Bridgeton Landfill, LLC

Monthly Data Submittals

January 2015

Required by Section 52.E of Agreed Order, Case No. 13SL-CC01088
Effective May 13, 2013

Contents:

Commentary on Data
Attachment A Daily Flare Monitoring Data
- **A-1** Data Spreadsheet
- **A-2** Data Graphs

Attachment B Work Completed and Planned
Attachment C Carbon Monoxide Maps
Attachment D Hydrogen Maps
Attachment E Settlement Front Maps
Attachment F Gas Wellfield Data
- **F-1** GEM Data Spreadsheet
- **F-2** Maximum Temperature Spreadsheet
- **F-3** Lab Analyses Spreadsheet

Attachment G Wellhead Temperature Maps
Attachment H Summary of Odor Complaints
Attachment I Liquid Characterization Data
Attachment J Liquid Transport Manifest Logs

Provided Separately:

– Flare Raw Data Excel Spreadsheet
– Gas Wellfield Raw Data Excel Spreadsheet

February 20, 2015

Commentary on Data, February 20, 2015

The following observations and comments are offered for the January 2015 data, exclusive of temperature data for the GIW series wells, which are undergoing cooling loop installation and evaluation:

Gas Volume

- As seen in Attachment A-2, gas collection volumetric rate in January averaged about 6,939 SCFM, which matches the seasonal trend for flow identified over the past 2 years (refer to Total Combined Flow Graph in Attachment A-2). Operations personnel have noticed a direct correlation between the decrease in flow and the decrease in ambient temperatures.

Gas Quality

- Attachments F-2, F-3, and G contain the monthly data related to gas quality and temperature as measured at the respective wellheads. Ten vertical wells (GEW-027A, -028R, -037, -110, -136, -148, and -153; LCS-3C; and SEW-60R and -61R) decreased by 30°F or more in January; the majority to near ambient temperatures due to minimal flow conditions. All wells are located in the south quarry of the landfill. Additionally, fourteen vertical wells (GEW-014A, - 021A, -044, -049, -069R, -077, -109, -116, -123, -138, and -154; PGW-60; and SEW-67 and -79R) increased by 30°F or more, and are all within the historical gas temperature norms for these wells, and result from re-establishment of gas flow from these wells.

- Attachment F-1 shows that 38 vertical wells had oxygen levels over 5% at one or more weekly monitoring events in January. By the end of the month, 30 of these wells still exhibited oxygen at the wellhead at or greater than 5%. All these wells are low-flow/vacuum sensitive wells with valves only slightly open. On-going tuning and maintenance and pump operation is being performed to manage the oxygen content. The wells are in the south quarry area where the flexible membrane liner cap is in place to prevent atmospheric intrusion into the waste mass.

- A detailed review of the gas extraction wells in the neck area was conducted. Temperature is consistent with previous months in each of the monitorable wells in vicinity to the neck. Carbon monoxide (CO) results from January showed a decreasing trend ranging from 38 to 1,200 ppm. The largest variances in CO in the neck area wells occurred in wells GIW-04, -10 and GEW-038, with 1,200, to 900 ppmv decreases from December to January, however still remain within historical norms.

- All wells in the North Quarry continue to exhibit a maximum wellhead temperature under 145° F for the month of January, with the exception of GEW-054, that had a maximum temperature of 154° F during the month, which is within the historical operational range for this well. Therefore, monthly carbon monoxide testing will

resume until this well gas temperature is below 140° F. Carbon monoxide (CO) results showed a slight decrease in GEW-053, and non-detect (ND) for all other North Quarry wells including GEW-002 and GEW-004. These two wells had low level detection concentrations in the previous bi-monthly sampling event. Review of weekly gas quality in Attachment F-1 reveals that all of the active North Quarry gas wells continue to have low, if any, oxygen and healthy methane and carbon dioxide levels indicating normal wellfield conditions for aged waste at all locations, consistent with well conditions observed in the North Quarry for some time.

New Wells

- This data set includes 36 newly installed gas extraction wells in the south quarry during December and January.

Settlement

- The South Quarry exhibited monthly maximum settlement up to 1.75 feet (see Attachment E) which is consistent with last month. The rate of settlement directly south of the neck continues to be small and stable compared to late 2013 levels.

Bird Monitoring and Mitigation

- Bridgeton Landfill conducted bird monitoring during January 2015 in accordance with the Approved Bird Hazard Monitoring and Mitigation Plan. Logs of bird population observations were provided to the Airport on a weekly basis. No change in bird population or bird hazards were observed and no bird mitigation measures were necessary.

ATTACHMENT A

DAILY FLARE MONITORING DATA

ATTACHMENT A-1

DATA SPREADSHEET

Daily Flare Monitoring Data - Bridgeton Landfill
8/1/2014 - 1/31/2015

Date	Average Device Flow (scfm)				Total Avg. Flow (scfm)
	Candlestick Flare (FL-100)	Candlestick Flare (FL-140)	Candlestick Flare (FL-120)	E. Aux. Candlestick Flare	
8/1/2014	2,121	3,620	3,072	0	8,814
8/2/2014	2,135	3,650	3,103	0	8,888
8/3/2014	2,235	3,484	2,952	0	8,671
8/4/2014	2,272	3,806	3,206	0	9,284
8/5/2014	2,241	3,748	3,193	32	9,215
8/6/2014	1,925	3,206	2,744	0	7,875
8/7/2014	2,040	3,496	3,135	0	8,671
8/8/2014	2,128	3,615	3,087	0	8,830
8/9/2014	2,070	3,552	3,039	0	8,661
8/10/2014	2,128	3,652	3,102	0	8,882
8/11/2014	2,153	3,674	3,096	0	8,923
8/12/2014	2,065	3,588	3,098	0	8,751
8/13/2014	2,147	3,691	3,158	0	8,996
8/14/2014	2,240	3,588	3,048	0	8,877
8/15/2014	2,229	3,759	3,152	0	9,140
8/16/2014	2,080	3,589	3,095	0	8,763
8/17/2014	2,081	3,596	3,095	0	8,772
8/18/2014	2,149	3,656	3,221	0	9,026
8/19/2014	2,152	3,699	3,420	0	9,270
8/20/2014	2,107	3,713	3,340	0	9,159
8/21/2014	2,138	3,629	3,319	0	9,086
8/22/2014	2,249	3,814	3,397	0	9,460
8/23/2014	2,359	3,905	3,495	0	9,759
8/24/2014	2,275	3,458	3,256	0	8,988
8/25/2014	2,363	3,936	3,496	0	9,794
8/26/2014	2,094	3,501	3,061	0	8,656
8/27/2014	2,156	3,816	3,325	0	9,297
8/28/2014	2,073	3,863	3,170	0	9,105
8/29/2014	2,012	3,749	3,200	0	8,961
8/30/2014	1,966	3,474	3,437	0	8,877
8/31/2014	2,142	3,640	3,464	0	9,245

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	Candlestick Flare (FL-100)	Candlestick Flare (FL-140)	Candlestick Flare (FL-120)	E. Aux. Candlestick Flare	
9/1/2014	1,954	3,154	3,383	0	8,491
9/2/2014	1,670	3,136	3,740	0	8,546
9/3/2014	1,739	3,479	3,630	34	8,882
9/4/2014	2,298	3,381	3,323	0	9,002
9/5/2014	2,320	3,467	3,321	0	9,108
9/6/2014	2,009	3,115	3,271	0	8,395
9/7/2014	2,102	3,212	3,256	0	8,569
9/8/2014	2,080	3,204	3,243	0	8,526
9/9/2014	2,037	3,526	2,960	0	8,523
9/10/2014	1,916	3,721	2,806	0	8,443
9/11/2014	1,799	3,450	2,651	0	7,900
9/12/2014	1,720	3,374	2,725	0	7,819
9/13/2014	1,782	3,477	2,740	0	7,999
9/14/2014	1,877	3,618	2,674	0	8,169
9/15/2014	1,928	3,595	2,654	0	8,176
9/16/2014	1,935	3,576	2,612	0	8,123
9/17/2014	1,927	3,503	2,704	0	8,134
9/18/2014	2,058	3,716	2,741	0	8,515
9/19/2014	2,111	3,769	2,801	0	8,681
9/20/2014	2,259	3,156	3,125	0	8,540
9/21/2014	2,119	2,785	3,156	0	8,060
9/22/2014	2,177	2,978	3,165	0	8,320
9/23/2014	2,210	3,008	3,257	0	8,476
9/24/2014	2,214	2,970	3,152	415	8,752
9/25/2014	2,215	2,981	3,049	721	8,966
9/26/2014	2,375	3,139	3,259	231	9,004
9/27/2014	2,357	3,151	3,341	0	8,850
9/28/2014	2,409	3,164	3,336	0	8,909
9/29/2014	2,244	3,025	3,105	467	8,841
9/30/2014	2,332	3,044	3,235	233	8,844

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	Candlestick Flare (FL-100)	Candlestick Flare (FL-140)	Candlestick Flare (FL-120)	E. Aux. Candlestick Flare	
10/1/2014	2,322	3,027	3,331	49	8,729
10/2/2014	2,167	2,859	3,262	0	8,288
10/3/2014	1,983	2,690	3,138	0	7,810
10/4/2014	1,932	2,691	3,078	0	7,701
10/5/2014	2,042	2,772	3,205	0	8,020
10/6/2014	2,148	2,829	3,171	0	8,148
10/7/2014	2,109	2,824	3,206	0	8,140
10/8/2014	2,189	2,869	3,126	0	8,184
10/9/2014	2,043	2,727	3,124	0	7,894
10/10/2014	1,953	2,625	3,093	0	7,671
10/11/2014	1,949	2,629	3,073	0	7,652
10/12/2014	2,020	2,647	3,062	0	7,729
10/13/2014	2,023	2,580	3,064	0	7,666
10/14/2014	1,922	2,545	3,063	0	7,530
10/15/2014	1,952	2,587	3,035	0	7,574
10/16/2014	2,087	2,732	3,102	0	7,921
10/17/2014	2,066	2,665	3,099	0	7,830
10/18/2014	1,961	2,585	3,065	0	7,612
10/19/2014	1,992	2,620	3,061	0	7,673
10/20/2014	1,989	2,696	3,183	28	7,896
10/21/2014	2,078	2,712	3,091	0	7,881
10/22/2014	2,063	2,670	3,109	0	7,842
10/23/2014	2,052	2,654	3,095	0	7,800
10/24/2014	2,153	2,760	3,139	0	8,052
10/25/2014	2,288	2,840	3,202	0	8,330
10/26/2014	2,192	2,783	3,218	0	8,193
10/27/2014	2,217	2,774	3,219	0	8,210
10/28/2014	2,058	2,622	3,108	0	7,788
10/29/2014	2,003	2,584	3,076	95	7,759
10/30/2014	1,980	2,552	3,037	307	7,877
10/31/2014	1,955	2,498	3,079	0	7,532

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	Candlestick Flare (FL-100)	Candlestick Flare (FL-140)	Candlestick Flare (FL-120)	E. Aux. Candlestick Flare	
11/1/2014	1,959	2,555	3,066	0	7,579
11/2/2014	1,944	2,496	3,135	0	7,574
11/3/2014	2,129	2,614	3,201	41	7,984
11/4/2014	2,007	2,524	3,213	0	7,744
11/5/2014	2,055	2,631	3,157	0	7,843
11/6/2014	1,950	2,488	3,148	0	7,585
11/7/2014	2,003	2,537	3,147	0	7,687
11/8/2014	2,008	2,513	3,158	0	7,680
11/9/2014	2,040	2,544	3,172	0	7,756
11/10/2014	2,074	2,810	3,151	0	8,034
11/11/2014	1,844	2,655	2,929	0	7,428
11/12/2014	1,764	2,563	2,905	0	7,232
11/13/2014	1,741	2,657	2,806	0	7,204
11/14/2014	1,969	2,539	2,740	0	7,247
11/15/2014	2,154	2,440	2,728	0	7,321
11/16/2014	2,090	2,419	2,772	0	7,280
11/17/2014	1,374	2,226	2,392	0	5,992
11/18/2014	1,625	2,682	2,741	0	7,048
11/19/2014	1,849	2,400	2,472	8	6,729
11/20/2014	1,640	2,603	2,968	22	7,232
11/21/2014	2,080	2,734	2,886	0	7,700
11/22/2014	2,341	2,966	3,025	0	8,333
11/23/2014	2,133	3,147	2,864	0	8,145
11/24/2014	1,821	2,859	2,537	0	7,217
11/25/2014	1,879	2,811	2,437	0	7,127
11/26/2014	1,958	2,811	2,474	0	7,244
11/27/2014	2,050	2,733	2,193	0	6,976
11/28/2014	2,354	2,838	2,234	0	7,426
11/29/2014	2,268	2,963	2,312	0	7,543
11/30/2014	2,313	3,077	2,510	0	7,901

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	Candlestick Flare (FL-100)	Candlestick Flare (FL-140)	Candlestick Flare (FL-120)	E. Aux. Candlestick Flare	
12/1/2014	2,179	2,896	2,453	0	7,528
12/2/2014	1,956	2,689	2,411	0	7,057
12/3/2014	1,904	2,799	2,225	131	7,059
12/4/2014	1,891	2,812	2,151	158	7,012
12/5/2014	2,017	2,954	2,463	0	7,433
12/6/2014	1,951	2,877	2,485	0	7,312
12/7/2014	2,046	3,008	2,613	0	7,666
12/8/2014	2,016	2,984	2,719	61	7,780
12/9/2014	2,004	2,984	2,626	21	7,636
12/10/2014	2,001	2,970	2,507	153	7,631
12/11/2014	2,055	3,192	2,660	184	8,091
12/12/2014	2,192	3,110	2,688	202	8,192
12/13/2014	2,338	3,352	2,845	0	8,535
12/14/2014	2,333	3,279	2,783	0	8,395
12/15/2014	2,289	3,238	2,857	0	8,384
12/16/2014	2,389	3,038	2,714	0	8,141
12/17/2014	2,350	2,841	2,633	187	8,011
12/18/2014	2,504	2,997	2,575	0	8,076
12/19/2014	2,326	2,745	2,418	48	7,537
12/20/2014	2,077	2,485	2,804	0	7,366
12/21/2014	2,131	2,510	2,964	0	7,606
12/22/2014	2,008	2,440	2,838	0	7,286
12/23/2014	2,286	2,519	2,956	0	7,762
12/24/2014	2,279	2,660	3,110	0	8,049
12/25/2014	2,345	2,687	3,145	0	8,177
12/26/2014	2,400	2,682	3,102	0	8,184
12/27/2014	2,255	2,585	3,003	0	7,843
12/28/2014	2,203	2,546	3,033	0	7,782
12/29/2014	2,200	2,619	3,025	0	7,845
12/30/2014	2,212	2,668	2,871	0	7,751
12/31/2014	2,110	2,827	2,827	0	7,764

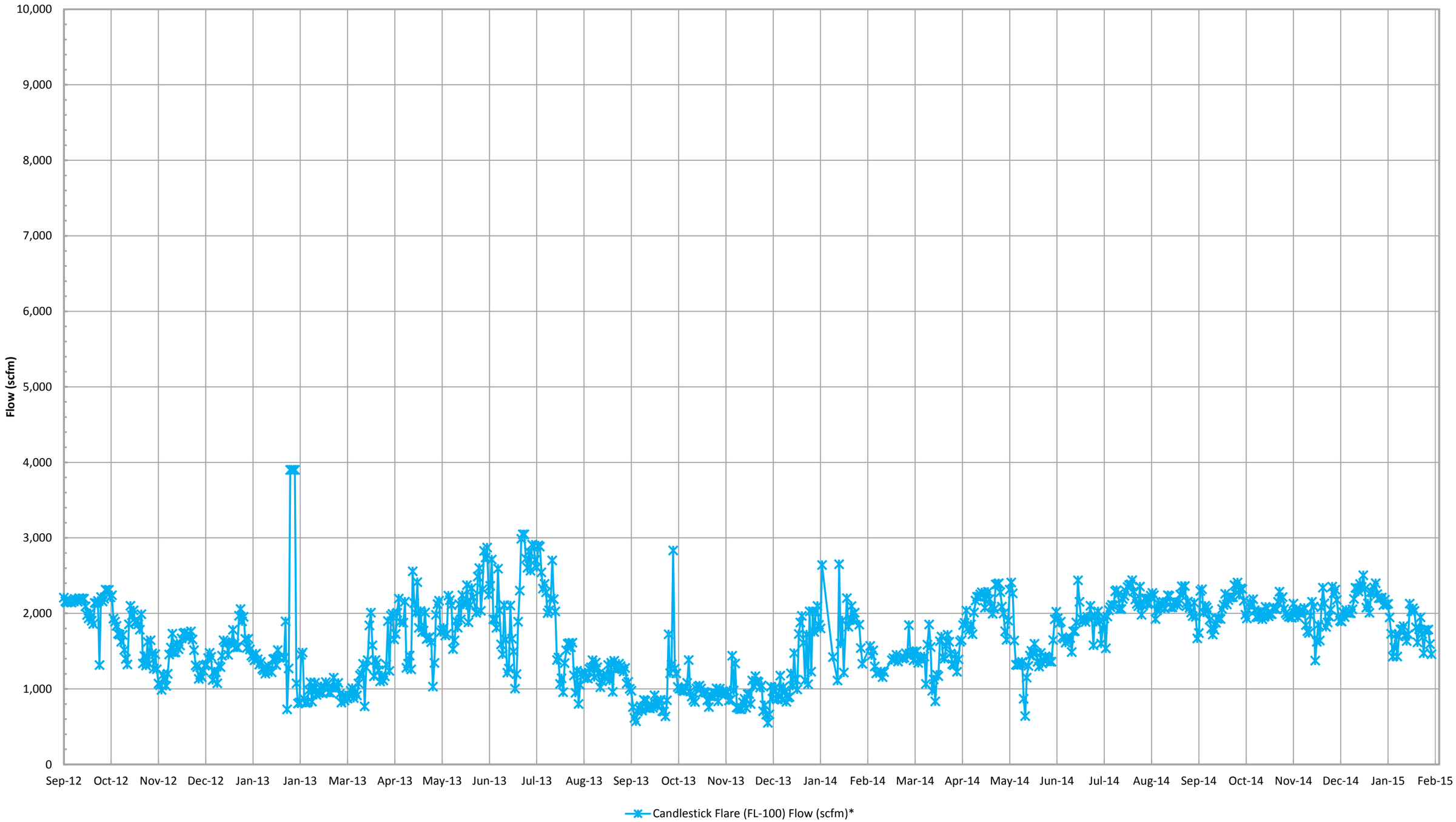
Daily Flare Monitoring Data - Bridgeton Landfill
8/1/2014 - 1/31/2015

Date	Average Device Flow (scfm)				Total Avg. Flow (scfm)
	Candlestick Flare (FL-100)	Candlestick Flare (FL-140)	Candlestick Flare (FL-120)	E. Aux. Candlestick Flare	
1/1/2015	2,181	2,607	2,844	0	7,631
1/2/2015	2,120	2,441	2,678	8	7,247
1/3/2015	2,127	2,511	2,859	0	7,498
1/4/2015	1,946	2,523	2,718	0	7,188
1/5/2015	1,729	2,421	2,336	0	6,486
1/6/2015	1,428	1,585	1,893	149	5,055
1/7/2015	1,548	2,752	2,527	0	6,827
1/8/2015	1,719	2,904	2,894	0	7,517
1/9/2015	1,429	2,810	2,505	0	6,744
1/10/2015	1,695	2,766	2,837	0	7,298
1/11/2015	1,787	3,083	2,896	0	7,766
1/12/2015	1,790	2,869	2,987	0	7,647
1/13/2015	1,832	2,662	3,031	0	7,525
1/14/2015	1,702	1,559	2,962	413	6,636
1/15/2015	1,634	2,601	2,578	48	6,861
1/16/2015	1,723	2,880	2,288	0	6,890
1/17/2015	2,130	3,170	2,085	0	7,385
1/18/2015	2,025	3,198	1,999	0	7,223
1/19/2015	2,069	3,246	1,824	0	7,139
1/20/2015	2,032	3,173	1,771	0	6,977
1/21/2015	1,815	3,121	1,876	0	6,812
1/22/2015	1,616	3,129	2,052	0	6,796
1/23/2015	1,790	3,123	1,877	0	6,790
1/24/2015	1,949	3,118	1,661	68	6,797
1/25/2015	1,728	2,868	1,409	220	6,226
1/26/2015	1,472	2,924	1,828	399	6,623
1/27/2015	1,775	3,004	2,035	0	6,813
1/28/2015	1,779	3,054	2,125	0	6,958
1/29/2015	1,787	3,059	2,073	403	7,321
1/30/2015	1,594	3,167	1,741	130	6,632
1/31/2015	1,460	3,033	1,321	0	5,814

ATTACHMENT A-2

DATA GRAPHS

Candlestick Flare (FL-100) Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

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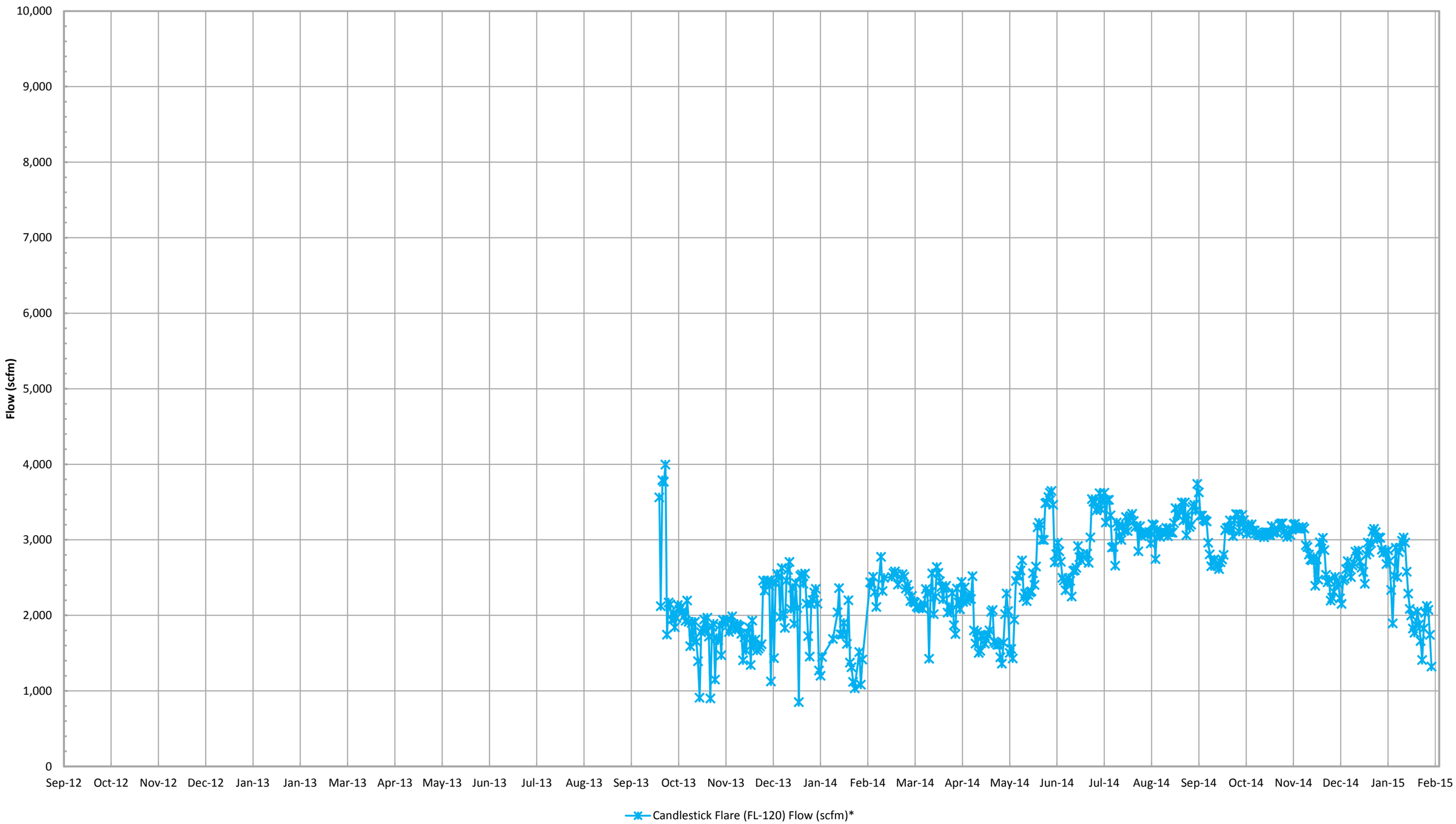
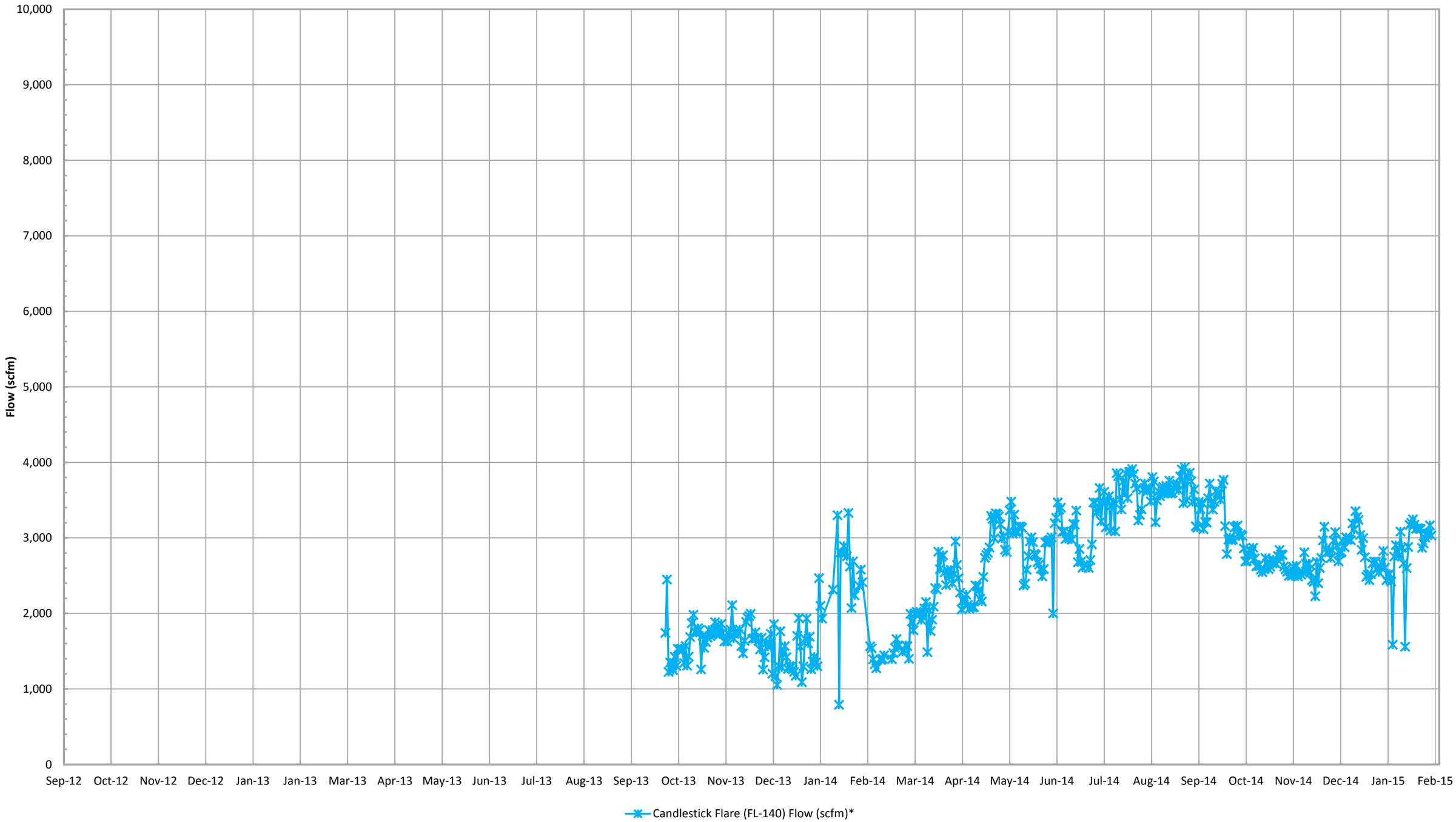
Candlestick Flare (FL-120) Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

