4/16/20	RECEIVED BY: [Signature] DATE/TIME: 4/16/20 0924
RELINQUISHED BY:	RECEIVED BY:

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

DELIVERABLES

PAGE: 8 OF 17

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

- EDD
- EDF
- Level 3
- Level 4

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

Project No.: _____

Project Name: Bridgeton Landfill

Report To: Mike Lambrich

Company: Republic Services

Street: 13570 St. Charles Rock Rd.

City/State/Zip: Bridgeton, MO 63044

Phone & Fax: 314-683-3921

e-mail: MikeLambrich@republicservices.com

BILLING

ANALYSIS REQUEST

P.O. No.: PO7112802

Bill to: Republic Services

Attn: Mike Lambrich

13570 St. Charles Rock Rd.

Bridgeton, MO 63044

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYP	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST					
	Cannister ID	Sample Start	Sample End													
L041602 -71	A8102	-21.2	-5	GEW 177	4/14/2020	8:51	C	LFG	NA	X						3
-72	A7749	-21.4	-5	GEW 129	4/14/2020	9:01	C	LFG	NA	X						3

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

SAMPLED BY: Anthony Kimutis **COMPANY:** Republic Services **DATE/TIME:** 4/14/2020

RELINQUISHED BY: <i>Anthony Kimutis</i>	DATE/TIME: 4/15/2020	RECEIVED BY: _____	DATE/TIME: _____
RELINQUISHED BY: <i>Penoyer</i>	DATE/TIME: 4/14/20	RECEIVED BY: <i>ASG</i>	DATE/TIME: 4/14/20 0934
RELINQUISHED BY: _____	DATE/TIME: _____	RECEIVED BY: _____	DATE/TIME: _____

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 9 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST						
	Cannister ID	Sample Start	Sample End														
LD41602-73	A7802	-20	-5	GEW 56R	4/8/2020	9:08	C	LFG	NA	X							5
-74	A8076	-20.3	-5	GEW 10	4/8/2020	9:18	C	LFG	NA	X							5
-75	A7780	-19.8	-5	GEW 110	4/8/2020	9:27	C	LFG	NA	X							5
-76	5308	-20.1	-5	GEW 162	4/8/2020	9:49	C	LFG	NA	X							5
-77	3837	-20.3	-5	GEW 161	4/8/2020	10:00	C	LFG	NA	X							5
-78	A7815	-20.2	-5	GEW 91	4/8/2020	10:11	C	LFG	NA	X							5
-79	A7671	-19.9	-5	GEW 160	4/8/2020	10:22	C	LFG	NA	X							5.5
-80	A8068	-19.8	-5	GIW 1	4/8/2020	12:56	C	LFG	NA	X							6
-81	6149	-19.9	-5	GIW 2	4/8/2020	13:06	C	LFG	NA	X							6
-82	5816	-20.2	-5	GIW 3	4/8/2020	13:15	C	LFG	NA	X							5.5

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** 4/8/2020

RELINQUISHED BY: <u>Antal K</u>	DATE/TIME: 4/15/2020	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <u>FELI</u>	DATE/TIME: 4/16/20	RECEIVED BY: <u>[Signature]</u>	DATE/TIME: 4/16/20 0939
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

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

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

BILLING

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
L04/ke02-83	A7748	-20.1	-5	GIW 4	4/8/2020	13:24	C	LFG	NA	X					5.5
-84	5310	-20.1	-5	GIW 5	4/8/2020	13:33	C	LFG	NA	X					5.5
-85	5272	-19.7	-5	GIW 6	4/8/2020	13:45	C	LFG	NA	X					5.5
-86	3825	-19.5	-5	GIW 7	4/8/2020	13:54	C	LFG	NA	X					6
-87	A8056	-20.1	-5	GIW 8	4/8/2020	14:03	C	LFG	NA	X					6
-88	4657	-20	-5	GIW 9	4/8/2020	14:12	C	LFG	NA	X					6
-89	A7793	-20	-5	GIW 10	4/8/2020	14:25	C	LFG	NA	X					6
-90	A7761	-19.8	-5	GIW 11	4/8/2020	14:34	C	LFG	NA	X					6
-91	3826	-19	-5	GIW 12	4/8/2020	14:43	C	LFG	NA	X					6
-92	6152	-19.9	-5	GIW 13	4/8/2020	14:52	C	LFG	NA	X					6

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** 4/18/2020

RELINQUISHED BY: [Signature]	DATE/TIME: 4/15/2020	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: [Signature]	DATE/TIME: 4/16/20	RECEIVED BY: [Signature]	DATE/TIME: 4/16/20 0934
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

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

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
LOA/682-93	5271	-21.1	-5	GEW 187	4/9/2020	8:54	C	LFG	NA	X				4	6
-94	4645	-20.6	-5	GEW 108	4/9/2020	9:04	C	LFG	NA	X				4	6
-95	5307	-21.1	-5	GEW 109	4/9/2020	9:14	C	LFG	NA	X				4	6
-96	5834	-21	-5	GEW 39	4/9/2020	9:24	C	LFG	NA	X				4	6

8
4-7-20
x9

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** 4/9/2020

RELINQUISHED BY: <u>Andy Guthrie</u>	DATE/TIME: 4/15/2020	RECEIVED BY: _____	DATE/TIME: _____
RELINQUISHED BY: <u>FedEx</u>	DATE/TIME: 4/16/20	RECEIVED BY: <u>D. J. [Signature]</u>	DATE/TIME: 4/16/20 0934
RELINQUISHED BY: _____	DATE/TIME: _____	RECEIVED BY: _____	DATE/TIME: _____

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 12 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
L041602-97	A8075	-20.7	-5	GEW 229	4/6/2020	10:29	C	LFG	NA	X					4
-98	A7665	-20.6	-5	GEW 90	4/6/2020	14:16	C	LFG	NA	X					4.5
-99	A7645	-20.5	-5	GEW 239	4/6/2020	14:34	C	LFG	NA	X					5
-100	A7770	-20.6	-5	GEW 149	4/6/2020	14:52	C	LFG	NA	X					5
-101	A8079	-20.2	-5	GEW 67A	4/6/2020	15:02	C	LFG	NA	X					5
-102	3130	-20.2	-5	GEW 230	4/6/2020	15:16	C	LFG	NA	X					5
-103	5929	-19.8	-5	GEW 86	4/6/2020	15:32	C	LFG	NA	X					5
-104	4644	-20.4	-5	GEW 88	4/7/2020	8:30	C	LFG	NA	X					5
-105	A8098	-20.4	-5	GEW 151	4/7/2020	8:41	C	LFG	NA	X					5
-106	A7650	-20.7	-5	GEW 13A	4/7/2020	8:53	C	LFG	NA	X					5

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** 4/6/2020 - 4/7/2020

RELINQUISHED BY: <i>Andy Guthrie</i> DATE/TIME: 4/15/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <i>FedEx</i> DATE/TIME: 4/16/20	RECEIVED BY: <i>John</i> DATE/TIME: 4/16/20 0934
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS



AirTECHNOLOGY

Laboratories, Inc.

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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME

DELIVERABLES

PAGE: 13 OF 17

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

EDD
EDF
Level 3
Level 4

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

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2						
	Cannister ID	Sample Start	Sample End													
L041602-107	3164	-20.6	-5	GEW 87	4/9/2020	10:48	C	LFG	NA	X						4
-108	6154	-20.6	-5	GEW 148	4/9/2020	10:58	C	LFG	NA	X						4
-109	A7805	-20.6	-5	GEW 228	4/9/2020	13:23	C	LFG	NA	X						4.5
-110	A8067	-20.7	-5	GEW 15	4/9/2020	13:35	C	LFG	NA	X						4.5
-111	A8055	-20.3	-5	GEW 232	4/9/2020	13:45	C	LFG	NA	X						5
-112	A8065	-21	-5	GEW 113	4/9/2020	13:56	C	LFG	NA	X						5
-113	5268	-20.2	-5	GEW 238	4/9/2020	10:06	C	LFG	NA	X						5
-114	A8080	-20.3	-5	GEW 16R	4/9/2020	14:18	C	LFG	NA	X						5
-115	A7795	-20.8	-5	GEW 147	4/9/2020	14:28	C	LFG	NA	X						4.5
-116	A7809	-20.5	-5	GEW 137	4/9/2020	14:43	C	LFG	NA	X						5

AUTHORIZATION TO PERFORM WORK: **Dave Penoyer** COMPANY: Republic Services
 SAMPLED BY: **Andy Guthrie** COMPANY: Hunt Environmental Services DATE/TIME: **4/9/2020**
 RELINQUISHED BY: **Anto Lab** DATE/TIME: **4/15/2020** RECEIVED BY: _____ DATE/TIME: _____
 RELINQUISHED BY: **FEH ex** DATE/TIME: **4/16/20** RECEIVED BY: **J. [Signature]** DATE/TIME: **4/16/20 0934**
 RELINQUISHED BY: _____ DATE/TIME: _____ RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 14 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2							
	Cannister ID	Sample Start	Sample End														
L041602-117	3132	-21.4	-5	GEW 78R	4/10/2020	10:05	C	LFG	NA	X							3.5
-118	A8063	-19.1	-5	GEW 236	4/10/2020	10:18	C	LFG	NA	X							6
-119	3131	-20.4	-5	GEW 135	4/10/2020	10:44	C	LFG	NA	X							4
-120	3155	-21.2	-5	GEW 227	4/10/2020	10:55	C	LFG	NA	X							4
-121	3839	-21.1	-5	GEW 233	4/10/2020	11:07	C	LFG	NA	X							3
-122	A8070	-18.9	-5	GEW 134	4/10/2020	13:32	C	LFG	NA	X							4.5
-123	A7794	-20.8	-5	GEW 82R	4/10/2020	13:51	C	LFG	NA	X							4.5
-124	A7781	-20.8	-5	GEW 132	4/10/2020	14:01	C	LFG	NA	X							4.5
-125	3159	-20.3	-5	GEW 234	4/10/2020	14:11	C	LFG	NA	X							5
-126	A8096	-20.2	-5	GEW 118	4/10/2020	14:22	C	LFG	NA	X							5

AUTHORIZATION TO PERFORM WORK: Dave Penoyer		COMPANY: Republic Services	
SAMPLED BY: Andy Guthrie		COMPANY: Hunt Environmental Services	
DATE/TIME: 4/10/2020			
RELINQUISHED BY: <u>Andy Guthrie</u>	DATE/TIME: 4/15/2020	RECEIVED BY: <u>[Signature]</u>	DATE/TIME: 4/16/20
RELINQUISHED BY: <u>FedEx</u>	DATE/TIME: 4/16/20	RECEIVED BY: <u>[Signature]</u>	DATE/TIME: 0934
RELINQUISHED BY: _____	DATE/TIME: _____	RECEIVED BY: _____	DATE/TIME: _____

COMMENTS

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



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

CHAIN OF CUSTODY RECORD

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

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

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

ANALYSIS REQUEST

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
L041602-127	A7654	-20.07	-5	GEW 19A	4/10/2020	14:32	C	LFG	NA	X					5
-128	A8059	-20.7	-5	GEW 133	4/10/2020	14:43	C	LFG	NA	X					5
-129	A7798	-20.8	-5	GEW 18B	4/13/2020	9:57	C	LFG	NA	X					3.5
-130	3157	-21.3	-5	GEW 120	4/13/2020	10:10	C	LFG	NA	X					3.5
-131	5836	-21	-5	GEW 185	4/13/2020	10:21	C	LFG	NA	X					3.5
-132	5901	-20.9	-5	GEW 121	4/13/2020	10:54	C	LFG	NA	X					3.5
-133	A8072	-20.5	-5	GEW 235	4/13/2020	11:03	C	LFG	NA	X					4
-134	5316	-20.6	-5	GEW 122	4/13/2020	13:26	C	LFG	NA	X					4
-135	A8087	-21.4	-5	GEW 123	4/13/2020	13:37	C	LFG	NA	X					4
-136	6131	-21.1	-5	GEW 163	4/13/2020	13:46	C	LFG	NA	X					3.5

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental services **DATE/TIME:** 4/10/2020 - 4/13/2020

RELINQUISHED BY: <i>Andy Guthrie</i>	DATE/TIME: 4/15/2020	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <i>FedEx</i>	DATE/TIME: 4/16/20	RECEIVED BY: <i>[Signature]</i>	DATE/TIME: 4/16/20 0934
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

TURNAROUND TIME		DELIVERABLES	PAGE: 16 OF 17
Standard <input type="checkbox"/>	48 hours <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>	Condition upon receipt: Sealed Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Chilled _____ deg C
Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/>	EDF <input type="checkbox"/>	
24 hours <input type="checkbox"/>	96 hours <input type="checkbox"/>	Level 3 <input type="checkbox"/>	
Other: <u>5 Day</u>		Level 4 <input type="checkbox"/>	

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
L041602-137	A7778	-20.8	-5	GEW 164	4/13/2020	13:55	C	LFG	NA	X					4
-138	5905	-21.1	-5	GEW 124	4/13/2020	14:12	C	LFG	NA	X					3
-139	5927	-21.3	-5	GEW 165	4/13/2020	14:33	C	LFG	NA	X					3.5
-140	5323	-21	-5	GEW 125	4/13/2020	14:43	C	LFG	NA	X					4
-141	5830	-21.2	-5	GEW 166	4/13/2020	14:53	C	LFG	NA	X					3
-142	5837	-21.2	-5	GEW 131	4/14/2020	8:13	C	LFG	NA	X					3
-143	5324	-21.7	-5	GEW 126	4/14/2020	8:24	C	LFG	NA	X					3
-144	6146	-21.5	-5	GEW 130	4/14/2020	8:34	C	LFG	NA	X					3
-145	A7670	-21.7	-5	GEW 168	4/14/2020	8:48	C	LFG	NA	X					3
-146	A8103	-21.4	-5	GEW 169	4/14/2020	8:59	C	LFG	NA	X					3

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** 4/13/2020 - 4/14/2020

RELINQUISHED BY: <i>Andy Guthrie</i>	DATE/TIME: 4/15/2020	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: <i>FedEx</i>	DATE/TIME: 4/16/20	RECEIVED BY: <i>David J.</i>	DATE/TIME: 4/16/20 0934
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:

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

COMMENTS



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

CHAIN OF CUSTODY RECORD

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

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

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	ANALYSIS REQUEST				
	Cannister ID	Sample Start	Sample End												
<u>L041602-147</u>	3436	-21.5	-5	GEW 127	4/14/2020	9:08	C	LFG	NA	X					<u>3</u>

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

SAMPLED BY: Andy Guthrie **COMPANY:** Hunt Environmental Services **DATE/TIME:** 4/14/2020

RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: 4/15/2020	RECEIVED BY: _____ DATE/TIME: _____
RELINQUISHED BY: <u>FedEx</u> DATE/TIME: 4/16/20	RECEIVED BY: <u>[Signature]</u> DATE/TIME: 4/16/20 0934
RELINQUISHED BY: _____ DATE/TIME: _____	RECEIVED BY: _____ DATE/TIME: _____

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

COMMENTS

Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-01	L041602-02	L041602-03	L041602-04				
Client Sample I.D.:	GEW 7	GEW 8	GEW 50	GEW 52				
Date/Time Sampled:	4/6/20 15:34	4/6/20 15:45	4/7/20 8:47	4/7/20 8:56				
Date/Time Analyzed:	4/17/20 11:51	4/17/20 12:05	4/17/20 12:20	4/17/20 12:34				
QC Batch No.:	200417GC8A1	200417GC8A1	200417GC8A1	200417GC8A1				
Analyst Initials:	AS	AS	AS	AS				
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	ND d	0.032	1.2 d	0.032	ND d	0.032	ND d	0.032
Carbon Dioxide	40	0.032	43	0.032	38	0.032	38	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	6.9	3.2	3.6	3.2	8.6	3.2	13	3.2
Methane	52	0.0032	51	0.0032	52	0.0032	48	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 obtained from a secondary analysis. QC Batch: 200421GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-05	L041602-06	L041602-07	L041602-08				
Client Sample I.D.:	GEW 9	GEW 51	GEW 53	GEW 54				
Date/Time Sampled:	4/7/20 9:09	4/7/20 9:21	4/7/20 9:38	4/7/20 9:48				
Date/Time Analyzed:	4/17/20 12:49	4/17/20 13:04	4/17/20 13:18	4/17/20 13:33				
QC Batch No.:	200417GC8A1	200417GC8A1	200417GC8A1	200417GC8A1				
Analyst Initials:	AS	AS	AS	AS				
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	0.62 d	0.032	0.87 d	0.032	3.2 d	0.032	1.5 d	0.032
Carbon Dioxide	42	0.032	42	0.032	43	0.032	43	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	7.6	3.2	4.7	3.2	4.7	3.2	3.4	3.2
Methane	49	0.0032	52	0.0032	48	0.0032	51	0.0032
Carbon Monoxide	ND	0.0032	ND	0.0032	0.0054	0.0032	ND	0.0032

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-09		L041602-10		L041602-11		L041602-12	
Client Sample I.D.:	GEW 55		GEW 40		GEW 41R		GEW 42R	
Date/Time Sampled:	4/7/20 10:36		4/7/20 10:47		4/7/20 10:58		4/7/20 11:09	
Date/Time Analyzed:	4/17/20 13:47		4/17/20 14:02		4/17/20 14:16		4/17/20 14:31	
QC Batch No.:	200417GC8A1		200417GC8A1		200417GC8A1		200417GC8A1	
Analyst Initials:	AS		AS		AS		AS	
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	1.2 d	0.032	ND d	0.032	ND d	0.032	ND d	0.032
Carbon Dioxide	42	0.032	33	0.032	35	0.032	39	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	6.7	3.2	14	3.2	13	3.2	7.1	3.2
Methane	49	0.0032	51	0.0032	51	0.0032	53	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 obtained from a secondary analysis. QC Batch: 200421GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 04/16/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-13	L041602-14	L041602-15	L041602-16
Client Sample I.D.:	GEW 43R	GEW 44	GEW 49	GEW 45R
Date/Time Sampled:	4/7/20 11:22	4/7/20 13:26	4/7/20 13:38	4/7/20 13:56
Date/Time Analyzed:	4/17/20 14:46	4/17/20 15:00	4/17/20 15:15	4/17/20 15:29
QC Batch No.:	200417GC8A1	200417GC8A1	200417GC8A1	200417GC8A1
Analyst Initials:	AS	AS	AS	AS
Dilution Factor:	3.2	3.4	3.3	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	0.13 d	0.032	ND d	0.034	ND d	0.033	ND d	0.034
Carbon Dioxide	41	0.032	37	0.034	42	0.033	39	0.034
Oxygen/Argon	ND	1.6	ND	1.7	ND	1.6	ND	1.7
Nitrogen	6.8	3.2	12	3.4	5.5	3.3	7.9	3.4
Methane	51	0.0032	50	0.0034	52	0.0033	52	0.0034
Carbon Monoxide	ND	0.0032	ND	0.0034	ND	0.0033	ND	0.0034

Results normalized including non-methane hydrocarbons

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d = Results obtained from a secondary analysis. QC Batch: 200421GC8A1

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-17	L041602-18	L041602-19	L041602-20				
Client Sample I.D.:	GEW 46R	GEW 2S	GEW 2	GEW 4				
Date/Time Sampled:	4/7/20 14:08	4/7/20 14:27	4/7/20 15:24	4/7/20 15:36				
Date/Time Analyzed:	4/17/20 15:44	4/17/20 15:58	4/17/20 16:13	4/17/20 19:38				
QC Batch No.:	200417GC8A1	200417GC8A1	200417GC8A1	200417GC8A2				
Analyst Initials:	AS	AS	AS	AS				
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	ND d	0.034	ND d	0.034	ND d	0.034	ND d	0.034
Carbon Dioxide	38	0.034	34	0.034	43	0.034	41	0.034
Oxygen/Argon	ND	1.7	2.3	1.7	ND	1.7	ND	1.7
Nitrogen	11	3.4	9.6	3.4	3.9	3.4	6.8	3.4
Methane	49	0.0034	54	0.0034	53	0.0034	51	0.0034
Carbon Monoxide	ND	0.0034	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 obtained from a secondary analysis. QC Batch: 200421GC8A1

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-21	L041602-22	L041602-23	L041602-24				
Client Sample I.D.:	GEW 47R	GEW 3	GEW 5	GEW 48				
Date/Time Sampled:	4/8/20 10:09	4/8/20 10:38	4/8/20 10:49	4/8/20 10:58				
Date/Time Analyzed:	4/17/20 19:53	4/17/20 20:07	4/17/20 20:22	4/17/20 20:37				
QC Batch No.:	200417GC8A2	200417GC8A2	200417GC8A2	200417GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.4	3.4	3.4				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.034	ND d	0.034	ND d	0.034	ND d	0.034
Carbon Dioxide	40	0.034	42	0.034	38	0.034	40	0.034
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.7	ND	1.7
Nitrogen	12	3.4	6.2	3.4	9.1	3.4	7.0	3.4
Methane	48	0.0034	51	0.0034	52	0.0034	52	0.0034
Carbon Monoxide	ND	0.0034	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 obtained from a secondary analysis. QC Batch: 200421GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-25	L041602-26	L041602-27	L041602-28				
Client Sample I.D.:	GEW 6	GEW 116	GEW 117	GEW 167				
Date/Time Sampled:	4/8/20 11:08	4/8/20 13:37	4/8/20 13:48	4/8/20 14:14				
Date/Time Analyzed:	4/17/20 20:51	4/17/20 21:06	4/17/20 21:20	4/17/20 21:35				
QC Batch No.:	200417GC8A2	200417GC8A2	200417GC8A2	200417GC8A2				
Analyst Initials:	AS	AS	AS	AS				
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	ND d	0.034	0.91 d	0.034	1.9 d	0.034	27	3.4
Carbon Dioxide	39	0.034	64	0.034	58	0.034	43	0.034
Oxygen/Argon	ND	1.7	ND	1.7	ND	1.7	3.1	1.7
Nitrogen	6.8	3.4	ND	3.4	5.7	3.4	15	3.4
Methane	54	0.0034	31	0.0034	33	0.0034	11	0.0034
Carbon Monoxide	ND	0.0034	0.0048	0.0034	0.016	0.0034	0.11	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

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Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-29	L041602-30	L041602-31	L041602-32				
Client Sample I.D.:	GEW 220	GEW 237	GEW 153	GEW 59R				
Date/Time Sampled:	4/8/20 14:25	4/8/20 14:36	4/8/20 15:24	4/8/20 15:33				
Date/Time Analyzed:	4/17/20 21:49	4/17/20 22:04	4/17/20 22:19	4/17/20 22:33				
QC Batch No.:	200417GC8A2	200417GC8A2	200417GC8A2	200417GC8A2				
Analyst Initials:	AS	AS	AS	AS				
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	13	3.4	2.9 d	0.034	2.7 d	0.034	23	3.4
Carbon Dioxide	50	0.034	42	0.034	30	0.034	40	0.034
Oxygen/Argon	ND	1.7	4.2	1.7	ND	1.7	ND	1.7
Nitrogen	4.4	3.4	19	3.4	45	3.4	22	3.4
Methane	31	0.0034	32	0.0034	21	0.0034	13	0.0034
Carbon Monoxide	0.042	0.0034	0.010	0.0034	0.018	0.0034	0.052	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-33	L041602-34	L041602-35	L041602-36				
Client Sample I.D.:	GEW 107	GEW 152	GEW 58A	GEW 106				
Date/Time Sampled:	4/8/20 15:44	4/8/20 15:52	4/9/20 8:50	4/9/20 9:04				
Date/Time Analyzed:	4/17/20 22:48	4/17/20 23:03	4/17/20 23:17	4/17/20 23:32				
QC Batch No.:	200417GC8A2	200417GC8A2	200417GC8A2	200417GC8A2				
Analyst Initials:	AS	AS	AS	AS				
Dilution Factor:	3.4	3.4	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	18	3.4	18	3.4	14	3.0	23	3.0
Carbon Dioxide	52	0.034	50	0.034	32	0.030	50	0.030
Oxygen/Argon	ND	1.7	1.7	1.7	3.5	1.5	ND	1.5
Nitrogen	ND	3.4	12	3.4	42	3.0	12	3.0
Methane	26	0.0034	18	0.0034	7.7	0.0030	13	0.0030
Carbon Monoxide	0.057	0.0034	0.043	0.0034	0.040	0.0030	0.054	0.0030

Results normalized including non-methane hydrocarbons

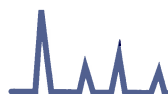
ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4.23.20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-37	L041602-38	L041602-39	L041602-40				
Client Sample I.D.:	GEW 158	GEW 105	GEW 175	GEW 150				
Date/Time Sampled:	4/9/20 9:14	4/9/20 9:25	4/9/20 9:35	4/9/20 10:11				
Date/Time Analyzed:	4/18/20 7:39	4/18/20 7:54	4/18/20 8:08	4/18/20 8:23				
QC Batch No.:	200418GC8A1	200418GC8A1	200418GC8A1	200418GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.9	3.0	3.0				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	12	2.9	11	2.9	1.7 d	0.030	12	3.0
Carbon Dioxide	46	0.029	45	0.029	35	0.030	40	0.030
Oxygen/Argon	ND	1.4	ND	1.4	5.8	1.5	4.5	1.5
Nitrogen	16	2.9	4.9	2.9	31	3.0	21	3.0
Methane	25	0.0029	38	0.0029	27	0.0030	21	0.0030
Carbon Monoxide	0.032	0.0029	0.028	0.0029	0.0067	0.0030	0.033	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A2