SCS ENGINEERS

Candlestick Flare (FL-140) Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

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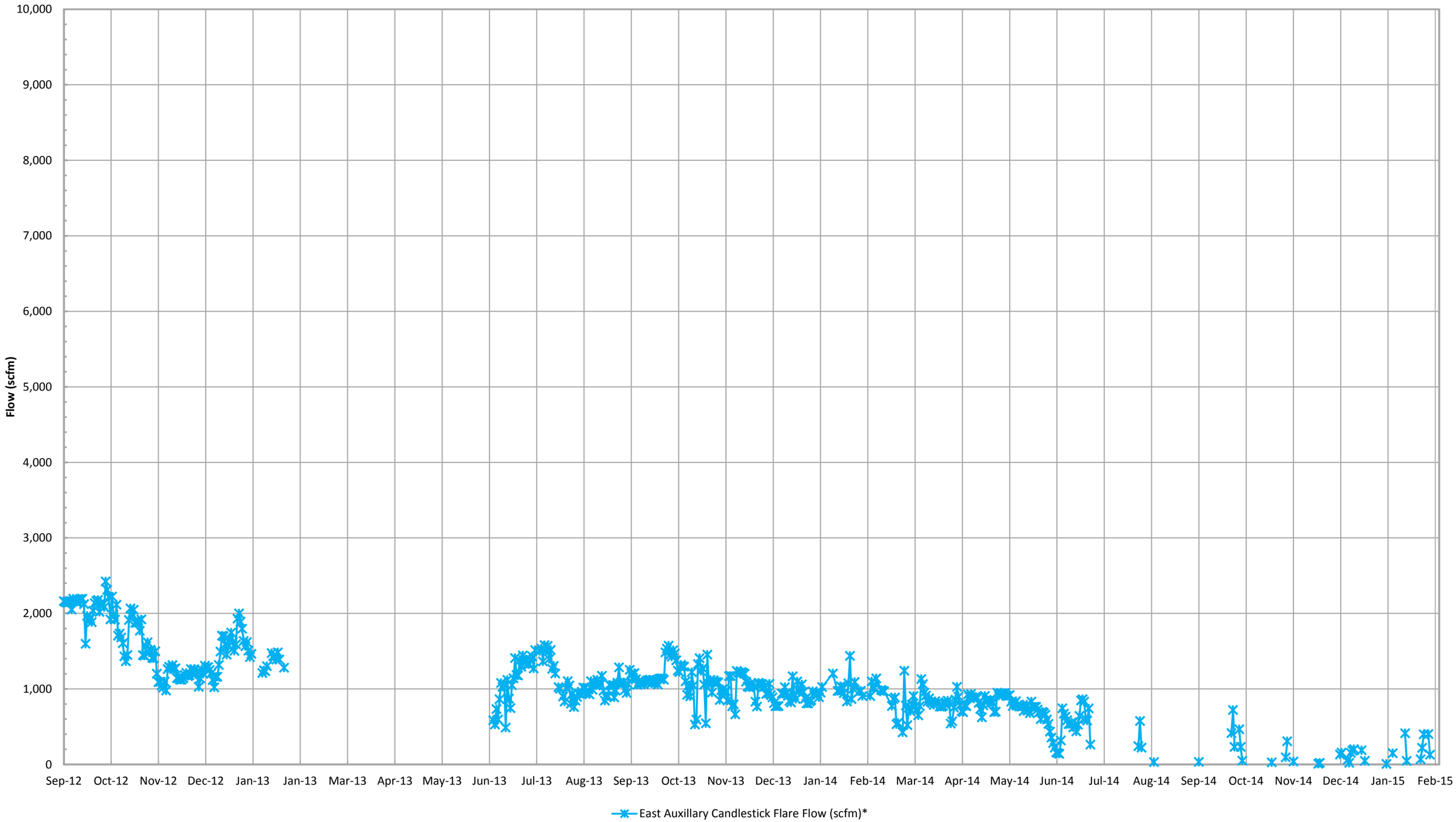
East Auxillary Candlestick Flare Flow (scfm)*



*Flow is based on tabulated flow data collected daily.

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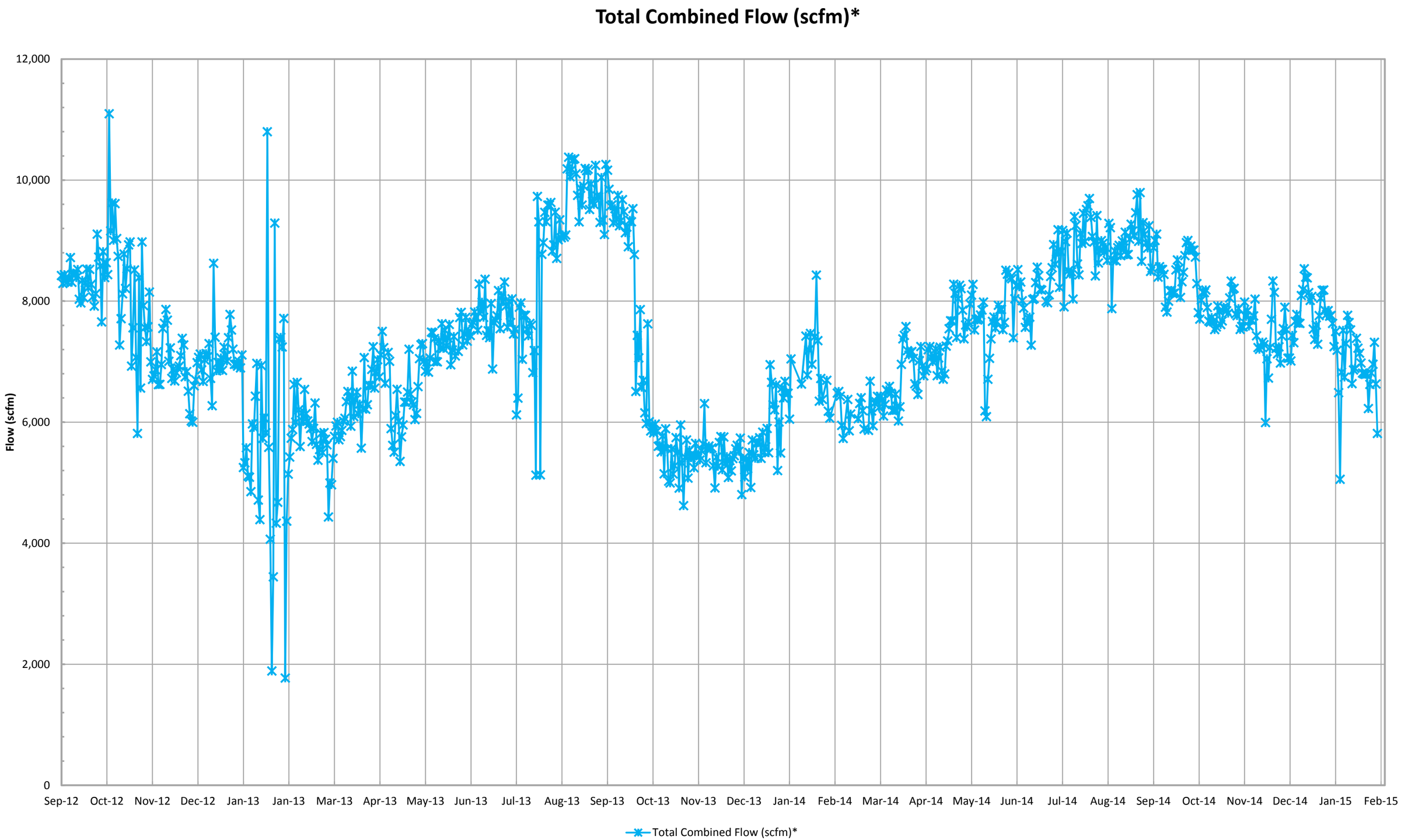

*Combined flow is based on tabulated flow data collected daily from each device.

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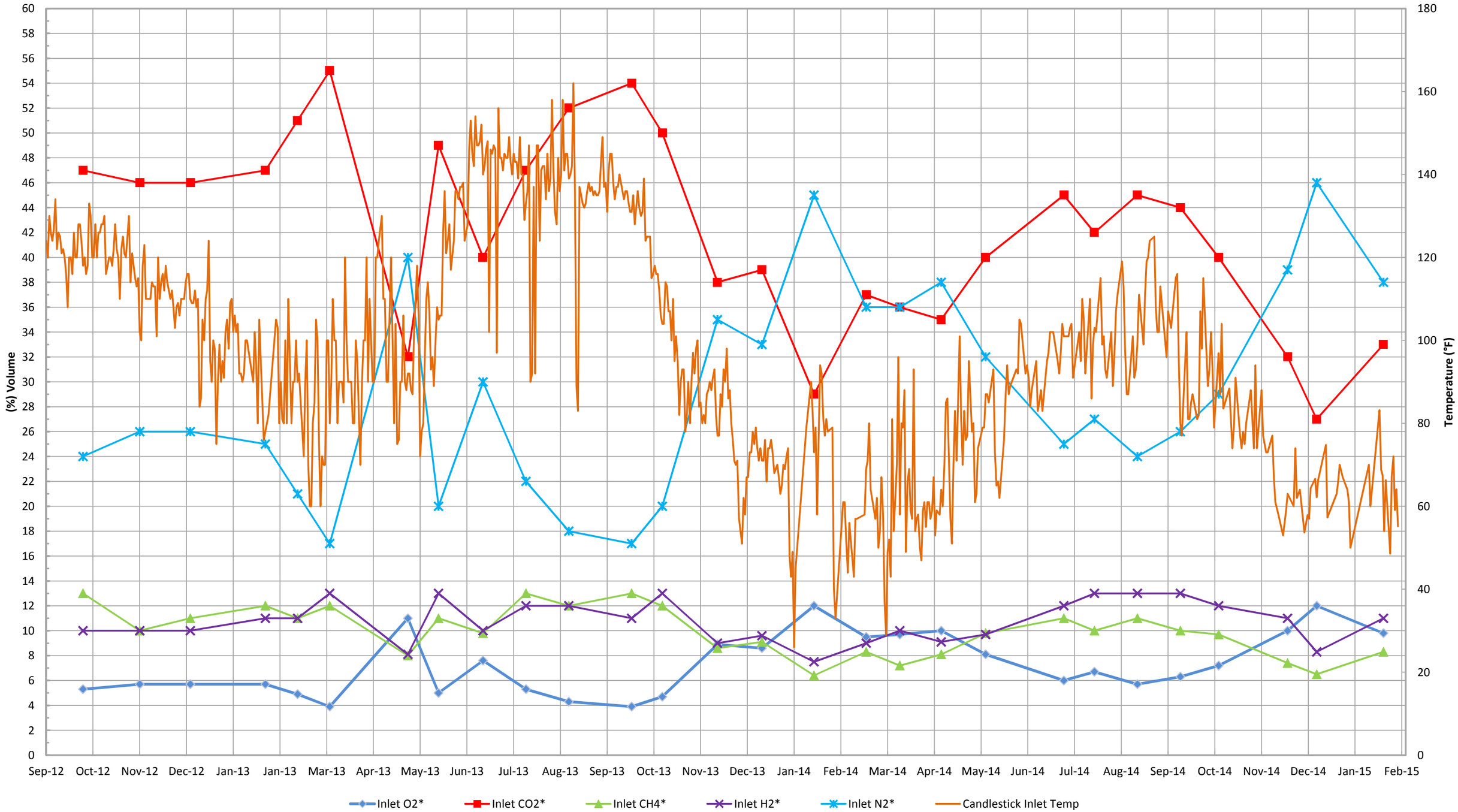
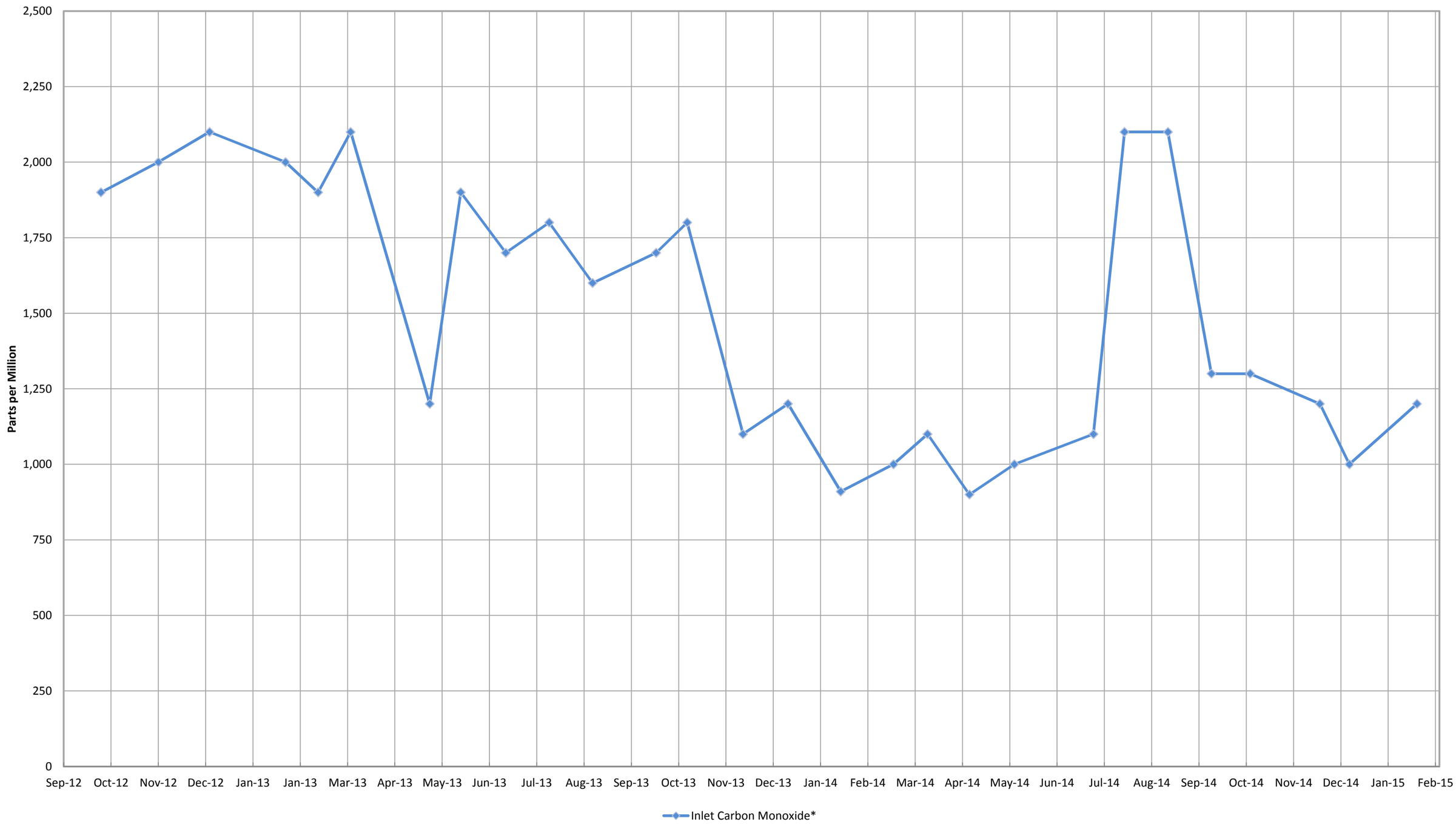
Inlet Gas and Temperature*



*Gas data collected from Laboratory Reports. Temperature data collected from GEM 2000 field readings.

SCS ENGINEERS

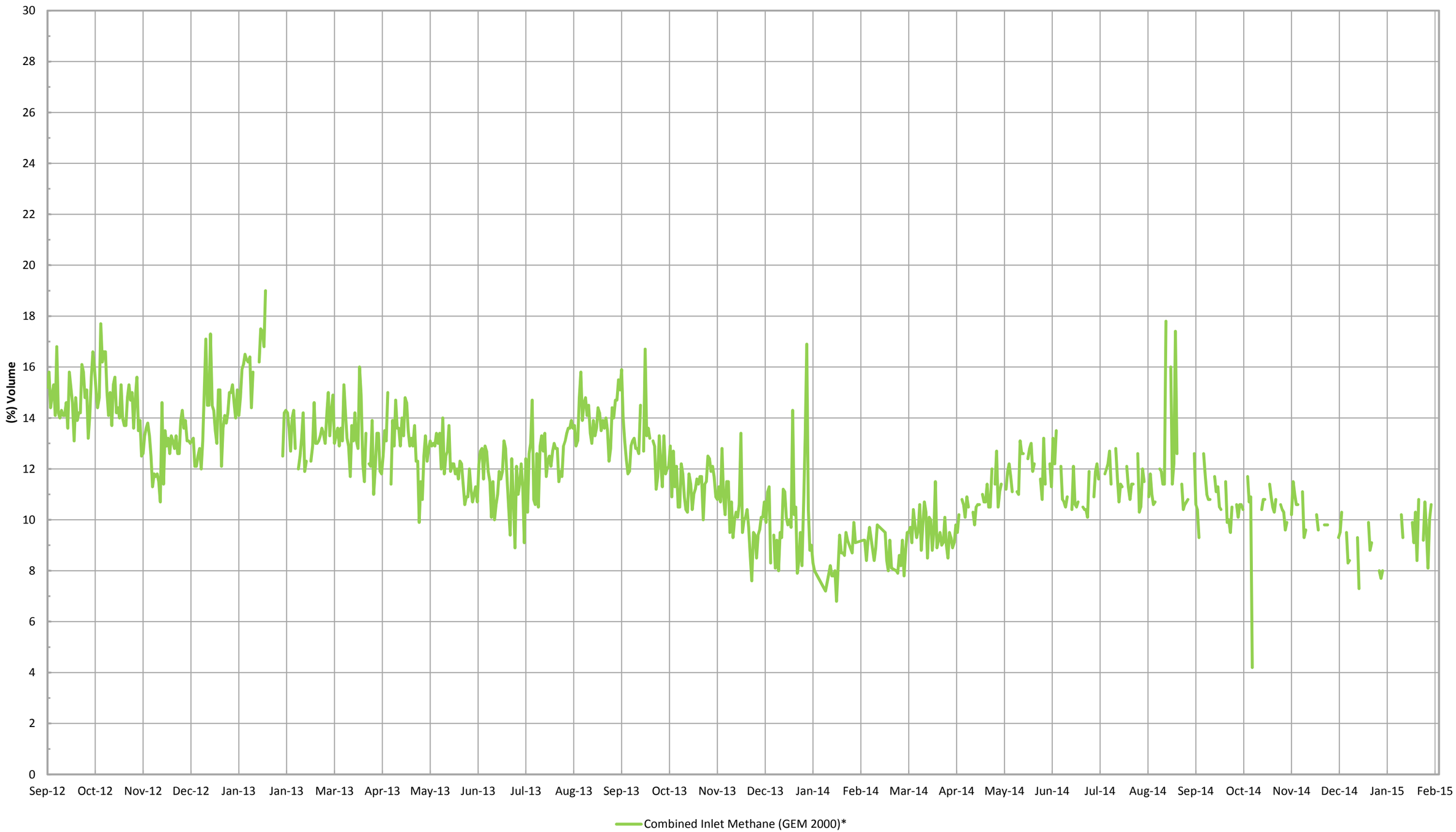
Inlet Carbon Monoxide*



*Data collected from Laboratory Reports.

SCS ENGINEERS

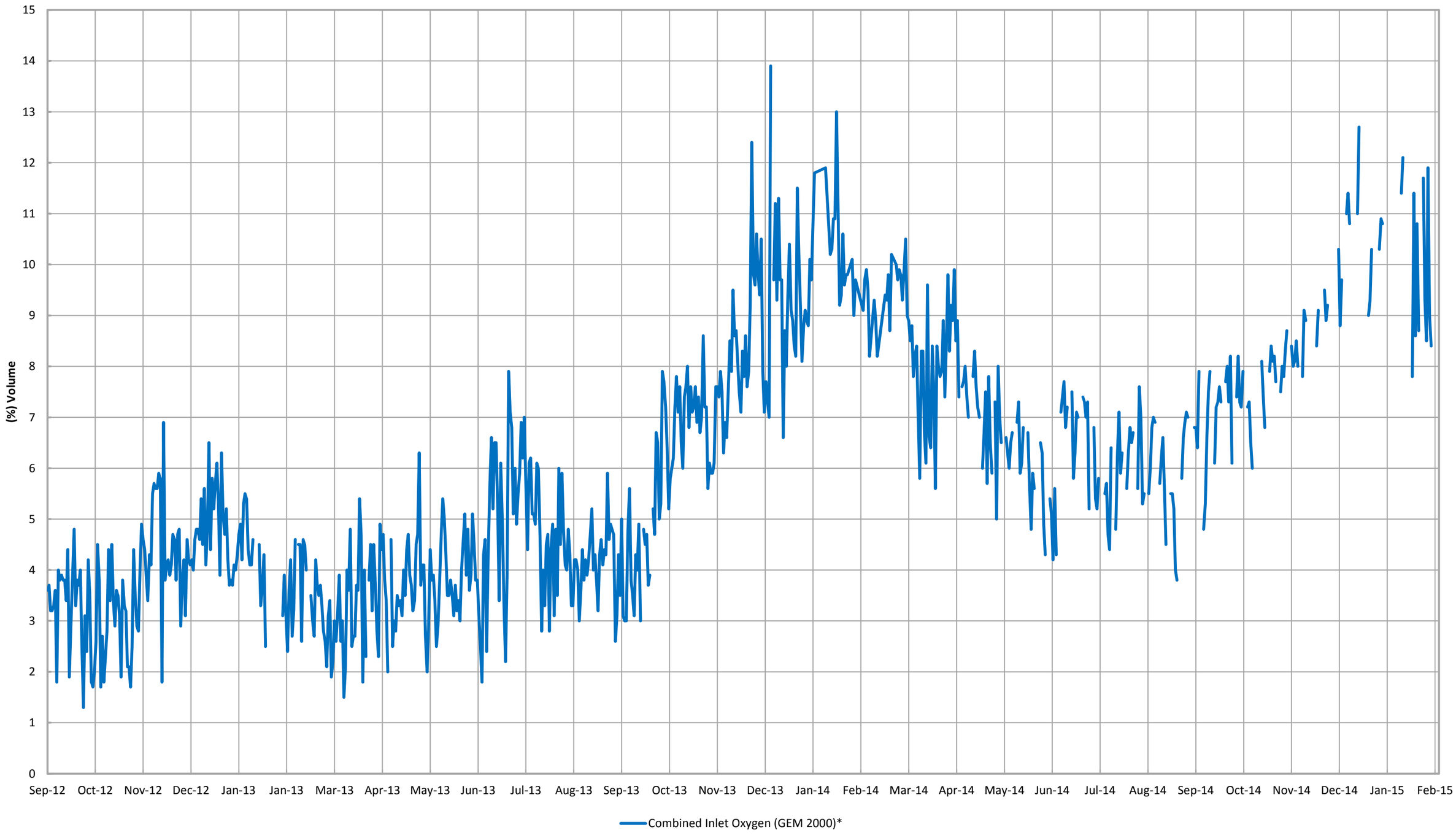
Combined Inlet Methane (GEM 2000)*



*Gas data collected from GEM 2000 field monitoring instrument.

SCS ENGINEERS

Combined Inlet Oxygen (GEM 2000)*



*Gas data collected from GEM 2000 field monitoring instrument.

SCS ENGINEERS

ATTACHMENT B

WORK COMPLETED AND PLANNED

Bridgeton Landfill, LLC
Monthly Summary of Work Completed and Planned

Work Completed in January 2015

Gas Collection and Control System

- Continued operation and maintenance of GCCS System and GIW wells.
- Installed 20 gas new gas extraction wells
- Installed electrical and pumps in new gas/liquid grit chamber with lift station in the SE site area.

Temperature Monitoring Probe (TMP) System

- Completed ten (10) additional TMP points in the North Quarry area.

Leachate Management System

- Continued installation of the force main to Bissell treatment plant.
- Continued routine operation of previously installed and upgraded features.

Pre-Treatment Facility

- Ongoing operation of facility.

Work Planned for February 2015

Gas Collection and Control System

- Complete electrical utility installation of the SE Grit and Lift station.
- Continue operation and maintenance of GCCS system.
- Continue upgrades to GCCS system as required.

Temperature Monitoring Probe (TMP) System

- Install three (3) additional TMP points in the Neck area.

Leachate Management System

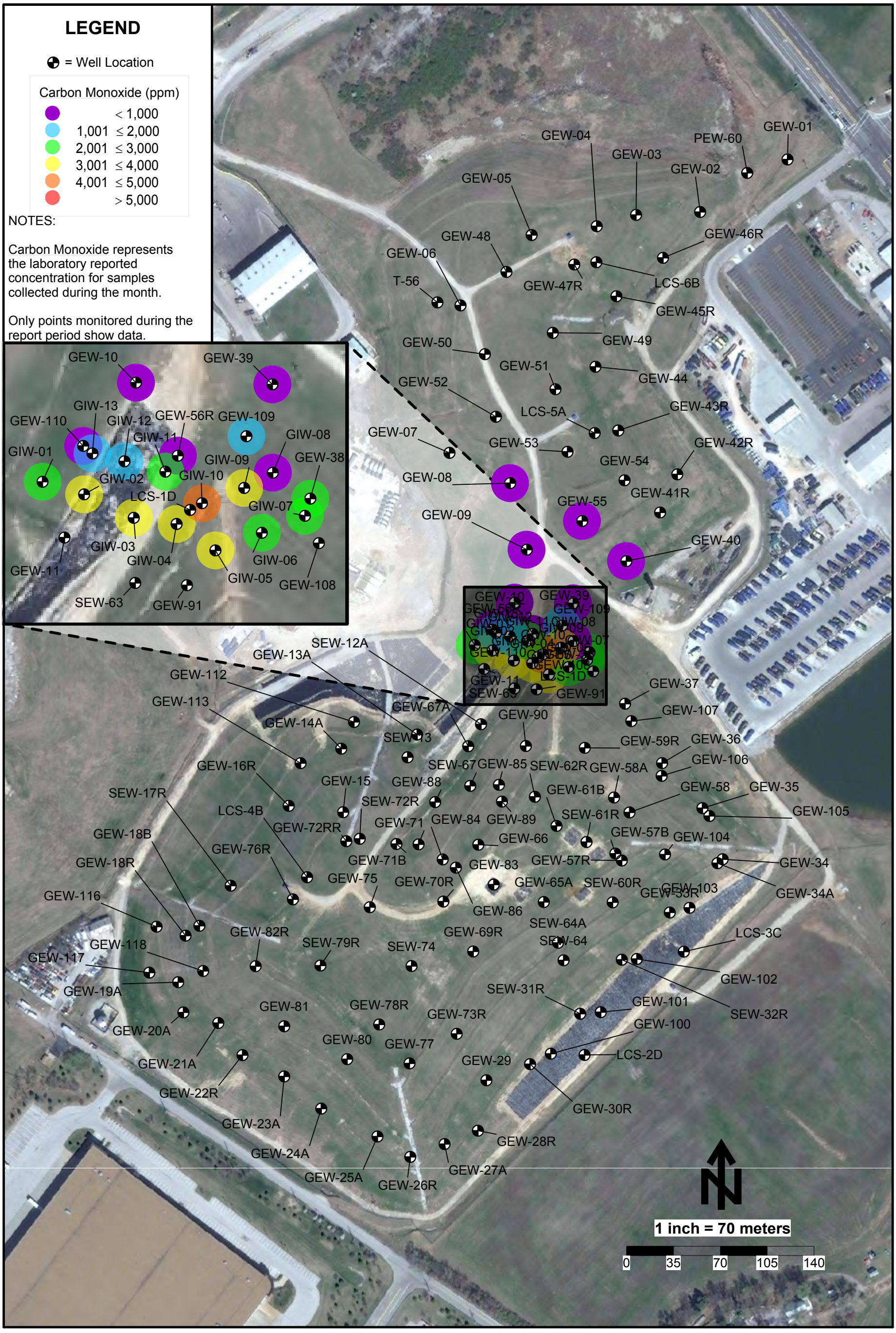
- Continue installation of off-site leachate force main to Bissell treatment plant.
- Continue routine operation of previously installed and upgraded features.

Pre-Treatment Facility

- Ongoing operation of facility.

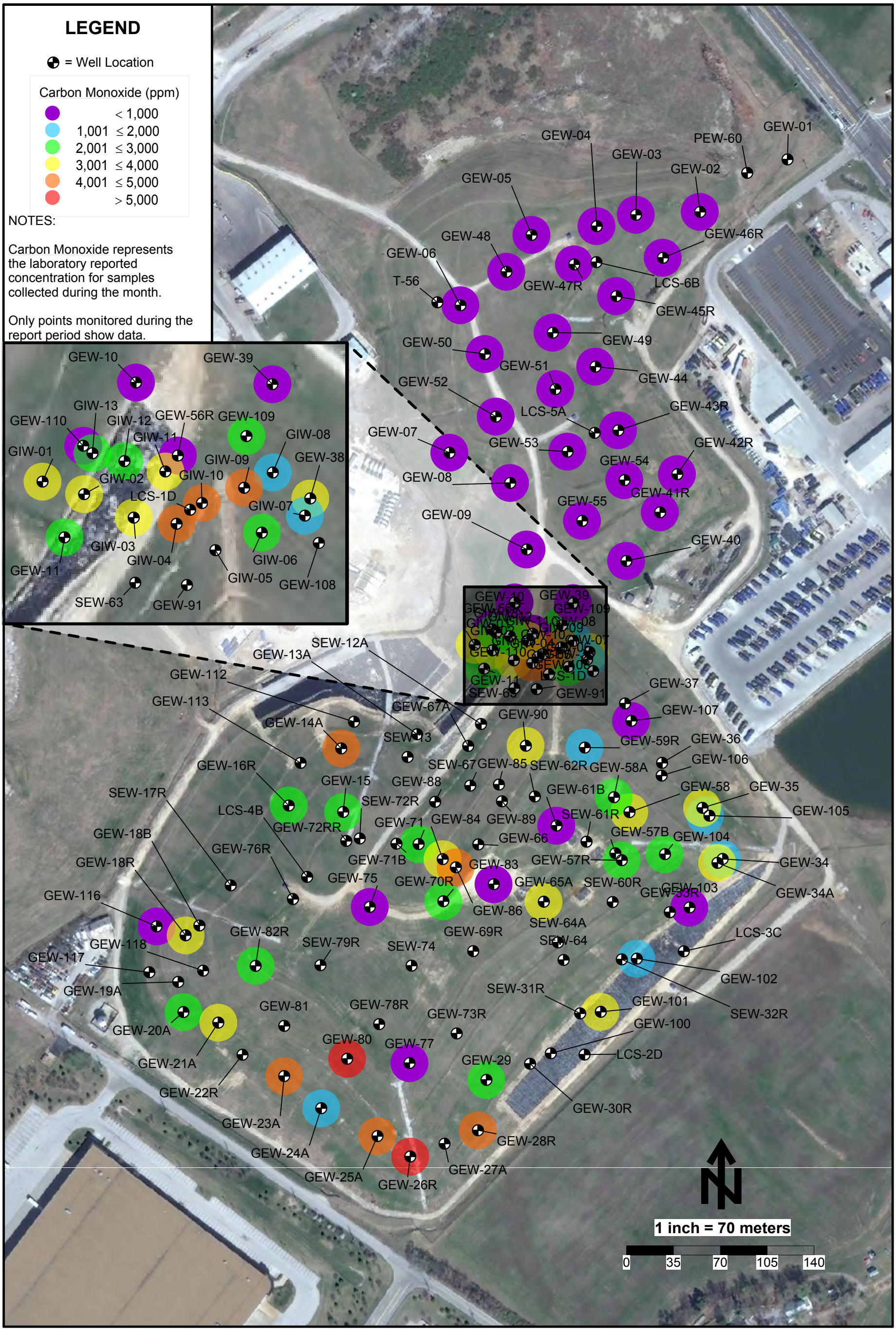
ATTACHMENT C

CARBON MONOXIDE MAPS



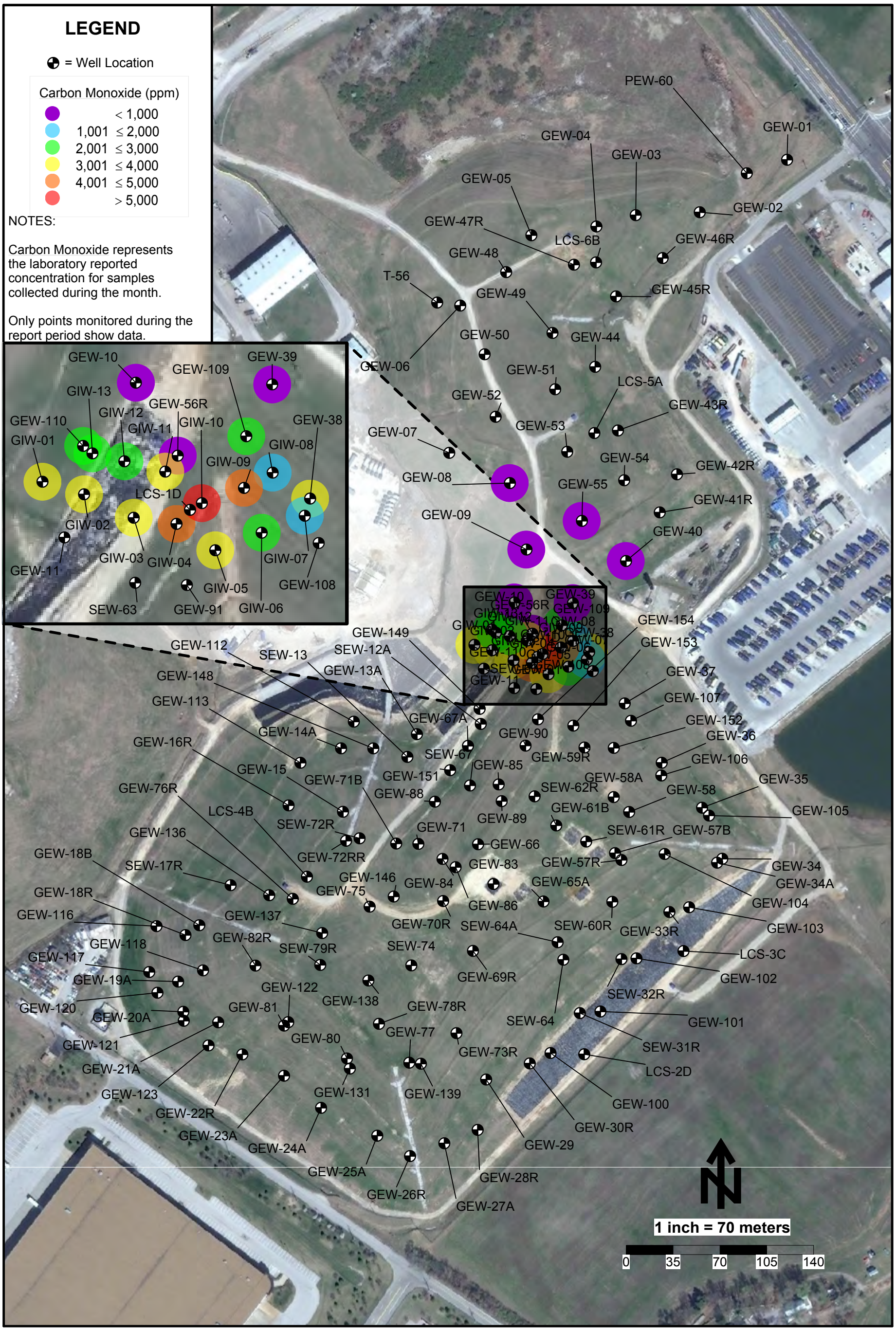
Carbon Monoxide Data Map - October 2014 - Bridgeton Landfill

SCS ENGINEERS



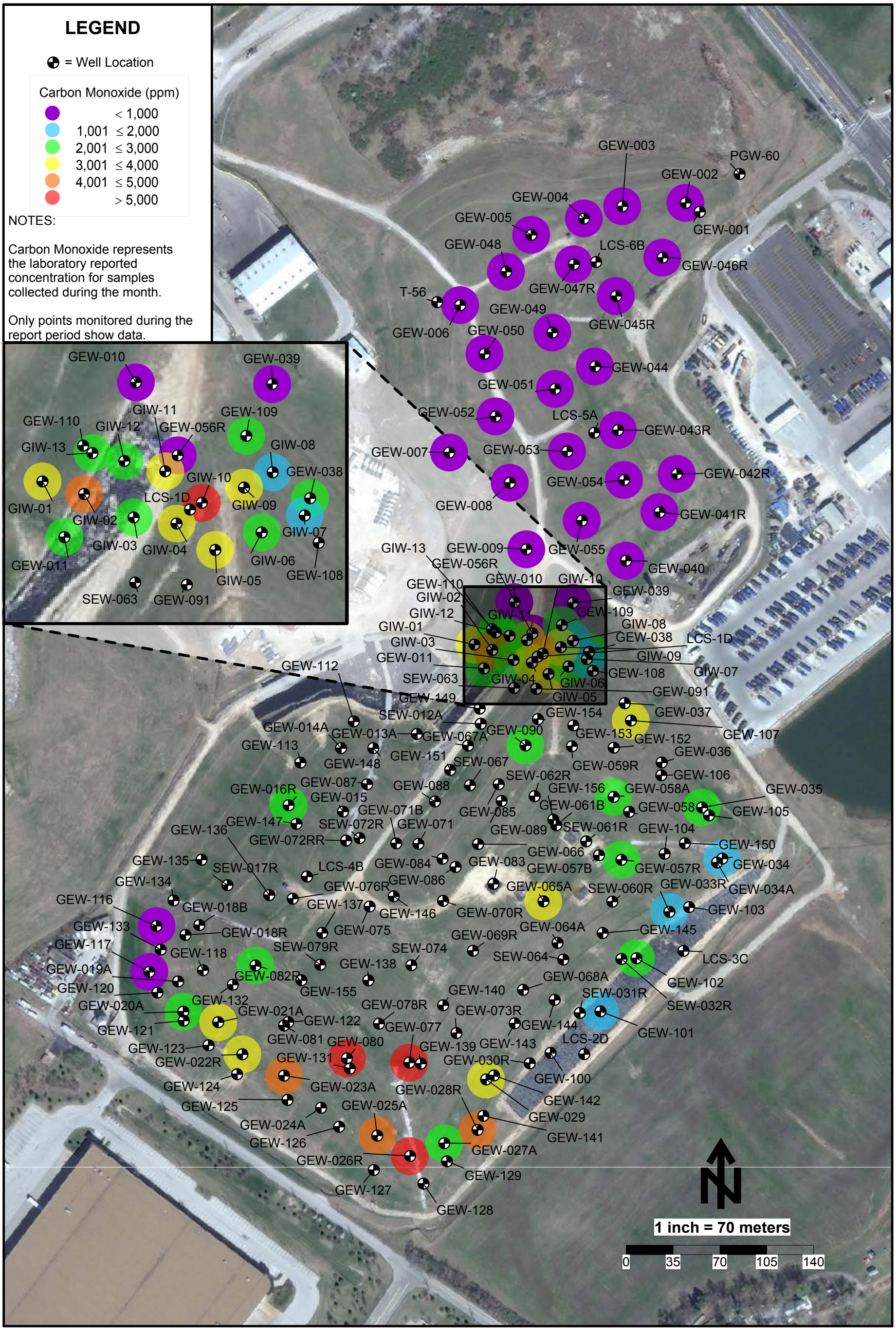
Carbon Monoxide Data Map - November 2014 - Bridgeton Landfill