Reviewed/Approved By: _____



Mark Johnson
Operations Manager

Date

4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-41	L041602-42	L041602-43	L041602-44				
Client Sample I.D.:	GEW 104	GEW 157	GEW 57B	GEW 156				
Date/Time Sampled:	4/9/20 10:21	4/9/20 10:32	4/9/20 10:42	4/9/20 11:01				
Date/Time Analyzed:	4/18/20 8:37	4/18/20 8:52	4/18/20 9:07	4/18/20 9:21				
QC Batch No.:	200418GC8A1	200418GC8A1	200418GC8A1	200418GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	8.4	3.0	12	3.0	34	3.0	10	3.0
Carbon Dioxide	40	0.030	41	0.030	55	0.030	44	0.030
Oxygen/Argon	ND	1.5	2.8	1.5	ND	1.5	ND	1.5
Nitrogen	26	3.0	10	3.0	3.0	3.0	15	3.0
Methane	24	0.0030	34	0.0030	5.0	0.0030	30	0.0030
Carbon Monoxide	0.017	0.0030	0.022	0.0030	0.060	0.0030	0.025	0.0030

Results normalized including non-methane hydrocarbons

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 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-45	L041602-46	L041602-47	L041602-48				
Client Sample I.D.:	GEW 217	GEW 178	GEW 179	GEW 102				
Date/Time Sampled:	4/9/20 11:23	4/9/20 11:33	4/9/20 13:49	4/9/20 14:00				
Date/Time Analyzed:	4/18/20 10:06	4/18/20 10:20	4/18/20 10:35	4/18/20 10:49				
QC Batch No.:	200418GC8A1	200418GC8A1	200418GC8A1	200418GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	28	3.0	ND d	0.030	ND d	0.030	21	3.0
Carbon Dioxide	55	0.030	44	0.030	51	0.030	50	0.030
Oxygen/Argon	ND	1.5	3.6	1.5	ND	1.5	ND	1.5
Nitrogen	4.4	3.0	17	3.0	4.6	3.0	ND	3.0
Methane	10	0.0030	35	0.0030	44	0.0030	25	0.0030
Carbon Monoxide	0.059	0.0030	ND	0.0030	ND	0.0030	0.012	0.0030

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-49	L041602-50	L041602-51	L041602-52				
Client Sample I.D.:	GEW 218	GEW 145	GEW 180	GEW 101				
Date/Time Sampled:	4/9/20 14:22	4/9/20 14:31	4/9/20 14:59	4/9/20 15:08				
Date/Time Analyzed:	4/18/20 11:04	4/18/20 11:18	4/18/20 11:33	4/18/20 11:48				
QC Batch No.:	200418GC8A1	200418GC8A1	200418GC8A1	200418GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.1	3.1				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	10	3.0	19	3.0	ND d	0.031	ND d	0.031
Carbon Dioxide	41	0.030	48	0.030	62	0.031	60	0.031
Oxygen/Argon	3.3	1.5	ND	1.5	ND	1.5	ND	1.5
Nitrogen	25	3.0	ND	3.0	4.9	3.1	ND	3.1
Methane	20	0.0030	29	0.0030	31	0.0031	38	0.0031
Carbon Monoxide	0.030	0.0030	0.025	0.0030	ND	0.0031	ND	0.0031

Results normalized including non-methane hydrocarbons

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d = Results obtained from a secondary analysis. QC Batch: 200421GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-53		L041602-54		L041602-55		L041602-56	
Client Sample I.D.:	GEW 181		GEW 221		GEW 144		GEW 68A	
Date/Time Sampled:	4/9/20 15:18		4/9/20 15:34		4/9/20 15:45		4/9/20 15:54	
Date/Time Analyzed:	4/18/20 12:02		4/18/20 13:01		4/18/20 12:31		4/18/20 12:46	
QC Batch No.:	200418GC8A1		200418GC8A1		200418GC8A1		200418GC8A1	
Analyst Initials:	CM		CM		CM		CM	
Dilution Factor:	3.1		3.0		2.8		3.0	
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	ND d	0.031	6.4	3.0	0.050 d	0.028	27	3.0
Carbon Dioxide	72	0.031	57	0.030	34	0.028	52	0.030
Oxygen/Argon	ND	1.5	ND	1.5	6.8	1.4	ND	1.5
Nitrogen	3.5	3.1	9.7	3.0	24	2.8	6.1	3.0
Methane	24	0.0031	25	0.0030	36	0.0028	13	0.0030
Carbon Monoxide	ND	0.0031	0.016	0.0030	ND	0.0028	0.092	0.0030

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-57	L041602-58	L041602-59	L041602-60				
Client Sample I.D.:	GEW 174	GEW 240	GEW 222	GEW 100				
Date/Time Sampled:	4/13/20 9:36	4/13/20 9:50	4/13/20 10:09	4/13/20 10:19				
Date/Time Analyzed:	4/18/20 15:58	4/18/20 16:13	4/18/20 16:27	4/18/20 16:42				
QC Batch No.:	200418GC8A2	200418GC8A2	200418GC8A2	200418GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	4.2 d	0.028	12	2.8	8.7	2.8	22	2.8
Carbon Dioxide	34	0.028	26	0.028	42	0.028	64	0.028
Oxygen/Argon	ND	1.4	8.6	1.4	2.5	1.4	ND	1.4
Nitrogen	48	2.8	52	2.8	13	2.8	ND	2.8
Methane	13	0.0028	1.7	0.0028	33	0.0028	11	0.0028
Carbon Monoxide	0.0074	0.0028	0.034	0.0028	0.029	0.0028	0.054	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A2

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4.23.20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-61	L041602-62	L041602-63	L041602-64				
Client Sample I.D.:	GEW 171	GEW 140	GEW 172	GEW 226				
Date/Time Sampled:	4/13/20 10:29	4/13/20 11:30	4/13/20 11:40	4/13/20 13:40				
Date/Time Analyzed:	4/18/20 16:56	4/18/20 17:11	4/18/20 17:25	4/18/20 17:40				
QC Batch No.:	200418GC8A2	200418GC8A2	200418GC8A2	200418GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	11	2.8	14	2.8	16	2.8	15	2.8
Carbon Dioxide	52	0.028	43	0.028	41	0.028	36	0.028
Oxygen/Argon	4.0	1.4	ND	1.4	3.8	1.4	ND	1.4
Nitrogen	15	2.8	13	2.8	19	2.8	35	2.8
Methane	17	0.0028	28	0.0028	19	0.0028	12	0.0028
Carbon Monoxide	0.050	0.0028	0.037	0.0028	0.073	0.0028	0.069	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
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 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L041602-65	L041602-66	L041602-67	L041602-68				
Client Sample I.D.:	GEW 139	GEW 223	GEW 224	GEW 225				
Date/Time Sampled:	4/13/20 13:51	4/13/20 14:15	4/13/20 14:27	4/13/20 14:36				
Date/Time Analyzed:	4/18/20 17:54	4/18/20 18:09	4/18/20 18:24	4/18/20 18:38				
QC Batch No.:	200418GC8A2	200418GC8A2	200418GC8A2	200418GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	17	2.8	2.3 d	0.028	7.3	2.8	21	2.8
Carbon Dioxide	40	0.028	64	0.028	59	0.028	51	0.028
Oxygen/Argon	3.6	1.4	ND	1.4	ND	1.4	1.8	1.4
Nitrogen	22	2.8	ND	2.8	ND	2.8	9.4	2.8
Methane	17	0.0028	31	0.0028	31	0.0028	17	0.0028
Carbon Monoxide	0.076	0.0028	0.023	0.0028	0.054	0.0028	0.14	0.0028

Results normalized including non-methane hydrocarbons

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Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-69	L041602-70	L041602-71	L041602-72				
Client Sample I.D.:	GEW 186	GEW 170	GEW 177	GEW 129				
Date/Time Sampled:	4/13/20 15:43	4/13/20 16:10	4/14/20 8:51	4/14/20 9:01				
Date/Time Analyzed:	4/18/20 18:53	4/18/20 19:08	4/18/20 19:22	4/18/20 19:37				
QC Batch No.:	200418GC8A2	200418GC8A2	200418GC8A2	200418GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	0.97 d	0.029	15	2.8	19	2.8	3.3 d	0.028
Carbon Dioxide	42	0.029	43	0.028	55	0.028	56	0.028
Oxygen/Argon	2.8	1.4	4.3	1.4	ND	1.4	ND	1.4
Nitrogen	18	2.9	25	2.8	14	2.8	4.8	2.8
Methane	35	0.0029	12	0.0028	11	0.0028	35	0.0028
Carbon Monoxide	0.0084	0.0029	0.086	0.0028	0.15	0.0028	0.028	0.0028

Results normalized including non-methane hydrocarbons

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RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A2

Reviewed/Approved By: 
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Operations Manager

Date 4-23-20

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Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L041602-73	L041602-74	L041602-75	L041602-76				
Client Sample I.D.:	GEW 56R	GEW 10	GEW 110	GEW 162				
Date/Time Sampled:	4/8/20 9:08	4/8/20 9:18	4/8/20 9:27	4/8/20 9:49				
Date/Time Analyzed:	4/18/20 19:51	4/18/20 20:06	4/18/20 20:20	4/18/20 20:35				
QC Batch No.:	200418GC8A2	200418GC8A2	200418GC8A2	200418GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	3.6 d	0.032	0.096 d	0.032	8.9	3.2	13	3.2
Carbon Dioxide	45	0.032	43	0.032	48	0.032	66	0.032
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.6
Nitrogen	6.2	3.2	ND	3.2	4.9	3.2	6.8	3.2
Methane	44	0.0032	53	0.0032	37	0.0032	12	0.0032
Carbon Monoxide	0.0067	0.0032	ND	0.0032	0.015	0.0032	0.055	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

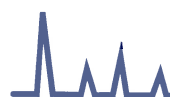
RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A3

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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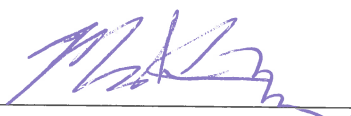
Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-77	L041602-78	L041602-79	L041602-80				
Client Sample I.D.:	GEW 161	GEW 91	GEW 160	GIW 1				
Date/Time Sampled:	4/8/20 10:00	4/8/20 10:11	4/8/20 10:22	4/8/20 12:56				
Date/Time Analyzed:	4/18/20 22:32	4/18/20 22:46	4/18/20 23:01	4/18/20 23:16				
QC Batch No.:	200418GC8A3	200418GC8A3	200418GC8A3	200418GC8A3				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.3	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	30	3.2	36	3.2	15	3.3	11	3.4
Carbon Dioxide	53	0.032	49	0.032	38	0.033	59	0.034
Oxygen/Argon	ND	1.6	ND	1.6	ND	1.6	ND	1.7
Nitrogen	5.5	3.2	5.4	3.2	24	3.3	ND	3.4
Methane	8.9	0.0032	6.0	0.0032	21	0.0033	26	0.0034
Carbon Monoxide	0.099	0.0032	0.023	0.0032	0.034	0.0033	0.033	0.0034

Results normalized including non-methane hydrocarbons

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v


ASTM D1946

Lab No.:	L041602-81	L041602-82	L041602-83	L041602-84				
Client Sample I.D.:	GIW 2	GIW 3	GIW 4	GIW 5				
Date/Time Sampled:	4/8/20 13:06	4/8/20 13:15	4/8/20 13:24	4/8/20 13:33				
Date/Time Analyzed:	4/18/20 23:30	4/18/20 23:45	4/18/20 23:59	4/19/20 13:57				
QC Batch No.:	200418GC8A3	200418GC8A3	200418GC8A3	200419GC8A1				
Analyst Initials:	CM	CM	CM	MJ				
Dilution Factor:	3.4	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	17	3.4	12	3.3	22	3.3	6.9	3.3
Carbon Dioxide	65	0.034	49	0.033	50	0.033	19	0.033
Oxygen/Argon	ND	1.7	ND	1.6	ND	1.6	14	1.6
Nitrogen	8.0	3.4	17	3.3	7.8	3.3	52	3.3
Methane	8.8	0.0034	21	0.0033	19	0.0033	7.8	0.0033
Carbon Monoxide	0.090	0.0034	0.043	0.0033	0.071	0.0033	0.0070	0.0033

Results normalized including non-methane hydrocarbons

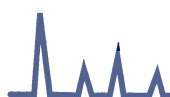
ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4.23.20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-85	L041602-86	L041602-87	L041602-88				
Client Sample I.D.:	GIW 6	GIW 7	GIW 8	GIW 9				
Date/Time Sampled:	4/8/20 13:45	4/8/20 13:54	4/8/20 14:03	4/8/20 14:12				
Date/Time Analyzed:	4/19/20 14:11	4/19/20 14:26	4/19/20 14:40	4/19/20 14:55				
QC Batch No.:	200419GC8A1	200419GC8A1	200419GC8A1	200419GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.3	3.4	3.4	3.4				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	3.8 d	0.033	ND d	0.034	ND d	0.034	13	3.4
Carbon Dioxide	42	0.033	46	0.034	46	0.034	43	0.034
Oxygen/Argon	ND	1.6	ND	1.7	ND	1.7	ND	1.7
Nitrogen	20	3.3	5.1	3.4	7.6	3.4	21	3.4
Methane	33	0.0033	48	0.0034	45	0.0034	22	0.0034
Carbon Monoxide	0.0035	0.0033	ND	0.0034	ND	0.0034	0.015	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A3

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-89	L041602-90	L041602-91	L041602-92				
Client Sample I.D.:	GIW 10	GIW 11	GIW 12	GIW 13				
Date/Time Sampled:	4/8/20 14:25	4/8/20 14:34	4/8/20 14:43	4/8/20 14:52				
Date/Time Analyzed:	4/19/20 15:09	4/19/20 15:24	4/19/20 15:39	4/19/20 15:53				
QC Batch No.:	200419GC8A1	200419GC8A1	200419GC8A1	200419GC8A1				
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	7.5	3.4	2.7 d	0.034	4.5 d	0.034	4.6 d	0.034
Carbon Dioxide	34	0.034	35	0.034	36	0.034	47	0.034
Oxygen/Argon	ND	1.7	ND	1.7	2.4	1.7	ND	1.7
Nitrogen	34	3.4	36	3.4	28	3.4	3.7	3.4
Methane	23	0.0034	25	0.0034	29	0.0034	44	0.0034
Carbon Monoxide	0.013	0.0034	0.014	0.0034	0.016	0.0034	0.0080	0.0034

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A3, 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-93		L041602-94		L041602-95		L041602-96	
Client Sample I.D.:	GEW 187		GEW 108		GEW 109		GEW 39	
Date/Time Sampled:	4/9/20 8:54		4/9/20 9:04		4/9/20 9:14		4/9/20 9:24	
Date/Time Analyzed:	4/19/20 16:08		4/19/20 16:22		4/19/20 16:37		4/19/20 16:52	
QC Batch No.:	200419GC8A1		200419GC8A1		200419GC8A1		200419GC8A1	
Analyst Initials:	MJ		MJ		MJ		MJ	
Dilution Factor:	3.0		3.0		3.0		3.0	
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	2.0 d	0.030	10	3.0	0.41 d	0.030	ND d	0.030
Carbon Dioxide	52	0.030	48	0.030	42	0.030	30	0.030
Oxygen/Argon	ND	1.5	ND	1.5	2.1	1.5	3.1	1.5
Nitrogen	5.0	3.0	3.8	3.0	15	3.0	44	3.0
Methane	40	0.0030	37	0.0030	41	0.0030	22	0.0030
Carbon Monoxide	0.0079	0.0030	0.020	0.0030	ND	0.0030	ND	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: _____



Mark Johnson
Operations Manager

Date 4.23.20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L041602-97	L041602-98	L041602-99	L041602-100				
Client Sample I.D.:	GEW 229	GEW 90	GEW 239	GEW 149				
Date/Time Sampled:	4/6/20 10:29	4/6/20 14:16	4/6/20 14:34	4/6/20 14:52				
Date/Time Analyzed:	4/19/20 17:06	4/19/20 17:21	4/19/20 17:35	4/19/20 17:50				
QC Batch No.:	200419GC8A1	200419GC8A1	200419GC8A1	200419GC8A1				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.0	3.1	3.2	3.2				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	9.7	3.0	19	3.1	38	3.2	1.4 d	0.032
Carbon Dioxide	30	0.030	42	0.031	55	0.032	24	0.032
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.6	1.7	1.6
Nitrogen	46	3.0	18	3.1	ND	3.2	65	3.2
Methane	13	0.0030	20	0.0031	1.2	0.0032	7.2	0.0032
Carbon Monoxide	0.027	0.0030	0.038	0.0031	0.11	0.0032	0.0045	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-101	L041602-102	L041602-103	L041602-104				
Client Sample I.D.:	GEW 67A	GEW 230	GEW 86	GEW 88				
Date/Time Sampled:	4/6/20 15:02	4/6/20 15:16	4/6/20 15:32	4/7/20 8:30				
Date/Time Analyzed:	4/19/20 18:05	4/19/20 18:19	4/19/20 18:34	4/19/20 20:31				
QC Batch No.:	200419GC8A1	200419GC8A1	200419GC8A1	200419GC8A2				
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	31	3.2	29	3.2	36	3.2	35	3.2
Carbon Dioxide	56	0.032	47	0.032	52	0.032	45	0.032
Oxygen/Argon	ND	1.6	2.0	1.6	ND	1.6	ND	1.6
Nitrogen	ND	3.2	17	3.2	ND	3.2	15	3.2
Methane	6.0	0.0032	3.6	0.0032	6.1	0.0032	1.7	0.0032
Carbon Monoxide	0.057	0.0032	0.062	0.0032	0.091	0.0032	0.10	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L041602-105	L041602-106	L041602-107	L041602-108				
Client Sample I.D.:	GEW 151	GEW 13A	GEW 87	GEW 148				
Date/Time Sampled:	4/7/20 8:41	4/7/20 8:53	4/9/20 10:48	4/9/20 10:58				
Date/Time Analyzed:	4/19/20 20:45	4/19/20 21:00	4/19/20 21:15	4/19/20 21:29				
QC Batch No.:	200419GC8A2	200419GC8A2	200419GC8A2	200419GC8A2				
Analyst Initials:	MJ	MJ	MJ	MJ				
Dilution Factor:	3.2	3.2	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	16	3.2	22	3.2	2.8 d	0.030	23	3.0
Carbon Dioxide	30	0.032	60	0.032	30	0.030	53	0.030
Oxygen/Argon	6.7	1.6	ND	1.6	5.6	1.5	ND	1.5
Nitrogen	41	3.2	ND	3.2	52	3.0	5.3	3.0
Methane	5.3	0.0032	13	0.0032	10	0.0030	17	0.0030
Carbon Monoxide	0.039	0.0032	0.068	0.0032	0.0080	0.0030	0.11	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-109	L041602-110	L041602-111	L041602-112
Client Sample I.D.:	GEW 228	GEW 15	GEW 232	GEW 113
Date/Time Sampled:	4/9/20 13:23	4/9/20 13:35	4/9/20 13:45	4/9/20 13:56
Date/Time Analyzed:	4/19/20 21:44	4/19/20 21:58	4/20/20 8:03	4/20/20 8:18
QC Batch No.:	200419GC8A2	200419GC8A2	200419GC8A2	200419GC8A2
Analyst Initials:	MJ	MJ	CM	CM
Dilution Factor:	3.1	3.1	3.2	3.2


ANALYTE	Result		RL		Result		RL		Result		RL	
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	
Hydrogen	4.2	d	0.031		17	3.1	6.3	3.2	22	3.2		
Carbon Dioxide	16		0.031		49	0.031	60	0.032	61	0.032		
Oxygen/Argon	11		1.5		ND	1.5	ND	1.6	ND	1.6		
Nitrogen	65		3.1		11	3.1	7.0	3.2	6.1	3.2		
Methane	3.8		0.0031		22	0.0031	25	0.0032	9.7	0.0032		
Carbon Monoxide	0.0059		0.0031		0.053	0.0031	0.024	0.0032	0.087	0.0032		

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
 Attn: Mike Lambrich
 Project Name: Bridgeton Landfill
 Project No.: NA
 Date Received: 04/16/20
 Matrix: Air
 Reporting Units: % v/v

ASTM D1946


Lab No.:	L041602-113	L041602-114	L041602-115	L041602-116				
Client Sample I.D.:	GEW 238	GEW 16R	GEW 147	GEW 137				
Date/Time Sampled:	4/9/20 10:06	4/9/20 14:18	4/9/20 14:28	4/9/20 14:43				
Date/Time Analyzed:	4/20/20 8:32	4/20/20 8:47	4/20/20 9:02	4/20/20 9:17				
QC Batch No.:	200419GC8A2	200419GC8A2	200419GC8A2	200419GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	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	25	3.2	26	3.2	14	3.1	ND d	0.032
Carbon Dioxide	64	0.032	58	0.032	45	0.031	42	0.032
Oxygen/Argon	ND	1.6	ND	1.6	3.1	1.5	ND	1.6
Nitrogen	3.3	3.2	6.6	3.2	24	3.1	21	3.2
Methane	5.3	0.0032	8.2	0.0032	14	0.0031	36	0.0032
Carbon Monoxide	0.078	0.0032	0.078	0.0032	0.044	0.0031	ND	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v


ASTM D1946

Lab No.:	L041602-117	L041602-118	L041602-119	L041602-120				
Client Sample I.D.:	GEW 78R	GEW 236	GEW 135	GEW 227				
Date/Time Sampled:	4/10/20 10:05	4/10/20 10:18	4/10/20 10:44	4/10/20 10:55				
Date/Time Analyzed:	4/20/20 9:31	4/20/20 9:46	4/20/20 10:01	4/20/20 10:15				
QC Batch No.:	200419GC8A2	200419GC8A2	200419GC8A2	200419GC8A2				
Analyst Initials:	CM	M	CM	CM				
Dilution Factor:	2.9	3.4	3.0	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	11	2.9	31	3.4	26	3.0	20	3.0
Carbon Dioxide	27	0.029	41	0.034	50	0.030	39	0.030
Oxygen/Argon	1.6	1.4	4.1	1.7	1.7	1.5	2.7	1.5
Nitrogen	51	2.9	20	3.4	19	3.0	36	3.0
Methane	8.6	0.0029	2.9	0.0034	3.5	0.0030	1.6	0.0030
Carbon Monoxide	0.040	0.0029	0.032	0.0034	0.069	0.0030	0.047	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date: 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-121	L041602-122	L041602-123	L041602-124				
Client Sample I.D.:	GEW 233	GEW 134	GEW 82R	GEW 132				
Date/Time Sampled:	4/10/20 11:07	4/10/20 13:32	4/10/20 13:51	4/10/20 14:01				
Date/Time Analyzed:	4/20/20 10:30	4/20/20 10:44	4/20/20 10:59	4/20/20 13:07				
QC Batch No.:	200419GC8A2	200419GC8A2	200419GC8A2	200420GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	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	22	2.8	7.9	3.1	17	3.1	9.9	3.1
Carbon Dioxide	38	0.028	35	0.031	34	0.031	31	0.031
Oxygen/Argon	4.0	1.4	4.4	1.5	ND	1.5	2.7	1.5
Nitrogen	36	2.8	44	3.1	40	3.1	41	3.1
Methane	0.68	0.0028	8.0	0.0031	7.3	0.0031	15	0.0031
Carbon Monoxide	0.052	0.0028	0.028	0.0031	0.055	0.0031	0.047	0.0031

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-125	L041602-126	L041602-127	L041602-128				
Client Sample I.D.:	GEW 234	GEW 118	GEW 19A	GEW 133				
Date/Time Sampled:	4/10/20 14:11	4/10/20 14:22	4/10/20 14:32	4/10/20 14:43				
Date/Time Analyzed:	4/20/20 13:21	4/20/20 13:36	4/20/20 13:50	4/20/20 14:05				
QC Batch No.:	200420GC8A1	200420GC8A1	200420GC8A1	200420GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.2	3.2	3.2	3.2				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	27	3.2	34	3.2	18	3.2	27	3.2
Carbon Dioxide	50	0.032	58	0.032	55	0.032	65	0.032
Oxygen/Argon	ND	1.6	ND	1.6	5.5	1.6	ND	1.6
Nitrogen	12	3.2	3.2	3.2	19	3.2	3.9	3.2
Methane	7.9	0.0032	1.8	0.0032	0.66	0.0032	1.2	0.0032
Carbon Monoxide	0.11	0.0032	0.064	0.0032	0.087	0.0032	0.13	0.0032

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-129	L041602-130	L041602-131	L041602-132				
Client Sample I.D.:	GEW 18B	GEW 120	GEW 185	GEW 121				
Date/Time Sampled:	4/13/20 9:57	4/13/20 10:10	4/13/20 10:21	4/13/20 10:54				
Date/Time Analyzed:	4/20/20 14:19	4/20/20 14:34	4/20/20 14:49	4/20/20 15:03				
QC Batch No.:	200420GC8A1	200420GC8A1	200420GC8A1	200420GC8A1				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.9	2.9	2.9	2.9				
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	24	2.9	0.17 d	0.029	ND d	0.029	6.3	2.9
Carbon Dioxide	44	0.029	49	0.029	58	0.029	55	0.029
Oxygen/Argon	2.5	1.4	ND	1.4	ND	1.4	ND	1.4
Nitrogen	23	2.9	ND	2.9	ND	2.9	3.9	2.9
Methane	6.2	0.0029	48	0.0029	39	0.0029	33	0.0029
Carbon Monoxide	0.063	0.0029	ND	0.0029	ND	0.0029	0.021	0.0029

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-133	L041602-134	L041602-135	L041602-136				
Client Sample I.D.:	GEW 235	GEW 122	GEW 123	GEW 163				
Date/Time Sampled:	4/13/20 11:03	4/13/20 13:26	4/13/20 13:37	4/13/20 13:46				
Date/Time Analyzed:	4/20/20 15:18	4/20/20 17:15	4/20/20 17:30	4/20/20 17:44				
QC Batch No.:	200420GC8A1	200420GC8A2	200420GC8A2	200420GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	3.0	3.0	2.9				
ANALYTE	Result	RL	Result	RL	Result	RL	Result	RL
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v
Hydrogen	12	3.0	6.9	3.0	1.8 d	0.030	4.1 d	0.029
Carbon Dioxide	53	0.030	37	0.030	59	0.030	56	0.029
Oxygen/Argon	ND	1.5	ND	1.5	ND	1.5	ND	1.4
Nitrogen	8.1	3.0	18	3.0	9.6	3.0	12	2.9
Methane	25	0.0030	38	0.0030	29	0.0030	27	0.0029
Carbon Monoxide	0.032	0.0030	0.026	0.0030	0.025	0.0030	0.013	0.0029