SCS ENGINEERS



Carbon Monoxide Data Map - December 2014 - Bridgeton Landfill

SCS ENGINEERS

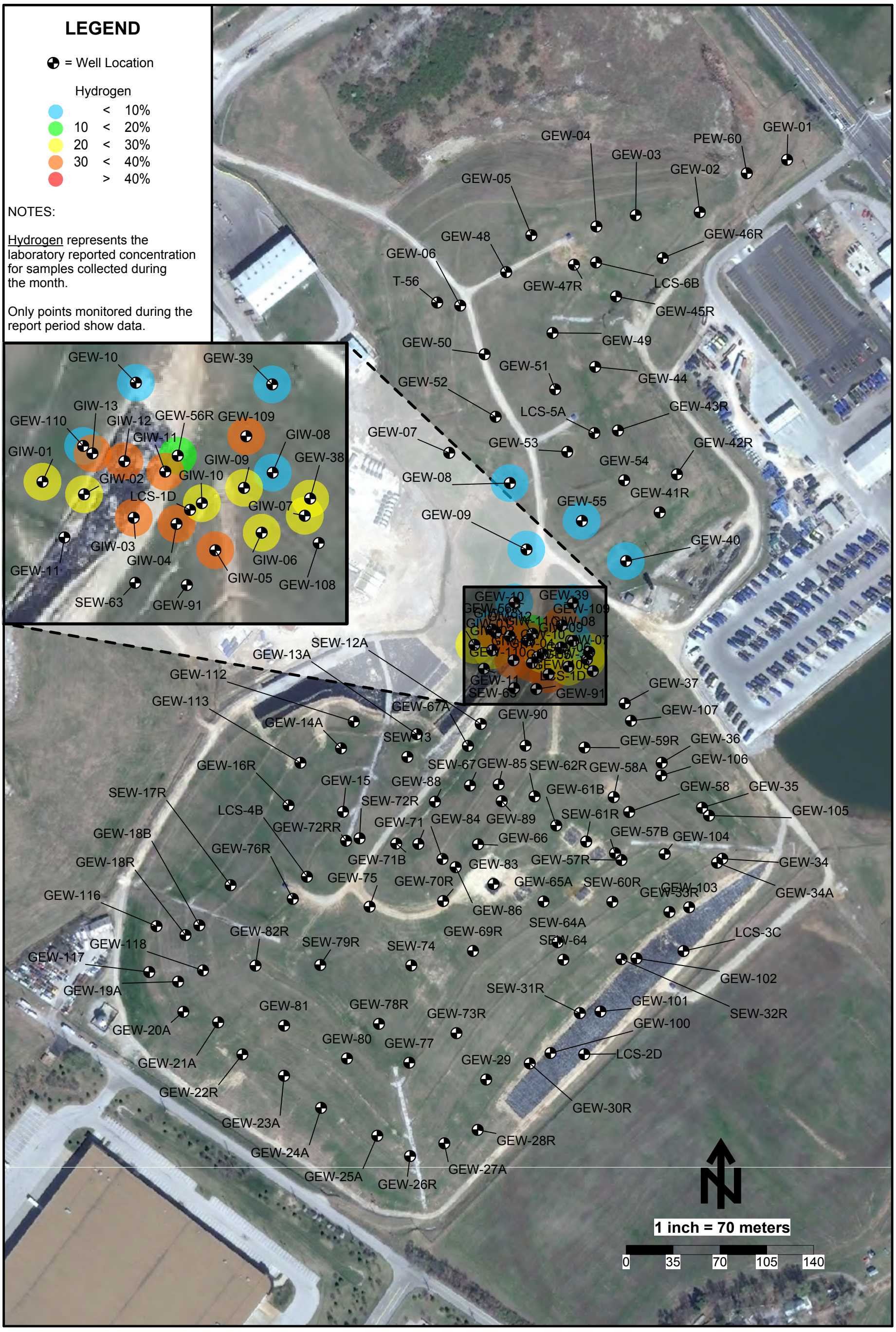


Carbon Monoxide Data Map - January 2015 - Bridgeton Landfill

SCS ENGINEERS

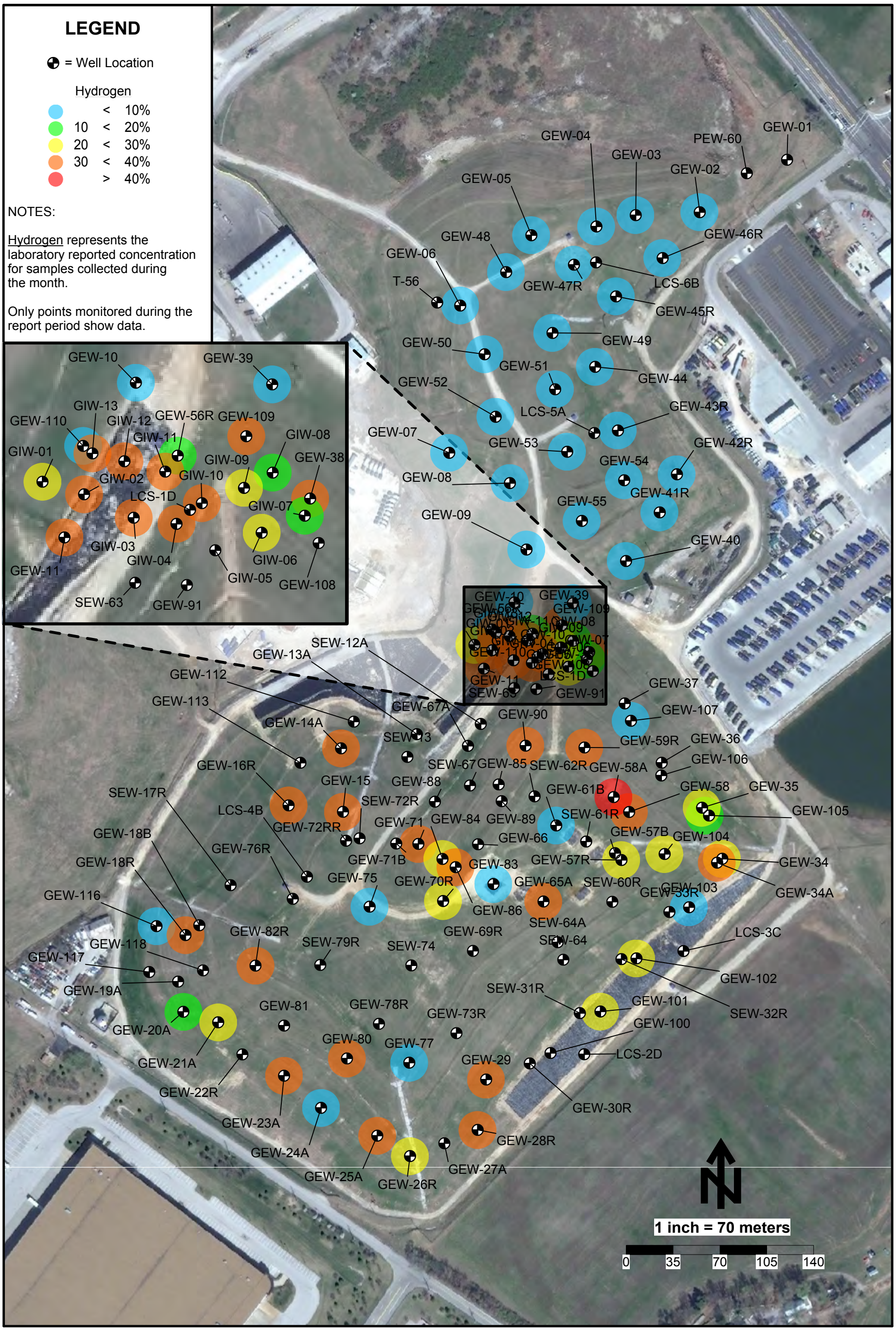
ATTACHMENT D

HYDROGEN MAPS



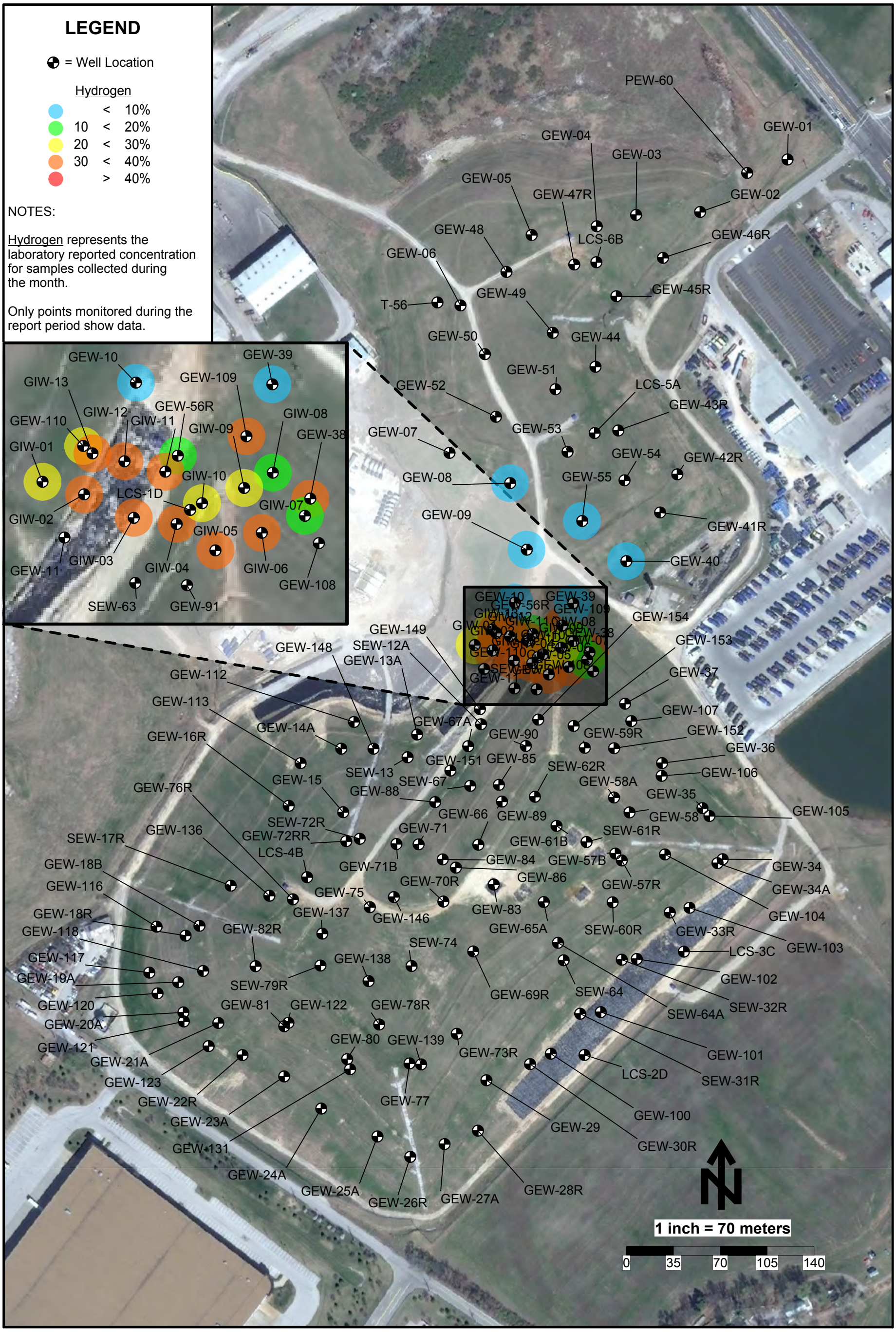
Hydrogen Data Map - October 2014 - Bridgeton Landfill

SCS ENGINEERS



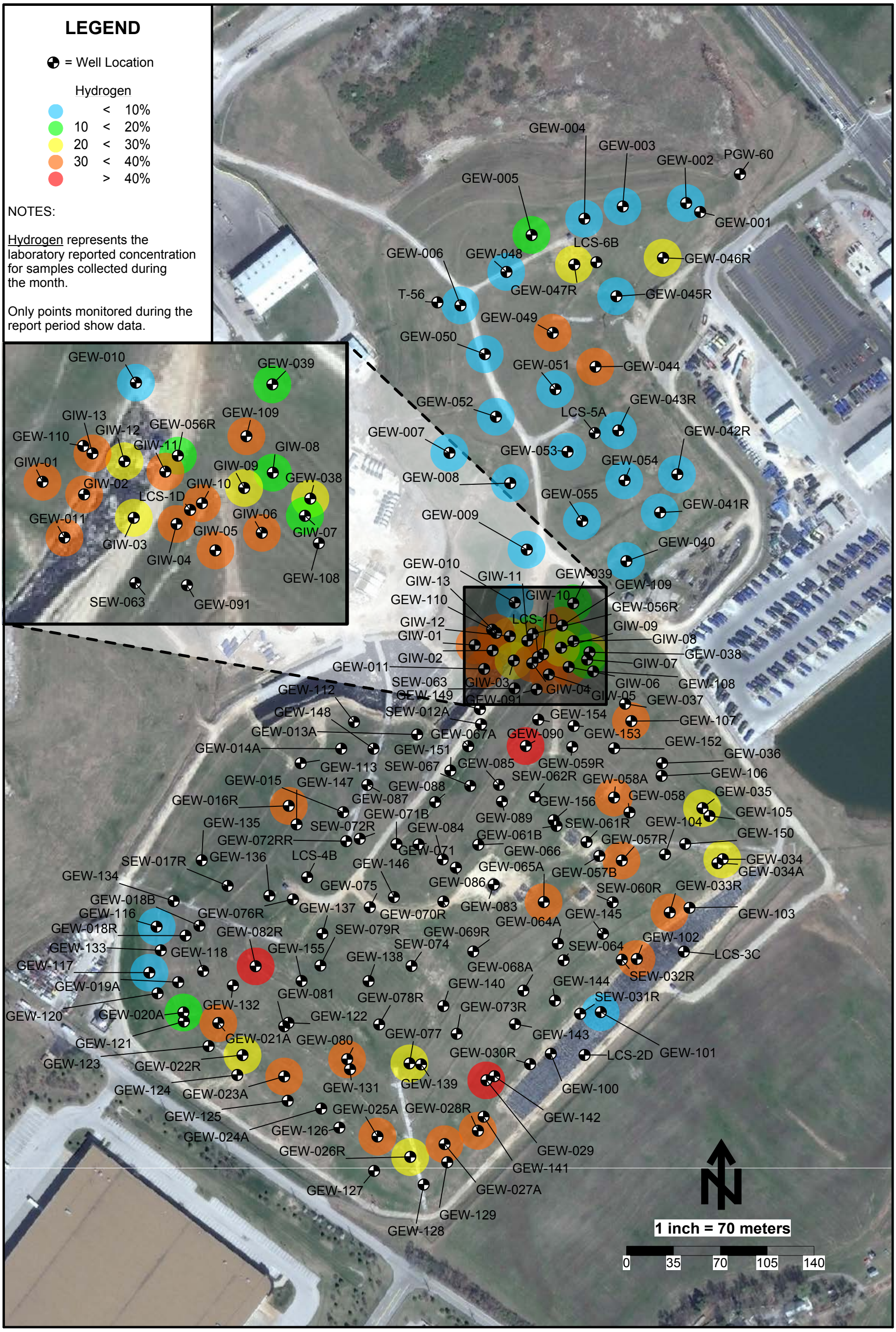
Hydrogen Data Map - November 2014 - Bridgeton Landfill

SCS ENGINEERS



Hydrogen Data Map - December 2014 - Bridgeton Landfill

SCS ENGINEERS



Hydrogen Data Map - January 2015 - Bridgeton Landfill

SCS ENGINEERS

ATTACHMENT E

SETTLEMENT FRONT MAP

APPROXIMATE QUARRY WALL LOCATION

CONTOUR AT 1.26 FT REPRESENTS 1.35 FT SETTLEMENT PER THIRTY DAY PERIOD - SURVEY PERIOD IS 28 DAYS (1.35 * 28/30 = 1.26)

SCALE: 1" = 60'

LEGEND

- TOPOGRAPHY (2' CONTOUR)
- 500 — TOPOGRAPHY (10' CONTOUR)
- ELEVATION CHANGE (0.25' CONTOUR)
- −1.50 — ELEVATION CHANGE (0.50' CONTOUR)
- 1-15 — JANUARY 15, 2015 SETTLEMENT FRONT

GENERAL NOTES:

1.) TOPOGRAPHY SHOWN BASED ON PHOTOGRAPHY DATED 3-20-2014.

SETTLEMENT NOTES:

1.) CONTOURS ARE OF CHANGE IN ELEVATION FROM TO 12/18/14 TO 1/15/15 PERFORMED AT GRID POINTS USING GPS METHODS.

2.) SETTLEMENT IS REPORTED AS A NEGATIVE CHANGE IN ELEVATION.

3.) ANY POINTS THAT WERE NOT A GROUND TO GROUND COMPARISON FROM THE PREVIOUS MONTH OR WERE NOT SURVEYED IN THE SAME LOCATION AS THE PREVIOUS MONTH HAVE BEEN FILTERED OUT.

ELEVATION CHANGE (FEET)

Number	Minimum Elev. Change	Maximum Elev. Change	Area (sq.ft.)	Color
1	−5.00	−4.00	0.00	
2	−4.00	−3.00	0.00	
3	−3.00	−2.00	0.00	
4	−2.00	−1.00	138113.39	
5	−1.00	0.00	1330841.08	
6	0.00	1.00	67116.96	

BRIDGETON LANDFILL, LLC
13570 SAINT CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044

BRIDGETON LANDFILL
SETTLEMENT MONITORING

FEEZOR ENGINEERING, INC.
Engineering for a Better World

SETTLEMENT FROM 12-18-14 TO 1-15-15 (28 DAYS)

DATE: JAN 2015
DESIGNED BY: DMK
APPROVED BY: ALK

DRAWING NO.: 001

PROJECT NUMBER: BT-021 | FILE PATH: \BRIDGETON LANDFILL\BT-021\SETTLEMENT DRAWINGS\JANUARY 2015\SETTLEMENT DECEMBER 2014 - JANUARY 2015.DWG

REVISION | DATE

ATTACHMENT F

GAS WELLFIELD DATA

ATTACHMENT F-1

GEM DATA SPREADSHEET

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
North Quarry															
GEW-002	1/1/2015 11:14	55.6	41.2	0	3.2	87		45	44	-0.4	-0.5	0.398	0.389	-31.62	
	1/1/2015 11:16	55.4	41.6	0	3.0	103		38	38	-0.4	-0.4	0.292	0.293	-32.48	
	1/2/2015 7:19	55.3	42.1	0	2.6	107		15	15	-0.3	-0.3	0.049	0.047	-33.27	
	1/2/2015 7:21	55.6	41.1	0	3.3	106		17	16	-0.3	-0.3	0.059	0.050	-31.80	
	1/3/2015 10:13	56.1	41.0	0	2.9	97		41	41	0.4	0.4	0.339	0.339	-32.72	
	1/3/2015 10:14	55.8	42.6	0	1.6	90		45	46	0.1	0.1	0.403	0.419	-32.72	
	1/4/2015 10:15	57.1	40.2	0	2.7	98		0	0	-0.5	-0.5	0	0	-33.33	
	1/4/2015 10:18	56.7	40.5	0	2.8	99		0	0	-0.5	-0.6	0	0	-32.78	
	1/5/2015 10:33	56.2	40.3	0	3.5	107		12	12	0.4	0.4	0.029	0.027	-34.01	
	1/5/2015 10:34	55.9	41.0	0	3.1	108		12	12	0.3	0.3	0.031	0.031	-34.56	
	1/6/2015 14:48	55.6	44.3	0	0.1	113	113			0.3	0.3	-0.086	-0.142	-32.67	29.83
	1/6/2015 14:54	56.1	43.8	0	0.1	120	120			0	0	-0.076	-0.078	-32.64	29.83
	1/7/2015 18:21	54.0	45.9	0	0.1	117	117	24	24	0.3	0.2	0.151	0.149	-30.40	30.27
	1/7/2015 18:24	56.3	43.5	0	0.2	120	120	26	26	0.1	0.1	0.177	0.173	-30.91	30.27
	1/8/2015 9:23	54.6	35.9	0	9.5	121		23	21	0.2	0.3	0.108	0.096	-31.50	
	1/13/2015 10:54	54.1	39.1	0	6.8	120		20	19	-0.2	-0.2	0.082	0.081	-33.82	
	1/20/2015 9:10	55.1	40.5	0	4.4	122		16	13	-0.5	-0.5	0.052	0.037	-31.50	
	1/20/2015 9:16	56.0	39.4	0	4.6	120		30	30	-0.4	-0.4	0.186	0.187	-31.50	
	1/27/2015 10:46	56.5	39.3	0	4.2	118		15	16	-0.4	-0.4	0.050	0.055	-31.93	
GEW-003	1/1/2015 11:03	48.8	36.8	0	14.4	100		29	28	0.3	0.3	0.167	0.161	-33.09	
	1/1/2015 11:04	48.3	37.8	0	13.9	105		26	26	0.1	0.1	0.142	0.142	-32.17	
	1/2/2015 7:11	44.2	34.3	0	21.5	109		17	16	-0.9	-0.9	0.059	0.055	-32.60	
	1/2/2015 7:12	44.4	35.9	0	19.7	108		0	0	-0.8	-0.8	0	0	-33.21	
	1/3/2015 10:09	48.0	37.5	0	14.5	104		0	0	0.6	0.6	0	0	-33.52	
	1/3/2015 10:10	47.2	38.1	0	14.7	106		0	0	0.5	0.5	0	0	-34.07	
	1/4/2015 10:11	43.7	31.8	0	24.5	110		22	17	-2.1	-2.2	0.105	0.062	-32.60	
	1/4/2015 10:12	43.0	34.1	0	22.9	106		15	15	-2.0	-1.9	0.049	0.046	-32.35	
	1/5/2015 10:28	45.5	35.3	0	19.2	107		0	0	-0.3	-0.3	0	0	-33.82	
	1/5/2015 10:29	45.6	35.5	0	18.9	107		0	0	-0.2	-0.3	0	0	-34.31	
	1/5/2015 14:16	46.5	39.4	0	14.1	104		14	13	0.1	0.1	0.038	0.033	-32.42	
	1/5/2015 14:18	47.5	38.2	0	14.3	100		0	0	0.3	0.3	0	0	-32.48	
	1/7/2015 18:19	55.5	44.4	0	0.1	11	11	22	21	0.2	0.2	0.105	0.097	-30.04	30.26
	1/13/2015 10:57	56.3	39.3	0	4.4	27		8	8	0.3	0.3	0.011	0.011	-32.97	
	1/13/2015 10:59	55.7	40.8	0	3.5	41		10	7	0.2	0.2	0.017	0.009	-31.80	
	1/20/2015 9:28	47.8	37.5	0	14.7	102		12	3	-0.7	-0.7	0.029	0.002	-31.44	
	1/20/2015 9:34	48.7	36.9	0	14.4	99		0	0	-0.6	-0.6	0	0	-30.09	
	1/27/2015 10:49	51.4	38.1	0	10.5	85		6	8	-0.3	-0.3	0.008	0.014	-31.50	
	1/27/2015 10:50	51.2	38.3	0	10.5	87		7	6	-0.3	-0.3	0.009	0.006	-31.07	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-004	1/1/2015 10:58	49.9	36.7	0	13.4	110		0	0	0.2	0.2	0	0	-32.42	
	1/1/2015 10:59	50.2	36.2	0	13.6	112		0	0	0.1	0.1	0	0	-32.05	
	1/2/2015 7:08	48.4	36.9	0	14.7	115		21	22	-0.9	-0.9	0.097	0.107	-32.42	
	1/2/2015 7:09	48.6	36.4	0	15.0	114		0	0	-0.8	-0.8	0	0	-31.50	
	1/3/2015 10:04	50.2	37.1	0	12.7	115		0	0	0.5	0.5	0	0	-33.76	
	1/3/2015 10:06	49.6	37.4	0	13.0	116		0	0	0.4	0.4	0	0	-33.33	
	1/4/2015 10:07	48.9	35.2	0	15.9	113		0	0	-2.0	-2.0	0	0	-31.07	
	1/4/2015 10:08	49.2	34.9	0	15.9	113		0	0	-2.0	-2.0	0	0	-32.60	
	1/5/2015 10:23	49.0	35.9	0	15.1	114		0	0	-0.4	-0.4	0	0	-34.07	
	1/5/2015 10:24	48.7	36.6	0	14.7	113		0	0	-0.4	-0.4	0	0	-34.31	
	1/7/2015 18:06	50.1	40.7	0	9.2	115	115			-0.1	-0.1	-0.245	-0.318	-29.98	30.26
	1/8/2015 10:50	50.4	36.3	0	13.3	109		0	0	0.9	0.9	0	0	-33.09	
	1/13/2015 11:02	49.4	38.6	0	12.0	112		13	15	0.0	0.0	0.035	0.046	-32.23	
	1/20/2015 9:39	51.6	38.9	0	9.5	112		27	27	-0.7	-0.7	0.157	0.158	-30.46	
	1/20/2015 9:44	51.6	38.6	0	9.8	107		9	9	-0.6	-0.6	0.018	0.015	-30.70	
	1/27/2015 10:57	54.5	40.7	0	4.8	96		8	8	-0.3	-0.3	0.012	0.014	-30.28	
GEW-005	1/7/2015 18:01	45.3	38.2	0	16.5	97	97			-0.2	-0.2	-0.213	-0.180	-32.21	30.25
	1/13/2015 11:10	45.5	36.0	0	18.5	94		17	19	-0.1	-0.1	0.056	0.070	-31.62	
	1/20/2015 10:17	43.8	34.5	0	21.7	94		24	25	-0.7	-0.7	0.120	0.125	-30.52	
	1/20/2015 10:19	44.3	34.8	0	20.9	93		16	16	-0.6	-0.6	0.049	0.050	-29.79	
	1/22/2015 10:04	43.5	34.8	0	21.7	91		11	12	-0.4	-0.4	0.024	0.029	-31.74	
	1/22/2015 11:12	45.6	36.9	0	17.5	62		5	6	0.0	0.0	0.005	0.008	-31.19	
	1/23/2015 14:48	54.3	40.6	0	5.1	71		0	0	0.5	0.5	0	0	-30.28	
	1/23/2015 14:49	55.1	40.0	0	4.9	89		19	15	0.3	0.3	0.073	0.047	-30.40	
	1/27/2015 9:19	48.8	36.3	0	14.9	92		16	16	-0.5	-0.5	0.049	0.050	-30.83	
	1/27/2015 9:24	49.4	35.3	0	15.3	93		12	15	-0.5	-0.5	0.027	0.044	-31.07	
GEW-006	1/13/2015 11:15	56.5	40.0	0	3.5	74		0	0	0.3	0.3	0	0	-31.38	
	1/13/2015 11:17	57.2	40.1	0	2.7	82		32	31	0.2	0.2	0.206	0.190	-32.60	
	1/20/2015 10:48	50.6	39.2	0	10.2	89		18	18	-0.6	-0.6	0.062	0.062	-30.83	
	1/20/2015 10:53	52.0	38.6	0	9.4	88		33	31	-0.5	-0.4	0.213	0.196	-29.60	
	1/27/2015 11:07	50.9	38.7	0	10.4	87		10	9	-0.4	-0.5	0.021	0.017	-32.42	
	1/27/2015 11:08	50.7	38.6	0	10.7	87		0	0	-0.4	-0.4	0	0	-31.19	
GEW-007	1/13/2015 10:30	56.8	39.7	0	3.5	85				-0.7	-0.7	0	0	-32.99	
	1/16/2015 13:44	50.5	43.3	0	6.2	116		32	31	-0.1	-0.1	0.212	0.206	-20.55	
	1/20/2015 14:02	55.5	42.1	0	2.4	87		8	10	-0.7	-0.7	0.014	0.018	-30.95	
	1/20/2015 14:07	55.7	41.9	0	2.4	87		12	12	-0.7	-0.7	0.027	0.029	-30.03	
	1/27/2015 13:57	56.3	41.8	0	1.9	87		6	6	-0.9	-0.9	0.008	0.008	-30.76	
GEW-008	1/5/2015 14:57	50.3	44.0	0	5.7	114		33	33	0.2	0.2	0.231	0.222	-31.93	
	1/5/2015 14:59	49.5	45.5	0	5.0	114		39	43	-0.1	-0.2	0.320	0.388	-32.29	
	1/13/2015 10:36	52.2	41.4	0	6.4	116				-0.8	-0.8	0.067	0.060	-33.90	
	1/16/2015 13:38	50.8	42.3	0	6.9	116		21	20	-0.1	-0.1	0.094	0.085	-25.20	
	1/19/2015 13:30	50.2	44.2	0	5.6	116		27	28	0.3	0.3	0.158	0.161	-30.09	
	1/19/2015 13:36	49.6	45.0	0	5.4	117		18	20	0.1	0.1	0.065	0.085	-30.58	
	1/26/2015 14:10	52.8	45.1	0	2.1	114		28	29	0.4	0.3	0.169	0.174	-32.78	
	1/26/2015 14:11	50.8	46.0	0	3.2	115		19	21	0.1	0.1	0.073	0.096	-32.54	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-009	1/5/2015 15:02	46.7	42.5	0	10.8	116		15	8	-0.3	-0.3	0.046	0.015	-23.36	
	1/5/2015 15:03	46.6	42.1	0	11.3	116		14	15	-0.3	-0.3	0.044	0.044	-24.04	
	1/13/2015 10:26	49.9	40.2	0	9.9	117				-0.5	-0.5	0.064	0.075	-27.18	
	1/16/2015 13:49	50.3	43.2	0	6.5	119		16	11	0.1	0.0	0.053	0.026	-11.68	
	1/16/2015 13:54	51.3	42.5	0	6.2	119		15	15	0.0	-0.1	0.049	0.050	-17.49	
	1/19/2015 13:44	51.3	43.9	0	4.8	122		12	12	0.0	0.0	0.033	0.032	-21.35	
	1/19/2015 13:49	51.0	43.4	0	5.6	122		13	14	-0.1	-0.1	0.038	0.041	-22.32	
	1/26/2015 14:15	52.0	45.2	0	2.8	119		14	14	0.0	0.0	0.042	0.041	-23.79	
GEW-040	1/5/2015 14:37	53.8	45.1	0	1.1	83		9	9	0.0	0.0	0.017	0.017	-33.27	
	1/13/2015 10:19	56.4	41.1	0	2.5	82		15	14	-0.2	-0.2	0.047	0.037	-33.33	
	1/16/2015 10:22	53.8	45.2	0	1.0	86		13	13	-0.1	-0.1	0.035	0.035	-29.97	
	1/16/2015 10:27	55.5	40.4	0	4.1	86		13	15	-0.1	-0.1	0.033	0.043	-30.76	
	1/19/2015 10:44	54.3	44.3	0	1.4	86		11	8	-0.1	-0.1	0.023	0.014	-31.13	
	1/26/2015 13:40	56.1	41.8	0	2.1	83		34	34	0.1	0.1	0.228	0.228	-32.66	
	1/26/2015 13:42	55.2	43.1	0	1.7	84		31	31	0.0	0.0	0.189	0.187	-32.91	
GEW-041R	1/5/2015 14:41	53.3	40.1	0	6.6	94		11	11	0.0	0.0	0.026	0.025	-31.50	
	1/13/2015 10:22	55.5	38.7	0	5.8	96		13	14	-0.4	-0.4	0.032	0.040	-34.01	
	1/16/2015 10:31	55.5	40.7	0	3.8	101		14	16	-0.4	-0.4	0.043	0.052	-31.74	
	1/16/2015 10:36	56.5	39.3	0	4.2	101		16	16	-0.3	-0.4	0.056	0.053	-31.44	
	1/19/2015 10:48	56.1	40.9	0	3.0	100		12	13	-0.3	-0.3	0.029	0.033	-31.68	
	1/19/2015 10:50	55.9	40.9	0	3.2	100		12	14	-0.2	-0.2	0.029	0.038	-29.05	
	1/26/2015 13:45	56.7	41.3	0	2.0	97		13	14	0.3	0.3	0.037	0.038	-31.44	
	1/26/2015 13:46	56.4	41.2	0	2.4	99		17	17	0.1	0.1	0.059	0.056	-31.87	
GEW-042R	1/13/2015 10:25	57.3	37.8	0	4.9	39		15	15	-0.1	-0.1	0.041	0.041	-31.31	
	1/20/2015 8:28	58.1	38.2	0	3.7	45		15	15	-0.2	-0.2	0.042	0.042	-29.36	
	1/20/2015 8:33	57.4	39.5	0	3.1	46		13	12	-0.2	-0.1	0.030	0.027	-28.69	
	1/27/2015 10:33	58.2	39.2	0	2.6	57		11	11	-0.6	-0.6	0.024	0.023	-29.72	
GEW-043R	1/5/2015 14:47	53.3	41.8	0	4.9	119		17	18	0.2	0.2	0.064	0.069	-30.34	
	1/5/2015 14:49	53.9	41.0	0	5.1	119		0	0	0.0	0.0	0	0	-31.19	
	1/13/2015 10:29	52.6	38.2	0	9.2	113		11	11	-0.6	-0.6	0.024	0.027	-33.27	
	1/13/2015 10:30	52.7	38.8	0	8.5	113		0	0	-0.5	-0.5	0	0	-31.99	
	1/16/2015 10:46	53.0	40.6	0	6.4	122		20	16	-0.3	-0.3	0.084	0.056	-30.03	
	1/16/2015 10:51	53.2	40.4	0	6.4	122		33	34	-0.3	-0.3	0.230	0.245	-29.36	
	1/19/2015 10:54	54.3	40.9	0	4.8	125		27	29	-0.2	-0.2	0.154	0.177	-31.13	
	1/26/2015 13:50	56.0	40.9	0	3.1	123		0	9	0.8	0.8	0	0.017	-32.84	
	1/26/2015 13:52	55.8	42.0	0	2.2	125		27	26	0.3	0.3	0.152	0.145	-33.09	
GEW-044	1/13/2015 10:33	34.7	33.2	0	32.1	33		0	0	-0.2	-0.2	0	0	-31.38	
	1/20/2015 8:38	36.5	32.3	0	31.2	50		7	6	-0.5	-0.5	0.009	0.008	-27.40	
	1/20/2015 8:40	36.8	31.6	0	31.6	49		7	6	-0.4	-0.4	0.009	0.008	-28.87	
	1/22/2015 10:47	40.1	31.3	3.2	25.4	39		8	7	-0.1	-0.1	0.011	0.009	-31.38	
	1/23/2015 10:14	55.8	38.4	0	5.8	38		14	14	0.3	0.3	0.037	0.037	-29.85	
	1/23/2015 10:18	54.7	39.9	0	5.4	66		11	9	-0.4	-0.4	0.021	0.017	-28.26	
	1/23/2015 14:39	49.0	38.6	0	12.4	89		8	7	-0.1	-0.1	0.012	0.011	-30.03	
	1/26/2015 8:53	46.4	32.2	0	21.4	89		12	11	-0.8	-0.8	0.027	0.026	-33.70	
	1/27/2015 8:50	39.0	30.2	0	30.8	86		9	9	-1.2	-1.2	0.015	0.017	-27.40	
	1/27/2015 8:55	38.7	30.6	0	30.7	85		10	8	-1.0	-1.0	0.020	0.014	-31.87	
	1/28/2015 10:10	43.6	35.2	0.1	21.1	88		7	7	-0.5	-0.5	0.010	0.010	-30.46	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-045R	1/13/2015 10:37	53.4	37.5	0	9.1	56		0	0	-2.3	-2.3	0	0	-33.15	
	1/13/2015 10:41	53.5	37.0	0	9.5	57		0	0	-1.6	-1.6	0	0	-34.13	
	1/20/2015 8:45	56.9	37.9	0	5.2	48		8	8	-1.1	-1.1	0.012	0.012	-30.76	
	1/20/2015 8:50	57.4	36.6	0	6.0	49		11	10	-1.1	-1.1	0.021	0.018	-30.15	
	1/27/2015 10:38	58.0	38.2	0	3.8	61		8	9	-1.1	-1.1	0.014	0.015	-30.76	
	1/28/2015 10:14	59.9	38.2	0	1.9	47		8	11	-0.4	-0.4	0.012	0.021	-31.44	
	1/28/2015 10:16	59.7	38.1	0	2.2	49		9	9	-0.3	-0.3	0.015	0.015	-31.74	
GEW-046R	1/1/2015 11:09	47.5	38.9	0	13.6	92		10	10	0.0	0.0	0.021	0.022	-31.93	
	1/2/2015 7:15	45.0	36.2	0	18.8	91		10	10	-0.7	-0.7	0.021	0.020	-32.23	
	1/2/2015 7:16	44.7	37.3	0	18.0	92		10	10	-0.7	-0.7	0.018	0.021	-32.42	
	1/3/2015 10:17	48.4	39.4	0	12.2	92		11	11	0.6	0.6	0.023	0.023	-35.23	
	1/3/2015 10:18	48.4	39.3	0	12.3	94		12	12	0.5	0.5	0.031	0.031	-32.72	
	1/4/2015 10:21	41.2	36.8	0	22.0	86		12	11	-1.4	-1.4	0.030	0.024	-34.13	
	1/4/2015 10:22	40.3	36.8	0	22.9	87		12	12	-1.4	-1.4	0.027	0.027	-33.64	
	1/5/2015 10:38	41.6	37.1	0	21.3	95		10	10	-0.3	-0.3	0.021	0.020	-35.05	
	1/5/2015 10:39	41.3	37.4	0	21.3	94		10	11	-0.3	-0.3	0.020	0.024	-34.80	
	1/13/2015 10:44	42.5	34.7	0	22.8	87		11	11	-0.2	-0.2	0.022	0.022	-31.93	
	1/20/2015 8:56	39.6	35.3	0	25.1	88		0	0	-0.5	-0.4	0	0	-30.83	
	1/20/2015 8:58	39.4	35.8	0	24.8	88		0	0	-0.4	-0.4	0	0	-30.76	
	1/22/2015 9:55	40.5	35.7	0	23.8	86		11	11	-0.5	-0.5	0.024	0.023	-33.15	
	1/22/2015 11:05	41.4	36.3	0	22.3	86		10	10	-0.3	-0.3	0.019	0.019	-31.31	
	1/23/2015 14:41	47.7	38.1	0	14.2	92		8	7	0.2	0.1	0.014	0.011	-31.31	
	1/23/2015 14:43	46.9	38.0	0	15.1	94		7	8	0.1	0.1	0.011	0.014	-31.31	
	1/27/2015 9:00	41.7	36.0	0	22.3	88		8	10	-0.4	-0.5	0.014	0.018	-30.28	
	1/27/2015 9:06	41.9	35.9	0	22.2	89		10	10	-0.5	-0.5	0.020	0.019	-30.89	
	1/28/2015 10:18	46.4	36.0	0	17.6	87		9	9	-0.1	-0.1	0.017	0.017	-31.31	
GEW-047R	1/13/2015 11:07	41.8	35.8	0	22.4	111		0	0	0.0	-0.1	0	0	-32.66	
	1/20/2015 10:11	40.1	35.4	0.4	24.1	111		37	38	-0.6	-0.6	0.294	0.297	-31.07	
	1/20/2015 10:13	40.1	35.3	0.4	24.2	107		21	20	-0.5	-0.5	0.096	0.087	-31.56	
	1/22/2015 10:00	42.7	36.0	0.5	20.8	97		9	11	-0.3	-0.3	0.018	0.023	-30.83	
	1/22/2015 11:09	50.1	39.1	0.1	10.7	70		44	44	-0.1	0.0	0.371	0.370	-31.13	
	1/23/2015 14:45	52.9	40.3	0	6.8	109		0	0	0.4	0.5	0	0	-31.19	
	1/23/2015 14:46	53.1	40.9	0	6.0	115		33	34	0.3	0.3	0.233	0.236	-31.25	
	1/27/2015 9:10	44.1	36.2	0.3	19.4	112		37	37	-0.7	-0.7	0.288	0.286	-31.13	
	1/27/2015 9:15	45.3	34.8	0.4	19.5	111		23	22	-0.6	-0.6	0.108	0.097	-31.62	
GEW-048	1/13/2015 11:12	55.6	39.7	0	4.7	100		34	34	0.0	-0.1	0.244	0.237	-29.24	
	1/20/2015 10:37	55.7	38.8	0	5.5	102		0	8	-0.6	-0.7	0	0.012	-25.63	
	1/20/2015 10:44	55.3	39.9	0	4.8	101		0	0	-0.4	-0.4	0	0	-30.95	
	1/27/2015 11:03	55.8	39.8	0	4.4	100		11	14	-0.5	-0.5	0.026	0.038	-31.93	
GEW-049	1/13/2015 10:58	41.0	37.5	0	21.5	105				-0.2	-0.2	0	0	-31.52	
	1/20/2015 10:58	34.8	32.0	0.1	33.1	104		0	0	-0.5	-0.5	0	0	-28.81	
	1/20/2015 11:00	34.9	32.2	0.1	32.8	100		0	0	-0.3	-0.3	0	0	-28.81	
	1/22/2015 10:08	30.3	30.2	0	39.5	89		33	33	-0.4	-0.4	0.221	0.222	-30.64	
	1/22/2015 11:20	31.8	30.9	0	37.3	68		28	28	0.0	0.0	0.149	0.152	-29.79	
	1/23/2015 14:36	56.0	41.8	0	2.2	93		9	10	0.5	0.5	0.017	0.020	-30.09	
	1/23/2015 14:37	56.1	40.8	0	3.1	102		15	11	0.3	0.3	0.044	0.023	-30.46	
	1/27/2015 9:27	32.6	30.3	0.4	36.7	103		24	24	-0.8	-0.8	0.119	0.119	-30.40	
	1/27/2015 9:32	33.8	29.3	0.5	36.4	101		0	0	-0.7	-0.7	0	0	-31.19	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-050	1/13/2015 11:08	55.6	42.0	0	2.4	99				0.3	0.3	0	0	-23.58	
	1/13/2015 11:10	56.0	42.0	0	2.0	105				0.0	-0.1	0.079	0.076	-28.83	
	1/20/2015 13:32	55.3	41.9	0	2.8	102		0	0	-0.1	-0.1	0	0	-27.28	
	1/20/2015 13:36	54.9	41.8	0	3.3	103		0	0	-0.1	-0.1	0	0	-29.54	
	1/27/2015 13:47	56.5	39.9	0	3.6	103		0	0	-0.2	-0.3	0	0	-26.24	
GEW-051	1/13/2015 10:55	52.8	41.7	0	5.5	120				-0.7	-0.7	0.040	0.049	-34.70	
	1/20/2015 11:04	53.4	39.2	0	7.4	117		22	17	-1.0	-1.0	0.107	0.061	-29.91	
	1/20/2015 11:11	52.9	39.5	0	7.6	116		16	17	-0.8	-0.8	0.052	0.062	-31.13	
	1/27/2015 11:15	53.9	39.0	0	7.1	118		18	16	-1.2	-1.2	0.069	0.053	-31.80	
	1/27/2015 11:17	53.7	39.6	0	6.7	116		12	11	-1.0	-1.0	0.030	0.024	-32.42	
GEW-052	1/13/2015 11:02	55.9	39.6	0	4.5	91				0.3	0.3	0	0	-31.77	
	1/13/2015 11:04	55.3	41.7	0	3.0	108				-0.1	0.0	0.186	0.196	-32.32	
	1/20/2015 13:54	51.0	38.3	0	10.7	111		15	15	-0.4	-0.4	0.049	0.049	-31.80	
	1/20/2015 13:59	51.1	38.7	0	10.2	111		0	0	-0.3	-0.2	0	0	-31.25	
	1/27/2015 13:51	51.4	37.2	0	11.4	109		10	13	-0.3	-0.3	0.021	0.033	-32.35	
	1/27/2015 13:53	51.2	38.0	0	10.8	108		0	0	-0.2	-0.2	0	0	-30.89	
GEW-053	1/5/2015 14:53	49.1	43.0	0	7.9	135		19	21	-0.1	-0.1	0.082	0.096	-31.25	
	1/5/2015 14:54	48.9	43.7	0	7.4	135		17	14	-0.1	-0.2	0.065	0.041	-31.74	
	1/13/2015 10:49	52.0	39.9	0	8.1	131				-0.9	-0.9	0.072	0.090	-33.84	
	1/13/2015 10:51	52.1	41.4	0	6.5	131				-0.9	-0.8	0.229	0.196	-34.51	
	1/16/2015 11:04	49.2	42.8	0	8.0	135		17	17	-0.7	-0.7	0.064	0.064	-30.15	
	1/16/2015 11:09	49.4	42.5	0	8.1	134		12	5	-0.6	-0.6	0.030	0.006	-30.46	
	1/19/2015 11:05	50.1	42.9	0	7.0	130		15	15	-0.4	-0.4	0.049	0.050	-30.34	
	1/19/2015 11:08	50.1	42.7	0	7.2	129		38	38	-0.3	-0.3	0.309	0.311	-30.15	
	1/26/2015 14:00	49.7	43.1	0	7.2	134		0	0	0.8	0.9	0	0	-32.11	
	1/26/2015 14:02	49.4	43.6	0	7.0	136		0	0	0.6	0.7	0	0	-32.17	
GEW-054	1/5/2015 14:44	51.8	41.5	0	6.7	138		20	21	-0.1	0.0	0.084	0.096	-30.64	
	1/13/2015 10:43	52.3	40.0	0	7.7	148				-0.2	-0.2	0.079	0.087	-32.19	
	1/13/2015 10:44	53.2	41.1	0	5.7	147				-0.2	-0.2	0.066	0.058	-32.25	
	1/16/2015 10:55	51.3	42.4	0	6.3	139		19	20	-0.5	-0.6	0.081	0.085	-30.03	
	1/16/2015 11:00	51.6	42.4	0	6.0	139		33	33	-0.4	-0.4	0.237	0.241	-31.62	
	1/19/2015 10:58	51.6	41.9	0	6.5	138		12	20	-0.3	-0.3	0.030	0.087	-28.20	
	1/19/2015 11:01	51.7	42.4	0	5.9	136		27	25	-0.1	-0.1	0.160	0.142	-29.79	
	1/26/2015 13:55	50.7	43.8	0	5.5	151		0	0	1.6	1.6	0	0	-31.13	
	1/26/2015 13:57	50.0	44.6	0	5.4	154		13	18	0.7	0.7	0.038	0.070	-32.54	
GEW-055	1/13/2015 10:39	48.9	43.4	0	7.7	122				-0.7	-0.7	0.041	0.029	-34.21	
	1/16/2015 11:12	51.1	42.7	0	6.2	123		13	15	-0.7	-0.7	0.033	0.047	-29.36	
	1/16/2015 11:18	51.4	41.7	0	6.9	119		13	13	-0.5	-0.5	0.038	0.038	-30.03	
	1/19/2015 11:11	51.7	42.4	0	5.9	120		15	13	-0.2	-0.2	0.046	0.033	-27.95	
	1/19/2015 11:12	51.8	42.4	0	5.8	119		11	11	-0.2	-0.1	0.027	0.024	-31.13	
	1/26/2015 14:05	52.1	43.7	0	4.2	119		0	0	0.7	0.7	0	0	-32.84	
	1/26/2015 14:06	52.2	43.3	0	4.5	123		8	12	0.4	0.4	0.012	0.029	-33.39	
LCS-5A	1/13/2015 11:04	51.2	37.9	1.0	9.9	35		9	9	-0.5	-0.5	0.015	0.015	-32.60	
	1/20/2015 9:51	49.4	37.9	2.1	10.6	52		3	3	-0.9	-0.9	0.002	0.002	-30.52	
LCS-6B	1/20/2015 9:53	48.9	38.4	2.1	10.6	53		6	5	-0.5	-0.5	0.006	0.005	-30.46	
	1/27/2015 11:00	55.4	40.5	0.2	3.9	58		8	11	-0.2	-0.1	0.012	0.023	-30.70	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
PEW-60	1/1/2015 11:23	53.2	37.9	1.5	7.4	39		21	7	-32.2	-32.2	0.093	0.009	-32.17	
	1/1/2015 11:24	56.0	37.4	0.9	5.7	41		3	8	-30.3	-30.2	0.002	0.015	-32.91	
	1/2/2015 7:25	57.2	40.4	0.1	2.3	46		18	3	-17.5	-17.5	0.067	0.002	-32.23	
	1/2/2015 7:25	57.9	39.9	0	2.2	48		11	0	-16.1	-16.1	0.023	0	-32.72	
	1/3/2015 10:23	54.4	41.3	0.2	4.1	93		0	173	-32.2	-33.8	0	7.236	-33.09	
	1/3/2015 10:29	59.8	36.7	0.2	3.3	91		77	146	-26.4	-27.3	1.382	4.904	-27.40	
	1/4/2015 10:26	55.0	39.8	1.2	4.0	34		12	29	-32.2	-34.1	0.029	0.175	-32.35	
	1/4/2015 10:27	55.1	38.2	1.2	5.5	35		9	9	-33.1	-33.6	0.019	0.016	-33.27	
	1/5/2015 10:44	50.4	37.6	2.3	9.7	37		14	12	-34.1	-33.5	0.043	0.032	-34.31	
	1/5/2015 10:45	51.9	36.5	2.3	9.3	37		3	17	-33.8	-33.5	0.002	0.059	-34.07	
	1/7/2015 17:49	49.2	32.6	5.0	13.2	20	20	8	5	-28.7	-28.6	0.015	0.006	-31.30	30.33
	1/7/2015 17:55	47.0	31.5	5.4	16.1	17	17	12	15	-0.4	0	0.034	0.049	-31.18	30.33
	1/13/2015 10:48	56.3	39.8	0.1	3.8	85		93	77	-28.8	-27.7	1.994	1.359	-33.21	
	1/13/2015 10:50	57.8	36.0	0.4	5.8	90		118	63	-21.6	-24.9	3.116	0.909	-34.50	
	1/20/2015 9:04	56.7	40.6	0.1	2.6	52		0	6	-29.8	-30.2	0	0.009	-30.76	
	1/20/2015 9:05	57.0	40.2	0	2.8	54		0	28	-29.5	-29.3	0	0.175	-30.70	
	1/27/2015 10:42	54.9	37.7	1.4	6.0	53		0	0	-29.3	-29.8	0	0	-29.85	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
South Quarry															
GEW-010	1/5/2015 15:05	43.8	41.3	1.2	13.7	58				-8.2	-8.2	7.879	7.879	-19.82	
	1/13/2015 11:30	55.6	43.0	0	1.4	41				8.4	8.4	0	0	-22.26	
	1/13/2015 11:32	56.5	41.0	0	2.5	60				-2.6	-2.6	2.649	2.687	-21.47	
	1/16/2015 13:57	46.6	36.3	2.8	14.3	76				-11.7	-11.7	11.396	11.460	-13.33	
	1/16/2015 14:02	47.4	35.0	2.8	14.8	76				-11.2	-11.2	10.983	11.047	-12.97	
	1/19/2015 13:53	51.2	38.5	1.7	8.6	81				-4.5	-4.5	4.532	4.514	-20.24	
	1/19/2015 13:59	54.6	38.2	0.7	6.5	84				-0.8	-0.8	0.734	0.830	-19.20	
	1/26/2015 14:18	57.7	42.3	0	0	50				4.0	4.0	0	0	-23.61	
	1/26/2015 14:19	59.2	40.8	0	0	56				-6.8	-6.8	6.465	6.584	-23.49	
GEW-011	1/20/2015 14:19	1.8	57.1	1.3	39.8	186				-16.1	-15.8	15.748	15.840	-20.24	
	1/20/2015 14:23	1.1	57.1	1.1	40.7	186				-15.1	-15.6	15.032	15.601	-22.63	
GEW-014A	1/20/2015 14:30	0.3	46.6	5.1	48.0	104				-17.8	-17.7	17.704	17.677	-18.65	
	1/20/2015 14:31	0.2	52.7	2.7	44.4	105				-18.0	-18.1	17.879	18.072	-18.84	
GEW-016R	1/20/2015 14:37	0.3	59.9	0	39.8	197				-8.6	-8.3	8.466	8.393	-12.54	
	1/20/2015 14:41	0.5	52.8	0	46.7	197				-7.3	-7.3	7.346	7.300	-13.82	
GEW-018R	1/30/2015 10:03	0.3	34.5	12.6	52.6	181				-13.1	-13.2	12.590	12.902	-12.78	
	1/30/2015 10:03	0.1	30.3	13.1	56.5	181				-12.6	-13.7	12.121	13.278	-12.29	
GEW-020A	1/20/2015 15:29	1.6	57.1	6.5	34.8	55	55	173	182	-8.9	-9.1	8.444	9.321	-9.53	29.47
	1/20/2015 15:35	2.2	54.7	7.0	36.1	55	55	169	174	-8.1	-8.6	7.955	8.419	-7.55	29.47
GEW-021A	1/20/2015 15:19	0.8	71.4	0.7	27.1	89	89	159	172	-9.0	-9.6	8.037	9.420	-9.36	29.47
	1/20/2015 15:25	1.7	69.8	0.9	27.6	89	89	185	175	-10.2	-10.2	10.778	9.668	-9.48	29.47
GEW-022R	1/20/2015 15:09	3.3	74.9	0	21.8	185	185	113	91	-5.6	-4.8	4.856	3.186	-9.33	29.45
	1/20/2015 15:15	3.3	74.7	0	22.0	185	185	145	130	-6.2	-6.3	7.893	6.324	-9.71	29.45
GEW-023A	1/20/2015 14:57	0.2	73.0	0.1	26.7	153	153	160	143	-8.0	-6.9	9.143	7.315	-9.56	29.45
	1/20/2015 15:04	0.2	73.0	0.1	26.7	153	153	172	137	-8.3	-7.3	10.572	6.696	-9.46	29.45
GEW-025A	1/20/2015 14:19	0.5	71.3	0	28.2	183	183	63	74	-0.9	-1.1	1.524	2.082	-9.60	29.44
	1/20/2015 14:25	0.3	71.1	0	28.6	183	183			-0.3	-0.8	-0.327	-0.156	-9.50	29.44
GEW-026R	1/20/2015 14:08	3.5	77.4	0.3	18.8	186	186	87	87	-2.4	-2.6	2.914	2.894	-4.33	29.43
	1/20/2015 14:14	1.0	77.7	0.3	21.0	186	186	79	76	-2.5	-2.4	2.442	2.268	-3.97	29.43
GEW-027A	1/20/2015 13:56	0.1	62.8	2.4	34.7	68	68	189	203	-10.6	-11.5	10.574	12.148	-12.52	29.44
	1/20/2015 14:03	0.1	63.5	2.3	34.1	68	68	214	213	-13.3	-13.5	13.632	13.447	-13.40	29.44
GEW-028R	1/20/2015 13:43	0.5	59.7	1.9	37.9	76	76	188	208	-10.5	-12.5	10.466	12.788	-12.06	29.46
	1/20/2015 13:50	0.5	60.6	1.9	37.0	76	76	202	202	-12.2	-12.2	12.115	12.150	-12.68	29.46
GEW-029	1/20/2015 15:48	1.9	65.2	0.1	32.8	191	191	119	113	-6.5	-5.1	5.255	4.736	-13.36	29.45
	1/20/2015 15:54	0.8	64.8	0	34.4	191	191	137	162	-8.5	-9.1	6.920	9.655	-10.49	29.45
GEW-033R	1/20/2015 10:53	14.0	63.7	0	22.3	60	60			36.4	35.4			38.17	29.45
	1/20/2015 10:59	14.0	63.6	0	22.4	60	60			35.8	37.0			36.64	29.45
GEW-034	1/20/2015 10:38	8.1	68.6	0.8	22.5	75	75	190	190	-10.5	-10.5	10.710	10.727	-10.49	29.46
	1/20/2015 10:45	8.2	69.4	0.4	22.0	75	75	193	192	-10.9	-10.8	11.164	11.004	-10.73	29.46
GEW-035	1/20/2015 10:26	3.7	49.9	5.8	40.6	130	130	150	147	-6.6	-6.7	6.973	6.699	-5.56	29.44
	1/20/2015 10:33	3.7	49.9	5.9	40.5	132	132	146	153	-6.7	-7.2	6.638	7.348	-5.93	29.44
GEW-037	1/20/2015 9:55	0.5	0.9	21.4	77.2	44	44	297	284	-14.4	-15.1	18.969	17.372	-14.25	29.45