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946


Lab No.:	L041602-137	L041602-138	L041602-139	L041602-140				
Client Sample I.D.:	GEW 164	GEW 124	GEW 165	GEW 125				
Date/Time Sampled:	4/13/20 13:55	4/13/20 14:12	4/13/20 14:33	4/13/20 14:43				
Date/Time Analyzed:	4/20/20 17:59	4/20/20 18:14	4/20/20 18:28	4/20/20 18:43				
QC Batch No.:	200420GC8A2	200420GC8A2	200420GC8A2	200420GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	3.0	2.8	2.9	3.0				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	0.072 d	0.030	ND d	0.028	7.9	2.9	2.1 d	0.030
Carbon Dioxide	49	0.030	37	0.028	45	0.029	56	0.030
Oxygen/Argon	ND	1.5	4.2	1.4	4.9	1.4	ND	1.5
Nitrogen	18	3.0	15	2.8	25	2.9	6.1	3.0
Methane	31	0.0030	44	0.0028	17	0.0029	35	0.0030
Carbon Monoxide	ND	0.0030	ND	0.0028	0.029	0.0029	0.028	0.0030

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-141	L041602-142	L041602-143	L041602-144				
Client Sample I.D.:	GEW 166	GEW 131	GEW 126	GEW 130				
Date/Time Sampled:	4/13/20 14:53	4/14/20 8:13	4/14/20 8:24	4/14/20 8:34				
Date/Time Analyzed:	4/20/20 18:57	4/20/20 19:12	4/20/20 19:27	4/20/20 19:41				
QC Batch No.:	200420GC8A2	200420GC8A2	200420GC8A2	200420GC8A2				
Analyst Initials:	CM	CM	CM	CM				
Dilution Factor:	2.8	2.8	2.8	2.8				
ANALYTE	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v	Result % v/v	RL % v/v
Hydrogen	33	2.8	11	2.8	12	2.8	14	2.8
Carbon Dioxide	55	0.028	46	0.028	50	0.028	45	0.028
Oxygen/Argon	ND	1.4	ND	1.4	2.0	1.4	ND	1.4
Nitrogen	4.1	2.8	ND	2.8	16	2.8	17	2.8
Methane	5.5	0.0028	39	0.0028	20	0.0028	22	0.0028
Carbon Monoxide	0.22	0.0028	0.070	0.0028	0.073	0.0028	0.093	0.0028

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



Client: Republic Services
Attn: Mike Lambrich
Project Name: Bridgeton Landfill
Project No.: NA
Date Received: 04/16/20
Matrix: Air
Reporting Units: % v/v

ASTM D1946

Lab No.:	L041602-145	L041602-146	L041602-147					
Client Sample I.D.:	GEW 168	GEW 169	GEW 127					
Date/Time Sampled:	4/14/20 8:48	4/14/20 8:59	4/14/20 9:08					
Date/Time Analyzed:	4/20/20 19:56	4/20/20 20:10	4/20/20 20:25					
QC Batch No.:	200420GC8A2	200420GC8A2	200420GC8A2					
Analyst Initials:	CM	CM	CM					
Dilution Factor:	2.8	2.8	2.8					
ANALYTE	Result	RL	Result	RL	Result	RL		
	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v		
Hydrogen	3.1 d	0.028	11	2.8	12	2.8		
Carbon Dioxide	41	0.028	47	0.028	45	0.028		
Oxygen/Argon	5.7	1.4	2.0	1.4	4.5	1.4		
Nitrogen	22	2.8	23	2.8	26	2.8		
Methane	28	0.0028	17	0.0028	12	0.0028		
Carbon Monoxide	0.010	0.0028	0.057	0.0028	0.081	0.0028		

Results normalized including non-methane hydrocarbons

ND = Not Detected (below RL)

RL = Reporting Limit

d = Results obtained from a secondary analysis. QC Batch: 200421GC8A4

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200417GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/17/20 9:12			4/17/20 8:28		4/17/20 8:43					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.08	82	4.05	81	0.8	70	130	30
Carbon Dioxide	ND	0.010	10	9.77	97	9.74	97	0.3	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.1	70	130	30
Nitrogen	ND	1.0	70	69.1	99	69.0	99	0.2	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0964	96	0.0966	97	0.2	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200417GC8A2
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

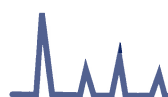
Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/17/20 19:23			4/17/20 18:39		4/17/20 18:54					
Analyst Initials:	AS			AS		AS					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	3.80	76	3.71	74	2.4	70	130	30
Carbon Dioxide	ND	0.010	10	9.69	97	9.69	97	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.6	105	15.6	105	0.1	70	130	30
Nitrogen	ND	1.0	70	70.1	100	70.1	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.102	102	0.3	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0955	95	0.0953	95	0.2	70	130	30

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200418GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/18/20 1:14			4/18/20 13:17		4/18/20 14:01					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.93	99	4.92	98	0.2	70	130	30
Carbon Dioxide	ND	0.010	10	10.4	104	10.4	104	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.2	103	0.0	70	130	30
Nitrogen	ND	1.0	70	69.2	99	69.1	99	0.2	70	130	30
Methane	ND	0.0010	0.10	0.107	107	0.106	106	0.9	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.102	102	0.102	102	0.9	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20


The cover letter is an integral part of this analytical report

QC Batch No: 200418GC8A2
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/18/20 15:43			4/18/20 14:59		4/18/20 15:14					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.82	96	4.89	98	1.4	70	130	30
Carbon Dioxide	ND	0.010	10	10.4	104	10.4	104	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	102	15.2	102	0.1	70	130	30
Nitrogen	ND	1.0	70	68.9	98	69.0	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.105	105	0.105	105	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.102	102	0.102	102	0.2	70	130	30

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200418GC8A3
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS		LCSD						
Date Analyzed:	4/18/20 22:02		4/18/20 21:33		4/18/20 21:48						
Analyst Initials:	CM		CM		CM						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.73	95	4.72	94	0.3	70	130	30
Carbon Dioxide	ND	0.010	10	10.3	103	10.3	103	0.0	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.2	103	0.0	70	130	30
Nitrogen	ND	1.0	70	69.0	99	68.9	99	0.0	70	130	30
Methane	ND	0.0010	0.10	0.106	106	0.106	106	0.2	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.104	104	0.104	104	0.0	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20


The cover letter is an integral part of this analytical report

QC Batch No: 200419GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/19/20 13:27			4/19/20 12:58		4/19/20 13:13					
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	4.48	90	4.48	90	0.0	70	130	30
Carbon Dioxide	ND	0.010	10	10.2	102	10.2	102	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.3	104	15.4	104	0.0	70	130	30
Nitrogen	ND	1.0	70	69.3	99	69.3	99	0.0	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.105	105	0.104	104	0.6	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

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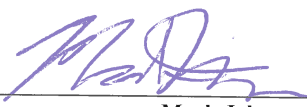
QC Batch No: 200419GC8A2
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/19/20 20:02			4/19/20 19:32		4/19/20 19:47					
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	4.34	87	4.32	86	0.6	70	130	30
Carbon Dioxide	ND	0.010	10	10.1	101	10.1	101	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	15.4	104	15.4	104	0.1	70	130	30
Nitrogen	ND	1.0	70	69.5	99	69.5	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.104	104	0.103	103	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.104	104	0.104	104	0.1	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200420GC8A1
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS		LCSD						
Date Analyzed:	4/20/20 12:47		4/20/20 12:17		4/20/20 12:33						
Analyst Initials:	CM		CM		CM						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	3.95	79	4.00	80	1.2	70	130	30
Carbon Dioxide	ND	0.010	10	9.78	98	9.83	98	0.5	70	130	30
Oxygen/Argon	ND	0.50	15	15.6	105	15.7	106	0.3	70	130	30
Nitrogen	ND	1.0	70	70.0	100	70.2	100	0.3	70	130	30
Methane	ND	0.0010	0.10	0.103	103	0.103	103	0.4	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.104	104	0.104	104	0.7	70	130	30

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200420GC8A2
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/20/20 16:46			4/20/20 16:17		4/20/20 16:31					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0					
								Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	4.92	98	4.88	98	0.8	70	130	30
Carbon Dioxide	ND	0.010	10	10.4	104	10.4	104	0.1	70	130	30
Oxygen/Argon	ND	0.50	15	15.2	103	15.3	103	0.1	70	130	30
Nitrogen	ND	1.0	70	69.5	99	69.5	99	0.1	70	130	30
Methane	ND	0.0010	0.10	0.106	106	0.106	106	0.0	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.107	107	0.107	107	0.2	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20


The cover letter is an integral part of this analytical report

QC Batch No: 200421GC8A1
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/21/20 12:19			4/21/20 12:09		4/21/20 12:14					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0					
								Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	0.779	78	0.781	78	0.2	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20


The cover letter is an integral part of this analytical report

QC Batch No: 200421GC8A2
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS			LCSD				
Date Analyzed:	4/21/20 14:26			4/21/20 14:16			4/21/20 14:21				
Analyst Initials:	CM			CM			CM				
Dilution Factor:	1.0			1.0			1.0				
									Limits		
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	0.797	80	0.800	80	0.3	70	130	30

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report




QC Batch No: 200421GC8A3
 Matrix: Air
 Reporting Units: % v/v

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

Lab No.:	METHOD BLANK		LCS	LCS	LCS	LCS			Limits			
Date Analyzed:	4/21/20 16:41		4/21/20 16:30			4/21/20 17:11						
Analyst Initials:	CM		CM			CM						
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	0.803	80	0.774	77	3.6	70	130	30	

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

Reviewed/Approved By: 
 Mark Johnson
 Operations Manager

Date 4-23-20

The cover letter is an integral part of this analytical report



QC Batch No: 200421GC8A4
Matrix: Air
Reporting Units: % v/v

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

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/21/20 18:15			4/21/20 18:05		4/21/20 18:10					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0					
								Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	0.010	1.0	0.802	80	0.799	80	0.4	70	130	30

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: _____



Mark Johnson
Operations Manager

Date _____

4-23-20

The cover letter is an integral part of this analytical report





May 1, 2020

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



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

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

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

LABORATORY TEST RESULTS

Project Reference: Bridgeton Landfill
Lab Number: L042902-01

Enclosed are results for sample(s) received 4/29/20 by Air Technology Laboratories. Samples were received intact. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

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

Preliminary results were e-mailed to Mike Lambrich, Erin Fanning and Anthony Kimutis; Michele Clark, Dustin Thoenen and Don Murphy, Weaver Consultants Group; and Jan Feezor, Feezor Engineering on 4/30/20.

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

Sincerely,

A handwritten signature in blue ink that reads "m.j. f".

Mark Johnson
Operations Manager
MJohnson@AirTechLabs.com

Enclosures

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



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

CHAIN OF CUSTODY RECORD

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

Project No.: _____

Project Name: Bridgeton Landfill

Report To: Mike Lambrich

Company: Republic Services

Street: 13570 St. Charles Rock Rd.

City/State/Zip: Bridgeton , MO 63044

Phone & Fax: 314-683-3921

e-mail: MLambrich@republicservices.com

BILLING	ANALYSIS REQUEST
P.O. No.: PO7112802	D1946 + CO, H2
Bill to: Republic Services	
Attn: Mike Lambrich	
13570 St. Charles Rock Rd. Bridgeton, MO 63044	

LAB USE ONLY	Cannister Pressure ("hg)			SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	CONTAINER QTY/TYPE	MATRIX	PRESERVATION	D1946 + CO, H2	LAB INITIALS
	Cannister ID	Sample Start	Sample End								
L042902-01	01400	-20.3	-5	GEW 2S	4/28/2020	9:48	C	LFG	NA	X	5/1/20

AUTHORIZATION TO PERFORM WORK: Dave Penoyer	COMPANY: Republic Services
SAMPLED BY: Anthony Kimutis	COMPANY: Republic Services
RELINQUISHED BY: <i>Ante Voh</i>	DATE/TIME: 4/28/2020
RELINQUISHED BY: <i>FEDEX</i>	DATE/TIME: 4/29/20 0957
RELINQUISHED BY: _____	DATE/TIME: _____
RECEIVED BY: <i>FEDEX</i>	DATE/TIME: 4/28/2020
RECEIVED BY: <i>Aban De La Ossa</i>	DATE/TIME: 4/29/20 0957
RECEIVED BY: _____	DATE/TIME: _____

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

COMMENTS

QC Batch No: 200429GC8A1
 Matrix: Air
 Reporting Units: % v/v

**ASTM D1946
 LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK		LCS		LCSD						
Date Analyzed:	4/29/20 14:10		4/29/20 14:00		4/29/20 14:05						
Analyst Initials:	CM		CM		CM						
Dilution Factor:	1.0		1.0		1.0		Limits				
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Helium	ND	1.0	1.0	0.820	82	0.814	81	0.7	70	130	30

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

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

Date 4/30/20

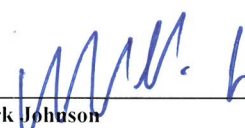
The cover letter is an integral part of this analytical report

QC Batch No: 200429GC8A2
Matrix: Air
Reporting Units: % v/v

**ASTM D1946
LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD					
Date Analyzed:	4/29/20 16:56			4/29/20 17:10		4/29/20 17:25					
Analyst Initials:	CM			CM		CM					
Dilution Factor:	1.0			1.0		1.0		Limits			
ANALYTE	Result % v/v	RL % v/v	SPIKE AMT. % v/v	Result % v/v	% Rec.	Result % v/v	% Rec.	RPD %	Low %Rec	High %Rec	Max. RPD
Hydrogen	ND	1.0	5.0	5.01	100	5.05	101	0.6	70	130	30
Carbon Dioxide	ND	0.010	10	10.7	106	10.6	106	0.2	70	130	30
Oxygen/Argon	ND	0.50	15	15.3	103	15.3	103	0.0	70	130	30
Nitrogen	ND	1.0	70	69.7	100	69.6	100	0.1	70	130	30
Methane	ND	0.0010	0.10	0.0984	98	0.0983	98	0.1	70	130	30
Carbon Monoxide	ND	0.0010	0.10	0.0981	98	0.0983	98	0.2	70	130	30

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

Reviewed/Approved By: 
Mark Johnson
Operations Manager

Date 4/30/20

The cover letter is an integral part of this analytical report



ATTACHMENT D

GAS WELLFIELD DATA

ATTACHMENT D-1

WELLFIELD DATA TABLE

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-002	4/2/2020 11:03:58 AM	55.1	41.1	0.0	3.8	110.5	110.5	17.70	17.70	-0.41	-0.41	-14.36
GEW-002	4/7/2020 3:21:26 PM	55.3	41.2	0.0	3.5	112.5	112.6	18.87	15.01	-0.22	-0.18	-14.53
GEW-002	4/7/2020 3:27:25 PM	54.5	42.4	0.0	3.1	112.5	112.5	17.26	23.49	-0.20	-0.24	-13.31
GEW-002	4/14/2020 2:42:00 PM	55.1	41.2	0.0	3.7	107.8	107.8	21.13	23.74	-0.36	-0.35	-13.73
GEW-002	4/21/2020 10:59:11 AM	55.3	43.5	0.0	1.2	105.5	105.5	26.56	22.36	-0.30	-0.32	-13.10
GEW-002	4/28/2020 11:36:36 AM	53.8	42.8	0.0	3.4	111.0	111.0	29.04	29.04	-0.12	-0.12	-13.73
GEW-003	4/2/2020 11:11:46 AM	53.9	41.0	0.0	5.1	111.0	111.0	12.94	12.94	-0.38	-0.38	-13.44
GEW-003	4/8/2020 10:34:32 AM	53.6	41.0	0.0	5.4	115.8	116.0	8.90	8.90	-0.61	-0.61	-13.69
GEW-003	4/8/2020 10:40:09 AM	53.8	41.0	0.0	5.2	115.5	115.5	11.07	11.07	-0.59	-0.63	-13.40
GEW-003	4/15/2020 8:03:50 AM	55.6	39.7	0.0	4.7	101.1	101.1	14.39	10.88	-0.54	-0.51	-13.44
GEW-003	4/21/2020 1:56:15 PM	53.7	41.4	0.0	4.9	108.5	108.7	16.88	16.88	-0.57	-0.57	-13.69
GEW-003	4/28/2020 1:58:43 PM	53.4	41.0	0.0	5.6	115.3	115.4	30.43	28.59	-0.03	-0.02	-13.98
GEW-004	4/2/2020 11:14:14 AM	53.0	41.0	0.0	6.0	109.2	109.2	34.92	34.81	-0.39	-0.37	-13.31
GEW-004	4/7/2020 3:33:22 PM	53.4	40.3	0.0	6.3	111.5	112.4	18.50	19.28	-0.05	-0.05	-13.65
GEW-004	4/7/2020 3:39:42 PM	53.5	39.9	0.0	6.6	112.2	112.0	9.09	10.02	-0.05	-0.04	-13.40
GEW-004	4/14/2020 2:47:32 PM	53.5	39.2	0.0	7.3	106.5	106.5	8.02	7.95	-0.01	-0.02	-13.61
GEW-004	4/21/2020 11:02:23 AM	52.4	41.1	0.0	6.5	106.7	106.6	39.92	37.95	-1.00	-1.00	-13.35
GEW-004	4/28/2020 2:04:20 PM	53.4	39.3	0.0	7.3	111.7	111.7	8.74	9.58	-0.12	-0.13	-13.48
GEW-005	4/2/2020 11:28:11 AM	53.3	38.7	0.0	8.0	77.3	77.3	14.99	16.85	-0.02	-0.01	-13.48
GEW-005	4/8/2020 10:45:54 AM	53.9	38.4	0.0	7.7	84.4	84.4	29.38	26.51	-0.18	-0.19	-13.56
GEW-005	4/8/2020 10:52:13 AM	54.1	37.9	0.0	8.0	82.9	82.8	9.18	9.18	-0.19	-0.19	-13.52
GEW-005	4/15/2020 8:10:24 AM	55.1	39.6	0.0	5.3	67.9	67.9	29.85	27.94	-0.02	-0.02	-13.48
GEW-005	4/21/2020 2:21:32 PM	51.7	37.3	0.0	11.0	77.5	77.5	6.22	8.35	-0.12	-0.11	-13.65
GEW-005	4/28/2020 2:15:51 PM	56.5	39.3	0.0	4.2	85.4	85.4	23.28	19.92	-0.08	-0.06	-13.35
GEW-006	4/2/2020 11:34:19 AM	55.4	39.1	0.0	5.5	81.2	81.0	17.97	14.67	-0.14	-0.18	-13.48
GEW-006	4/8/2020 11:05:36 AM	56.0	38.5	0.0	5.5	83.3	83.3	18.76	17.05	-0.37	-0.37	-13.48
GEW-006	4/8/2020 11:10:39 AM	56.3	37.9	0.0	5.8	81.2	80.3	19.79	16.63	-0.39	-0.37	-13.52
GEW-006	4/15/2020 8:16:44 AM	56.7	38.1	0.0	5.2	77.3	77.3	15.98	12.44	-0.28	-0.28	-13.86
GEW-006	4/21/2020 2:29:19 PM	55.0	38.8	0.0	6.2	81.0	81.0	37.79	37.79	-0.48	-0.48	-13.61
GEW-006	4/28/2020 2:21:25 PM	57.2	38.7	0.0	4.1	86.1	86.1	14.86	16.33	-0.19	-0.19	-13.77
GEW-007	4/1/2020 11:28:59 AM	55.8	41.7	0.0	2.5	91.0	91.0	9.85	9.47	-5.62	-5.50	-13.06
GEW-007	4/6/2020 3:31:06 PM	56.4	40.6	0.0	3.0	92.2	92.2	11.53	10.87	-4.86	-4.78	-13.44
GEW-007	4/6/2020 3:38:19 PM	55.8	41.8	0.0	2.4	92.1	92.1	10.17	6.67	-5.03	-5.07	-13.40
GEW-007	4/14/2020 10:07:03 AM	56.1	40.9	0.0	3.0	86.9	87.0	19.39	16.52	-6.43	-6.43	-13.73
GEW-007	4/21/2020 8:41:15 AM	56.5	40.0	0.0	3.5	86.8	86.8	21.88	15.11	-6.81	-6.72	-13.06
GEW-007	4/28/2020 10:29:00 AM	55.3	41.9	0.0	2.8	91.9	92.0	11.75	13.56	-4.44	-4.40	-13.23
GEW-008	4/1/2020 11:33:33 AM	53.2	43.6	0.0	3.2	112.1	111.8	13.51	6.70	-0.94	-0.94	-13.52
GEW-008	4/6/2020 3:42:15 PM	52.9	43.5	0.0	3.6	112.9	112.8	36.71	36.81	-0.61	-0.61	-13.48
GEW-008	4/6/2020 3:52:18 PM	53.0	43.4	0.0	3.6	113.2	113.2	12.92	15.24	-0.56	-0.55	-13.61
GEW-008	4/14/2020 10:10:25 AM	54.1	41.9	0.0	4.0	107.7	107.8	18.13	15.52	-0.87	-0.85	-13.94
GEW-008	4/21/2020 8:44:42 AM	53.4	42.8	0.0	3.8	107.8	107.8	25.32	23.84	-1.31	-1.28	-13.65

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-008	4/28/2020 10:32:21 AM	53.0	43.1	0.0	3.9	111.0	111.0	24.07	21.18	-0.69	-0.64	-13.44
GEW-009	4/1/2020 11:36:39 AM	50.1	42.8	0.0	7.1	121.8	121.5	4.78	4.79	-0.07	-0.08	-13.14
GEW-009	4/7/2020 9:05:32 AM	51.3	42.3	0.0	6.4	121.3	121.4	8.42	7.52	-0.06	-0.07	-13.35
GEW-009	4/7/2020 9:12:53 AM	51.1	41.8	0.0	7.1	122.3	122.1	10.32	10.32	-0.06	-0.07	-13.48
GEW-009	4/14/2020 10:13:30 AM	50.4	41.8	0.0	7.8	114.8	115.3	10.42	10.07	-0.09	-0.09	-13.73
GEW-009	4/21/2020 8:48:05 AM	48.0	40.3	0.0	11.7	114.1	114.3	18.25	12.62	-0.29	-0.27	-13.44
GEW-009	4/21/2020 8:49:43 AM	47.9	40.2	0.0	11.9	112.9	113.3	4.67	5.39	-0.25	-0.26	-13.44
GEW-009	4/28/2020 10:36:25 AM	52.9	44.2	0.0	2.9	121.5	121.6	31.63	28.41	0.02	0.02	-13.27
GEW-009	4/28/2020 10:38:52 AM	52.9	44.0	0.0	3.1	121.8	NR	11.26	19.24	0.09	0.05	-13.40
GEW-009	4/29/2020 8:23:19 AM	53.5	43.1	0.0	3.4	117.6	118.1	20.26	13.42	-0.13	-0.09	-13.48
GEW-010	4/8/2020 9:15:28 AM	55.1	42.4	0.0	2.5	91.7	91.9	1.95	1.60	-5.23	-5.23	-19.53
GEW-010	4/8/2020 9:20:55 AM	55.3	41.6	0.0	3.1	92.4	92.6	2.42	2.42	-5.40	-5.40	-19.28
GEW-010	4/16/2020 1:09:59 PM	56.1	42.4	0.0	1.5	88.6	88.6	2.73	3.17	-5.15	-5.15	-18.39
GEW-010	4/21/2020 2:44:35 PM	56.9	42.5	0.0	0.6	88.2	88.2	3.78	3.42	-5.62	-5.62	-19.46
GEW-010	4/29/2020 9:56:42 AM	56.2	41.7	0.0	2.1	71.4	71.4	1.17	1.66	-5.40	-5.40	-20.17
GEW-013A	4/7/2020 8:50:12 AM	32.6	57.2	0.0	10.2	188.3	188.0	35.01	35.01	-11.82	-11.82	-19.62
GEW-013A	4/7/2020 8:56:17 AM	34.9	58.9	0.0	6.2	188.3	188.2	34.97	35.27	-11.95	-11.95	-19.53
GEW-013A	4/17/2020 10:13:20 AM	16.2	56.8	0.0	27.0	185.7	185.2	32.71	32.55	-12.62	-12.62	-19.92
GEW-013A	4/17/2020 10:14:34 AM	15.9	55.4	0.0	28.7	185.7	185.7	32.11	32.18	-12.62	-12.62	-19.75
GEW-015	4/9/2020 1:32:00 PM	24.1	48.0	0.1	27.8	94.6	94.6	3.41	3.46	-2.94	-2.94	-18.99
GEW-015	4/9/2020 1:38:20 PM	24.1	48.6	0.0	27.3	96.2	96.5	4.21	4.12	-3.04	-3.04	-18.90
GEW-015	4/22/2020 2:53:47 PM	27.4	50.9	0.1	21.6	105.5	105.3	6.53	5.94	-2.82	-2.81	-18.99
GEW-016R	4/9/2020 2:15:09 PM	9.8	57.2	0.0	33.0	161.1	160.7	9.42	9.41	-2.97	-2.96	-19.45
GEW-016R	4/9/2020 2:21:31 PM	10.4	54.0	0.0	35.6	162.0	161.6	9.19	9.17	-2.95	-2.94	-19.32
GEW-016R	4/20/2020 10:46:14 AM	15.1	55.5	0.0	29.4	169.0	169.0	10.31	10.30	-2.95	-2.96	-17.72
GEW-016R	4/20/2020 10:47:11 AM	14.9	57.5	0.0	27.6	169.0	169.0	10.39	10.39	-2.94	-2.94	-17.63
GEW-018B	4/13/2020 9:54:09 AM	7.7	43.2	1.3	47.8	184.0	184.0	13.42	13.40	-4.98	-4.98	-20.00
GEW-018B	4/13/2020 10:00:38 AM	7.6	45.1	1.4	45.9	183.9	183.9	13.20	13.15	-4.98	-4.98	-19.92
GEW-018B	4/22/2020 9:05:56 AM	4.9	48.4	0.9	45.8	194.3	194.1	14.48	14.44	-2.39	-2.38	-20.00
GEW-018B	4/22/2020 9:08:19 AM	4.9	46.0	0.8	48.3	194.3	194.2	13.82	14.34	-2.37	-2.38	-19.45
GEW-019A	4/10/2020 2:29:43 PM	0.9	56.4	4.2	38.5	79.4	79.6	1.58	3.71	-17.73	-17.73	-18.73
GEW-019A	4/10/2020 2:35:04 PM	0.9	50.2	5.4	43.5	74.1	74.1	5.30	3.91	-17.73	-17.73	-18.60
GEW-019A	4/10/2020 2:35:58 PM	1.0	51.3	4.9	42.8	73.6	73.6	3.20	3.20	-17.39	-17.39	-18.56
GEW-019A	4/23/2020 9:13:37 AM	1.1	55.3	3.4	40.2	56.2	56.2	0.64	0.98	-17.90	-17.90	-19.15
GEW-039	4/9/2020 9:21:33 AM	23.3	29.8	2.0	44.9	105.5	105.4	13.22	11.76	-0.13	-0.12	-20.08
GEW-039	4/9/2020 9:27:25 AM	23.6	29.5	2.0	44.9	105.2	105.3	15.25	13.11	-0.10	-0.10	-19.83
GEW-039	4/16/2020 2:14:25 PM	29.2	32.4	0.5	37.9	106.0	105.9	4.94	7.31	-0.17	-0.16	-19.41
GEW-039	4/22/2020 10:25:44 AM	27.7	34.6	0.8	36.9	104.8	104.8	16.51	16.51	-0.09	-0.09	-18.79
GEW-039	4/30/2020 8:53:29 AM	22.6	30.3	1.9	45.2	103.5	103.5	8.55	8.11	-0.13	-0.12	-20.00
GEW-040	4/2/2020 10:33:57 AM	55.9	33.3	0.0	10.8	63.5	63.4	11.61	11.61	-0.52	-0.52	-13.14
GEW-040	4/7/2020 10:43:33 AM	52.3	35.9	0.0	11.8	75.7	75.7	2.64	2.64	-0.35	-0.38	-12.59

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-040	4/7/2020 10:50:12 AM	53.1	34.4	0.0	12.5	76.5	76.6	10.00	8.31	-0.06	-0.05	-12.72
GEW-040	4/14/2020 10:41:24 AM	56.6	33.8	0.0	9.6	56.5	56.4	10.99	10.99	-0.27	-0.27	-13.27
GEW-040	4/21/2020 10:07:43 AM	56.3	36.4	0.0	7.3	64.7	64.6	2.44	2.09	-0.34	-0.35	-12.81
GEW-040	4/28/2020 11:07:48 AM	51.8	36.0	0.0	12.2	84.4	84.4	4.54	5.99	-0.30	-0.30	-12.81
GEW-041R	4/1/2020 2:06:42 PM	54.4	35.4	0.0	10.2	75.2	75.4	14.70	14.68	-0.04	-0.04	-13.06
GEW-041R	4/7/2020 10:54:56 AM	52.3	36.5	0.0	11.2	76.4	76.4	5.50	5.50	-0.02	-0.03	-12.93
GEW-041R	4/7/2020 11:00:56 AM	52.3	36.1	0.0	11.6	79.8	79.9	7.29	7.29	-0.02	-0.02	-12.89
GEW-041R	4/14/2020 10:44:25 AM	53.4	35.9	0.0	10.7	68.8	68.9	16.59	16.59	-0.17	-0.18	-13.48
GEW-041R	4/14/2020 10:45:43 AM	53.1	36.2	0.0	10.7	68.7	68.6	17.52	17.52	-0.14	-0.14	-13.14
GEW-041R	4/21/2020 10:10:50 AM	55.0	35.8	0.0	9.2	71.6	71.6	5.59	3.96	-0.14	-0.14	-12.81
GEW-041R	4/28/2020 11:10:33 AM	53.8	36.2	0.0	10.0	89.6	89.6	25.18	21.79	-0.05	-0.02	-12.81
GEW-042R	4/1/2020 2:19:38 PM	56.3	37.9	0.0	5.8	103.0	102.9	10.79	12.07	-3.13	-3.14	-13.10
GEW-042R	4/7/2020 11:05:38 AM	54.5	40.0	0.0	5.5	102.5	102.5	8.50	7.59	-2.93	-2.93	-12.85
GEW-042R	4/7/2020 11:12:15 AM	54.7	39.5	0.0	5.8	103.1	103.1	9.31	8.05	-2.85	-2.86	-12.01
GEW-042R	4/14/2020 10:48:41 AM	53.1	38.3	0.0	8.6	97.0	96.7	8.13	8.13	-3.55	-3.55	-13.18
GEW-042R	4/21/2020 10:14:10 AM	56.7	39.6	0.0	3.7	100.1	100.1	33.13	29.14	-3.21	-3.13	-13.27
GEW-042R	4/28/2020 11:13:18 AM	55.6	39.4	0.0	5.0	103.5	103.5	22.03	22.03	-3.04	-3.04	-13.14
GEW-043R	4/2/2020 10:39:32 AM	53.9	39.6	0.0	6.5	114.5	114.3	15.43	16.77	-1.01	-1.08	-13.69
GEW-043R	4/7/2020 11:18:42 AM	53.1	40.8	0.0	6.1	115.0	115.5	17.99	18.77	-0.90	-0.91	-13.61
GEW-043R	4/7/2020 11:24:21 AM	52.6	41.3	0.0	6.1	115.5	115.5	16.95	16.30	-0.90	-0.91	-12.97
GEW-043R	4/14/2020 10:51:39 AM	53.3	40.8	0.0	5.9	113.0	113.0	24.63	19.38	-1.18	-1.11	-13.65
GEW-043R	4/21/2020 10:16:59 AM	54.6	39.9	0.0	5.5	112.7	112.7	33.21	30.27	-1.67	-1.61	-13.44
GEW-043R	4/28/2020 11:16:23 AM	53.8	40.7	0.0	5.5	114.8	114.8	29.75	27.74	-0.90	-0.88	-12.97
GEW-044	4/2/2020 10:42:49 AM	43.1	34.8	0.0	22.1	67.0	66.9	7.95	7.95	-0.09	-0.06	-13.14
GEW-044	4/7/2020 1:22:56 PM	51.5	36.6	0.0	11.9	79.8	79.6	10.75	9.21	-0.06	-0.05	-12.05
GEW-044	4/7/2020 1:28:56 PM	52.2	36.9	0.0	10.9	77.7	77.7	9.64	9.64	-0.03	-0.03	-13.06
GEW-044	4/14/2020 2:32:03 PM	44.5	33.7	0.0	21.8	67.5	67.7	17.98	14.04	-0.15	-0.12	-12.64
GEW-044	4/20/2020 1:36:56 PM	45.8	33.8	0.0	20.4	79.5	79.6	2.27	2.14	-0.21	-0.21	-13.10
GEW-044	4/20/2020 1:38:33 PM	45.7	33.8	0.0	20.5	79.6	79.6	0.52	0.52	-0.02	-0.04	-13.06
GEW-044	4/28/2020 11:19:39 AM	50.8	38.3	0.0	10.9	81.8	81.9	1.49	1.49	-0.10	-0.10	-12.68
GEW-045R	4/2/2020 10:50:59 AM	54.2	38.8	0.0	7.0	89.8	90.1	7.70	6.67	-4.19	-4.20	-13.06
GEW-045R	4/7/2020 1:52:51 PM	53.9	39.0	0.0	7.1	93.9	94.1	6.65	6.07	-3.90	-3.89	-13.06
GEW-045R	4/7/2020 1:59:22 PM	53.8	38.8	0.0	7.4	92.2	92.2	9.81	8.16	-3.92	-3.90	-13.56
GEW-045R	4/14/2020 2:34:59 PM	54.2	38.3	0.0	7.5	89.3	89.3	6.69	3.86	-3.44	-3.44	-13.02
GEW-045R	4/21/2020 10:45:59 AM	54.5	39.8	0.0	5.7	90.8	90.8	13.32	10.17	-4.47	-4.45	-12.85
GEW-045R	4/28/2020 11:29:38 AM	53.2	39.7	0.0	7.1	94.6	94.6	22.81	21.48	-4.01	-4.01	-12.81
GEW-046R	4/2/2020 10:54:01 AM	51.0	38.2	0.0	10.8	88.9	88.9	8.70	8.70	-0.20	-0.20	-13.48
GEW-046R	4/2/2020 10:55:14 AM	50.9	38.0	0.0	11.1	88.6	88.4	11.01	8.26	-0.18	-0.15	-13.27
GEW-046R	4/7/2020 2:04:57 PM	51.3	37.8	0.0	10.9	99.2	99.4	4.96	4.36	-0.01	-0.01	-13.06
GEW-046R	4/7/2020 2:12:11 PM	51.3	37.8	0.0	10.9	98.9	99.6	4.44	5.35	-0.01	-0.02	-13.18
GEW-046R	4/14/2020 2:39:08 PM	50.1	37.4	0.0	12.5	90.5	90.5	17.82	17.17	-0.03	-0.02	-13.31

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-046R	4/21/2020 10:49:05 AM	49.4	37.5	0.0	13.1	89.8	89.8	4.76	6.15	-0.46	-0.46	-12.81
GEW-046R	4/21/2020 10:50:38 AM	48.9	37.7	0.0	13.4	89.8	89.4	6.95	6.90	-0.40	-0.36	-12.81
GEW-046R	4/28/2020 11:32:33 AM	50.0	38.0	0.0	12.0	96.5	96.5	22.33	21.48	-0.06	-0.08	-12.81
GEW-047R	4/2/2020 11:21:19 AM	48.2	40.2	0.0	11.6	95.2	95.1	7.24	6.12	-0.08	-0.07	-13.27
GEW-047R	4/8/2020 10:05:29 AM	49.7	40.2	0.0	10.1	100.6	100.6	9.82	8.17	-0.16	-0.15	-12.76
GEW-047R	4/8/2020 10:11:21 AM	49.7	39.4	0.0	10.9	97.7	97.7	29.29	29.16	-0.17	-0.17	-12.81
GEW-047R	4/15/2020 8:07:47 AM	53.4	39.9	0.0	6.7	81.0	80.8	12.40	13.01	-0.17	-0.15	-13.14
GEW-047R	4/21/2020 2:11:24 PM	49.8	39.9	0.0	10.3	93.6	93.7	10.42	9.81	-0.16	-0.16	-13.44
GEW-047R	4/21/2020 2:12:54 PM	49.8	39.8	0.0	10.4	93.3	93.3	4.34	4.34	-0.18	-0.18	-13.10
GEW-047R	4/28/2020 2:11:01 PM	53.5	42.0	0.0	4.5	103.3	103.8	1.36	1.36	0.45	0.45	-13.14
GEW-047R	4/28/2020 2:12:20 PM	53.3	41.8	0.0	4.9	104.4	104.3	24.35	18.28	0.31	0.31	-12.97
GEW-047R	4/29/2020 8:32:27 AM	52.0	40.2	0.0	7.8	94.8	95.0	6.12	6.12	-0.12	-0.12	-13.31
GEW-048	4/2/2020 11:31:08 AM	54.6	39.6	0.0	5.8	95.7	95.6	16.64	15.47	-0.33	-0.34	-13.90
GEW-048	4/8/2020 10:54:58 AM	54.6	39.1	0.0	6.3	95.5	95.5	13.67	16.85	-0.54	-0.53	-13.23
GEW-048	4/8/2020 11:01:34 AM	54.6	39.0	0.0	6.4	97.9	97.9	14.69	15.67	-0.51	-0.51	-13.90
GEW-048	4/15/2020 8:13:00 AM	55.2	38.8	0.0	6.0	91.2	91.3	16.70	16.01	-0.40	-0.39	-13.77
GEW-048	4/21/2020 2:24:11 PM	54.7	38.9	0.0	6.4	94.6	94.6	22.56	22.06	-0.63	-0.62	-13.61
GEW-048	4/28/2020 2:18:37 PM	55.5	39.1	0.0	5.4	98.0	98.0	25.60	24.86	-0.39	-0.35	-13.73
GEW-049	4/2/2020 10:46:04 AM	47.9	36.6	0.0	15.5	72.8	73.1	22.01	21.10	-0.02	-0.02	-13.48
GEW-049	4/7/2020 1:35:25 PM	54.4	40.7	0.0	4.9	87.2	87.3	4.78	5.52	-0.01	-0.01	-11.84
GEW-049	4/7/2020 1:43:18 PM	54.0	40.4	0.0	5.6	87.9	87.9	7.29	6.75	-0.02	-0.02	-13.06
GEW-049	4/14/2020 10:59:02 AM	46.5	36.8	0.0	16.7	65.8	65.8	13.78	10.90	-0.03	-0.02	-13.14
GEW-049	4/21/2020 10:20:54 AM	47.0	37.3	0.0	15.7	72.4	72.5	13.10	13.10	-0.43	-0.43	-12.89
GEW-049	4/21/2020 10:22:10 AM	46.8	37.2	0.0	16.0	72.4	72.5	11.52	10.07	-0.42	-0.43	-12.93
GEW-049	4/28/2020 11:22:46 AM	54.1	41.6	0.0	4.3	88.4	88.4	9.43	10.20	0.27	0.27	-12.81
GEW-049	4/28/2020 11:24:17 AM	53.8	41.5	0.0	4.7	88.4	88.4	8.13	8.13	0.27	0.27	-12.81
GEW-049	4/29/2020 8:28:56 AM	55.2	41.5	0.0	3.3	69.7	69.8	28.03	22.60	-0.09	-0.05	-12.89
GEW-050	4/1/2020 11:22:34 AM	52.5	38.5	0.0	9.0	98.7	98.4	9.53	6.79	-0.23	-0.22	-4.97
GEW-050	4/7/2020 8:43:46 AM	54.4	38.7	0.0	6.9	98.6	98.7	30.13	28.87	-0.19	-0.18	-7.20
GEW-050	4/7/2020 8:50:22 AM	54.5	39.0	0.0	6.5	98.7	98.4	9.01	11.86	-0.17	-0.20	-5.77
GEW-050	4/14/2020 9:58:47 AM	51.9	40.0	0.0	8.1	92.9	93.1	5.42	6.77	-0.12	-0.10	-7.46
GEW-050	4/21/2020 8:27:38 AM	52.7	35.8	0.0	11.5	92.4	92.4	10.25	5.48	-0.83	-0.79	-7.16
GEW-050	4/21/2020 8:29:13 AM	51.9	36.4	0.0	11.7	91.9	91.9	9.50	8.23	-0.75	-0.72	-5.81
GEW-050	4/28/2020 10:20:15 AM	56.5	39.0	0.0	4.5	99.0	98.9	29.86	28.71	-0.02	-0.02	-6.40
GEW-050	4/28/2020 10:21:42 AM	55.8	39.3	0.0	4.9	99.3	99.2	31.43	32.24	-0.02	-0.03	-6.61
GEW-051	4/1/2020 11:40:41 AM	53.2	42.7	0.0	4.1	116.6	116.6	17.64	17.64	-0.47	-0.47	-12.68
GEW-051	4/7/2020 9:17:33 AM	53.6	40.9	0.0	5.5	117.4	117.3	9.63	7.54	-0.44	-0.43	-13.02
GEW-051	4/7/2020 9:23:55 AM	53.5	41.5	0.0	5.0	117.6	117.6	8.44	10.00	-0.35	-0.38	-12.89
GEW-051	4/14/2020 10:17:50 AM	53.8	42.0	0.0	4.2	109.5	109.2	19.10	9.36	-0.38	-0.37	-13.23
GEW-051	4/21/2020 9:26:56 AM	55.0	40.8	0.0	4.2	108.7	108.7	8.09	7.63	-1.16	-1.10	-12.34
GEW-051	4/28/2020 10:45:37 AM	52.9	43.3	0.0	3.8	117.1	117.2	28.76	25.43	-0.11	-0.07	-13.40

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-052	4/1/2020 11:26:03 AM	47.1	37.2	0.0	15.7	102.1	102.1	1.22	1.22	-0.03	-0.02	-13.23
GEW-052	4/7/2020 8:53:33 AM	50.2	38.6	0.0	11.2	103.0	103.0	26.48	26.48	-0.09	-0.09	-13.56
GEW-052	4/7/2020 8:59:24 AM	50.1	38.2	0.0	11.7	102.4	102.3	3.75	5.37	-0.03	-0.03	-13.61
GEW-052	4/14/2020 10:03:31 AM	45.7	37.3	0.0	17.0	92.4	92.4	12.88	10.63	-0.01	-0.01	-13.48
GEW-052	4/21/2020 8:33:02 AM	46.2	34.3	0.0	19.5	93.3	92.7	12.78	13.10	-0.30	-0.28	-13.23
GEW-052	4/21/2020 8:34:03 AM	45.7	34.6	0.0	19.7	91.9	91.7	20.36	20.36	-0.26	-0.26	-13.44
GEW-052	4/28/2020 10:24:35 AM	55.5	41.4	0.0	3.1	98.9	98.9	15.85	14.63	0.12	0.11	-13.44
GEW-052	4/28/2020 10:25:56 AM	55.0	42.1	0.0	2.9	99.6	99.4	8.92	9.72	0.12	0.12	-13.02
GEW-052	4/29/2020 8:17:09 AM	54.5	41.0	0.0	4.5	96.5	96.2	25.51	25.51	-0.07	-0.07	-13.48
GEW-053	4/1/2020 1:42:32 PM	50.1	42.1	0.0	7.8	141.5	142.2	9.68	10.22	-0.08	-0.06	-13.56
GEW-053	4/1/2020 1:43:59 PM	49.8	42.1	0.0	8.1	141.7	141.9	14.16	9.11	-0.09	-0.08	-13.48
GEW-053	4/7/2020 9:35:07 AM	49.6	43.0	0.0	7.4	141.6	141.2	24.79	24.79	-0.18	-0.18	-13.40
GEW-053	4/7/2020 9:40:58 AM	49.4	43.3	0.0	7.3	141.5	141.5	12.86	14.85	-0.14	-0.14	-12.97
GEW-053	4/14/2020 10:23:25 AM	50.4	42.3	0.0	7.3	139.0	138.3	4.56	7.90	-0.27	-0.26	-13.52
GEW-053	4/14/2020 10:26:23 AM	49.5	43.7	0.0	6.8	138.2	138.0	11.79	12.08	-0.26	-0.26	-13.61
GEW-053	4/21/2020 9:32:39 AM	50.3	41.8	0.0	7.9	138.6	137.7	16.22	18.43	-0.83	-0.78	-13.14
GEW-053	4/21/2020 9:33:51 AM	50.1	42.4	0.0	7.5	138.2	138.0	9.49	6.97	-0.81	-0.81	-13.02
GEW-053	4/28/2020 10:52:02 AM	49.1	43.1	0.0	7.8	141.2	141.3	28.31	26.67	0.05	0.08	-13.06
GEW-053	4/28/2020 10:53:19 AM	48.9	43.6	0.0	7.5	142.2	142.5	33.01	33.01	-0.10	-0.10	-12.64
GEW-054	4/1/2020 1:46:50 PM	52.9	42.5	0.0	4.6	145.9	145.9	47.79	42.24	-4.03	-4.12	-13.56
GEW-054	4/1/2020 1:48:03 PM	53.1	42.1	0.0	4.8	145.9	145.9	57.17	51.41	-4.36	-4.36	-13.69
GEW-054	4/7/2020 9:45:06 AM	52.1	44.1	0.0	3.8	146.0	146.0	49.99	50.11	-3.93	-3.96	-13.02
GEW-054	4/7/2020 9:52:42 AM	52.3	44.1	0.0	3.6	145.7	145.8	55.18	56.68	-4.06	-4.10	-13.27
GEW-054	4/14/2020 10:32:12 AM	52.8	43.6	0.0	3.6	144.5	144.5	51.79	53.54	-4.43	-4.28	-14.03
GEW-054	4/14/2020 10:33:21 AM	52.8	43.8	0.0	3.4	144.5	144.5	56.55	60.63	-4.59	-4.58	-13.02
GEW-054	4/21/2020 9:40:50 AM	53.0	43.7	0.0	3.3	143.5	143.5	44.10	45.23	-5.07	-5.07	-13.52
GEW-054	4/21/2020 9:42:42 AM	53.0	43.3	0.0	3.7	143.5	143.5	66.89	57.24	-5.07	-5.07	-13.14
GEW-054	4/28/2020 10:57:03 AM	52.1	43.6	0.0	4.3	145.8	145.9	59.89	59.72	-4.16	-4.18	-13.06
GEW-054	4/28/2020 10:58:22 AM	52.0	43.7	0.0	4.3	145.8	145.9	55.09	55.09	-4.14	-4.14	-13.44
GEW-055	4/1/2020 1:55:35 PM	51.7	41.4	0.0	6.9	127.3	127.5	6.00	6.90	-0.57	-0.56	-13.35
GEW-055	4/7/2020 10:33:20 AM	50.8	43.1	0.0	6.1	127.0	127.0	7.93	6.20	-0.67	-0.67	-13.06
GEW-055	4/7/2020 10:39:59 AM	50.9	43.0	0.0	6.1	126.6	126.5	4.16	4.16	-0.60	-0.60	-12.68
GEW-055	4/14/2020 10:38:02 AM	52.1	42.6	0.0	5.3	122.5	122.6	3.07	4.06	-0.81	-0.79	-13.40
GEW-055	4/21/2020 9:49:32 AM	51.8	42.1	0.0	6.1	120.2	120.2	8.01	8.01	-1.12	-1.11	-13.06
GEW-055	4/28/2020 11:04:45 AM	51.5	42.4	0.0	6.1	128.0	127.9	4.90	1.63	-0.51	-0.48	-12.85
GEW-056R	4/8/2020 9:05:25 AM	46.7	42.4	0.1	10.8	110.0	110.1	4.69	4.69	-0.27	-0.26	-19.62
GEW-056R	4/8/2020 9:10:56 AM	46.0	42.9	0.0	11.1	109.7	109.7	4.43	4.43	-0.24	-0.24	-19.49
GEW-056R	4/16/2020 1:06:26 PM	45.9	42.4	0.1	11.6	84.3	84.6	3.70	3.11	-0.14	-0.13	-18.27
GEW-056R	4/21/2020 2:56:29 PM	44.0	43.8	0.0	12.2	97.2	97.2	8.43	8.35	-0.35	-0.36	-19.46
GEW-056R	4/29/2020 9:54:23 AM	48.6	40.7	0.0	10.7	65.8	65.6	5.75	5.08	-0.49	-0.50	-20.30
GEW-057B	4/9/2020 10:38:27 AM	5.8	59.7	0.1	34.4	161.6	162.0	3.08	2.76	-17.97	-17.97	-18.87