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-038	1/5/2015 14:27	2.0	46.1	1.9	50.0	149				-12.2	-12.3	11.928	12.084	-20.18	
	1/5/2015 14:28	1.6	51.2	2.0	45.2	150				-12.3	-12.3	12.222	12.149	-20.12	
	1/13/2015 11:26	0.6	51.5	2.8	45.1	146				-18.9	-18.9	18.320	18.430	-25.08	
	1/13/2015 11:26	0.5	52.7	2.5	44.3	145				-19.4	-19.4	18.981	18.871	-25.14	
	1/16/2015 14:26	0.3	55.5	0.6	43.6	166				-4.6	-4.4	4.623	4.503	-10.28	
	1/16/2015 14:29	0	48.7	2.1	49.2	165				-4.0	-4.5	3.990	4.495	-9.36	
	1/19/2015 14:29	0.2	45.0	6.9	47.9	157				-12.8	-13.1	12.865	13.012	-18.23	
	1/19/2015 14:33	0.2	42.1	6.4	51.3	158				-12.8	-13.2	12.856	12.994	-18.65	
	1/26/2015 14:31	0.7	52.5	4.2	42.6	153				-13.2	-12.8	12.994	12.709	-22.08	
	1/26/2015 14:32	0.5	49.1	4.8	45.6	156				-12.3	-12.3	12.415	12.415	-22.02	
GEW-039	1/5/2015 14:34	33.7	55.6	0	10.7	133				-0.1	-0.2	0.158	0.146	-27.09	
	1/5/2015 14:34	33.2	54.6	0	12.2	133				-0.1	-0.1	0.137	0.134	-26.61	
	1/8/2015 9:50	34.7	52.1	0	13.2	131				0.2	0.2	0	0	-29.91	
	1/13/2015 11:21	34.4	54.2	0	11.4	132				0.0	0.0	0.009	0.009	-28.56	
	1/13/2015 11:21	33.7	54.0	0	12.3	133				-0.1	-0.1	0.097	0.105	-28.20	
	1/16/2015 14:12	28.4	57.8	0	13.8	136				-0.1	0.0	0	0.029	-19.63	
	1/16/2015 14:16	28.5	54.0	0	17.5	136				-0.1	-0.1	0	0	-18.59	
	1/19/2015 14:11	30.3	58.5	0	11.2	138				0.1	0.1	0	0	-24.22	
	1/19/2015 14:17	29.4	57.3	0	13.3	138				-0.1	-0.1	0.084	0.079	-25.02	
	1/26/2015 14:38	31.0	57.4	0	11.6	135				-0.4	-0.4	0.437	0.419	-27.89	
	1/26/2015 14:39	31.4	54.3	0.1	14.2	135				-0.5	-0.5	0.463	0.461	-29.42	
GEW-056R	1/5/2015 15:10	16.2	46.2	0.3	37.3	154				-17.1	-17.5	17.006	17.062	-19.69	
	1/5/2015 15:10	16.0	48.2	0.3	35.5	154				-17.1	-17.1	16.841	16.823	-19.69	
	1/13/2015 11:25	28.4	30.5	0.3	40.8	153				-18.4	-18.4	17.787	17.769	-21.44	
	1/13/2015 11:26	20.8	41.6	0.1	37.5	153				-18.4	-18.4	17.787	17.759	-21.26	
	1/16/2015 14:05	17.4	50.4	0	32.2	143				0.6	0.6	0	0	0.92	
	1/16/2015 14:09	17.1	51.3	0.1	31.5	157				-11.7	-11.7	11.524	11.524	-13.82	
	1/19/2015 14:02	20.2	51.1	0	28.7	157				-11.7	-11.7	11.690	11.671	-19.14	
	1/19/2015 14:07	20.1	50.4	0.1	29.4	157				-10.8	-10.8	10.891	10.826	-19.08	
	1/26/2015 14:26	21.2	50.8	0.3	27.7	155				-12.3	-12.3	12.351	12.360	-22.45	
	1/26/2015 14:27	21.6	52.6	0.1	25.7	155				-12.3	-12.3	12.259	12.323	-22.08	
GEW-057B	1/30/2015 8:39	0.5	57.6	0.2	41.7	184				-22.0	-22.4	22.011	22.231	-22.63	
	1/30/2015 8:40	0.5	64.0	0	35.5	185				-23.2	-23.4	23.003	23.186	-23.06	
GEW-057R	1/20/2015 11:35	0.5	64.7	0.9	33.9	192	192	220	198	-17.0	-14.7	17.942	14.526	-14.79	29.47
	1/20/2015 11:42	0.6	64.3	0.9	34.2	192	192	198	226	-15.0	-18.1	14.527	18.974	-16.90	29.47
	1/30/2015 8:35	1.0	50.5	1.7	46.8	185				-24.9	-25.8	24.610	25.657	-23.73	
	1/30/2015 8:36	0.9	55.6	1.4	42.1	186				-22.5	-22.7	22.461	22.525	-22.69	
GEW-058	1/30/2015 8:18	2.8	56.4	1.1	39.7	191				-20.6	-20.7	20.349	20.422	-27.03	
	1/30/2015 8:19	2.9	56.2	1.1	39.8	191				-8.7	-8.8	8.191	8.421	-26.97	
GEW-058A	1/20/2015 11:22	0.5	58.2	2.4	38.9	192	192	212	211	-14.5	-16.7	16.232	16.220	-13.31	29.47
	1/20/2015 11:28	0.5	57.5	2.9	39.1	192	192	200	192	-16.3	-13.1	14.514	13.255	-14.53	29.47
	1/30/2015 8:14	0.2	44.1	4.5	51.2	188				-24.9	-25.3	24.509	24.766	-27.34	
	1/30/2015 8:15	0.2	55.7	4.7	39.4	188				-24.4	-25.4	24.215	25.253	-27.22	
GEW-059R	1/29/2015 14:57	1.1	57.4	0	41.5	188				3.4	7.8	0	0	4.34	
	1/29/2015 14:58	0.6	59.5	0	39.9	189				7.8	7.8	0	0	4.83	
GEW-061B	1/30/2015 8:48	0	11.3	20.2	68.5	34				-24.7	-24.7	24.408	24.408	-25.02	
	1/30/2015 8:49	0	9.7	19.9	70.4	35				-24.9	-24.4	24.656	24.362	-24.53	
GEW-065A	1/20/2015 11:46	0.5	68.9	0	30.6	198	198			-14.4	-13.7	-14.341	-13.139	-13.99	29.48
	1/20/2015 11:52	0.5	68.4	0	31.1	198	198			-16.3	-12.3	-16.037	-12.086	-13.50	29.48

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-066	1/30/2015 9:07	3.3	50.8	0.6	45.3	195				-21.9	-21.9	21.736	21.524	-25.32	
	1/30/2015 9:09	3.3	47.0	0.6	49.1	195				-21.9	-21.9	21.460	21.570	-24.77	
GEW-067A	1/29/2015 13:55	1.1	54.5	1.3	43.1	190				-24.4	-24.4	24.242	24.022	-24.28	
	1/29/2015 13:57	1.0	59.6	1.3	38.1	190				-24.9	-25.4	24.545	24.977	-24.53	
GEW-069R	1/30/2015 9:27	4.3	26.2	13.8	55.7	90				-15.6	-15.0	15.317	14.527	-0.37	
	1/30/2015 9:28	4.0	24.3	13.9	57.8	90				-17.2	-18.3	17.016	18.136	-0.43	
GEW-070R	1/30/2015 9:31	2.6	41.9	4.5	51.0	53				-24.4	-24.4	24.288	24.068	-24.04	
GEW-075	1/30/2015 9:38	2.7	55.0	4.2	38.1	50				-11.6	-11.7	11.240	11.322	-18.65	
GEW-077	1/21/2015 8:23	0.4	65.4	2.8	31.4	96	96	144	128	-6.4	-5.9	6.534	5.168	-6.34	29.55
	1/21/2015 8:31	0.4	63.0	3.5	33.1	96	96	160	141	-5.4	-7.5	7.920	6.181	-7.35	29.55
GEW-080	1/21/2015 8:35	0.3	73.4	0	26.3	199	199	132	126	-5.5	-5.9	6.696	6.129	-10.32	29.55
	1/21/2015 8:42	0.3	73.4	0	26.3	199	199	136	131	-6.7	-6.8	7.115	6.595	-10.90	29.55
GEW-082R	1/21/2015 8:53	0.9	66.4	0	32.7	193	193	116	114	-4.7	-4.5	5.032	4.838	-12.90	29.57
	1/21/2015 9:01	0.9	66.1	0	33.0	193	193	116	118	-4.6	-4.7	5.032	5.158	-13.77	29.57
GEW-083	1/30/2015 9:15	0	23.1	18.2	58.7	39				-21.4	-21.4	21.038	21.047	-24.04	
	1/30/2015 9:15	0	18.3	18.2	63.5	41				-20.6	-20.6	20.542	20.542	-24.83	
GEW-084	1/29/2015 14:39	1.9	55.8	2.5	39.8	75				-6.0	-6.1	5.583	5.574	-6.85	
GEW-086	1/30/2015 9:12	0.2	45.7	4.6	49.5	45				-23.8	-24.5	23.480	24.362	-23.79	
GEW-089	1/30/2015 9:02	0.6	21.4	18.1	59.9	36				-27.5	-26.1	27.309	25.831	-26.97	
	1/30/2015 9:03	0.3	17.9	17.9	63.9	35				-27.5	-28.0	27.208	27.493	-27.89	
GEW-090	1/21/2015 9:59	0.5	63.8	0	35.7	203	203			38.1	53.4			53.57	29.61
	1/21/2015 10:05	0.5	63.1	0	36.4	203	203			51.6	52.2			52.38	29.61
	1/29/2015 14:47	0.4	58.4	0.2	41.0	198				-22.6	-23.0	22.241	22.782	-22.51	
	1/29/2015 14:48	0.5	57.7	0	41.8	198				-22.5	-22.4	22.075	22.039	-22.94	
GEW-101	1/21/2015 10:27	0.3	24.5	14.5	60.7	58	58	264	281	-13.5	-19.0	17.271	19.734	-18.33	29.62
	1/21/2015 10:34	0.4	30.5	13.4	55.7	58	58	276	257	-19.3	-16.6	19.577	16.942	-16.04	29.62
GEW-102	1/21/2015 10:40	0.8	69.8	0	29.4	58	58			7.2	6.6	-2.843	-7.217	5.80	29.63
	1/21/2015 10:46	0.9	69.9	0	29.2	58	58			4.8	3.8	-5.197	-2.421	5.57	29.63
GEW-104	1/30/2015 8:22	0.6	46.4	4.2	48.8	59				-22.9	-22.9	22.672	22.746	-22.87	
GEW-105	1/30/2015 15:25	7.6	41.6	7.9	42.9	54				-21.9	-22.4	21.653	22.176	-25.75	
	1/30/2015 15:26	8.2	44.2	7.6	40.0	58				-21.5	-21.9	21.377	21.662	-20.98	
GEW-107	1/20/2015 10:02	0.3	65.7	0.8	33.2	59	59	174	172	-8.5	-7.8	8.801	8.608	-8.80	29.44
	1/20/2015 10:13	0.4	67.1	0.4	32.1	59	59	176	153	-8.5	-6.8	9.113	6.897	-6.94	29.44
GEW-109	1/5/2015 14:30	1.4	47.2	2.0	49.4	74				-15.8	-15.8	15.877	15.877	-18.29	
	1/5/2015 14:31	1.4	52.0	0.9	45.7	74				-16.1	-16.2	16.180	16.134	-18.29	
	1/13/2015 11:23	4.2	53.8	0	42.0	184				-2.3	-2.3	2.245	2.226	-23.49	
	1/13/2015 11:24	3.3	58.7	0	38.0	184				-2.5	-2.6	2.466	2.544	-20.06	
	1/16/2015 14:19	1.1	58.7	0	40.2	160				-8.2	-8.2	8.163	8.154	-8.87	
	1/16/2015 14:23	0.8	57.3	0.2	41.7	158				-6.3	-6.4	6.180	6.382	-7.77	
	1/19/2015 14:20	1.5	57.4	0.4	40.7	132				-16.2	-16.2	16.290	16.309	-16.76	
	1/19/2015 14:25	0.9	52.2	0.9	46.0	132				-16.7	-16.6	16.804	16.777	-17.25	
	1/26/2015 14:35	0.8	60.2	0.1	38.9	177				-19.6	-19.6	19.477	19.522	-21.41	
	1/26/2015 14:36	0.8	57.6	0.2	41.4	176				-19.5	-19.5	19.394	19.284	-20.61	
GEW-110	1/5/2015 15:08	2.5	28.1	11.0	58.4	32				-23.9	-23.4	23.434	23.232	-23.36	
	1/5/2015 15:08	1.7	27.2	10.8	60.3	33				-24.0	-23.9	23.930	23.572	-23.85	
	1/13/2015 11:29	6.0	37.8	10.2	46.0	33				-24.9	-25.1	24.390	24.682	-24.80	
	1/13/2015 11:29	3.2	33.2	10.4	53.2	34				-24.5	-24.9	24.134	24.454	-24.80	
	1/26/2015 14:22	2.2	20.0	14.2	63.6	60				-23.8	-23.4	23.508	23.361	-23.55	
	1/26/2015 14:23	2.2	20.1	13.6	64.1	64				-23.4	-23.9	23.361	23.655	-23.43	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-116	1/21/2015 9:27	6.9	78.4	2.6	12.1	72	72	207	203	-13.1	-12.7	13.348	12.836	-12.49	29.63
	1/21/2015 9:34	6.8	78.4	2.5	12.3	72	72	213	209	-13.7	-13.2	14.058	13.539	-13.05	29.63
GEW-117	1/21/2015 9:15	46.7	53.2	0	0.1	49	49			6.0	5.7	-5.826	-5.472	5.57	29.62
	1/21/2015 9:21	47.9	52.0	0	0.1	49	49			5.2	5.6	-5.124	-5.538	5.86	29.62
GEW-121	1/30/2015 10:49	1.2	64.2	0.3	34.3	197				-5.6	-5.8	5.317	5.409	-7.28	
	1/30/2015 10:50	1.1	64.7	0.1	34.1	197				-2.7	-2.7	2.717	2.660	-6.91	
GEW-122	1/30/2015 11:27	3.1	59.9	0	37.0	195				-3.9	-3.8	3.807	3.806	-5.93	
	1/30/2015 11:28	2.6	59.8	0	37.6	195				-4.1	-3.9	4.142	3.990	-8.26	
GEW-123	1/30/2015 10:52	6.7	55.2	3.3	34.8	169				-6.6	-6.6	6.309	6.309	-6.42	
	1/30/2015 10:54	8.3	55.1	3.1	33.5	170				-7.3	-7.3	6.893	6.916	-7.28	
GEW-124	1/30/2015 10:56	27.6	43.2	4.0	25.2	51				-7.3	-7.3	6.951	6.924	-10.76	
GEW-125	1/19/2015 13:39	1.1	50.0	2.8	46.1	96				-7.3	-7.7	7.289	7.389	-7.27	
	1/19/2015 13:41	1.1	51.3	2.1	45.5	95				-5.2	-5.1	5.112	5.121	-6.96	
	1/30/2015 10:59	1.3	55.2	0	43.5	55				31.8	35.7	0	0	-10.58	
	1/30/2015 11:00	0.8	60.9	0	38.3	64				-10.2	-10.1	9.890	9.871	-10.21	
GEW-127	1/19/2015 13:53	0.1	25.8	15.3	58.8	79				-4.8	-5.3	4.810	5.149	-4.95	
	1/19/2015 13:54	0	21.0	15.3	63.7	81				-6.8	-6.9	6.722	6.776	-6.96	
	1/30/2015 11:05	0.5	51.5	4.8	43.2	52				-5.7	-5.7	5.188	5.262	-5.38	
GEW-128	1/30/2015 14:46	1.8	62.1	0.4	35.7	184				-5.4	-5.6	5.060	5.271	-5.14	
	1/30/2015 14:47	2.0	59.4	0.3	38.3	184				-6.0	-6.3	5.859	5.987	-5.69	
GEW-131	1/30/2015 11:23	14.8	55.8	0	29.4	156				-3.8	-3.9	3.806	3.938	-6.42	
	1/30/2015 11:24	15.2	57.2	0	27.6	156				-3.9	-4.1	3.932	4.054	-6.73	
GEW-132	1/30/2015 11:30	8.6	58.4	0.2	32.8	186				-9.6	-9.5	9.229	9.302	-9.60	
	1/30/2015 11:34	7.4	60.4	0.1	32.1	186				-3.2	-3.3	3.238	3.377	-8.50	
GEW-133	1/30/2015 13:52	0.5	23.3	16.6	59.6	54				-4.9	-4.9	5.133	5.133	-5.02	
	1/30/2015 13:53	0.4	18.7	16.4	64.5	57				-4.3	-5.0	4.235	4.911	-4.71	
GEW-134	1/30/2015 14:00	0.5	14.5	18.4	66.6	55				-3.8	-2.7	3.917	2.778	-4.04	
	1/30/2015 14:00	0.2	12.5	18.2	69.1	59				-4.5	-4.5	4.588	4.473	-4.28	
GEW-135	1/30/2015 14:06	0.2	8.9	19.4	71.5	62				-4.6	-4.9	4.734	4.861	-4.71	
	1/30/2015 14:07	0.3	7.7	19.2	72.8	59				-4.9	-5.8	4.902	5.565	-5.08	
GEW-136	1/30/2015 9:53	2.3	25.6	14.7	57.4	139				-13.1	-12.2	12.590	11.736	-13.76	
	1/30/2015 9:54	2.6	22.5	14.9	60.0	139				-8.3	-8.2	8.026	7.906	-16.09	
GEW-137	1/30/2015 9:49	1.4	36.5	11.2	50.9	41				-8.8	-8.7	8.356	8.402	-11.74	
	1/30/2015 9:50	1.7	33.1	10.8	54.4	40				-10.1	-10.2	9.587	9.605	-14.13	
GEW-138	1/30/2015 9:44	0.4	59.3	0.2	40.1	39				18.1	18.1	0	0	-16.15	
	1/30/2015 9:46	0.2	62.0	0	37.8	170				-1.3	-1.4	1.282	1.376	-16.64	
GEW-139	1/30/2015 13:14	0.2	59.9	0	39.9	195				-4.8	-5.0	4.830	4.951	-10.21	
	1/30/2015 13:15	0.2	60.5	0	39.3	195				-5.3	-4.8	5.133	4.839	-9.17	
GEW-140	1/30/2015 15:16	10.7	57.6	0	31.7	185				-1.0	-0.6	1.026	0.658	-6.85	
	1/30/2015 15:18	10.4	59.0	0	30.6	185				-0.5	-0.1	0.454	0.180	-5.44	
GEW-141	1/19/2015 14:06	12.3	47.9	4.8	35.0	71				0.5	0.5	0	0	-10.32	
	1/19/2015 14:08	12.6	50.1	4.6	32.7	74				-9.3	-9.3	9.428	9.337	-8.92	
	1/30/2015 11:13	2.3	31.6	14.9	51.2	45				-14.0	-14.0	13.636	13.590	-13.76	
	1/30/2015 11:14	4.1	24.9	14.2	56.8	50				-14.2	-14.2	13.783	13.994	-13.94	
GEW-142	1/19/2015 14:12	1.5	51.7	0.4	46.4	85				-9.8	-10.7	9.922	10.508	-10.81	
	1/30/2015 11:17	0.2	55.9	0.1	43.8	55				69.3	69.4	0	0	-13.88	
	1/30/2015 11:19	0.2	59.0	0	40.8	76				-13.9	-14.0	13.618	13.636	-14.13	
GEW-143	1/19/2015 14:16	0.2	55.6	0	44.2	129				69.8	70.2	0	0	-12.28	
	1/19/2015 14:18	0.3	56.4	0	43.3	190				-4.9	-7.7	5.871	7.627	-12.22	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
GEW-144	1/19/2015 14:22	0.8	26.7	13.0	59.5	72				-14.7	-14.6	14.723	14.486	-14.72	
	1/19/2015 14:23	0.8	25.8	12.4	61.0	73				-9.6	-12.6	9.438	12.565	-10.32	
GEW-145	1/30/2015 14:54	0.3	44.9	3.7	51.1	69				-0.9	-1.0	0.862	0.983	-8.20	
GEW-146	1/30/2015 9:33	0.4	55.2	0.1	44.3	37				12.8	12.8	0	0	-17.37	
	1/30/2015 9:35	0.3	58.2	0	41.5	54				-4.2	-4.3	4.189	4.334	-17.61	
GEW-147	1/30/2015 14:16	0.3	54.7	0.3	44.7	202				6.8	7.3	0	0	8.38	
	1/30/2015 14:17	0.2	60.5	0.2	39.1	202				3.1	6.4	0	0	9.05	
GEW-148	1/29/2015 14:05	0.1	13.9	14.5	71.5	44				1.5	0.8	0	0	1.16	
	1/29/2015 14:05	0	16.7	14.2	69.1	44				2.3	0.5	0	0	2.08	
GEW-149	1/29/2015 13:48	0	3.2	21.5	75.3	43				-24.0	-23.9	23.857	23.655	-23.98	
	1/29/2015 13:49	0	2.9	21.6	75.5	43				-23.9	-23.9	23.581	23.453	-23.91	
GEW-150	1/30/2015 8:25	7.6	62.6	1.3	28.5	176				-17.2	-17.2	17.107	17.043	-18.23	
	1/30/2015 8:26	7.9	63.6	1.6	26.9	177				-16.6	-16.6	16.318	16.318	-18.17	
GEW-151	1/29/2015 13:59	0	14.8	19.7	65.5	46				-24.5	-24.5	24.316	24.343	-24.77	
	1/29/2015 14:01	0	12.1	19.3	68.6	45				-24.0	-24.0	23.802	23.875	-24.10	
GEW-152	1/29/2015 15:04	5.7	58.2	0	36.1	193				-10.6	-10.7	10.129	10.099	-29.97	
	1/29/2015 15:06	5.9	57.4	0	36.7	193				-2.1	-2.0	2.106	2.097	-30.15	
GEW-153	1/29/2015 15:00	0.4	59.0	0	40.6	46				4.6	4.7	0	0	4.40	
	1/29/2015 15:01	0.4	59.1	0	40.5	45				4.7	4.7	0	0	4.40	
GEW-154	1/29/2015 14:52	22.0	52.0	3.4	22.6	163				-22.6	-22.0	22.433	21.745	-22.94	
	1/29/2015 14:54	21.6	54.1	3.3	21.0	162				-21.1	-21.5	20.790	21.084	-23.06	
GEW-155	1/30/2015 13:37	4.8	53.6	2.5	39.1	159				-11.7	-11.7	11.671	11.625	-14.31	
	1/30/2015 13:38	4.9	55.1	2.7	37.3	156				-4.9	-4.8	4.861	4.762	-16.09	
GEW-156	1/19/2015 14:29	8.8	59.5	0	31.7	73				28.8	28.8	0	0	-17.41	
	1/19/2015 14:33	22.0	67.9	0	10.1	146				-2.9	-2.8	2.958	2.828	-16.68	
	1/30/2015 8:52	28.7	58.8	0.5	12.0	135				-28.5	-30.0	28.310	29.734	-27.89	
	1/30/2015 8:54	28.4	60.4	0.1	11.1	137				-24.4	-24.4	24.215	24.252	-25.02	
SEW-12A	1/29/2015 13:52	4.0	15.7	16.8	63.5	53				-4.3	-4.3	4.293	4.266	-24.53	
	1/29/2015 13:53	3.9	16.2	16.5	63.4	53				-4.3	-4.3	4.323	4.310	-24.89	
SEW-17R	1/30/2015 9:59	4.5	58.6	0.5	36.4	154				-1.0	-1.0	0.974	0.974	-16.15	
	1/30/2015 9:59	4.4	62.5	0.4	32.7	153				-0.9	-0.9	0.945	0.944	-16.15	
SEW-32R	1/30/2015 14:56	38.3	46.3	0.6	14.8	61				-0.4	-0.4	0.414	0.376	-0.43	
SEW-60R	1/30/2015 8:32	6.5	34.0	11.1	48.4	63				-0.1	-0.1	0.145	0.110	-21.77	
	1/30/2015 8:33	7.3	31.4	11.1	50.2	63				-0.2	-0.1	0.180	0.125	-19.51	
SEW-61R	1/30/2015 8:45	0	22.0	18.4	59.6	34				-22.9	-23.1	22.617	22.911	-24.04	
	1/30/2015 8:46	0	18.2	18.2	63.6	33				-23.9	-23.9	23.691	23.728	-24.83	
SEW-62R	1/30/2015 8:58	11.3	37.0	7.2	44.5	147				-0.6	-0.5	0.702	0.547	-24.59	
	1/30/2015 8:59	10.5	38.1	7.0	44.4	147				-0.6	-0.5	0.592	0.493	-24.04	
SEW-63	1/28/2015 15:27	2.4	60.2	0.2	37.2	188				-8.2	-8.3	8.108	8.081	-8.20	
	1/28/2015 15:28	2.2	61.1	0.2	36.5	188				-6.3	-8.7	5.868	8.173	-5.99	
SEW-64	1/30/2015 9:20	8.4	25.5	11.9	54.2	123				-1.9	-2.0	1.968	2.008	-17.49	
	1/30/2015 9:21	7.6	26.2	11.9	54.3	123				-1.9	-1.9	1.964	1.950	-17.86	
SEW-67	1/29/2015 14:42	0.5	29.7	14.6	55.2	120				-0.1	-0.1	0.081	0.145	-24.95	
	1/29/2015 14:43	0.5	26.9	14.4	58.2	120				-0.2	-0.2	0.149	0.134	-25.99	
SEW-72R	1/29/2015 14:34	4.8	29.2	13.2	52.8	86				-2.7	-2.7	2.740	2.713	-15.47	
	1/29/2015 14:35	4.9	27.2	13.0	54.9	88				-2.6	-2.7	2.786	2.766	-14.68	