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-057B	4/9/2020 10:44:26 AM	5.9	60.5	0.1	33.5	164.3	164.3	4.11	3.06	-18.65	-18.99	-19.29
GEW-057B	4/23/2020 9:00:56 AM	2.3	57.9	0.8	39.0	92.7	92.9	6.29	4.17	-0.84	-0.80	-19.50
GEW-058A	4/9/2020 8:46:25 AM	8.7	33.8	2.4	55.1	95.8	95.8	5.67	5.67	-10.02	-10.02	-20.22
GEW-058A	4/9/2020 8:52:40 AM	8.4	33.9	2.4	55.3	96.5	96.7	4.01	5.56	-9.98	-9.98	-20.13
GEW-058A	4/20/2020 3:13:03 PM	8.7	35.7	3.8	51.8	117.6	117.6	2.41	2.41	-7.78	-7.78	-20.05
GEW-059R	4/8/2020 3:30:06 PM	14.9	40.5	0.0	44.6	139.0	139.0	5.25	5.58	-9.13	-9.13	-18.24
GEW-059R	4/8/2020 3:36:13 PM	14.4	40.4	0.0	45.2	139.3	139.3	6.04	5.48	-8.50	-8.58	-18.20
GEW-059R	4/17/2020 2:05:48 PM	14.9	37.4	0.0	47.7	85.6	85.6	6.17	6.37	-11.14	-11.14	-19.87
GEW-067A	4/6/2020 2:59:18 PM	7.7	54.7	0.0	37.6	198.9	198.8	33.80	33.87	-0.43	-0.43	-17.93
GEW-067A	4/6/2020 3:05:48 PM	7.9	53.4	0.0	38.7	199.1	198.9	34.50	34.40	-0.42	-0.42	-17.93
GEW-067A	4/20/2020 9:55:47 AM	9.3	55.0	0.0	35.7	199.2	199.3	5.58	5.58	19.12	19.12	-18.56
GEW-067A	4/20/2020 2:18:57 PM	11.3	54.0	0.0	34.7	195.7	195.7	7.12	7.68	-11.52	-11.52	-18.90
GEW-068A	4/9/2020 3:51:14 PM	16.5	51.7	0.0	31.8	181.6	182.1	52.21	52.61	-7.78	-8.12	-19.00
GEW-068A	4/9/2020 3:56:44 PM	17.9	55.5	0.0	26.6	182.7	182.7	52.10	51.87	-7.82	-7.78	-19.04
GEW-068A	4/22/2020 10:33:32 AM	14.3	53.7	0.0	32.0	191.6	191.6	53.53	53.16	-6.46	-6.46	-18.60
GEW-068A	4/22/2020 10:35:13 AM	14.1	51.6	0.0	34.3	191.6	191.7	53.14	53.14	-6.42	-6.42	-18.60
GEW-078R	4/10/2020 10:02:13 AM	10.3	27.3	0.0	62.4	151.3	151.0	21.02	20.89	-10.72	-10.72	-19.58
GEW-078R	4/10/2020 10:08:04 AM	10.2	27.9	0.0	61.9	150.2	150.2	19.86	20.84	-10.72	-10.72	-19.66
GEW-078R	4/21/2020 8:30:52 AM	11.5	28.6	0.0	59.9	145.2	145.2	21.84	20.35	-10.81	-10.81	-19.41
GEW-078R	4/21/2020 8:31:59 AM	10.6	29.4	0.0	60.0	145.4	145.6	19.41	20.89	-10.81	-10.81	-19.62
GEW-082R	4/10/2020 1:47:56 PM	8.8	34.7	0.0	56.5	171.6	171.4	1.71	1.71	-4.54	-4.54	-18.77
GEW-082R	4/10/2020 1:55:09 PM	8.6	34.3	0.0	57.1	171.6	171.0	0.99	0.99	-4.57	-4.58	-18.52
GEW-082R	4/21/2020 8:35:43 AM	8.8	34.0	0.0	57.2	170.5	170.2	1.47	1.41	-5.07	-5.07	-19.75
GEW-082R	4/21/2020 8:36:59 AM	8.9	34.2	0.0	56.9	170.5	170.5	3.19	0.73	-5.07	-5.07	-19.75
GEW-086	4/6/2020 3:28:45 PM	8.4	51.3	0.0	40.3	185.7	186.4	1.95	1.95	0.08	0.09	-18.22
GEW-086	4/6/2020 3:36:41 PM	23.4	51.7	0.0	24.9	187.0	187.9	2.14	1.43	-0.01	-0.01	-17.93
GEW-086	4/16/2020 3:56:45 PM	12.6	35.3	3.8	48.3	168.1	168.1	22.12	20.24	-0.83	-0.74	-18.49
GEW-086	4/16/2020 3:57:53 PM	12.5	35.6	3.8	48.1	168.5	168.5	17.37	16.00	-0.62	-0.62	-18.24
GEW-087	4/9/2020 10:45:30 AM	11.4	29.4	4.5	54.7	148.0	148.0	7.38	6.74	-12.79	-12.79	-19.11
GEW-087	4/9/2020 10:50:56 AM	11.4	29.2	4.6	54.8	148.4	148.8	7.10	6.19	-12.79	-12.79	-18.99
GEW-087	4/20/2020 1:19:59 PM	11.1	29.0	4.8	55.1	140.6	140.9	4.93	4.85	-13.17	-13.17	-18.73
GEW-087	4/20/2020 1:21:11 PM	11.9	29.1	4.9	54.1	140.8	140.9	4.92	4.90	-11.82	-11.82	-18.94
GEW-088	4/7/2020 8:27:51 AM	9.8	45.9	0.2	44.1	180.9	180.3	0.98	0.98	-0.90	-0.91	-19.62
GEW-088	4/7/2020 8:33:25 AM	9.6	47.3	0.0	43.1	181.9	181.5	1.70	0.98	-0.95	-0.95	-19.53
GEW-088	4/17/2020 10:17:49 AM	2.4	46.3	0.7	50.6	169.5	169.7	1.87	1.87	-1.31	-1.32	-19.62
GEW-088	4/17/2020 10:19:07 AM	2.2	44.7	0.7	52.4	170.0	169.5	1.53	1.53	-1.34	-1.34	-19.45
GEW-090	4/6/2020 2:13:14 PM	21.8	40.9	0.0	37.3	168.5	167.6	5.87	5.53	-10.13	-10.13	-18.35
GEW-090	4/6/2020 2:19:36 PM	21.8	42.6	0.0	35.6	168.5	168.5	4.03	3.91	-10.13	-10.13	-18.48
GEW-090	4/16/2020 3:43:27 PM	20.4	46.9	0.0	32.7	156.9	156.9	4.95	4.86	-10.15	-10.15	-18.41
GEW-090	4/16/2020 3:44:33 PM	20.5	45.7	0.0	33.8	158.2	158.4	3.07	6.28	-10.15	-10.15	-18.91
GEW-091	4/8/2020 10:08:13 AM	7.2	49.7	0.8	42.3	144.9	144.3	25.06	24.19	-17.90	-17.90	-18.99

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-091	4/8/2020 10:14:04 AM	8.3	45.8	0.6	45.3	146.6	146.6	23.52	22.09	-17.90	-17.90	-18.99
GEW-091	4/16/2020 1:22:22 PM	5.4	49.1	0.3	45.2	169.5	169.5	12.19	12.19	-16.88	-16.88	-18.27
GEW-091	4/16/2020 1:23:32 PM	5.2	48.2	0.2	46.4	170.0	170.0	13.08	12.35	-16.88	-16.88	-18.27
GEW-091	4/22/2020 9:31:54 AM	7.4	56.3	0.3	36.0	113.5	113.7	1.83	3.65	-18.94	-18.60	-19.21
GEW-091	4/29/2020 10:48:41 AM	8.7	50.8	0.0	40.5	68.8	68.8	15.00	15.16	-18.83	-18.83	-19.62
GEW-100	4/13/2020 10:16:20 AM	11.7	67.6	0.0	20.7	153.7	154.0	5.35	2.06	-1.27	-1.36	-19.80
GEW-100	4/13/2020 10:22:35 AM	11.9	68.9	0.0	19.2	156.9	156.9	6.15	7.10	-0.82	-0.89	-19.59
GEW-100	4/22/2020 10:26:23 AM	12.4	60.8	0.0	26.8	170.5	170.5	1.97	2.03	1.86	1.87	-18.56
GEW-100	4/22/2020 10:28:54 AM	12.2	61.4	0.0	26.4	173.8	174.2	5.94	4.64	-1.89	-1.88	-18.44
GEW-101	4/9/2020 3:04:47 PM	41.0	59.0	0.0	0.0	69.9	69.9	5.07	5.07	-0.09	-0.09	-18.83
GEW-101	4/9/2020 3:10:32 PM	41.5	58.5	0.0	0.0	69.5	69.6	8.20	7.66	-0.39	-0.37	-19.00
GEW-101	4/22/2020 11:42:25 AM	38.3	61.4	0.0	0.3	82.1	82.1	2.34	1.17	-0.27	-0.24	-18.03
GEW-102	4/9/2020 1:57:11 PM	26.2	49.2	0.6	24.0	65.1	65.1	1.36	1.26	-18.35	-18.31	-18.70
GEW-102	4/9/2020 2:02:45 PM	27.1	48.8	0.2	23.9	64.7	64.7	1.15	0.73	-18.44	-18.44	-18.70
GEW-102	4/22/2020 11:31:48 AM	25.1	50.9	0.8	23.2	79.3	79.4	3.14	1.61	-16.87	-16.91	-17.86
GEW-104	4/9/2020 10:18:22 AM	25.2	42.1	0.0	32.7	127.2	127.4	7.27	5.35	-11.42	-11.46	-19.50
GEW-104	4/9/2020 10:24:28 AM	25.5	41.5	0.0	33.0	128.9	128.9	6.28	2.56	-11.08	-11.37	-19.55
GEW-104	4/20/2020 3:46:08 PM	17.0	52.5	0.0	30.5	174.7	174.7	15.02	14.83	-5.03	-4.86	-20.22
GEW-104	4/20/2020 3:47:25 PM	16.8	53.7	0.0	29.5	175.3	175.3	20.20	20.51	-5.41	-5.33	-20.22
GEW-105	4/9/2020 9:22:11 AM	39.6	47.0	0.0	13.4	119.2	119.8	10.26	11.52	-9.18	-9.18	-19.88
GEW-105	4/9/2020 9:28:24 AM	40.5	46.1	0.0	13.4	121.0	121.2	12.71	6.66	-9.18	-9.18	-20.01
GEW-105	4/20/2020 3:24:24 PM	38.2	49.1	0.0	12.7	123.4	123.4	6.72	4.25	-8.79	-8.71	-19.42
GEW-106	4/9/2020 9:01:23 AM	13.4	53.2	0.4	33.0	159.8	159.4	13.08	12.64	-2.89	-2.98	-18.53
GEW-106	4/9/2020 9:07:47 AM	13.6	52.4	0.4	33.6	161.5	161.5	12.23	7.02	-3.00	-2.79	-17.19
GEW-106	4/20/2020 1:57:49 PM	11.3	51.4	0.3	37.0	179.0	178.0	2.09	2.09	-1.36	-1.35	-18.94
GEW-106	4/20/2020 1:59:49 PM	10.9	52.2	0.3	36.6	178.0	177.5	1.97	1.39	-1.39	-1.39	-18.31
GEW-107	4/8/2020 3:40:45 PM	28.3	51.3	0.1	20.3	137.1	137.1	10.05	6.65	-1.21	-1.15	-18.20
GEW-107	4/8/2020 3:46:26 PM	28.6	52.5	0.1	18.8	136.8	137.0	24.51	18.65	-1.20	-1.16	-18.20
GEW-107	4/17/2020 2:08:40 PM	34.6	49.2	0.0	16.2	94.3	94.8	5.32	2.82	-1.45	-1.44	-19.75
GEW-108	4/9/2020 9:01:13 AM	40.1	47.4	0.0	12.5	168.1	168.1	3.29	3.43	-5.28	-5.28	-20.00
GEW-108	4/9/2020 9:07:07 AM	40.3	46.6	0.0	13.1	168.1	168.1	0.99	1.77	-5.28	-5.28	-19.83
GEW-108	4/16/2020 1:50:08 PM	40.7	46.6	0.0	12.7	164.7	163.9	2.40	2.04	-4.97	-4.98	-18.44
GEW-108	4/16/2020 1:51:34 PM	40.3	46.8	0.0	12.9	164.7	165.2	1.22	1.24	-5.07	-5.07	-18.01
GEW-108	4/22/2020 10:15:58 AM	42.2	50.0	0.0	7.8	140.6	140.6	9.19	7.24	-8.12	-8.12	-19.04
GEW-108	4/22/2020 10:17:01 AM	41.9	50.3	0.0	7.8	141.5	141.5	9.18	9.18	-8.12	-8.12	-18.96
GEW-108	4/30/2020 8:43:16 AM	41.1	45.1	0.1	13.7	164.8	164.3	2.44	2.64	-5.28	-5.28	-19.28
GEW-108	4/30/2020 8:44:12 AM	41.1	45.5	0.0	13.4	164.7	164.7	1.99	1.73	-5.28	-5.28	-19.28
GEW-109	4/9/2020 9:11:21 AM	42.5	42.3	1.1	14.1	75.1	75.0	4.97	4.22	-2.54	-2.54	-19.92
GEW-109	4/9/2020 9:17:13 AM	43.2	41.0	1.1	14.7	75.7	75.7	3.70	3.88	-2.50	-2.50	-19.96
GEW-109	4/16/2020 2:10:48 PM	43.1	41.3	0.8	14.8	78.7	78.8	1.04	2.81	-1.96	-1.96	-18.35
GEW-109	4/22/2020 10:22:40 AM	42.7	45.5	0.8	11.0	85.6	85.6	9.39	7.84	-2.09	-2.01	-19.21

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-109	4/30/2020 8:49:34 AM	43.5	43.3	0.6	12.6	75.5	75.7	3.31	4.38	-2.30	-2.29	-19.24
GEW-110	4/8/2020 9:24:32 AM	40.7	47.9	0.0	11.4	105.0	105.0	2.50	2.50	0.01	0.01	-19.15
GEW-110	4/8/2020 9:30:45 AM	39.0	46.9	0.3	13.8	107.2	107.2	2.49	2.20	-0.01	-0.01	-19.32
GEW-110	4/16/2020 1:11:31 PM	42.9	46.2	0.0	10.9	89.6	89.6	1.92	1.26	-0.01	-0.01	-18.44
GEW-110	4/21/2020 2:48:20 PM	33.7	42.8	2.1	21.4	85.6	85.6	4.02	6.47	-0.02	-0.04	-18.03
GEW-110	4/29/2020 9:59:54 AM	26.0	29.7	7.9	36.4	56.9	57.0	3.45	3.45	-0.11	-0.11	-19.96
GEW-110	4/29/2020 10:37:35 AM	28.2	32.0	7.2	32.6	57.2	57.1	4.04	2.99	-0.13	-0.13	-20.00
GEW-113	4/9/2020 1:52:43 PM	11.9	56.8	0.0	31.3	174.7	174.7	8.47	8.54	-1.67	-1.67	-19.11
GEW-113	4/9/2020 1:59:09 PM	11.8	58.8	0.0	29.4	174.7	174.7	8.76	8.76	-1.71	-1.71	-19.15
GEW-113	4/20/2020 10:55:16 AM	15.1	61.1	0.0	23.8	178.6	178.1	8.40	9.08	-1.62	-1.62	-17.80
GEW-113	4/20/2020 10:56:11 AM	14.8	58.9	0.0	26.3	178.6	178.6	8.35	8.96	-1.63	-1.63	-17.72
GEW-116	4/8/2020 1:33:35 PM	32.9	64.1	0.0	3.0	146.6	147.0	22.75	10.54	-0.37	-0.38	-18.79
GEW-116	4/8/2020 1:40:08 PM	32.2	64.0	0.0	3.8	154.0	154.0	11.79	14.96	-0.84	-0.83	-18.32
GEW-116	4/17/2020 2:18:15 PM	23.2	46.8	1.5	28.5	146.3	146.3	13.07	13.90	-1.66	-1.67	-20.25
GEW-116	4/17/2020 2:19:28 PM	22.9	46.7	1.5	28.9	145.9	145.9	13.16	13.91	-1.69	-1.69	-19.49
GEW-117	4/8/2020 1:45:12 PM	35.7	58.9	0.0	5.4	143.9	143.9	14.48	14.71	-14.76	-15.26	-18.37
GEW-117	4/8/2020 1:51:04 PM	36.2	57.2	0.0	6.6	142.5	142.3	12.51	10.23	-14.59	-15.31	-18.58
GEW-117	4/17/2020 2:15:15 PM	40.3	52.9	0.0	6.8	64.9	64.9	1.73	1.09	-17.26	-17.26	-19.62
GEW-118	4/10/2020 2:19:23 PM	2.4	57.9	0.0	39.7	200.1	200.1	47.99	48.30	-0.90	-0.90	-18.73
GEW-118	4/10/2020 2:25:18 PM	2.6	53.1	0.0	44.3	198.7	198.7	48.29	48.24	-1.08	-1.08	-18.52
GEW-118	4/21/2020 8:48:03 AM	2.7	57.7	0.0	39.6	194.3	195.7	47.71	47.60	-3.10	-3.11	-19.58
GEW-118	4/21/2020 8:50:31 AM	3.3	54.8	0.0	41.9	195.7	195.1	46.83	46.89	-3.08	-3.09	-19.75
GEW-120	4/13/2020 10:06:45 AM	50.5	49.0	0.0	0.5	59.8	59.9	3.38	3.27	-1.00	-1.01	-19.49
GEW-120	4/13/2020 10:13:15 AM	50.9	46.7	0.0	2.4	59.9	59.9	5.69	6.83	-1.09	-1.10	-19.41
GEW-120	4/23/2020 9:15:50 AM	47.3	48.5	0.0	4.2	69.3	69.3	4.24	4.40	-0.88	-0.86	-19.49
GEW-120	4/28/2020 8:16:42 AM	53.5	44.3	0.0	2.2	86.8	87.0	12.28	11.76	-0.79	-0.76	-19.25
GEW-120	4/28/2020 8:18:53 AM	53.0	44.7	0.0	2.3	102.3	102.8	16.67	11.57	-3.20	-3.20	-19.88
GEW-121	4/13/2020 10:51:20 AM	37.2	53.5	0.0	9.3	134.7	134.4	4.09	4.95	-2.58	-2.59	-18.99
GEW-121	4/13/2020 10:57:33 AM	36.9	53.8	0.0	9.3	135.0	134.9	4.09	4.23	-2.56	-2.57	-18.94
GEW-121	4/22/2020 9:22:46 AM	34.9	53.5	0.0	11.6	141.5	141.9	3.13	1.34	-2.13	-2.12	-18.99
GEW-121	4/22/2020 9:23:48 AM	34.7	54.1	0.0	11.2	141.9	141.9	1.47	2.55	-2.16	-2.16	-18.90
GEW-122	4/13/2020 1:23:38 PM	39.8	36.5	0.1	23.6	81.9	81.9	15.81	15.65	-10.81	-10.81	-18.86
GEW-122	4/13/2020 1:29:15 PM	40.4	35.8	0.0	23.8	82.8	82.8	15.16	14.86	-11.02	-11.02	-18.69
GEW-122	4/23/2020 9:00:36 AM	40.0	39.1	0.0	20.9	90.6	90.8	15.12	14.86	-10.22	-10.22	-19.24
GEW-123	4/13/2020 1:34:44 PM	31.4	51.8	0.2	16.6	58.2	58.2	2.16	2.16	-2.25	-2.26	-18.94
GEW-123	4/13/2020 1:40:04 PM	30.7	54.2	0.0	15.1	57.8	57.8	2.17	2.17	-2.28	-2.27	-18.69
GEW-123	4/23/2020 9:23:50 AM	30.8	56.7	0.0	12.5	63.5	63.5	2.86	1.00	-2.04	-2.05	-19.45
GEW-124	4/13/2020 2:09:35 PM	49.6	40.0	1.8	8.6	49.6	50.2	0.38	0.11	-17.22	-17.22	-18.86
GEW-124	4/13/2020 2:16:23 PM	43.9	34.6	4.2	17.3	49.1	49.3	0.61	0.68	-17.90	-17.90	-18.99
GEW-124	4/23/2020 9:26:39 AM	47.4	42.0	2.2	8.4	57.0	57.0	0.36	0.07	-19.25	-19.25	-19.58
GEW-125	4/13/2020 2:40:26 PM	36.6	52.4	0.3	10.7	54.9	54.9	1.78	1.78	-8.15	-8.15	-18.86

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-125	4/13/2020 2:46:02 PM	37.1	51.7	0.2	11.0	55.4	55.5	1.78	1.78	-8.15	-8.15	-18.60
GEW-125	4/23/2020 9:02:28 AM	38.4	46.6	0.0	15.0	60.9	60.9	0.99	0.99	-8.44	-8.44	-19.24
GEW-126	4/14/2020 8:21:22 AM	21.5	47.7	1.3	29.5	46.7	47.0	8.69	6.59	-13.13	-13.13	-17.80
GEW-126	4/14/2020 8:27:19 AM	21.9	49.3	0.8	28.0	48.1	48.2	7.50	9.76	-13.13	-13.13	-18.94
GEW-126	4/23/2020 8:53:00 AM	24.3	50.1	0.1	25.5	57.8	57.8	9.11	11.10	-13.13	-13.13	-18.77
GEW-127	4/14/2020 9:05:18 AM	14.1	44.9	3.7	37.3	63.2	63.2	10.91	11.04	-0.22	-0.22	-19.62
GEW-127	4/14/2020 9:11:29 AM	13.7	44.9	3.8	37.6	63.3	63.3	17.70	17.74	-0.23	-0.22	-19.62
GEW-127	4/23/2020 10:41:27 AM	13.8	47.0	3.3	35.9	66.3	66.3	19.87	19.69	-0.25	-0.25	-19.15
GEW-129	4/14/2020 8:57:58 AM	36.5	59.4	0.0	4.1	110.5	110.5	25.26	24.21	-4.54	-4.56	-20.09
GEW-129	4/14/2020 9:04:40 AM	37.3	55.8	0.0	6.9	111.5	111.4	22.38	23.48	-4.70	-4.60	-20.64
GEW-129	4/27/2020 9:09:52 AM	37.6	52.5	0.0	9.9	114.8	114.8	21.84	22.98	-4.88	-4.87	-20.01
GEW-130	4/14/2020 8:31:03 AM	24.2	45.8	0.0	30.0	153.0	152.1	7.41	7.41	-15.20	-15.20	-19.66
GEW-130	4/14/2020 8:37:23 AM	24.5	44.8	0.0	30.7	152.1	152.5	7.35	7.35	-15.15	-15.15	-19.70
GEW-130	4/22/2020 1:07:53 PM	25.2	45.1	0.1	29.6	155.6	155.5	7.48	7.46	-13.85	-13.85	-18.18
GEW-130	4/22/2020 1:08:44 PM	24.9	45.0	0.0	30.1	155.6	155.2	4.45	6.36	-13.85	-13.85	-18.39
GEW-131	4/14/2020 8:10:00 AM	43.7	42.9	0.2	13.2	87.9	88.0	4.99	4.43	-2.26	-2.28	-19.62
GEW-131	4/14/2020 8:15:50 AM	42.0	43.9	0.0	14.1	91.2	91.0	4.96	5.34	-2.35	-2.35	-19.62
GEW-131	4/23/2020 8:55:59 AM	37.5	46.6	0.0	15.9	107.2	107.0	5.80	6.21	-0.97	-0.98	-19.20
GEW-132	4/10/2020 1:58:09 PM	15.8	31.9	1.4	50.9	133.4	133.8	5.19	5.60	-1.42	-1.41	-18.94
GEW-132	4/10/2020 2:03:49 PM	16.0	31.3	1.4	51.3	132.3	132.6	5.20	5.20	-1.40	-1.39	-18.82
GEW-132	4/21/2020 8:39:26 AM	15.5	29.9	2.1	52.5	124.2	123.9	5.21	5.32	-2.05	-2.07	-19.58
GEW-133	4/10/2020 2:40:42 PM	1.7	65.9	0.5	31.9	80.5	80.7	10.21	9.49	-11.31	-11.31	-18.60
GEW-133	4/10/2020 2:49:37 PM	3.1	61.6	0.3	35.0	83.1	85.3	16.87	18.86	-4.56	-4.56	-18.82
GEW-133	4/23/2020 9:10:52 AM	2.7	57.8	0.0	39.5	56.4	56.4	11.23	8.77	-17.56	-17.56	-19.07
GEW-134	4/10/2020 1:29:10 PM	10.9	39.7	0.8	48.6	90.6	90.8	1.62	1.14	-0.26	-0.25	-18.94
GEW-134	4/10/2020 1:34:56 PM	10.7	39.5	0.8	49.0	91.0	91.0	1.98	1.14	-0.25	-0.26	-18.94
GEW-134	4/22/2020 3:17:32 PM	15.0	43.3	0.3	41.4	84.3	84.4	2.09	0.58	-0.24	-0.23	-18.99
GEW-135	4/10/2020 10:41:23 AM	4.5	51.3	0.0	44.2	107.1	107.3	24.36	24.90	-1.00	-1.03	-16.91
GEW-135	4/10/2020 10:48:28 AM	4.6	49.2	0.0	46.2	108.2	108.2	23.83	23.24	-0.96	-0.93	-16.28
GEW-135	4/22/2020 3:06:05 PM	7.9	54.5	0.0	37.6	112.0	112.0	27.02	27.02	-1.01	-1.02	-16.96
GEW-137	4/9/2020 2:40:28 PM	38.0	42.3	0.0	19.7	75.5	75.4	2.22	2.22	-2.71	-2.72	-18.90
GEW-137	4/9/2020 2:46:02 PM	38.3	41.2	0.0	20.5	73.6	73.7	2.23	3.82	-2.57	-2.57	-18.86
GEW-137	4/22/2020 2:57:54 PM	42.3	41.6	0.1	16.0	81.9	81.9	8.24	8.24	-2.51	-2.51	-18.65
GEW-139	4/13/2020 1:47:22 PM	17.8	42.2	2.4	37.6	143.5	143.2	5.94	6.03	-6.38	-6.43	-19.33
GEW-139	4/13/2020 1:58:31 PM	18.3	41.7	2.5	37.5	144.6	143.9	9.95	6.44	-6.43	-6.43	-19.04
GEW-139	4/22/2020 10:04:26 AM	18.0	42.2	2.0	37.8	158.5	158.2	1.01	1.25	-5.07	-5.07	-18.52
GEW-139	4/22/2020 10:06:15 AM	17.8	41.5	1.9	38.8	158.1	158.2	2.02	1.75	-5.07	-5.07	-18.77
GEW-140	4/13/2020 11:27:03 AM	29.8	44.7	0.0	25.5	103.9	104.0	11.66	14.27	-6.13	-6.09	-17.65
GEW-140	4/13/2020 11:32:57 AM	30.3	43.5	0.0	26.2	104.3	104.0	13.50	14.59	-6.22	-6.22	-17.27
GEW-140	4/27/2020 8:59:32 AM	29.5	43.0	0.0	27.5	120.5	120.5	10.84	11.52	-4.95	-4.95	-17.90
GEW-144	4/9/2020 3:42:21 PM	54.2	45.8	0.0	0.0	69.2	69.2	0.77	0.79	-4.79	-4.82	-19.21