January 2015 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	Init Diff Press	Adj Diff Press	System Pressure	Baro
		(%)				°F		scfm		"H_2O					"Hg
SEW-74	1/30/2015 9:41	7.2	29.4	11.7	51.7	83				-0.9	-0.9	0.938	0.936	-9.30	
	1/30/2015 9:42	7.3	26.7	11.3	54.7	84				-0.9	-0.9	0.930	0.910	-9.05	
SEW-79R	1/30/2015 10:07	6.9	32.0	9.8	51.3	79				-2.5	-2.5	2.431	2.431	-13.70	
	1/30/2015 10:08	8.6	31.4	9.7	50.3	79				-2.6	-2.6	2.682	2.586	-16.21	
LCS-3C	1/20/2015 14:08	4.0	55.3	2.3	38.4	151				-23.4	-29.2	23.182	28.688	-23.46	
	1/20/2015 14:08	1.2	62.2	3.6	33.0	147				-25.7	-22.9	25.341	22.716	-25.41	

ATTACHMENT F-2

MAXIMUM TEMPERATURE SPREADSHEET

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature From All Monthly Wellhead Readings (in °F)			
	Oct	Nov	Dec	Jan
North Quarry				
GEW-001	--	--	--	--
GEW-002	126	125	123.2	121.5
GEW-003	81	118	115.5	109.5
GEW-004	71	119	116.3	115.5
GEW-005	100	95	89.8	97
GEW-006	90	87	81.7	88.9
GEW-007	106	100	93.6	115.5
GEW-008	120	116	115.3	116.5
GEW-009	121	119	120.2	122.1
GEW-040	95	92	92	86.3
GEW-041R	109	108	106	100.8
GEW-043R	129	63	61.4	57.4
GEW-042R	78	128	125	125.4
GEW-044	88	52	44.8	89.2
GEW-045R	105	94	86.1	61.4
GEW-046R	87	67	102.6	94.5
GEW-047R	121	110	105.6	115
GEW-048	107	105	99.7	102.4
GEW-049	110	96	40.7	104.7
GEW-050	110	108	101.7	105.4
GEW-051	123	120	114	120.2
GEW-052	111	108	102.6	111.3
GEW-053	138	135	135	136.2
GEW-054	136	138	140	153.7
GEW-055	129	127	124.1	123.4
PEW60	70	45.2	59.5	93.4
LCS-5A	100	95.2	97.9	98.3
LCS-6B	81	48.2	46.7	57.9
T-56	70	51.5	49	44.6

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature From All Monthly Wellhead Readings (in °F)			
	Oct	Nov	Dec	Jan
South Quarry				
GEW-010	90.9	72	85.9	84.3
GEW-011	187.9	190	189	185.8
GEW-013A	--	--	--	--
GEW-014A	194.8	184	55	104.5
GEW-015	205	197	198	--
GEW-016R	199	200	200	196.6
GEW-018B	--	--	--	--
GEW-018R	191.4	198	191.9	181.4
GEW-019A	--	--	--	--
GEW-020A	96	56	37.6	55
GEW-021A	137	54	53.6	89
GEW-022R	--	--	178.2	185
GEW-023A	168.8	174	167.5	153
GEW-024A	176	130	122.1	--
GEW-025A	163	164	175.2	183
GEW-026R	156	141	178.7	186
GEW-027A	167.8	--	163.2	68
GEW-028R	154.1	156	163.6	76
GEW-029	188	183	187.9	191
GEW-030R	--	--	--	--
GEW-033R	--	--	48.4	60
GEW-034	110	76	63.3	75
GEW-034A	194.5	192	190.8	--
GEW-035	182.4	180	126.9	132
GEW-036	--	--	--	--
GEW-037	--	106.1	74.8	44
GEW-038	172.2	172	175	166.4
GEW-039	136	135	141	138.1
GEW-056R	166	160	166.4	156.6
GEW-057B	179.8	191	192	184.6
GEW-057R	195	194	196	192
GEW-058	195	197	195	191.3
GEW-058A	--	192.5	186	192
GEW-059R	182	184	31	188.5
GEW-061B	84.7	73	138	34.9
GEW-065A	197	198	198	198
GEW-066	--	--	200	195.4
GEW-067A	--	--	187.9	189.6
GEW-069R	--	--	30.5	90
GEW-070R	145.1	73	59.4	52.8
GEW-071	194.4	200	197	--

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature From All Monthly Wellhead Readings (in °F)			
	Oct	Nov	Dec	Jan
GEW-071B	--	--	--	--
GEW-072RR	--	--	--	--
GEW-073R	--	--	--	--
GEW-075	83	64	48.9	50.3
GEW-076R	--	--	--	--
GEW-077	77	54	30.6	96
GEW-078R	--	--	--	--
GEW-079R	--	--	--	--
GEW-080	197	198	196	199
GEW-081	--	--	--	--
GEW-082R	187	189	191.3	193
GEW-083	84	65	31	40.9
GEW-084	165.5	150	91	75.4
GEW-085	195.8	--	--	--
GEW-086	178	176	70	44.8
GEW-088	--	--	--	--
GEW-089	--	--	33.4	36
GEW-090	198	195	--	203
GEW-091	--	--	--	--
GEW-100	--	--	--	--
GEW-101	180	62	60.7	58
GEW-102	162	64	44.9	58
GEW-103	78	52	38.4	--
GEW-104	176	100	78	59.1
GEW-105	85	60	40.9	57.9
GEW-106	--	--	--	--
GEW-107	191	78	41.2	59
GEW-108	--	--	--	--
GEW-109	110	111	135.3	183.5
GEW-110	88	62	157.5	63.5
GEW-112	--	--	37	--
GEW-113	--	--	--	--
GEW-116	--	--	38.7	72
GEW-117	96	51	35.7	49
GEW-118	--	--	--	--
GEW-120	--	--	48.5	--
GEW-121	--	--	183.7	196.6
GEW-122	--	--	191.9	194.8
GEW-123	--	--	95.2	169.7
GEW-124	--	--	--	51.2
GEW-125	--	--	--	96.4
GEW-126	--	--	--	--

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature From All Monthly Wellhead Readings (in °F)			
	Oct	Nov	Dec	Jan
GEW-127	--	--	--	80.7
GEW-128	--	--	--	183.5
GEW-129	--	--	--	--
GEW-130	--	--	--	--
GEW-131	--	--	161.4	156.2
GEW-132	--	--	--	186.3
GEW-133	--	--	--	57.3
GEW-134	--	--	--	59.1
GEW-135	--	--	--	61.6
GEW-136	--	--	196	139.3
GEW-137	--	--	37.6	41.4
GEW-138	--	--	50.1	169.7
GEW-139	--	--	197.3	194.8
GEW-140	--	--	--	184.6
GEW-141	--	--	--	73.8
GEW-142	--	--	--	84.7
GEW-143	--	--	--	190.2
GEW-144	--	--	--	73.4
GEW-145	--	--	--	69.2
GEW-146	--	--	40.7	53.7
GEW-147	--	--	--	202.1
GEW-148	--	--	159.2	43.8
GEW-149	--	--	72.6	43.2
GEW-150	--	--	--	176.7
GEW-151	--	--	39.1	46.2
GEW-152	--	--	167.3	192.5
GEW-153	--	--	94	45.5
GEW-154	--	--	74.8	162.7
GEW-155	--	--	--	158.8
GEW-156	--	--	--	145.5
GIW-01	199	199	195	189.7
GIW-02	160.5	177.2	56	54.5
GIW-03	197.2	71	54	62.2
GIW-04	124	71	54	58.8
GIW-05	82.8	78	52	53.4
GIW-06	122.3	69	54	56.4
GIW-07	155.2	74	56	64.6
GIW-08	100.8	81	73.9	56.9
GIW-09	196	195	192	190.8
GIW-10	185.8	71	55	61.6
GIW-11	174.7	139.3	163.4	149.3
GIW-12	180	176	174	165.9

Wellfield Temperature - Bridgeton Landfill

Well Name	Maximum Initial Temperature From All Monthly Wellhead Readings (in °F)			
	Oct	Nov	Dec	Jan
GIW-13	172	171	167.7	151.7
LCS-1D	--	--	--	--
LCS-2D	--	100	--	--
LCS-3C	--	50	180.8	150.6
LCS-4B	--	--	--	--
SEW 12A	94.6	80.2	65.9	53.1
SEW 13	--	--	--	--
SEW 17R	176.2	--	133	153.5
SEW 31R	--	--	--	--
SEW 32R	80	46.2	40.9	61.3
SEW 60R	142	127.4	131	63.3
SEW 61R	192	41.7	161	33.6
SEW 62R	190	169.2	165	146.6
SEW 63	194	191.3	192	187.6
SEW 64	157	148.1	134.6	122.8
SEW-64A	--	--	--	--
SEW 67	127	104	--	120.2
SEW 72R	110	93.2	90	88.4
SEW 74	115	91.8	91.5	84
SEW 79R	84	42.7	30.4	79.3

-- = Indicates no data available.

ATTACHMENT F-3

LAB ANALYSES SPREADSHEET

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
North Quarry							
GEW-002	9/11/2014	55	41	ND	4	0.072	ND
	11/11/2014	41	33	1.4	24	0.07	280
	1/20/2015	54	39	ND	5.7	0.058	ND
GEW-003	9/11/2014	55	43	ND	ND	0.043	ND
	11/11/2014	22	28	1.5	49	0.062	ND
	1/20/2015	48	37	ND	15	0.055	ND
GEW-004	9/11/2014	53	42	ND	4.6	0.1	ND
	11/11/2014	9.3	20	2.7	68	ND	130
	1/20/2015	51	38	ND	9.5	0.11	ND
GEW-005	9/11/2014	53	38	ND	9	0.052	ND
	11/11/2014	25	29	ND	46	ND	ND
	1/27/2015	35	ND	0.046	48	15	ND
GEW-006	9/11/2014	53	42	ND	4.1	ND	ND
	11/11/2014	35	34	ND	30	ND	ND
	1/20/2015	51	38	ND	10	ND	ND
GEW-007	9/11/2014	53	44	ND	ND	ND	ND
	11/12/2014	52	43	ND	3.9	ND	ND
	1/20/2015	55	42	ND	ND	ND	ND
GEW-008	10/6/2014	50	43	ND	ND	3.8	ND
	11/12/2014	47	44	ND	4.8	3.1	39
	12/9/2014	49	45	ND	3.9	1.7	38
	1/19/2015	50	45	ND	ND	2.6	ND
GEW-009	10/6/2014	50	43	ND	5.9	0.55	ND
	11/12/2014	47	43	ND	8.6	0.5	ND
	12/9/2014	49	42	ND	7	0.77	ND
	1/19/2015	51	43	ND	3.9	0.81	ND
GEW-040	10/6/2014	52	44	ND	ND	ND	ND
	11/7/2014	53	43	ND	3.2	ND	ND
	12/9/2014	50	42	1.7	6.1	ND	ND
	1/16/2015	52	43	ND	3.4	ND	ND
GEW-041R	9/11/2014	54	40	ND	5.2	ND	ND
	11/7/2014	49	37	ND	12	ND	ND
	1/16/2015	55	40	ND	3.8	ND	ND
GEW-042R	9/11/2014	51	40	ND	8.8	ND	ND
	11/7/2014	52	37	1.6	9.7	ND	ND
	1/20/2015	57	40	ND	2.8	0.031	ND
GEW-043R	9/11/2014	53	42	ND	4.3	0.49	ND
	11/7/2014	54	41	ND	4.3	0.49	ND
	1/16/2015	52	40	ND	5.8	0.435	ND
GEW-044R	9/11/2014	51	39	ND	8.6	ND	ND
	11/11/2014	34	32	ND	33	ND	ND
	1/27/2015	30	ND	ND	38	31	ND
GEW-045R	9/11/2014	56	39	ND	4.2	ND	ND
	11/11/2014	33	28	4.0	35	ND	ND
	1/20/2015	57	37	ND	5.6	ND	ND

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW-046R	9/11/2014	43	35	1.9	19	0.18	ND
	11/11/2014	48	35	ND	16	0.057	ND
	1/27/2015	35	ND	0.1	41	23	ND
GEW-047R	9/11/2014	48	39	ND	12	0.12	ND
	11/11/2014	22	28	2.1	48	ND	ND
	1/27/2015	35	ND	0.1	44	20	ND
GEW-048	9/11/2014	55	42	ND	ND	ND	ND
	11/11/2014	47	38	ND	14	0.028	ND
	1/20/2015	55	39	ND	5.6	0.043	ND
GEW-049	9/11/2014	46	39	ND	14	ND	ND
	11/11/2014	19	26	2.6	53	ND	ND
	1/27/2015	29	ND	ND	32	37	ND
GEW-050	9/11/2014	53	45	ND	ND	0.051	ND
	11/12/2014	47	39	ND	13	0.065	ND
	1/20/2015	54	42	ND	3.1	0.052	ND
GEW-051	9/11/2014	49	44	ND	ND	3.5	ND
	11/11/2014	51	41	ND	5.8	1.1	ND
	1/20/2015	52	40	ND	6.3	0.92	ND
GEW-052	9/11/2014	52	45	ND	ND	ND	ND
	11/12/2014	46	38	ND	16	ND	ND
	1/20/2015	51	39	ND	10	ND	ND
GEW-053	9/11/2014	47	43	ND	ND	7.9	64
	11/12/2014	49	43	ND	3.7	3.6	53
	1/16/2015	48	42	ND	3.6	5	41
GEW-054	9/11/2014	50	42	ND	3.9	3.6	ND
	11/7/2014	50	40	ND	5.7	3.6	ND
	1/16/2015	50	42	ND	ND	5.3	ND
GEW-055	10/6/2014	48	41	ND	5.6	3.5	35
	11/11/2014	51	42	ND	3.6	3.2	34
	12/9/2014	49	40	1.3	5	3.7	46
	1/16/2015	50	42	ND	4.3	3	ND

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
South Quarry							
GEW-010	10/6/2014	53	38	1.6	6.6	0	ND
	11/7/2014	52	36	2.3	8.8	0	ND
	12/8/201	43	34	4.5	18	0.6	56
	1/19/2015	52	36	2.4	8.8	0.4	ND
GEW-011	9/11/2014	1.9	65	ND	ND	28	2,400
	11/7/2014	1.9	63	ND	3.1	30	2,900
	1/20/2015	1.2	55	2.4	8.6	32	2,600
GEW-014A	9/11/2014	0.26	57	ND	ND	37	3,600
	11/6/2014	0.23	58	ND	3	35	4,200
GEW-015	9/11/2014	0.15	56	ND	ND	39	2,700
	11/6/2014	0.15	57	ND	3.1	37	3,000
GEW-016R	9/11/2014	0.31	56	ND	3.3	37	2,800
	11/6/2014	0.42	58	ND	ND	37	3,000
	1/20/2015	0.47	55	ND	3.4	38	2,500
GEW-018R	9/11/2014	0.17	58	ND	ND	36	3,100
	11/6/2014	0.22	59	ND	ND	35	3,500
GEW-020A	9/11/2014	0.71	73	ND	ND	22	4,800
	11/6/2014	3.6	43	8.4	32	12	2,300
	1/20/2015	0.53	51	6.6	24	17	3,000
GEW-021A	9/11/2014	0.29	67	ND	ND	28	4,400
	11/6/2014	0.3	51	5.2	19	23	3,800
	1/20/2015	0.46	63	ND	3.7	30	3,900
GEW-22R	1/20/2015	2.8	67	ND	ND	27	3,900
GEW-023A	9/11/2014	2.8	61	ND	ND	31	3,400
	11/6/2014	1.3	61	ND	3.2	32	4,100
	1/20/2015	0.13	64	ND	3	31	4,200
GEW-024A	9/11/2014	0.96	64	1.7	6.2	25	5,900
	11/6/2014	1.4	31	12.0	47	8.4	1,400
GEW-025A	9/11/2014	1.4	62	ND	ND	31	3,900
	11/6/2014	0.6	63	ND	ND	31	4,200
	1/20/2015	0.18	63	ND	ND	34	4,600
GEW-026R	9/11/2014	0.33	66	2.0	7.1	22	4,700
	11/6/2014	0.32	69	ND	5	22	5,700
	1/20/2015	0.4	70	ND	ND	25	5,300
GEW-27A	1/20/2015	0.1	58	2.0	7	32	2,800
GEW-028R	9/11/2014	1	47	4.8	17	28	7,400
	11/6/2014	1.3	61	ND	3.3	32	4,600
	1/20/2015	0.5	53	2.0	7	36	4,600
GEW-029	9/11/2014	0.73	56	ND	ND	38	2,900
	11/6/2014	0.55	50	3.1	11	33	3,000
	1/20/2015	0.13	56	ND	ND	40	3,300
GEW-33R	1/20/2015	12	55	ND	ND	30	1,800

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW-034	9/11/2014	4.8	55	1.8	7.4	29	2,400
	11/7/2014	8.2	55	2.2	12	22	1,900
	1/20/2015	6.8	61	ND	4.2	26	1,700
GEW-034A	9/11/2014	0.54	60	ND	ND	34	3,200
	11/7/2014	0.47	54	3.3	12	30	3,300
GEW-035	9/11/2014	0.36	55	2.3	8.4	32	3,200
	11/7/2014	0.82	55	3.2	12	28	3,100
	1/20/2015	3.2	43	6.3	23	24	2,200
GEW-038	10/6/2014	0.35	39	6.5	24	29	2,300
	11/7/2014	0.21	55	1.4	4.9	37	3,800
	12/8/201	0.2	50	2.8	10	35	3,600
	1/19/2015	0.17	38	7.3	26	28	2,700
GEW-039	10/6/2014	35	54	ND	ND	7	290
	11/7/2014	31	56	ND	ND	9	600
	12/8/201	30	56	ND	ND	9	590
	1/19/2015	29	56	ND	ND	11	500
GEW-056R	10/6/2014	20	55	ND	12	11	570
	11/7/2014	17	53	1.9	17	10	770
	12/8/2014	17	54	ND	14	13	930
	1/19/2015	19	50	1.6	19	11	570
GEW-057B	11/5/2014	0.42	57	ND	3.2	37	3,100
GEW-057R	9/11/2014	0.36	58	ND	ND	36	2,900
	11/5/2014	0.35	43	6.3	23	26	2,400
	1/20/2015	0.46	54	1.6	5.7	37	2,700
GEW-058	9/11/2014	0.37	58	ND	ND	36	3,100
	11/5/2014	0.7	55	1.9	7	33	3,200
GEW-058A	11/20/2014	0.39	54	ND	ND	41	3,000
	1/20/2015	0.42	48	3.3	12	36	2,600
GEW-059R	9/11/2014	1.2	55	ND	ND	39	1,600
	11/5/2014	1.3	54	1.7	6	36	1,700
GEW-061B	9/11/2014	ND	0.55	21.0	78	0.13	ND
	11/5/2014	0.0042	0.78	21.0	77	0.12	39
GEW-065A	9/11/2014	0.28	59	ND	ND	35	3,300
	11/5/2014	0.33	59	ND	ND	36	3,700
	1/20/2015	0.37	59	ND	ND	37	3,600
GEW-070R	9/11/2014	0.49	46	4.4	16	30	2,900
	11/5/2014	0.66	46	4.9	18	29	2,300
GEW-071	9/11/2014	0.48	57	ND	ND	37	2,900
	11/5/2014	0.85	57	ND	ND	36	2,900
GEW-075	9/11/2014	15	39	3.9	40	0.73	750
	11/6/2014	0.62	7.8	15.0	77	0.1	ND
GEW-077	9/11/2014	0.062	2.5	21.0	76	0.87	21
	11/6/2014	0.0068	0.66	22.0	78	0.15	64
	1/21/2015	0.33	57	3.6	13	26	5,700
GEW-080	9/11/2014	0.18	62	ND	ND	31	4,700
	11/6/2014	0.19	62	ND	3.2	32	5,500
	1/21/2015	0.22	64	ND	ND	32	5,800

Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GEW-082R	9/11/2014	0.79	57	ND	ND	37	2,600
	11/6/2014	0.79	58	ND	ND	36	3,000
	1/21/2015	0.75	57	ND	ND	40	2,700
GEW-083	9/11/2014	0.0084	3.5	20.0	73	3.3	40
	11/5/2014	0.0032	1	21.0	77	0.46	90
GEW-084	9/11/2014	1.6	64	ND	ND	29	3,700
	11/5/2014	1.6	64	ND	4.4	26	4,000
GEW-085	9/11/2014	0.1	28	12.0	44	14	1,700
GEW-086	9/11/2014	0.21	63	ND	ND	31	4,700
	11/5/2014	0.33	60	ND	ND	33	4,300
GEW-090	11/7/2014	0.79	55	ND	4	37	3,100
	1/21/2015	0.41	55	ND	ND	42	3,000
GEW-101	11/7/2014	1.3	64	2.9	11	20	3,600
	1/21/2015	0.36	27	14.0	49	9.3	1,400
GEW-102	11/7/2014	0.51	39	7.3	26	25	1,900
	1/21/2015	0.71	61	ND	ND	35	2,600
GEW-103	11/7/2014	0.0098	0.88	21.0	77	0.27	49
GEW-104	11/5/2014	0.41	51	4.2	15	27	2,500
GEW-105	11/7/2014	9	56	5.0	18	11	1,100
GEW-107	11/7/2014	0.15	3.8	20.0	75	0.47	110
	1/20/2015	0.33	58	ND	3	37	3,600
GEW-109	10/6/2014	2.2	56	ND	3.5	35	1,800
	11/7/2014	1.4	57	ND	4.1	35	2,400
	12/8/2014	1.4	56	ND	3.4	37	2,400
	1/19/2015	1.1	53	1.8	6.2	37	2,200
GEW-110	10/6/2014	0.75	6.5	18.0	70	3.7	440
	11/7/2014	0.56	4.1	20.0	72	3	260
	12/8/2014	1.9	27	11.0	40	20	2,200
GEW-116	11/6/2014	1.9	8.3	19.0	69	1.7	280
	1/21/2015	5.9	73	3.2	11	5.8	420
GEW-117	1/21/2015	48	50	ND	ND	0.048	39
GIW-1	10/6/2014	1.4	64	ND	3.3	28	2,900
	11/12/2014	1.1	63	ND	4.6	29	3,500
	12/9/2014	1.2	62	1.6	5.7	28	3,700
	1/21/2015	0.93	61	1.5	5.5	30	3,500
GIW-2	10/6/2014	1.8	70	ND	ND	23	3,100
	11/12/2014	1.6	62	ND	4.1	30	3,800
	12/9/2014	1.9	63	ND	2.7	31	4,000
	1/21/2015	1.3	58	ND	ND	37	4,200
GIW-3	10/6/2014	0.48	64	ND	ND	31	3,300
	11/12/2014	0.31	60	ND	ND	36	3,800
	12/9/2014	0.32	52	3.3	12	32	3,500
	1/21/2015	0.25	47	5.5	20	27	2,800
GIW-4	10/6/2014	0.33	61	ND	ND	34	3,800
	11/12/2014	0.42	62	ND	4.4	31	4,700
	12/9/2014	0.48	59	1.6	5.5	33	4,800
	1/21/2015	0.35	58	1.6	5.7	34	3,600