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-144	4/9/2020 3:47:31 PM	55.1	44.7	0.2	0.0	67.9	67.9	0.56	0.53	-13.36	-13.32	-19.17
GEW-144	4/23/2020 10:03:30 AM	41.8	40.8	2.6	14.8	57.0	57.0	0.90	0.97	-10.49	-10.82	-19.71
GEW-145	4/9/2020 2:27:59 PM	32.3	48.6	0.0	19.1	69.4	69.5	14.85	10.24	-17.59	-17.89	-18.96
GEW-145	4/9/2020 2:33:55 PM	32.8	48.2	0.0	19.0	68.1	68.1	2.57	2.57	-17.93	-17.93	-19.33
GEW-145	4/22/2020 11:28:40 AM	31.6	50.0	0.0	18.4	81.4	81.4	8.84	6.54	-16.91	-16.91	-17.90
GEW-147	4/9/2020 2:25:53 PM	15.5	46.3	1.8	36.4	161.1	160.8	14.01	13.95	-7.22	-7.22	-19.37
GEW-147	4/9/2020 2:31:18 PM	15.7	45.2	1.8	37.3	161.2	161.2	17.43	17.23	-7.22	-7.22	-19.28
GEW-147	4/20/2020 1:25:17 PM	15.3	44.8	1.9	38.0	164.7	164.7	17.96	17.83	-7.09	-7.09	-19.28
GEW-147	4/20/2020 1:26:26 PM	15.4	45.5	1.9	37.2	164.3	164.3	17.59	17.28	-7.09	-7.09	-19.11
GEW-148	4/9/2020 10:55:07 AM	19.5	52.7	0.0	27.8	151.3	151.3	5.29	5.93	-5.70	-5.70	-18.65
GEW-148	4/9/2020 11:01:03 AM	19.3	51.8	0.0	28.9	150.6	150.6	3.81	2.69	-5.70	-5.70	-19.24
GEW-148	4/20/2020 1:15:23 PM	18.9	52.6	0.1	28.4	159.0	158.5	5.66	5.47	-5.45	-5.45	-18.60
GEW-148	4/20/2020 1:16:22 PM	18.7	53.0	0.0	28.3	159.0	159.0	4.71	7.39	-5.45	-5.45	-18.86
GEW-149	4/6/2020 2:48:55 PM	8.7	25.2	0.0	66.1	85.1	85.1	2.59	2.31	-0.03	-0.03	-17.93
GEW-149	4/6/2020 2:55:23 PM	9.0	23.7	0.0	67.3	84.5	84.4	2.59	2.32	-0.07	-0.06	-18.27
GEW-149	4/22/2020 1:43:41 PM	8.6	23.7	0.7	67.0	80.9	80.9	8.22	8.05	-0.17	-0.17	-18.60
GEW-150	4/9/2020 10:08:11 AM	22.9	42.3	3.9	30.9	157.7	157.3	9.79	5.87	-2.12	-2.19	-19.63
GEW-150	4/9/2020 10:14:35 AM	22.7	41.2	3.9	32.2	161.3	161.1	13.96	7.60	-1.75	-1.85	-19.46
GEW-150	4/20/2020 2:03:06 PM	25.6	45.2	1.8	27.4	171.2	171.0	11.86	11.90	-1.35	-1.36	-18.90
GEW-150	4/20/2020 2:04:19 PM	25.8	44.0	1.8	28.4	171.5	171.0	12.47	12.32	-1.36	-1.35	-19.07
GEW-151	4/6/2020 10:45:49 AM	6.9	30.2	6.8	56.1	65.8	65.9	1.20	1.70	-0.18	-0.18	-19.03
GEW-151	4/6/2020 10:54:54 AM	6.6	31.0	6.8	55.6	66.3	66.3	1.20	1.69	-0.19	-0.19	-18.90
GEW-151	4/7/2020 8:38:29 AM	16.5	31.3	5.7	46.5	70.3	70.3	1.68	1.68	-0.21	-0.21	-19.49
GEW-151	4/7/2020 8:45:02 AM	19.1	30.9	5.7	44.3	70.0	70.0	1.19	2.06	-0.20	-0.20	-19.58
GEW-151	4/17/2020 9:04:10 AM	7.3	32.4	5.5	54.8	52.6	52.6	3.72	3.51	-0.21	-0.21	-19.92
GEW-151	4/17/2020 9:05:17 AM	7.4	32.5	5.5	54.6	52.8	52.8	3.51	3.51	-0.21	-0.20	-20.21
GEW-152	4/8/2020 3:49:04 PM	21.8	51.6	0.3	26.3	110.1	110.2	4.81	3.98	-2.97	-2.97	-18.66
GEW-152	4/8/2020 3:54:41 PM	22.0	49.6	0.7	27.7	110.2	110.2	2.69	2.69	-2.95	-2.95	-18.32
GEW-152	4/20/2020 3:05:48 PM	18.8	49.4	1.5	30.3	90.9	90.9	3.42	5.10	-3.24	-3.22	-20.13
GEW-153	4/8/2020 3:21:01 PM	22.6	29.3	0.0	48.1	122.6	122.6	13.88	11.19	-9.85	-9.81	-18.83
GEW-153	4/8/2020 3:26:41 PM	22.3	29.6	0.0	48.1	123.2	123.2	11.13	5.52	-9.60	-9.26	-19.21
GEW-153	4/20/2020 3:02:53 PM	21.9	31.2	0.0	46.9	117.1	117.1	6.94	8.16	-10.15	-10.15	-20.47
GEW-156	4/9/2020 10:57:57 AM	30.5	48.5	0.0	21.0	86.8	86.8	5.96	5.16	-11.54	-11.29	-19.25
GEW-156	4/9/2020 11:03:55 AM	31.0	45.2	0.0	23.8	88.8	88.9	5.14	5.94	-11.46	-11.46	-19.25
GEW-156	4/22/2020 1:51:25 PM	31.6	44.8	0.0	23.6	105.2	105.2	7.66	7.66	-9.73	-9.73	-18.53
GEW-157	4/9/2020 10:28:57 AM	35.2	42.4	2.1	20.3	83.7	83.7	5.69	6.23	-9.85	-9.85	-19.42
GEW-157	4/9/2020 10:35:17 AM	35.7	40.9	2.2	21.2	84.0	83.7	5.68	6.02	-9.85	-9.85	-19.46
GEW-157	4/20/2020 3:50:16 PM	35.5	47.2	1.2	16.1	91.9	92.0	5.27	2.97	-8.79	-8.79	-19.97
GEW-158	4/9/2020 9:10:56 AM	25.8	50.2	0.0	24.0	95.8	95.9	2.78	5.33	-1.61	-1.57	-19.97
GEW-158	4/9/2020 9:17:33 AM	26.6	46.8	0.0	26.6	96.0	96.0	7.45	11.19	-1.53	-1.52	-20.01
GEW-158	4/20/2020 3:21:37 PM	27.3	48.9	0.0	23.8	101.1	101.1	1.59	4.78	-1.38	-1.38	-19.76

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-160	4/8/2020 10:18:38 AM	22.8	37.2	1.0	39.0	94.8	94.8	2.75	1.94	-5.40	-5.40	-18.65
GEW-160	4/8/2020 10:25:06 AM	23.7	38.7	0.5	37.1	95.8	95.8	1.58	1.56	-5.74	-5.74	-18.90
GEW-160	4/16/2020 1:19:14 PM	21.2	38.3	0.9	39.6	70.1	70.2	1.74	1.05	-4.98	-4.99	-18.27
GEW-160	4/22/2020 9:34:56 AM	23.1	42.6	0.0	34.3	81.2	81.4	9.53	6.64	-5.33	-5.24	-19.25
GEW-160	4/29/2020 10:44:39 AM	22.2	39.0	0.2	38.6	56.3	56.4	1.20	1.26	-6.12	-6.12	-19.62
GEW-161	4/8/2020 9:57:01 AM	10.1	52.3	0.4	37.2	106.7	106.7	3.12	3.66	-3.65	-3.64	-18.99
GEW-161	4/8/2020 10:02:48 AM	10.6	49.9	0.0	39.5	107.0	107.2	3.97	3.12	-3.59	-3.59	-18.65
GEW-161	4/16/2020 1:16:33 PM	9.5	54.8	0.0	35.7	86.5	86.5	4.75	3.28	-3.16	-3.16	-18.27
GEW-161	4/22/2020 9:29:12 AM	7.2	61.1	0.0	31.7	95.2	95.3	9.74	6.98	-3.35	-3.31	-19.21
GEW-161	4/29/2020 10:42:30 AM	9.6	51.9	0.2	38.3	63.9	64.0	1.68	2.06	-4.29	-4.29	-19.41
GEW-162	4/8/2020 9:40:49 AM	14.4	64.5	0.1	21.0	93.5	93.4	1.86	1.89	-3.10	-3.10	-18.99
GEW-162	4/8/2020 9:52:26 AM	14.6	61.7	0.1	23.6	95.5	95.5	3.38	2.25	-3.19	-3.20	-18.94
GEW-162	4/16/2020 1:14:01 PM	15.1	59.8	0.1	25.0	65.8	65.9	3.41	3.41	-2.51	-2.50	-18.82
GEW-162	4/22/2020 9:26:35 AM	13.8	67.4	0.0	18.8	70.9	70.8	5.17	2.37	-3.01	-2.99	-19.21
GEW-162	4/29/2020 10:39:18 AM	16.1	60.1	0.0	23.8	56.8	56.7	5.13	4.69	-3.50	-3.49	-19.96
GEW-163	4/13/2020 1:43:20 PM	29.4	51.8	0.0	18.8	125.6	125.8	19.77	20.71	-4.87	-4.88	-19.03
GEW-163	4/13/2020 1:49:05 PM	29.4	50.8	0.0	19.8	126.9	127.2	24.85	25.48	-4.96	-4.96	-18.90
GEW-163	4/23/2020 10:55:25 AM	29.9	56.0	0.0	14.1	129.7	129.4	21.36	21.07	-5.49	-5.49	-19.53
GEW-164	4/13/2020 1:52:09 PM	33.7	48.8	0.0	17.5	140.3	140.3	22.19	22.63	-0.70	-0.71	-18.86
GEW-164	4/13/2020 1:57:56 PM	34.2	47.6	0.0	18.2	140.6	140.9	20.34	21.80	-0.73	-0.74	-18.48
GEW-164	4/22/2020 9:18:26 AM	33.7	48.2	0.0	18.1	142.2	142.4	20.01	19.70	-0.76	-0.75	-18.10
GEW-164	4/22/2020 9:19:40 AM	33.8	48.2	0.0	18.0	142.2	142.5	15.50	19.07	-0.78	-0.78	-18.73
GEW-165	4/13/2020 2:30:15 PM	19.9	42.8	4.1	33.2	141.2	140.9	11.63	13.60	-0.18	-0.19	-19.28
GEW-165	4/13/2020 2:36:13 PM	18.7	43.1	4.1	34.1	140.9	141.2	10.82	11.12	-0.19	-0.18	-18.99
GEW-165	4/22/2020 9:13:44 AM	17.7	41.0	4.5	36.8	142.2	142.5	7.86	8.24	-0.32	-0.32	-19.58
GEW-165	4/22/2020 9:15:22 AM	18.0	41.8	4.5	35.7	142.5	142.2	12.91	11.39	-0.28	-0.28	-19.45
GEW-166	4/13/2020 2:50:06 PM	7.6	52.3	0.0	40.1	83.3	83.0	4.41	4.68	-17.90	-17.90	-18.60
GEW-166	4/13/2020 2:55:51 PM	6.7	51.6	0.0	41.7	85.4	85.4	2.66	4.39	-18.24	-18.24	-18.94
GEW-166	4/23/2020 10:49:45 AM	8.1	45.3	3.7	42.9	170.0	169.5	15.28	16.52	-11.14	-11.14	-19.70
GEW-166	4/23/2020 10:51:09 AM	7.7	45.6	3.4	43.3	170.0	169.5	16.07	16.66	-11.14	-11.14	-19.53
GEW-167	4/8/2020 2:11:20 PM	14.0	48.6	0.2	37.2	148.4	148.4	5.24	3.25	-5.41	-5.41	-18.49
GEW-167	4/8/2020 2:16:36 PM	14.3	50.1	0.2	35.4	149.5	149.5	3.84	5.33	-5.41	-5.41	-18.62
GEW-167	4/20/2020 8:41:47 AM	15.9	47.4	0.1	36.6	148.0	148.4	1.89	1.84	-6.92	-6.92	-19.96
GEW-167	4/20/2020 8:43:11 AM	15.9	47.4	0.0	36.7	148.2	148.8	1.44	1.02	-6.92	-6.92	-19.92
GEW-168	4/14/2020 8:45:37 AM	29.6	41.7	5.1	23.6	88.9	89.3	3.85	3.85	-0.90	-0.89	-19.62
GEW-168	4/14/2020 8:51:10 AM	30.1	40.0	5.2	24.7	89.6	89.6	2.72	2.72	-0.92	-0.91	-19.66
GEW-168	4/23/2020 8:50:33 AM	44.6	48.4	0.4	6.6	78.0	78.0	11.36	11.36	-0.54	-0.54	-18.82
GEW-169	4/14/2020 8:56:22 AM	19.8	45.9	1.1	33.2	98.7	98.6	16.95	16.74	-0.05	-0.06	-19.62
GEW-169	4/14/2020 9:01:54 AM	19.1	46.9	1.0	33.0	96.7	96.7	13.72	16.80	-0.05	-0.05	-19.62
GEW-169	4/23/2020 10:45:08 AM	20.5	50.6	0.2	28.7	98.6	98.7	3.50	4.41	-0.05	-0.04	-19.45
GEW-170	4/13/2020 4:07:11 PM	13.0	42.4	3.5	41.1	109.2	108.9	11.82	7.93	-0.20	-0.20	-18.87

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-170	4/13/2020 4:12:41 PM	12.8	43.8	3.5	39.9	110.2	110.2	5.90	9.87	-0.27	-0.25	-18.87
GEW-170	4/23/2020 10:39:44 AM	13.0	40.5	4.3	42.2	123.9	123.6	2.14	2.14	-0.24	-0.24	-19.11
GEW-171	4/13/2020 10:26:07 AM	17.9	54.4	3.3	24.4	51.3	51.3	3.20	3.42	-10.53	-10.53	-19.17
GEW-171	4/13/2020 10:32:27 AM	18.1	53.1	3.5	25.3	49.9	49.9	3.65	4.03	-9.05	-8.96	-19.25
GEW-171	4/23/2020 9:40:32 AM	13.2	63.6	0.0	23.2	57.7	57.7	8.50	5.96	-0.38	-0.30	-19.25
GEW-172	4/13/2020 11:36:52 AM	22.1	47.8	1.0	29.1	143.5	142.9	21.88	21.88	-7.91	-7.91	-19.12
GEW-172	4/13/2020 11:42:50 AM	21.9	47.4	0.9	29.8	144.3	144.5	11.72	11.72	-7.57	-7.57	-18.91
GEW-172	4/22/2020 10:19:02 AM	18.8	39.9	3.9	37.4	152.9	152.2	4.14	3.62	-5.07	-5.07	-18.56
GEW-172	4/22/2020 10:20:20 AM	18.3	39.5	3.8	38.4	154.1	152.5	7.62	6.68	-5.07	-5.07	-18.39
GEW-174	4/13/2020 9:32:27 AM	13.6	34.9	0.1	51.4	107.5	107.7	22.17	32.75	-3.35	-3.32	-19.84
GEW-174	4/13/2020 9:38:47 AM	13.4	34.7	0.0	51.9	108.5	108.1	16.61	17.81	-3.34	-3.39	-19.80
GEW-174	4/23/2020 1:36:12 PM	15.2	38.2	0.0	46.6	116.0	116.0	9.73	14.01	-1.90	-1.89	-19.08
GEW-175	4/9/2020 9:32:13 AM	27.9	36.6	4.9	30.6	133.2	133.5	39.87	37.97	-0.14	-0.13	-20.89
GEW-175	4/9/2020 9:37:55 AM	28.0	35.5	4.8	31.7	133.7	133.6	35.39	36.20	-0.16	-0.13	-20.22
GEW-175	4/20/2020 1:47:20 PM	28.9	36.8	3.7	30.6	137.1	137.1	35.37	35.19	-0.20	-0.20	-19.62
GEW-175	4/20/2020 1:48:33 PM	29.5	36.9	3.8	29.8	137.1	137.1	32.30	33.54	-0.21	-0.21	-19.62
GEW-177	4/14/2020 8:47:51 AM	12.1	58.4	0.0	29.5	169.0	169.0	28.33	21.38	-16.58	-16.58	-18.79
GEW-177	4/14/2020 8:53:24 AM	12.5	54.2	0.0	33.3	169.5	169.5	16.60	22.51	-16.32	-16.53	-18.28
GEW-177	4/22/2020 1:14:07 PM	14.7	51.5	0.0	33.8	170.5	170.6	13.43	12.19	-13.85	-13.85	-15.90
GEW-177	4/22/2020 1:16:03 PM	14.6	51.0	0.0	34.4	170.5	170.5	14.10	12.20	-13.85	-13.85	-16.62
GEW-178	4/9/2020 11:29:20 AM	36.4	46.6	2.8	14.2	71.6	71.6	3.95	4.46	-0.15	-0.11	-19.17
GEW-178	4/9/2020 11:35:34 AM	36.6	43.9	3.5	16.0	72.1	72.2	7.71	5.45	-0.31	-0.32	-19.04
GEW-178	4/20/2020 3:55:03 PM	35.2	43.8	3.6	17.4	77.1	77.1	4.41	3.33	-0.39	-0.39	-20.09
GEW-179	4/9/2020 1:46:26 PM	47.2	49.3	0.2	3.3	86.3	86.3	11.79	14.66	-1.52	-1.62	-18.79
GEW-179	4/9/2020 1:52:04 PM	47.3	49.5	0.1	3.1	85.2	85.3	13.10	10.42	-1.63	-1.63	-18.83
GEW-179	4/22/2020 11:34:41 AM	44.8	51.0	0.0	4.2	93.4	93.4	3.42	2.55	-1.57	-1.57	-17.90
GEW-180	4/9/2020 2:55:58 PM	35.0	62.1	1.1	1.8	82.3	82.4	11.78	13.38	-15.90	-15.90	-17.27
GEW-180	4/9/2020 3:01:39 PM	35.4	62.5	0.6	1.5	83.8	83.7	7.34	7.84	-15.90	-15.90	-18.45
GEW-180	4/22/2020 11:39:53 AM	31.8	59.8	1.6	6.8	90.3	90.3	6.47	6.28	-14.84	-14.88	-18.03
GEW-181	4/9/2020 3:14:57 PM	28.1	71.9	0.0	0.0	70.7	70.8	11.10	11.10	-16.91	-16.91	-19.17
GEW-181	4/9/2020 3:20:50 PM	28.2	71.8	0.0	0.0	70.8	70.7	10.75	10.75	-16.45	-16.45	-19.04
GEW-181	4/22/2020 11:45:33 AM	26.4	73.4	0.0	0.2	83.5	83.5	19.37	15.07	-14.08	-13.91	-18.24
GEW-185	4/13/2020 10:18:03 AM	42.7	54.0	0.0	3.3	68.2	68.3	3.56	2.90	-0.29	-0.30	-19.62
GEW-185	4/13/2020 10:24:22 AM	42.2	54.3	0.0	3.5	67.5	67.6	2.70	2.95	-0.22	-0.22	-19.62
GEW-185	4/23/2020 9:18:52 AM	41.2	54.9	0.0	3.9	80.2	80.0	0.64	2.42	-0.31	-0.31	-19.15
GEW-185	4/28/2020 8:21:17 AM	41.7	54.7	0.0	3.6	92.4	92.4	8.93	8.48	-0.46	-0.46	-19.55
GEW-185	4/28/2020 8:23:00 AM	40.9	57.1	0.0	2.0	109.5	109.7	9.82	9.82	-3.76	-3.76	-19.63
GEW-186	4/13/2020 3:39:33 PM	38.4	44.1	1.3	16.2	64.4	64.4	4.83	6.11	-0.06	-0.02	-18.87
GEW-186	4/13/2020 3:45:17 PM	38.6	43.5	1.3	16.6	64.0	64.0	9.97	9.97	-0.02	-0.02	-18.87
GEW-186	4/23/2020 10:37:02 AM	36.0	39.3	1.8	22.9	69.9	69.9	3.22	2.29	-0.03	-0.02	-19.11
GEW-187	4/9/2020 8:50:47 AM	44.7	49.2	0.1	6.0	104.5	104.5	6.38	5.56	-2.12	-2.12	-20.25

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

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		(% vol)				°F		scfm		H ₂ O		
GEW-187	4/9/2020 8:56:53 AM	44.2	50.0	0.0	5.8	105.5	105.0	8.00	8.00	-2.12	-2.12	-20.30
GEW-187	4/16/2020 1:54:39 PM	44.0	50.4	0.0	5.6	102.8	102.8	6.77	6.77	-1.85	-1.86	-18.14
GEW-187	4/22/2020 10:19:26 AM	43.4	53.7	0.0	2.9	107.5	107.3	7.45	5.33	-2.05	-2.04	-19.12
GEW-187	4/30/2020 8:47:01 AM	44.7	50.3	0.0	5.0	102.5	102.5	9.13	7.40	-2.11	-2.11	-19.58
GEW-217	4/9/2020 11:20:02 AM	11.2	61.1	0.3	27.4	150.2	150.6	4.44	2.69	-7.82	-8.03	-18.87
GEW-217	4/9/2020 11:25:37 AM	11.6	65.1	0.3	23.0	151.0	151.3	12.75	10.28	-7.91	-7.82	-18.87
GEW-217	4/20/2020 1:40:03 PM	6.2	57.8	0.0	36.0	175.8	175.8	5.40	6.58	4.77	4.77	-16.36
GEW-217	4/20/2020 1:42:57 PM	5.9	59.4	0.0	34.7	183.4	182.7	4.13	4.97	-2.31	-2.30	-16.24
GEW-218	4/9/2020 2:18:45 PM	23.7	44.0	1.2	31.1	98.4	98.7	9.88	11.45	-0.62	-0.64	-19.25
GEW-218	4/9/2020 2:24:14 PM	23.7	43.5	1.2	31.6	98.7	98.7	8.40	9.41	-0.66	-0.62	-19.29
GEW-218	4/22/2020 11:25:45 AM	23.1	43.9	1.3	31.7	101.0	101.1	10.82	8.44	-0.62	-0.61	-18.11
GEW-220	4/8/2020 2:21:54 PM	32.7	51.2	0.0	16.1	156.0	156.0	7.70	10.22	-10.57	-10.57	-18.37
GEW-220	4/8/2020 2:27:34 PM	33.4	48.8	0.0	17.8	156.5	156.6	11.41	10.60	-10.70	-10.49	-18.53
GEW-220	4/20/2020 9:06:13 AM	25.7	53.3	0.0	21.0	187.6	187.6	9.46	9.51	-4.52	-4.52	-19.03
GEW-220	4/20/2020 9:07:43 AM	25.9	53.3	0.0	20.8	187.8	187.0	9.29	9.42	-4.52	-4.52	-19.32
GEW-221	4/9/2020 3:30:58 PM	29.7	58.4	0.0	11.9	109.8	109.7	6.42	3.86	-15.22	-15.22	-19.00
GEW-221	4/9/2020 3:36:51 PM	30.8	57.3	0.0	11.9	109.8	109.7	5.02	3.21	-15.31	-15.22	-18.83
GEW-221	4/22/2020 1:38:36 PM	28.1	57.4	0.0	14.5	114.8	115.0	9.85	9.85	-15.01	-15.01	-18.45
GEW-222	4/13/2020 10:05:35 AM	37.7	47.2	0.2	14.9	68.4	68.4	7.14	7.60	-8.79	-9.13	-19.67
GEW-222	4/13/2020 10:11:47 AM	38.0	46.1	0.1	15.8	69.1	69.1	7.68	8.53	-9.01	-9.13	-19.33
GEW-222	4/23/2020 9:37:00 AM	37.9	45.0	0.4	16.7	79.4	79.4	13.76	17.22	-7.48	-7.44	-19.67
GEW-223	4/13/2020 2:12:17 PM	32.4	65.0	0.0	2.6	88.4	88.4	5.10	11.41	-5.37	-5.12	-18.07
GEW-223	4/13/2020 2:18:43 PM	32.4	64.8	0.0	2.8	84.7	84.6	13.74	8.68	-5.16	-5.16	-18.03
GEW-223	4/23/2020 9:54:11 AM	31.8	66.1	0.0	2.1	90.1	90.3	10.62	9.36	-5.41	-5.41	-19.55
GEW-224	4/13/2020 2:23:36 PM	32.7	59.0	0.0	8.3	141.6	141.6	12.93	10.94	-14.50	-14.55	-19.25
GEW-224	4/13/2020 2:29:55 PM	33.6	58.7	0.0	7.7	141.2	141.2	14.59	11.13	-14.55	-14.67	-17.99
GEW-224	4/22/2020 10:13:18 AM	32.1	57.0	0.0	10.9	151.3	151.4	10.76	10.62	-13.00	-13.00	-18.39
GEW-224	4/22/2020 10:14:31 AM	32.7	56.4	0.0	10.9	151.7	151.4	9.68	10.90	-12.83	-12.83	-17.21
GEW-225	4/13/2020 2:33:06 PM	18.9	54.0	0.0	27.1	145.9	146.3	7.63	10.84	-6.77	-6.77	-19.42
GEW-225	4/13/2020 2:39:08 PM	19.3	53.9	0.0	26.8	146.3	145.9	4.48	8.43	-6.68	-6.43	-19.63
GEW-225	4/22/2020 10:09:01 AM	18.6	51.2	0.0	30.2	163.9	163.8	7.98	8.17	-5.40	-5.40	-18.99
GEW-225	4/22/2020 10:09:54 AM	18.3	51.5	0.0	30.2	163.8	164.3	7.05	7.53	-5.40	-5.40	-19.15
GEW-226	4/13/2020 1:37:22 PM	13.2	36.5	0.0	50.3	172.6	172.6	3.97	10.89	-3.46	-3.35	-19.17
GEW-226	4/13/2020 1:43:58 PM	12.9	36.5	0.0	50.6	173.6	173.6	16.85	16.01	-3.12	-3.10	-19.42
GEW-226	4/22/2020 9:59:08 AM	12.9	37.6	0.0	49.5	178.7	178.0	16.19	15.69	-2.40	-2.40	-18.90
GEW-226	4/22/2020 10:00:09 AM	13.0	37.4	0.0	49.6	178.6	178.6	15.24	15.24	-2.42	-2.41	-18.86
GEW-227	4/10/2020 10:52:26 AM	1.9	42.2	1.1	54.8	182.1	182.6	11.21	11.21	-0.02	-0.02	-18.65
GEW-227	4/10/2020 10:58:11 AM	1.9	40.7	1.2	56.2	182.3	182.1	11.01	10.98	-0.02	-0.02	-18.65
GEW-227	4/21/2020 8:53:25 AM	1.1	38.4	2.5	58.0	179.7	179.7	9.63	10.36	-0.19	-0.20	-19.75
GEW-227	4/21/2020 8:54:58 AM	1.0	37.3	2.5	59.2	179.7	179.2	11.12	11.06	-0.13	-0.13	-19.70
GEW-228	4/6/2020 3:43:46 PM	14.4	29.5	4.1	52.0	197.2	197.2	1.88	2.10	-0.25	-0.24	-17.93

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

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		(% vol)				°F		scfm		H ₂ O		
GEW-228	4/6/2020 3:45:15 PM	16.4	27.8	4.2	51.6	197.2	197.2	9.67	9.28	-0.12	-0.12	-18.35
GEW-228	4/9/2020 1:20:36 PM	4.8	14.9	9.9	70.4	159.4	159.0	15.92	15.92	-1.00	-1.00	-19.24
GEW-228	4/9/2020 1:27:05 PM	4.8	14.5	9.8	70.9	156.9	156.0	6.76	6.74	-0.38	-0.38	-18.94
GEW-228	4/17/2020 8:54:08 AM	4.7	24.5	7.0	63.8	183.9	183.9	6.97	6.87	-0.07	-0.07	-20.13
GEW-228	4/17/2020 8:57:14 AM	4.3	24.9	7.0	63.8	183.9	183.9	4.14	4.36	-0.07	-0.06	-20.17
GEW-228	4/29/2020 11:18:14 AM	2.5	24.9	6.1	66.5	173.6	173.6	4.90	4.47	-0.07	-0.07	-19.71
GEW-228	4/29/2020 11:20:03 AM	2.2	26.3	6.0	65.5	173.1	173.1	2.12	2.12	-0.04	-0.04	-19.67
GEW-229	4/6/2020 10:26:25 AM	14.5	29.7	0.0	55.8	63.9	64.0	1.70	1.70	0.02	0.02	-19.11
GEW-229	4/6/2020 10:34:26 AM	14.3	30.1	0.0	55.6	72.7	73.2	7.00	6.26	-0.02	-0.02	-19.07
GEW-229	4/27/2020 8:53:39 AM	1.8	12.2	12.7	73.3	90.1	90.1	7.81	7.81	-0.02	-0.02	-20.72
GEW-229	4/27/2020 8:54:58 AM	1.6	11.9	12.7	73.8	90.4	90.3	11.34	11.34	-0.03	-0.03	-20.68
GEW-230	4/6/2020 3:13:27 PM	4.8	47.2	0.8	47.2	157.7	158.1	2.04	3.39	0.03	0.03	-17.84
GEW-230	4/6/2020 3:19:32 PM	5.1	46.8	0.7	47.4	163.3	163.4	10.54	10.74	-0.11	-0.11	-17.93
GEW-230	4/16/2020 3:48:51 PM	2.7	34.0	4.5	58.8	142.5	142.5	10.28	13.74	-0.02	-0.03	-18.45
GEW-230	4/16/2020 3:53:21 PM	2.7	34.3	4.3	58.7	143.9	142.5	7.81	4.91	-0.04	-0.01	-18.91
GEW-232	4/9/2020 1:42:48 PM	27.9	57.4	0.0	14.7	168.2	168.1	7.19	7.34	-1.72	-1.72	-19.03
GEW-232	4/9/2020 1:48:12 PM	27.8	56.9	0.0	15.3	168.5	167.6	7.03	7.16	-1.72	-1.72	-18.86
GEW-232	4/20/2020 11:00:25 AM	33.0	59.2	0.0	7.8	165.2	165.2	8.22	8.16	-1.79	-1.79	-18.10
GEW-232	4/20/2020 11:01:20 AM	33.1	59.1	0.0	7.8	165.7	165.8	8.15	7.90	-1.83	-1.83	-18.44
GEW-233	4/10/2020 11:03:46 AM	0.8	39.6	2.6	57.0	84.0	85.6	1.72	2.72	-0.05	-0.04	-15.64
GEW-233	4/10/2020 11:10:47 AM	0.8	39.8	2.5	56.9	82.3	82.4	4.40	4.40	-0.02	-0.03	-13.19
GEW-233	4/23/2020 11:01:16 AM	1.7	55.2	0.0	43.1	58.2	58.2	2.64	0.67	-0.16	-0.16	-19.37
GEW-234	4/10/2020 2:08:01 PM	9.6	49.2	0.5	40.7	197.2	197.2	9.47	9.45	-0.09	-0.09	-18.90
GEW-234	4/10/2020 2:14:03 PM	9.4	48.4	0.5	41.7	197.3	197.2	9.40	7.73	-0.09	-0.10	-18.99
GEW-234	4/21/2020 8:42:22 AM	4.9	38.5	6.1	50.5	197.9	197.9	7.75	8.10	-0.59	-0.59	-19.70
GEW-234	4/21/2020 8:45:28 AM	4.4	39.0	6.2	50.4	195.7	195.7	3.79	4.14	-0.48	-0.47	-19.75
GEW-234	4/29/2020 1:28:06 PM	1.0	61.2	0.0	37.8	200.8	200.8	4.92	6.01	-0.17	-0.17	-19.29
GEW-234	4/29/2020 1:29:29 PM	0.8	65.5	0.0	33.7	200.8	200.8	9.93	12.80	-0.34	-0.34	-19.42
GEW-235	4/13/2020 11:00:21 AM	28.4	53.1	0.0	18.5	104.3	104.4	4.96	4.44	-3.93	-3.95	-19.15
GEW-235	4/13/2020 11:05:56 AM	28.8	51.6	0.0	19.6	106.5	106.5	2.72	1.94	-3.97	-3.98	-18.94
GEW-235	4/23/2020 9:21:28 AM	26.9	53.5	0.0	19.6	117.7	117.9	4.50	3.64	-3.44	-3.43	-19.15
GEW-236	4/10/2020 10:14:11 AM	3.9	48.4	0.8	46.9	205.4	205.4	5.45	4.04	-1.11	-1.11	-19.49
GEW-236	4/10/2020 10:23:31 AM	3.8	47.7	1.0	47.5	205.4	205.4	5.66	5.62	-1.15	-1.16	-17.84
GEW-236	4/22/2020 1:27:32 PM	3.7	46.9	1.8	47.6	203.1	203.1	7.58	7.58	-0.89	-0.89	-17.00
GEW-236	4/22/2020 1:29:52 PM	3.4	44.2	1.8	50.6	203.1	203.1	7.64	5.98	-0.91	-0.91	-18.82
GEW-237	4/8/2020 2:32:46 PM	33.2	40.7	3.4	22.7	156.4	156.1	10.88	5.14	-0.07	-0.06	-18.53
GEW-237	4/8/2020 2:38:26 PM	34.1	39.8	3.3	22.8	155.6	155.6	10.65	9.43	-0.08	-0.07	-18.49
GEW-237	4/21/2020 8:20:42 AM	32.0	36.9	4.3	26.8	150.6	150.5	11.29	9.94	-0.09	-0.10	-20.21
GEW-237	4/21/2020 8:22:38 AM	31.9	37.5	4.2	26.4	150.6	150.6	10.04	11.43	-0.09	-0.08	-20.17
GEW-238	4/9/2020 2:03:45 PM	6.5	63.0	0.0	30.5	198.6	198.6	15.93	15.98	-0.13	-0.13	-18.82
GEW-238	4/9/2020 2:09:57 PM	6.8	60.9	0.0	32.3	198.6	198.6	16.28	16.37	-0.17	-0.16	-18.69

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GEW-238	4/20/2020 10:50:33 AM	17.9	62.9	0.0	19.2	190.2	190.2	18.39	17.71	-0.93	-0.92	-17.55
GEW-238	4/20/2020 10:51:57 AM	17.3	60.7	0.0	22.0	190.2	190.2	17.07	17.23	-0.92	-0.92	-17.67
GEW-239	4/6/2020 2:30:56 PM	1.4	55.6	0.0	43.0	203.1	203.1	4.75	3.01	-0.27	-0.27	-18.56
GEW-239	4/6/2020 2:37:57 PM	1.4	54.5	0.0	44.1	203.1	203.1	4.56	4.14	-0.24	-0.24	-18.10
GEW-239	4/16/2020 3:39:25 PM	1.2	58.8	0.0	40.0	198.0	197.9	8.58	8.64	-0.24	-0.24	-18.20
GEW-239	4/16/2020 3:40:39 PM	1.0	61.8	0.0	37.2	198.6	197.9	5.48	6.69	-0.21	-0.24	-18.70
GEW-240	4/13/2020 9:47:08 AM	1.9	30.0	8.0	60.1	192.9	192.9	13.04	13.42	-0.78	-0.85	-19.33
GEW-240	4/13/2020 9:54:00 AM	1.7	28.6	8.1	61.6	192.9	193.0	13.34	12.08	-0.23	-0.22	-19.25
GEW-240	4/22/2020 9:34:20 AM	4.0	46.0	0.3	49.7	200.9	200.8	12.15	11.77	0.05	0.05	-18.86
GEW-240	4/22/2020 9:36:41 AM	3.4	47.8	0.3	48.5	201.5	201.2	10.70	11.43	-0.05	-0.05	-18.94
GEW-2S	4/2/2020 10:59:28 AM	56.2	34.5	1.3	8.0	67.9	67.9	7.93	6.87	-0.42	-0.43	-13.48
GEW-2S	4/7/2020 2:23:41 PM	56.2	34.1	1.5	8.2	85.9	85.9	6.17	6.76	-0.55	-0.55	-13.40
GEW-2S	4/7/2020 2:30:13 PM	56.5	33.7	1.5	8.3	86.4	86.4	8.27	5.51	-0.56	-0.50	-13.40
GEW-2S	4/14/2020 2:11:28 PM	56.3	33.4	0.9	9.4	65.0	65.0	17.12	15.92	-0.32	-0.33	-13.06
GEW-2S	4/21/2020 10:54:28 AM	57.8	36.1	1.0	5.1	69.9	70.0	11.20	8.40	-0.35	-0.34	-12.85
GEW-2S	4/28/2020 9:44:38 AM	57.0	36.1	1.2	5.7	76.6	76.6	11.03	9.10	-0.41	-0.44	-12.85
GEW-2S	4/28/2020 9:51:53 AM	57.6	34.3	1.2	6.9	77.1	77.1	10.29	8.20	-0.43	-0.44	-13.14
GIW-01	4/8/2020 10:39:55 AM	29.0	57.7	0.0	13.3	150.2	150.2	4.62	4.62	-0.55	-0.54	-17.97
GIW-01	4/8/2020 12:53:05 PM	27.5	55.7	0.1	16.7	152.1	151.7	9.14	8.72	-0.24	-0.24	-18.48
GIW-01	4/8/2020 12:59:33 PM	28.6	54.9	0.0	16.5	152.1	151.7	7.50	6.76	-0.21	-0.21	-18.18
GIW-01	4/16/2020 1:27:08 PM	28.8	58.2	0.0	13.0	137.7	137.7	6.34	5.98	-0.52	-0.51	-17.93
GIW-01	4/16/2020 1:28:06 PM	29.6	56.6	0.0	13.8	137.7	137.8	6.48	6.48	-0.54	-0.55	-17.93
GIW-01	4/21/2020 3:43:31 PM	30.3	58.6	0.0	11.1	134.3	134.1	2.61	13.07	-1.09	-1.01	-19.00
GIW-01	4/21/2020 3:44:41 PM	29.7	60.4	0.0	9.9	134.1	134.1	8.51	3.19	-1.02	-1.04	-18.83
GIW-01	4/29/2020 10:54:10 AM	30.6	55.7	0.0	13.7	130.9	130.9	7.21	5.21	-1.48	-1.47	-18.94
GIW-01	4/29/2020 10:55:23 AM	30.6	55.6	0.0	13.8	131.2	131.4	6.47	6.47	-1.44	-1.44	-18.94
GIW-02	4/8/2020 1:02:58 PM	10.6	60.4	0.0	29.0	103.5	103.5	2.24	2.24	-0.21	-0.21	-18.65
GIW-02	4/8/2020 1:09:22 PM	10.4	57.8	0.1	31.7	105.4	105.3	2.49	2.73	-0.19	-0.19	-18.94
GIW-02	4/16/2020 1:33:05 PM	9.1	56.8	0.2	33.9	69.2	69.2	5.08	3.80	-0.22	-0.21	-18.39
GIW-02	4/21/2020 3:47:15 PM	8.1	53.5	1.7	36.7	73.1	73.1	7.97	7.42	-0.35	-0.34	-18.91
GIW-02	4/29/2020 10:57:47 AM	12.3	52.8	0.0	34.9	59.2	59.2	1.21	1.72	-0.44	-0.43	-20.04
GIW-03	4/8/2020 1:12:16 PM	22.0	48.1	0.4	29.5	100.6	100.6	2.02	2.02	-7.43	-7.43	-18.56
GIW-03	4/8/2020 1:17:44 PM	23.0	47.6	0.2	29.2	99.7	99.7	3.83	3.32	-7.43	-7.43	-18.52
GIW-03	4/16/2020 1:38:17 PM	23.4	44.9	0.2	31.5	63.7	63.7	3.78	3.39	-7.09	-7.09	-18.60
GIW-03	4/21/2020 3:49:57 PM	22.1	52.1	0.2	25.6	75.0	74.9	7.95	7.86	-8.71	-8.71	-19.00
GIW-03	4/29/2020 11:00:11 AM	22.5	48.8	0.0	28.7	57.7	57.8	1.69	1.69	-7.77	-7.77	-19.96
GIW-04	4/8/2020 1:21:25 PM	18.8	47.3	1.1	32.8	101.1	101.1	3.86	2.95	-3.83	-3.82	-18.65
GIW-04	4/8/2020 1:26:48 PM	20.4	48.3	0.3	31.0	103.0	103.0	2.48	2.48	-3.91	-3.91	-18.60
GIW-04	4/16/2020 1:41:03 PM	19.7	45.9	1.3	33.1	61.5	61.6	3.22	2.98	-3.58	-3.58	-18.27
GIW-04	4/21/2020 3:52:31 PM	21.4	52.0	0.4	26.2	75.1	75.2	1.66	1.17	-4.74	-4.74	-19.50
GIW-04	4/29/2020 11:02:35 AM	19.9	46.9	0.7	32.5	57.8	57.9	3.19	3.19	-4.38	-4.38	-20.04

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GIW-05	4/8/2020 1:29:37 PM	1.2	3.8	19.0	76.0	102.5	102.8	2.23	2.23	-2.14	-2.14	-18.60
GIW-05	4/8/2020 1:35:54 PM	3.5	5.1	16.5	74.9	102.8	102.8	2.49	2.23	-2.16	-2.15	-18.56
GIW-05	4/16/2020 1:42:36 PM	0.7	3.4	19.5	76.4	63.3	63.3	2.89	3.13	-2.01	-2.01	-18.27
GIW-05	4/16/2020 1:43:39 PM	0.3	1.6	20.0	78.1	64.0	64.0	1.78	1.07	-2.04	-2.03	-18.27
GIW-05	4/21/2020 3:56:02 PM	17.4	37.4	4.9	40.3	78.5	78.7	6.81	4.21	-3.21	-3.18	-19.17
GIW-05	4/29/2020 11:04:45 AM	0.7	7.2	20.7	71.4	57.2	57.2	3.43	3.21	-2.65	-2.63	-19.92
GIW-05	4/29/2020 11:07:49 AM	0.1	0.5	21.0	78.4	56.3	56.3	1.72	1.72	-2.78	-2.78	-19.62
GIW-06	4/8/2020 1:42:11 PM	34.2	39.6	0.1	26.1	101.1	101.1	2.15	2.15	-17.56	-17.56	-18.65
GIW-06	4/8/2020 1:48:08 PM	34.1	40.3	0.0	25.6	102.5	102.5	2.63	2.14	-17.90	-17.90	-18.52
GIW-06	4/16/2020 1:46:06 PM	34.2	38.6	0.1	27.1	63.6	63.7	4.78	3.50	-17.56	-17.56	-18.27
GIW-06	4/21/2020 3:58:53 PM	34.1	43.2	0.0	22.7	79.0	79.1	1.59	1.59	-18.86	-18.86	-19.50
GIW-06	4/29/2020 1:36:10 PM	34.5	38.9	0.0	26.6	57.7	57.7	4.84	3.55	-18.57	-18.57	-19.07
GIW-07	4/8/2020 1:51:15 PM	49.1	43.6	0.6	6.7	101.9	102.1	3.70	3.53	-2.22	-2.22	-18.52
GIW-07	4/8/2020 1:56:49 PM	50.3	43.6	0.3	5.8	102.3	102.3	2.23	2.23	-2.25	-2.25	-18.60
GIW-07	4/16/2020 1:47:57 PM	48.6	43.6	0.6	7.2	65.0	65.1	5.99	4.95	-2.41	-2.40	-18.27
GIW-07	4/21/2020 4:01:18 PM	49.9	47.2	0.2	2.7	74.9	75.0	9.55	8.23	-3.05	-3.02	-19.50
GIW-07	4/29/2020 1:38:04 PM	49.7	43.0	0.3	7.0	57.7	57.7	3.70	3.70	-2.64	-2.65	-19.28
GIW-08	4/8/2020 2:00:16 PM	47.1	44.0	0.0	8.9	107.0	107.0	1.56	3.13	-2.17	-2.16	-18.86
GIW-08	4/8/2020 2:05:50 PM	47.5	44.1	0.0	8.4	104.0	104.0	3.52	2.22	-2.16	-2.16	-18.52
GIW-08	4/16/2020 1:57:15 PM	44.3	44.3	0.0	11.4	66.5	66.6	1.77	1.30	-2.51	-2.52	-17.93
GIW-08	4/21/2020 4:04:07 PM	45.3	45.7	0.0	9.0	78.0	78.0	2.62	1.65	-2.92	-2.91	-18.96
GIW-08	4/29/2020 1:40:07 PM	47.8	43.7	0.0	8.5	57.7	57.7	3.28	3.28	-3.01	-3.00	-19.03
GIW-09	4/8/2020 2:09:32 PM	22.9	40.1	0.4	36.6	97.2	97.2	2.53	2.53	-0.84	-0.84	-18.52
GIW-09	4/8/2020 2:14:45 PM	24.1	42.4	0.1	33.4	98.3	98.3	1.95	1.13	-0.81	-0.82	-18.56
GIW-09	4/16/2020 1:59:15 PM	22.5	38.4	0.2	38.9	65.9	66.1	3.43	1.77	-0.92	-0.91	-17.93
GIW-09	4/21/2020 4:06:35 PM	22.4	42.1	0.1	35.4	77.3	77.5	1.18	2.04	-1.27	-1.25	-20.51
GIW-09	4/29/2020 1:42:26 PM	23.1	38.7	0.0	38.2	57.9	57.9	3.71	3.51	-1.36	-1.34	-19.07
GIW-10	4/8/2020 2:22:07 PM	25.8	34.2	0.0	40.0	99.9	99.9	2.24	1.12	-3.14	-3.14	-18.69
GIW-10	4/8/2020 2:27:41 PM	26.2	33.0	0.0	40.8	101.1	101.1	1.93	1.93	-3.18	-3.18	-18.86
GIW-10	4/16/2020 2:01:15 PM	24.5	34.3	0.0	41.2	68.6	68.8	1.30	1.06	-3.31	-3.30	-18.27
GIW-10	4/21/2020 3:01:10 PM	23.3	34.7	0.0	42.0	78.4	78.4	8.88	6.28	-4.03	-3.98	-18.96
GIW-10	4/29/2020 1:44:28 PM	24.2	34.0	0.0	41.8	58.8	58.8	0.71	0.71	-3.97	-3.98	-19.07
GIW-11	4/8/2020 2:30:55 PM	27.4	33.8	0.3	38.5	98.9	98.9	3.37	3.89	-2.14	-2.13	-18.56
GIW-11	4/8/2020 2:36:54 PM	27.7	33.4	0.3	38.6	99.1	99.1	4.63	5.38	-2.18	-2.18	-18.77
GIW-11	4/16/2020 2:03:24 PM	24.9	34.0	0.3	40.8	69.3	69.3	1.76	3.52	-2.19	-2.20	-17.42
GIW-11	4/21/2020 2:58:41 PM	23.8	35.9	0.3	40.0	73.4	73.3	5.41	4.42	-2.62	-2.61	-18.79
GIW-11	4/29/2020 1:47:20 PM	24.6	33.2	0.0	42.2	58.6	58.5	2.61	0.72	-2.52	-2.53	-18.05
GIW-12	4/8/2020 2:40:50 PM	34.1	37.1	0.1	28.7	99.9	99.9	1.95	1.95	-0.27	-0.26	-18.86
GIW-12	4/8/2020 2:46:04 PM	34.0	36.8	0.1	29.1	100.5	100.5	2.25	2.25	-0.27	-0.26	-18.69
GIW-12	4/16/2020 2:06:28 PM	31.8	36.5	0.5	31.2	66.4	66.5	1.78	3.12	-0.22	-0.23	-17.93
GIW-12	4/21/2020 2:54:06 PM	32.5	37.4	0.6	29.5	73.5	73.5	8.47	8.72	-0.46	-0.46	-18.87

April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
GIW-12	4/29/2020 1:49:29 PM	32.0	35.6	0.1	32.3	57.4	57.3	1.41	1.79	-0.50	-0.50	-19.24
GIW-13	4/8/2020 2:49:17 PM	46.9	45.8	0.0	7.3	100.1	100.1	1.95	2.25	-0.88	-0.88	-14.12
GIW-13	4/8/2020 2:54:43 PM	46.9	45.0	0.0	8.1	99.9	99.9	2.25	1.95	-0.87	-0.86	-15.01
GIW-13	4/16/2020 2:08:07 PM	47.2	44.3	0.0	8.5	68.4	68.5	6.54	4.94	-1.01	-1.00	-13.87
GIW-13	4/21/2020 2:51:43 PM	47.7	45.8	0.0	6.5	74.3	74.3	8.93	6.99	-1.42	-1.38	-19.76
GIW-13	4/29/2020 1:51:41 PM	48.7	43.3	0.0	8.0	57.5	57.5	1.41	1.41	-1.40	-1.38	-19.32
LCS-1D	4/2/2020 10:14:40 AM	55.4	37.4	1.1	6.1	64.4	64.3	4.50	4.40	-3.20	-3.19	-16.58
LCS-1D	4/22/2020 1:36:58 PM	54.6	39.0	1.1	5.3	79.8	79.8	2.79	3.63	-1.50	-1.51	-14.93
LCS-2D	4/2/2020 1:58:39 PM	54.3	40.3	0.2	5.2	73.4	73.2	7.88	8.50	-16.55	-16.55	-18.35
LCS-2D	4/22/2020 2:05:25 PM	55.4	44.6	0.0	0.0	77.4	77.5	7.89	6.85	-18.01	-18.39	-18.24
LCS-3D	4/2/2020 2:06:27 PM	29.5	63.0	0.0	7.5	127.5	127.8	8.07	10.55	-8.78	-8.78	-9.39
LCS-3D	4/22/2020 1:58:45 PM	27.2	69.4	0.0	3.4	130.9	131.4	17.16	9.03	-8.58	-8.79	-11.12
LCS-3D	4/22/2020 2:00:15 PM	27.1	70.1	0.0	2.8	131.2	131.4	4.32	14.18	-8.79	-8.84	-10.78
LCS-4B	4/3/2020 8:58:44 AM	6.8	23.6	13.8	55.8	63.0	63.0	1.67	2.92	-3.11	-3.10	-19.28
LCS-4B	4/3/2020 9:05:35 AM	7.5	29.8	12.7	50.0	63.5	63.5	2.92	2.66	-2.36	-2.34	-19.24
LCS-4B	4/16/2020 1:39:21 PM	8.4	29.5	12.7	49.4	62.4	62.6	6.58	0.87	-13.91	-13.87	-18.07
LCS-4B	4/16/2020 1:40:58 PM	11.1	45.8	7.5	35.6	62.1	61.9	3.30	4.25	-4.90	-5.00	-18.20
LCS-5A	4/1/2020 11:43:33 AM	56.2	42.9	0.0	0.9	85.0	85.1	12.85	13.67	-10.32	-10.49	-12.72
LCS-5A	4/6/2020 2:44:52 PM	57.5	40.8	0.0	1.7	88.0	88.0	13.67	13.67	-10.15	-10.15	-12.68
LCS-5A	4/14/2020 10:20:45 AM	56.4	42.4	0.0	1.2	79.1	78.9	7.18	10.86	-11.50	-11.16	-13.14
LCS-5A	4/21/2020 9:29:58 AM	57.1	41.9	0.0	1.0	81.7	81.6	14.32	8.12	-10.57	-10.61	-12.47
LCS-5A	4/28/2020 10:49:10 AM	56.0	42.4	0.0	1.6	90.3	90.3	19.73	21.46	-10.11	-10.11	-12.30
LCS-5B	4/1/2020 1:51:02 PM	54.5	41.8	0.0	3.7	133.1	133.2	11.06	11.06	-10.49	-10.49	-13.06
LCS-5B	4/1/2020 1:52:09 PM	54.7	41.9	0.0	3.4	130.8	131.2	14.24	14.24	-11.16	-11.16	-12.97
LCS-5B	4/6/2020 2:48:04 PM	54.9	41.7	0.0	3.4	132.6	132.9	12.84	15.44	-10.78	-10.49	-12.97
LCS-5B	4/6/2020 2:49:17 PM	54.4	42.5	0.0	3.1	133.0	132.9	16.80	16.42	-9.56	-9.81	-12.85
LCS-5B	4/14/2020 10:35:46 AM	54.4	43.5	0.0	2.1	124.2	124.5	11.21	13.25	-11.16	-11.50	-13.48
LCS-5B	4/21/2020 9:45:48 AM	54.8	43.0	0.0	2.2	121.5	121.0	10.51	11.15	-11.50	-11.50	-13.02
LCS-5B	4/28/2020 11:00:53 AM	53.8	43.5	0.0	2.7	131.9	131.7	7.71	13.03	-10.82	-10.82	-12.81
LCS-5B	4/28/2020 11:02:15 AM	54.4	43.0	0.0	2.6	131.0	131.2	20.52	10.46	-11.42	-11.16	-13.48
LCS-6B	4/2/2020 11:16:54 AM	50.6	40.9	0.0	8.5	107.7	107.2	24.72	14.92	-2.52	-2.53	-13.31
LCS-6B	4/2/2020 11:19:05 AM	49.8	41.8	0.0	8.4	101.8	101.6	9.25	9.25	-1.38	-1.38	-12.64
LCS-6B	4/6/2020 2:55:18 PM	53.3	43.0	0.0	3.7	103.0	102.8	5.37	7.58	-0.51	-0.52	-12.26
LCS-6B	4/14/2020 2:49:58 PM	54.1	41.1	0.0	4.8	89.8	89.6	14.20	14.20	-0.72	-0.71	-12.93
LCS-6B	4/21/2020 2:08:34 PM	51.3	41.2	0.3	7.2	84.2	84.2	18.49	17.44	-1.38	-1.36	-13.02
LCS-6B	4/28/2020 2:07:07 PM	53.0	41.0	0.0	6.0	98.9	98.9	15.07	17.92	-1.12	-1.07	-13.14
SEW-002	4/2/2020 1:36:30 PM	41.6	18.5	4.7	35.2	75.5	75.5	1.61	1.61	-14.23	-14.23	-14.59
SEW-002	4/27/2020 9:06:05 AM	47.1	28.3	4.4	20.2	69.0	69.0	6.42	6.62	-15.31	-15.26	-15.50
SEW-003	4/3/2020 9:21:16 AM	3.1	41.1	3.7	52.1	71.4	71.4	3.37	4.60	-0.07	-0.06	-19.53
SEW-003	4/22/2020 1:59:46 PM	4.6	51.4	3.0	41.0	82.8	82.8	6.94	6.75	-0.17	-0.17	-18.86
T-56	4/2/2020 11:37:42 AM	53.3	37.5	0.0	9.2	57.5	57.2	13.81	13.29	-0.01	-0.02	-13.48

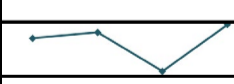
April 2020 Wellfield Monitoring Data - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO ₂	O ₂	Balance Gas	Init Temp	Adj Temp	Init Flow	Adj Flow	Init Static Press	Adj Static Press	System Pressure
		(% vol)				°F		scfm		H ₂ O		
T-56	4/6/2020 3:01:43 PM	53.7	38.5	0.0	7.8	60.9	59.9	11.18	11.35	-0.04	-0.03	-13.18
T-56	4/15/2020 8:19:19 AM	51.8	36.5	0.0	11.7	53.4	53.7	11.37	11.37	-0.03	-0.03	-13.69
T-56	4/22/2020 9:19:51 AM	49.8	36.1	0.0	14.1	60.7	60.7	14.42	15.74	-0.01	-0.02	-13.23
T-56	4/28/2020 2:24:46 PM	57.8	36.7	0.0	5.5	68.8	67.6	20.98	20.93	-0.01	-0.01	-13.52

ATTACHMENT D-2

MAXIMUM WELLHEAD TEMPERATURE TABLE

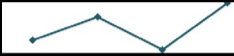
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	January 2020	February 2020	March 2020	April 2020	><30°F	
GEW-002	110.7	110.1	111.3	112.6		
GEW-003	108.4	105.7	108.7	116.0		
GEW-004	106.7	105.5	108.7	112.4		
GEW-005	76.4	84.5	77.7	85.4		
GEW-006	81.2	78.7	78.6	86.1		
GEW-007	89.8	87.9	89.8	92.2		
GEW-008	110.7	110.0	111.5	113.2		
GEW-009	119.4	120.7	121.3	122.3		
GEW-010	79.8	65.0	95.6	92.6		
GEW-013A	192.9	192.3	191.6	188.3		
GEW-015	97.0	100.9	94.1	105.5		
GEW-016R	166.9	168.1	162.9	169.0		
GEW-018B	180.3	182.7	193.6	194.3		
GEW-019A	50.4	45.3	55.0	79.6		
GEW-039	106.2	104.8	107.5	106.0		
GEW-040	52.6	47.0	65.8	84.4		
GEW-041R	74.1	56.2	73.0	89.6		
GEW-042R	101.8	99.9	101.8	103.5		
GEW-043R	115.5	114.1	115.2	115.5		
GEW-044	70.5	54.4	68.4	81.9		
GEW-045R	89.0	83.5	90.1	94.6		
GEW-046R	84.5	72.0	87.2	99.6		
GEW-047R	98.9	97.4	99.1	104.4		
GEW-048	94.3	93.2	94.3	98.0		
GEW-049	90.8	65.9	73.6	88.4		
GEW-050	98.4	99.4	98.7	99.3		
GEW-051	117.7	116.9	118.9	117.6		
GEW-052	100.8	99.9	103.3	103.0		
GEW-053	141.9	141.5	142.4	142.5		
GEW-054	146.3	146.3	146.3	146.0		
GEW-055	124.2	122.3	127.3	128.0		
GEW-056R	85.2	60.2	102.3	110.1		
GEW-057B	141.5	151.3	86.8	164.3		
GEW-058A	57.5	49.4	127.8	117.6		
GEW-059R	122.6	110.0	128.3	139.3		
GEW-067A	202.3	197.9	200.1	199.3		
GEW-068A	201.6	197.9	192.9	191.7		
GEW-078R	152.1	144.2	152.5	151.3		
GEW-082R	173.1	171.0	173.5	171.6		

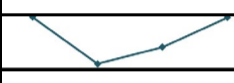
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	January 2020	February 2020	March 2020	April 2020	><30°F	
GEW-086	183.9	188.3	182.7	187.9		
GEW-087	179.7	195.0	171.0	148.8		
GEW-088	180.3	190.2	194.3	181.9		
GEW-090	162.8	166.1	167.6	168.5		
GEW-091	195.7	187.2	200.8	170.0		
GEW-100	138.3	37.2	190.5	174.2		
GEW-101	72.0	49.9	70.7	82.1		
GEW-102	41.6	54.7	72.3	79.4		
GEW-104	178.6	185.7	189.6	175.3		
GEW-105	120.2	127.5	125.6	123.4		
GEW-106	171.6	162.9	165.2	179.0		
GEW-107	128.4	111.6	120.7	137.1		
GEW-108	179.7	154.8	174.7	168.1		
GEW-109	104.7	82.7	91.8	85.6		
GEW-110	67.7	53.0	103.9	107.2		
GEW-113	171.9	176.4	175.8	178.6		
GEW-116	158.5	158.5	117.9	154.0		
GEW-117	149.8	120.7	146.6	143.9		
GEW-118	188.3	188.7	196.4	200.1		
GEW-120	122.3	98.9	65.3	102.8		
GEW-121	142.5	147.8	135.3	141.9		
GEW-122	89.3	90.1	96.7	90.8		
GEW-123	62.6	61.2	70.4	63.5		
GEW-124	58.0	43.7	54.2	57.0		
GEW-125	63.0	48.2	57.5	60.9		
GEW-126	66.3	47.0	58.9	57.8		
GEW-127	60.4	54.4	75.9	66.3		
GEW-128	--	--	--	--		Temporarily decommissioned
GEW-129	134.1	105.5	118.1	114.8		
GEW-130	159.4	152.9	154.4	155.6		
GEW-131	121.0	90.3	112.5	107.2		
GEW-132	126.4	121.0	125.8	133.8		
GEW-133	120.2	84.7	129.2	85.3		
GEW-134	69.8	76.1	60.4	91.0		
GEW-135	97.9	102.6	107.8	112.0		
GEW-137	64.0	53.9	75.2	81.9		
GEW-138	51.0	38.9	--	--		Temporarily decommissioned
GEW-139	143.2	183.3	149.9	158.5		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	January 2020	February 2020	March 2020	April 2020	><30°F	
GEW-140	120.2	81.8	124.5	120.5		
GEW-144	--	47.0	72.5	69.2		
GEW-145	43.1	56.1	63.9	81.4		
GEW-147	178.4	163.3	156.5	164.7		
GEW-148	145.2	160.7	152.5	159.0		
GEW-149	59.2	75.3	52.6	85.1		
GEW-150	128.9	186.4	168.5	171.5		
GEW-151	64.2	93.1	80.1	70.3		
GEW-152	80.0	84.7	88.1	110.2		
GEW-153	88.2	88.6	96.4	123.2		
GEW-154	--	--	--	--		Temporarily decommissioned
GEW-155	--	--	--	--		Temporarily decommissioned
GEW-156	93.1	81.7	94.1	105.2		
GEW-157	77.3	61.5	76.8	92.0		
GEW-158	92.0	82.1	94.6	101.1		
GEW-159	78.7	38.4	--	--		Temporarily decommissioned
GEW-160	63.7	46.8	78.2	95.8		
GEW-161	89.3	61.9	82.6	107.2		
GEW-162	64.2	38.3	75.4	95.5		
GEW-163	130.9	136.9	134.1	129.7		
GEW-164	154.9	147.3	148.4	142.5		
GEW-165	144.5	150.6	158.9	142.5		
GEW-166	167.1	175.3	169.5	170.0		
GEW-167	143.2	140.6	138.7	149.5		
GEW-168	129.3	122.6	118.4	89.6		
GEW-169	94.3	74.3	99.9	98.7		
GEW-170	123.0	104.8	121.8	123.9		
GEW-171	63.0	44.1	78.8	57.7		
GEW-172	159.8	155.6	149.9	154.1		
GEW-173	--	--	--	--		Temporarily decommissioned
GEW-174	116.6	119.4	118.9	116.0		
GEW-175	144.9	141.5	137.1	137.1		
GEW-176	61.2	37.3	--	--		Temporarily decommissioned
GEW-177	171.2	169.0	169.0	170.6		
GEW-178	71.5	54.5	74.1	77.1		
GEW-179	68.1	75.7	88.2	93.4		

Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	January 2020	February 2020	March 2020	April 2020	><30°F	
GEW-180	83.8	68.9	83.6	90.3		
GEW-181	65.3	66.1	78.0	83.5		
GEW-182	--	--	--	--		Temporarily decommissioned
GEW-184	--	--	--	--		Temporarily decommissioned
GEW-185	112.7	91.7	109.0	109.7		
GEW-186	70.7	68.4	94.1	69.9		
GEW-187	113.0	98.7	104.8	107.5		
GEW-188	--	--	--	--		Temporarily decommissioned
GEW-217	185.0	52.9	100.4	183.4		
GEW-218	97.2	98.8	105.5	101.1		
GEW-219	164.7	140.6	--	--		Temporarily decommissioned
GEW-220	151.7	136.5	185.7	187.8		
GEW-221	84.4	81.2	95.8	115.0		
GEW-222	87.9	72.5	81.2	79.4		
GEW-223	129.8	73.4	109.2	90.3		
GEW-224	162.9	144.5	154.8	151.7		
GEW-225	180.3	167.6	169.9	164.3		
GEW-226	184.5	180.9	180.4	178.7		
GEW-227	191.6	201.6	187.7	182.6		
GEW-228	202.3	195.2	192.3	197.2		
GEW-229	87.7	81.7	89.9	90.4		
GEW-230	156.0	156.5	158.5	163.4		
GEW-231	117.0	118.0	--	--		Temporarily decommissioned
GEW-232	139.0	193.5	168.5	168.5		
GEW-233	127.2	145.2	97.2	85.6		
GEW-234	197.9	201.6	199.8	200.8		
GEW-235	121.9	116.3	120.3	117.9		
GEW-236	203.9	203.9	207.0	205.4		
GEW-237	146.3	144.9	156.9	156.4		
GEW-238	187.6	187.6	196.4	198.6		
GEW-239	203.9	203.9	203.9	203.1		
GEW-240	205.4	205.4	205.4	201.5		
GEW-2S	62.9	54.3	67.5	86.4		
GIW-01	91.0	98.7	148.8	152.1		
GIW-02	58.0	47.9	84.2	105.4		
GIW-03	56.0	59.5	74.8	100.6		
GIW-04	53.8	45.9	75.2	103.0		

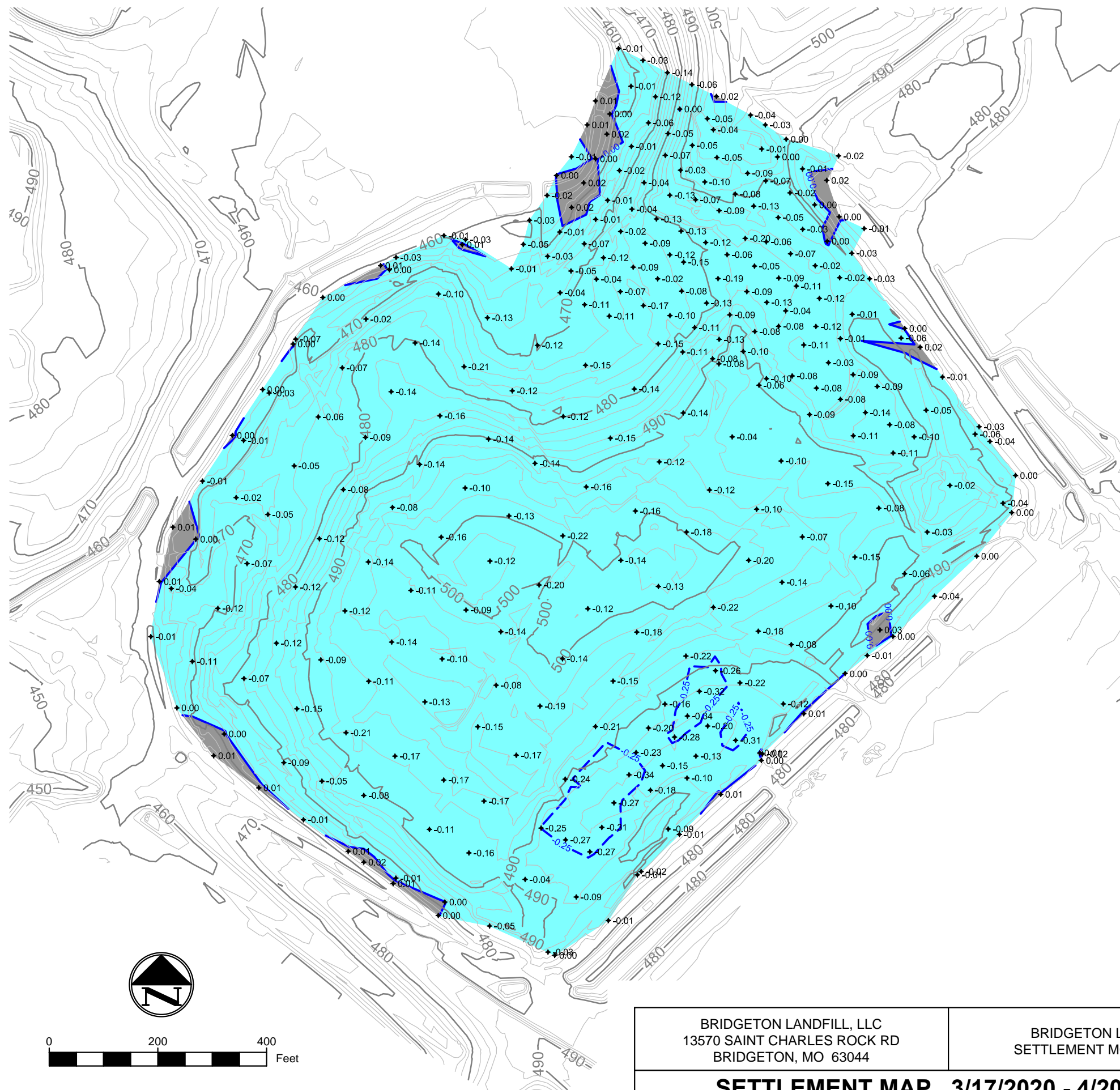
Wellfield Temperature - Bridgeton Landfill

Well Name					Temp Trend	Comments
	January 2020	February 2020	March 2020	April 2020	><30°F	
GIW-05	52.1	46.4	76.4	102.8		
GIW-06	54.7	46.4	76.6	102.5		
GIW-07	56.5	46.9	74.1	102.3		
GIW-08	53.9	47.0	79.8	107.0		
GIW-09	52.3	46.7	74.3	98.3		
GIW-10	54.7	47.3	73.6	101.1		
GIW-11	55.6	47.6	75.2	99.1		
GIW-12	57.2	47.4	76.3	100.5		
GIW-13	58.0	47.5	75.5	100.1		
LCS-1D	63.0	54.2	53.6	79.8		
LCS-2D	60.7	37.6	69.4	77.5		
LCS-3D	142.9	109.7	125.6	131.4		
LCS-4B	50.5	46.5	67.2	63.5		
LCS-5A	80.5	74.7	81.7	90.3		
LCS-5B	128.1	130.9	132.6	133.2		
LCS-6B	58.8	48.5	99.8	107.7		
SEW-002	66.0	47.1	60.7	75.5		
SEW-003	66.0	83.3	58.7	82.8		
T-56	49.8	43.4	49.6	68.8		

-- = 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	1,496,193.14	Cyan
6	0.00	1.00	36,293.34	Grey

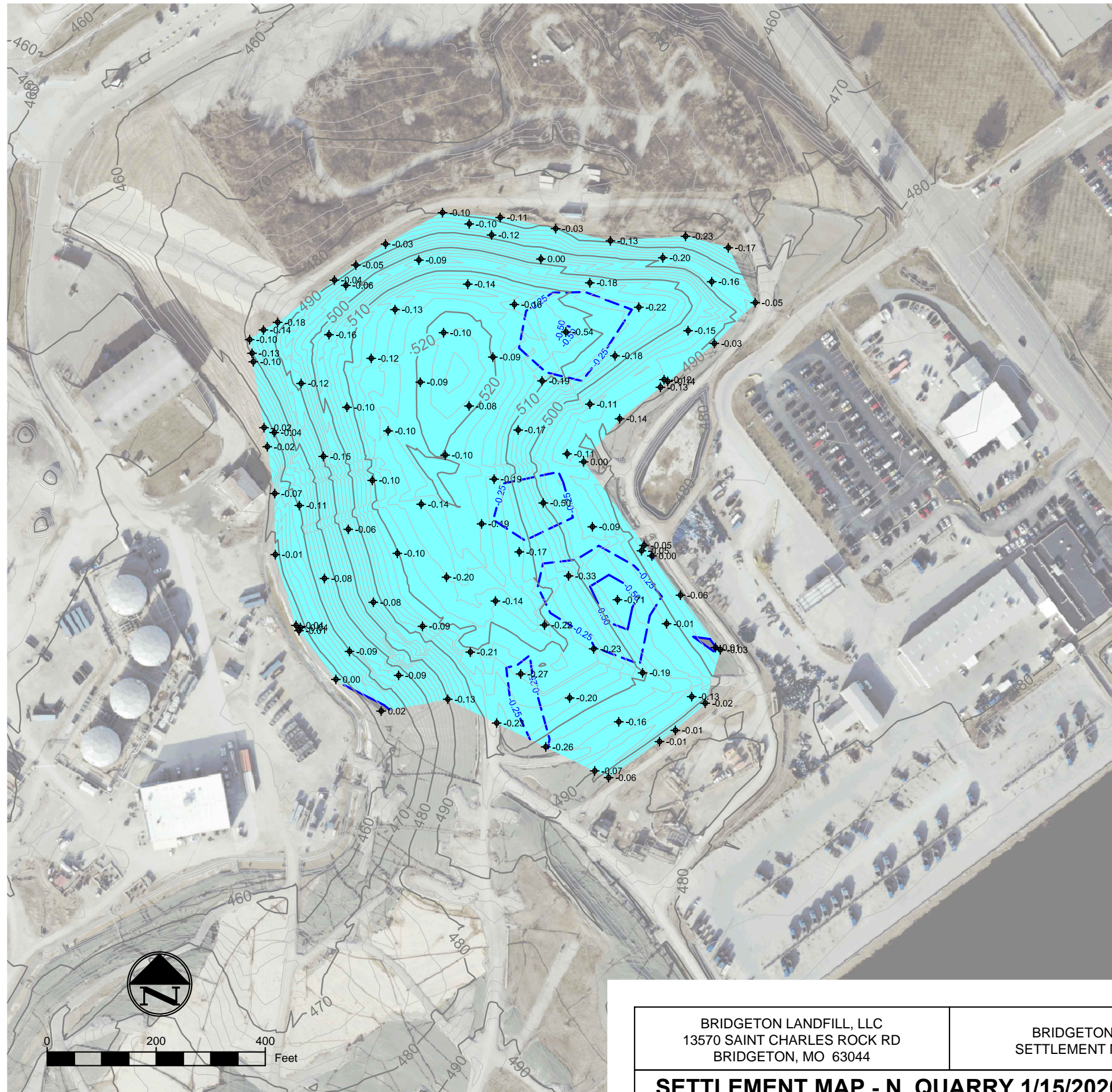
LEGEND

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
 - 12-10-2019 TOPOGRAPHY (10' CONTOUR)
 - .25 MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - .50 MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - .03 SPOT ELEVATION DIFFERENCE (3-17-2020 to 4-20-2020)
 - 4-2020 *SETTLEMENT FRONT CONTOUR FOR AREA WITH 1.53' PER 34 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR APRIL 2020

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 10, 2019.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 3-17-20 FROM SPOT ELEVATIONS SURVEYED ON 4-20-20.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL SETTLEMENT MONITORING		APRIL 2020 DESIGNED BY: IN APPROVED BY: DRF	DRAWING NO.: 001
SETTLEMENT MAP 3/17/2020 - 4/20/2020				
PROJECT NUMBER: BT-145 FILE PATH: D:\Dropbox (Feezor Engineering)\Brideton\100-149BT-145 (Agreed Order Reporting)\Monthly Reports\2020\4-2020\Report\Internal Draft\Site Data\Settlement\Settlement And Fill 4-20-2020.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	641,186.20	Cyan
6	0.00	1.00	1,011.36	Grey

LEGEND

- 12-10-2019 TOPOGRAPHY (2' CONTOUR)
 - 12-10-2019 TOPOGRAPHY (10' CONTOUR)
 - MINOR ELEVATION CHANGE CONTOUR (0.25 FEET)
 - MAJOR ELEVATION CHANGE CONTOUR (0.50 FEET)
 - SPOT ELEVATION DIFFERENCE (1-15-2020 to 4-20-2020)
 - *SETTLEMENT FRONT CONTOUR FOR AREA WITH 4.32' PER 96 DAYS FOR CURRENT PERIOD OF DAYS
- *NONE FOR 1-15-2020 THROUGH 4-20-2020

NOTES:

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY COOPER AERIAL SURVEYS CO. ON DECEMBER 10, 2019.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. ELEVATION DIFFERENCE DETERMINED BY SUBTRACTING SPOT ELEVATIONS SURVEYED ON 1-15-20 FROM SPOT ELEVATIONS SURVEYED ON 4-20-20.
4. SURVEY POINTS WERE PERFORMED USING GPS METHODS.
5. SETTLEMENT RANGE SURFACE WAS GENERATED FROM THE SPOT ELEVATION DIFFERENCES.
6. ELEVATION DIFFERENCES THAT ARE SHOWN AS NEGATIVE INDICATE SPOTS OF SETTLEMENT.
7. ANY POINTS THAT ARE NOT A GROUND-TO-GROUND COMPARISON TO THE PREVIOUS MONTH'S POINTS, OR THAT WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH ARE NOT INCLUDED AND WERE NOT USED IN ANY SURFACE GENERATION.

BRIDGETON LANDFILL, LLC 13570 SAINT CHARLES ROCK RD BRIDGETON, MO 63044	BRIDGETON LANDFILL SETTLEMENT MONITORING	
SETTLEMENT MAP - N. QUARRY 1/15/2020 - 4/20/2020		APRIL 2020 DESIGNED BY: IN APPROVED BY: DRF
PROJECT NUMBER: BT-145 FILE PATH: D:\Dropbox (Feezor Engineering)\Bridgeton\100-149BT-145 (Agreed Order Reporting)\Quarterly Settlement\2020-04\Quarterly NO Settlement 4-20-2020.dwg		REVISION DATE
		DRAWING NO.: 003

ATTACHMENT F

LIQUID CHARACTERIZATION DATA AND DISCHARGE LOG

Bridgeton Landfill - Leachate PreTreatment Plant

April 2020

Liquid Characterization Data

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

Hauled Disposal to MSD – Bissell Point

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

Direct Discharge to MSD

Date	Waste	Source	Quantity (gal)
4/1/2020			103,240
4/2/2020			95,427
4/3/2020			220,481
4/4/2020			162,584
4/5/2020			112,731
4/6/2020			201,602
4/7/2020			225,956
4/8/2020			238,077
4/9/2020			197,805
4/10/2020			108,719
4/11/2020			113,325
4/12/2020			106,601
4/13/2020			172,331
4/14/2020			261,002
4/15/2020	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	217,002
4/16/2020			116,938
4/17/2020			104,854
4/18/2020			96,232
4/19/2020			98,504
4/20/2020			143,486
4/21/2020			215,383
4/22/2020			200,556
4/23/2020			179,726
4/24/2020			69,451
4/25/2020			137,933
4/26/2020			204,305
4/27/2020			210,643
4/28/2020			187,667
4/29/2020			106,239
4/30/2020			137,500
Total			4,746,300

ATTACHMENT G

VOLUMES OF LEACHATE PROCESSED

Bridgeton Landfill - Leachate Volumes
April 2020

Total volume of leachate from the individual leachate collection sumps during the month. Additional non-LCS leachate was collected and the total volume was 2,124,215 gallons. Therefore, the total leachate collected was 3,717,233 gallons.

ID	Volume
LCS -1D	0
LCS-2D	0
LCS-3D	167,700
LCS-4B	0
LCS-5A	1,387,008
LCS-5B	36,480
LCS-6B	1,830

ATTACHMENT H

SLIP FAILURE AND SEPARATION ASSESSMENT



April 27, 2020

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

RE: Bridgeton Slip Failure and Separation Assessment
1st Quarter 2020 Inspection

Dear Erin

On March 17, 2020, I performed an inspection of the Bridgeton Landfill for the purpose of identifying any visual evidence of instability or incipient failure. The inspection included the North and South Quarry fill areas. This inspection was for the 1st quarter of 2020. The previous inspection was performed on December 16, 2019.

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

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

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 upslope 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 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 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. Fill material placement was ongoing in the low areas to the inside the quarry wall limits along the south portion of the South Quarry.

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

In addition, a review of the monthly settlement at grid points in the South Quarry for the past quarter and settlement in the North Quarry between January 15, 2020 and April 20, 2020 was performed. I did not see any indication of instability in the data. No indication of instability was observed in the South Quarry based on settlement patterns. As mentioned in previous reports, the Bridgeton site has not exhibited a coupling of instability and settlement. .

This is the thirtieth (30) 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.

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Sincerely,



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