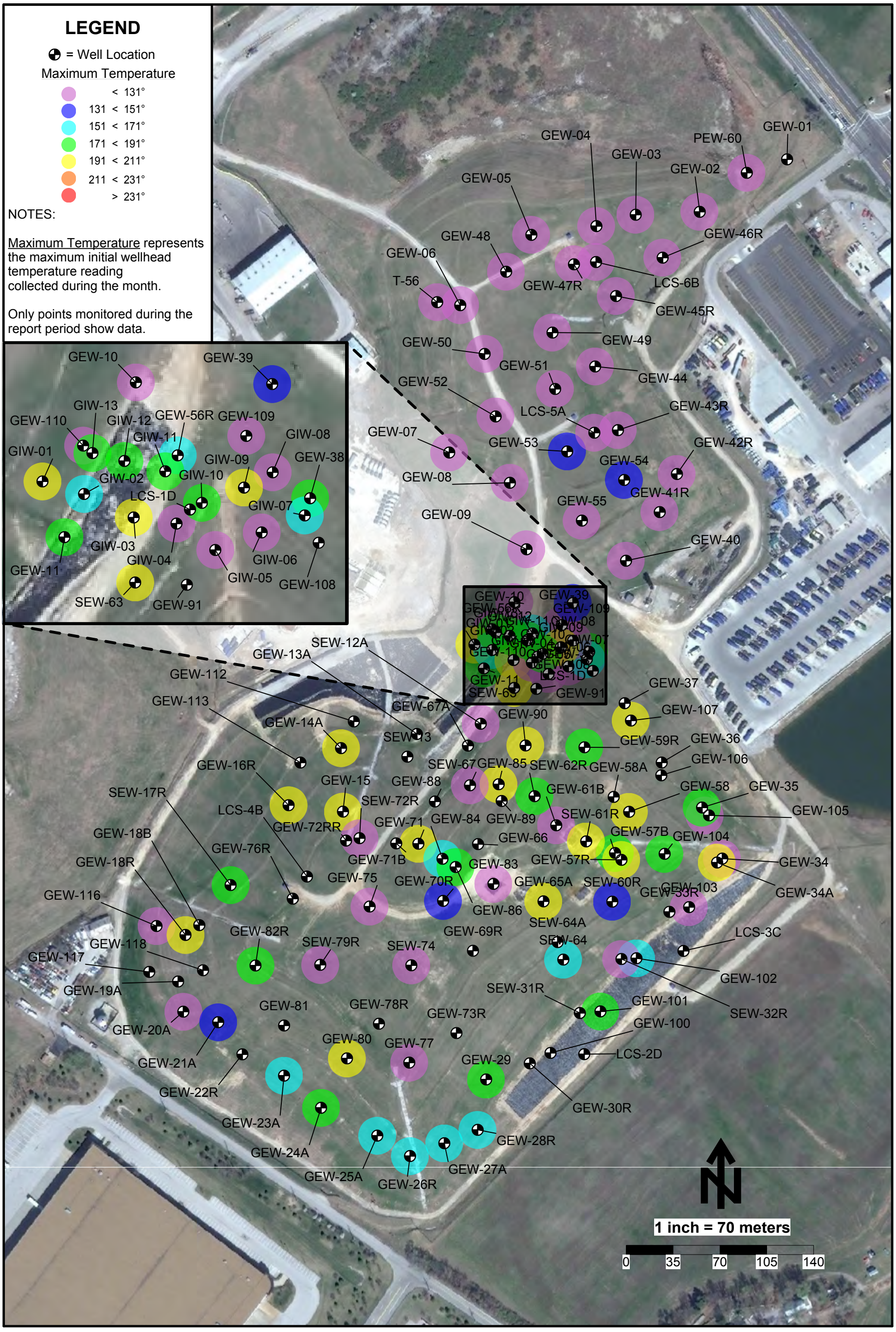
Laboratory Analysis - Bridgeton Landfill

Well Name	Date Sampled	Methane	CO_2	O_2/Argon	Nitrogen	Hydrogen	Carbon Monoxide
		(%)					(ppm)
GIW-5	10/6/2014	0.46	63	ND	ND	32	3,300
	12/9/2014	0.58	63	ND	ND	34	4,000
	1/21/2015	0.54	61	ND	ND	34	3,600
GIW-6	10/6/2014	0.65	65	ND	ND	29	2,400
	11/12/2014	0.73	64	ND	4	29	2,600
	12/9/2014	0.8	65	ND	ND	30	2,600
	1/21/2015	0.93	64	ND	ND	31	2,200
GIW-7	10/6/2014	2.1	71	ND	ND	21	2,100
	11/12/2014	17	36	6.5	24	16	1,400
	12/9/2014	25	47	2.2	7.9	17	1,600
	1/21/2015	27	50	2.1	7.5	13	1,100
GIW-8	10/6/2014	34	50	ND	4.9	8.7	580
	11/12/2014	22	63	ND	3.5	10	1,100
	12/9/2014	17	66	ND	2.9	13	2,000
	1/21/2015	1.1	30	12.0	45	10	1,300
GIW-9	10/6/2014	0.48	68	ND	ND	26	3,700
	11/12/2014	0.59	65	ND	3.3	29	4,300
	12/9/2014	0.69	66	ND	2.8	28	4,200
	1/21/2015	0.5	67	ND	3	27	3,900
GIW-10	10/6/2014	0.19	73	ND	ND	21	4,300
	11/12/2014	0.23	59	ND	ND	38	4,400
	12/9/2014	0.33	65	1.4	5.2	27	6,800
	1/21/2015	0.36	53	3.4	12	30	5,600
GIW-11	10/6/2014	1.5	53	2.4	8.8	33	2,600
	11/12/2014	1.7	63	ND	ND	33	3,500
	12/9/2014	1.8	61	1.4	5	30	3,500
	1/21/2015	1.5	60	ND	4.1	32	3,300
GIW-12	10/6/2014	2	57	1.9	7.3	30	2,000
	11/12/2014	2.2	55	2.5	9.4	30	2,600
	12/9/2014	2.5	58	1.6	6	31	2,900
	1/21/2015	2.5	54	2.9	11	29	2,400
GIW-13	10/6/2014	2.9	59	ND	ND	34	2,000
	11/12/2014	2.4	61	ND	3.3	32	2,700
	12/9/2014	2.6	62	ND	2.7	32	2,900
	1/21/2015	1.8	61	ND	3.7	32	2,700
INLET	9/11/2014	10	44	6.3	26	13	1,300
	10/6/2014	9.7	40	7.2	29	12	1,300
	11/20/2014	7.4	32	10.0	39	11	1,200
	12/9/2014	6.5	27	12.0	46	8.3	1,000
	1/21/2015	8.3	33	9.8	38	11	1,200

ND = Analyte not detected in sample.

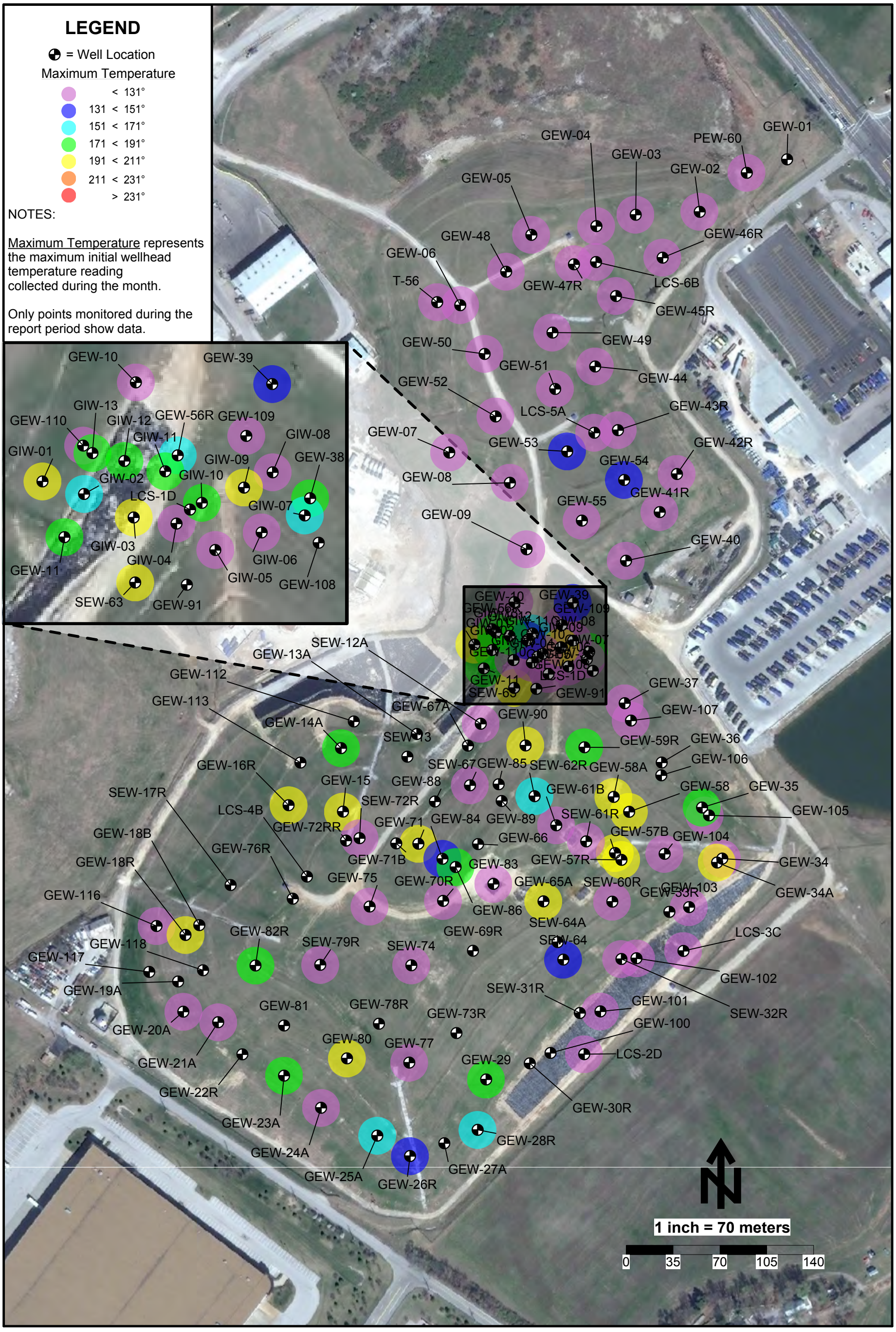
ATTACHMENT G

WELLHEAD TEMPERATURE MAPS



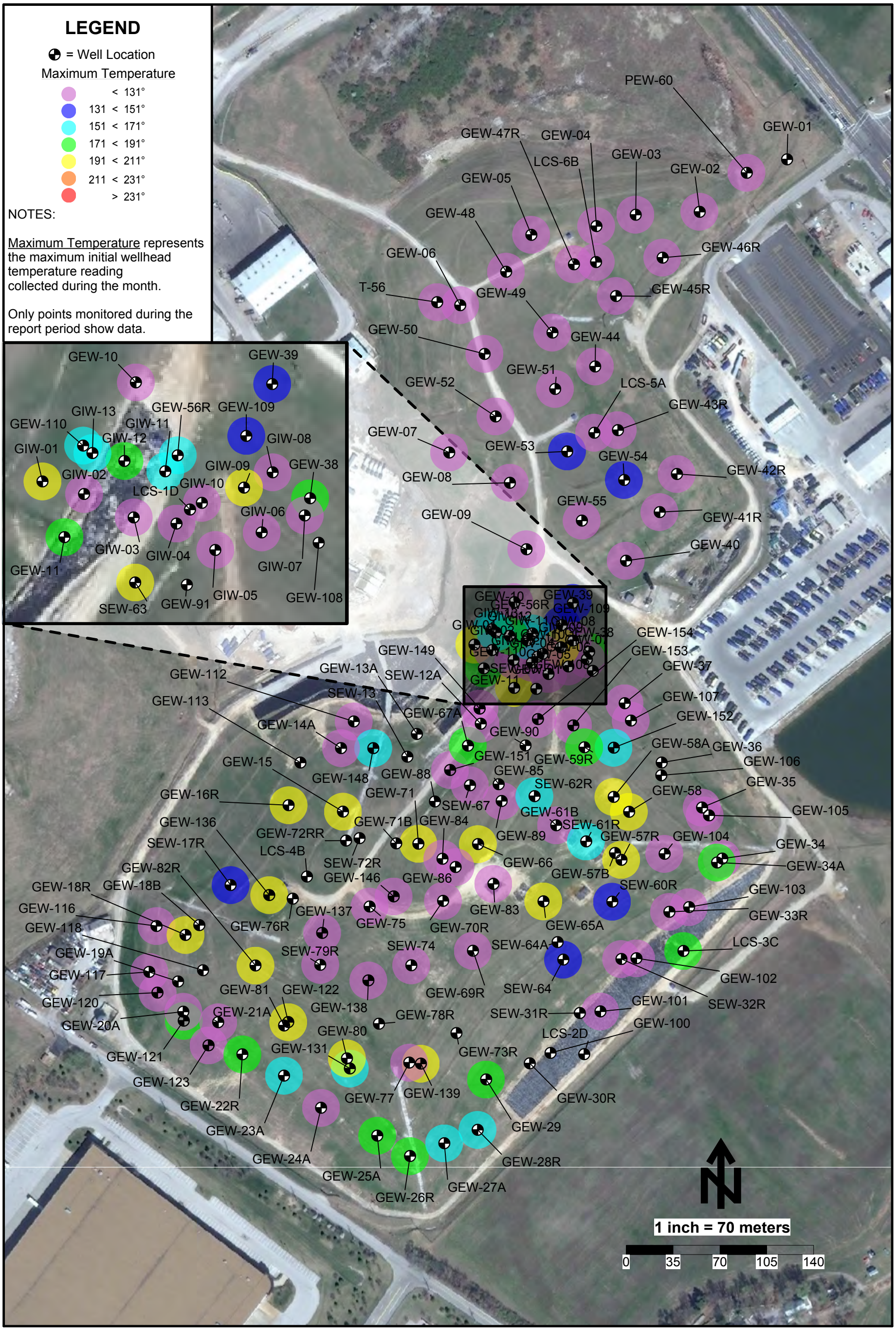
Initial Temperature Maximums - October 2014 - Bridgeton Landfill

SCS ENGINEERS



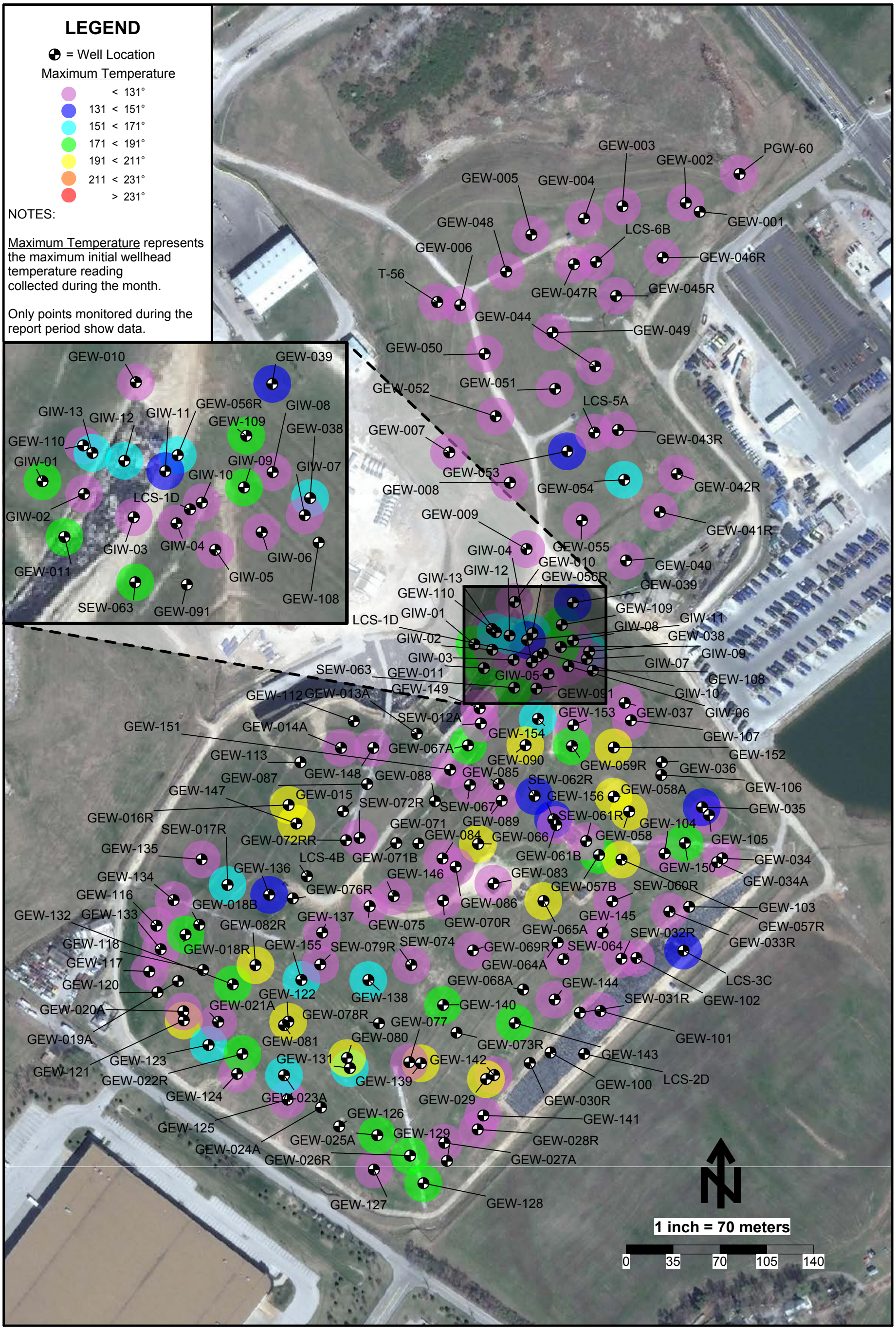
Initial Temperature Maximums - November 2014 - Bridgeton Landfill

SCS ENGINEERS



Initial Temperature Maximums - December 2014 - Bridgeton Landfill

SCS ENGINEERS



Initial Temperature Maximums - January 2015 - Bridgeton Landfill

SCS ENGINEERS

ATTACHMENT H

SUMMARY OF ODOR COMPLAINTS

January 1, 2015 – January 31, 2015 / MDNR Odor Complaints

Name: Michael Dailey

Message: Odor logged January 1, 2015, at 2:01 pm, strength of 7

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. Although this was not filed in real-time, a Bridgeton landfill odor self-inspection was performed in close proximity to the time and location cited in this concern. No odor related to the Bridgeton Landfill was observed.

Name: Debbie Neuman

Message: Odor logged January 1, 2015, at 3:00 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. No odor related to the Bridgeton Landfill was observed off-site during site self-monitoring events. At the time cited, for several hours prior, and for several hours after winds throughout the area were of a consistent west to southwest vector, placing this location upwind of the Bridgeton Landfill. This is not believed to have been a Bridgeton Landfill odor.

Name: Meagan Beckermann

Message: Odor logged January 6, 2015, at 12:15 pm, strength of 9

Follow-up: This concern has been investigated by Bridgeton Landfill staff. No odor related to the Bridgeton Landfill was observed at this location or any locations between this point and the Bridgeton Landfill.

Name: Meagan Beckermann

Message: Odor logged January 6, 2015, at 1:00 pm, strength of 9

Follow-up: This concern has been investigated by Bridgeton Landfill staff. No odor related to the Bridgeton Landfill was observed at this location or any locations between this point and the Bridgeton Landfill.

Name: Debbie Neuman

Message: Odor logged January 6, 2015, at 5:40 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. No Bridgeton Landfill odor was observed during an odor inspection performed shortly before this concern. Winds were of a west/northwest vector, placing this concern perpendicular to upwind of the Bridgeton Landfill.

Name: Gale Thackey

Message: Odor logged January 6, 2015, at 11:20 pm, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the time of this concern multiple Bridgeton Landfill staff were on-site to ensure continued operation of site infrastructure through cold weather. Site operations were maintained and no source of odor was observed during multiple inspections of the site.

Name: Debbie Neuman

Message: Odor logged January 7, 2015, at 8:30 am, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. An odor self-inspection was performed in close proximity to the time cited on this concern. No odor related to the Bridgeton Landfill was observed.

Name: Karen Nickel

Message: Odor logged January 7, 2015, at 11:10 am, strength of 5

Follow-up: This concern has been investigated by Bridgeton Landfill staff. No odor related to the Bridgeton Landfill was observed at this location or any locations between this point and the Bridgeton Landfill.

Name: Jennifer Huber

Message: Odor logged January 9, 2015, at 3:22 pm, strength of 6

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the location given a clear landfill gas odor not originating from the Bridgeton Landfill was observed. Winds were of a consistent western origin. Multiple points between this location and the Bridgeton Landfill were investigated with no odor observed. Points immediately to the west of this location had a strong landfill gas odor detectable.

Name: Debbie Neuman

Message: Odor logged January 11, 2015, at 5:30 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Approximately one hour before this concern Bridgeton Landfill staff performed an odor self-inspection through this area. No odor was observed. No work was performed for the rest of the evening. A second self-inspection was performed approximately three hours after this concern, no odor was observed then. Winds were of a consistent due south origin the entire day before, during, and after this stated observation.

Name: Robbin Dailey

Message: Odor logged January 12, 2015, at 2:00 am, strength of 3

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. This concern was not filed in real-time. No odor was observed in the previous odor self-inspection performed between approximately 9:00-10:00 PM the previous evening. No odor was observed in the following morning investigation, between approximately 9:00-10:00 AM. Winds were generally calm at the time of this concern.

Name: Michael Dailey

Message: Odor logged January 12, 2015, at 9:30 am, strength of 5

Follow-up: The following concern cites a time in close proximity to a Bridgeton Landfill self-inspection with multiple points in close proximity to this concern and others located between the Bridgeton Landfill cite and the concern location. No odor related to the Bridgeton Landfill was observed.

Name: Robbin Dailey

Message: Odor logged January 12, 2015, at 9:30 am, strength of 5

Follow-up: The following concern cites a time in close proximity to a Bridgeton Landfill self-inspection with multiple points in close proximity to this concern and others located between the Bridgeton Landfill cite and the concern location. No odor related to the Bridgeton Landfill was observed.

Name: Greg and Ellen Wortham

Message: Odor logged January 12, 2015, at 4:18 pm, strength of 5

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. On-site investigation was performed within 10 minutes of the concern. No odor related to the Bridgeton Landfill was observed.

Name: Kathy Bell

Message: Odor logged January 12, 2015, at 4:30 pm, strength of 5

Follow-up: Bridgeton Landfill staff were conducting an odor self-inspection and located within 25 feet of this location at the time this concern cites. No odor related to the Bridgeton Landfill was observed.

Name: Debbie Neuman

Message: Odor logged January 12, 2015, at 6:15 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Approximately one hour before this concern Bridgeton Landfill staff performed an odor self-inspection through this area. No odor was observed. No work was performed for the rest of the evening. A second self-inspection was performed approximately two hours after this concern, no odor was observed then.

Name: Debbie Neuman

Message: Odor logged January 12, 2015, at 8:05 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the time cited in this concern overnight staff were performing an odor self-inspection. No odor was observed at this location or any other location.

Name: Kathy Bell

Message: Odor logged January 13, 2015, at 5:13 am, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. No odor was observed at this location at approximately 7:00 AM during an odor self-inspection. A Bridgeton Landfill consultant was in close proximity to this location during the exact time of this concern and observed no odor related to the Bridgeton Landfill. At the time of this concern on-site staff performed an internal inspection and did not find odor or a source of odor leaving the site.

Name: Jennifer Huber

Message: Odor logged January 13, 2015, at 7:10 am, strength of 8

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. This concern was filed during a Bridgeton Landfill odor self-inspection that included multiple points between this concern location and the Bridgeton Landfill with no observable odor related to the Bridgeton Landfill present. As this means there was no valid pathway for Bridgeton Landfill odor to reach this location and also given the close proximity of this concern location to other known odor sources there is very little potential for this to have been a Bridgeton Landfill odor.

Name: Karen Nickel

Message: Odor logged January 13, 2015, at 7:17 am, strength of 8

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. This concern was filed during a Bridgeton Landfill odor self-inspection that included multiple points between this concern location and the Bridgeton Landfill with no observable odor related to the Bridgeton Landfill present. As this means there was no valid pathway for Bridgeton Landfill odor to reach this location and also given the close proximity of this concern location to other known odor sources there is very little potential for this to have been a Bridgeton Landfill odor.

Name: Martina Sandheinrich

Message: Odor logged January 13, 2015, at 8:30 am, strength of 2

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. This concern was filed during a Bridgeton Landfill odor self-inspection that included multiple points between this concern location and the Bridgeton Landfill with no observable odor related to the Bridgeton Landfill present. As this means there was no valid pathway for Bridgeton Landfill odor to reach this location and also given the close proximity of this concern location to other known odor sources there is very little potential for this to have been a Bridgeton Landfill odor.

Name: Debbie Neuman

Message: Odor logged January 13, 2015, at 6:10 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the time of this concern all work at the Bridgeton Landfill had ceased. No technical difficulties were experienced. Winds were of a due south origin, placing this location directly upwind of the Bridgeton Landfill.

Name: Philip Hood

Message: Odor logged January 14, 2015, at 11:40 am, strength of 7

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Immediately upon receipt Bridgeton Landfill staff conducted an odor inspection throughout the surrounding area of this concern. No odor related to the Bridgeton Landfill was observed at any point, including in close proximity to this specific location and multiple locations in between this location and the Bridgeton Landfill.

Name: Martin Sandheinrich

Message: Odor logged January 14, 2015, at 12:20 pm, strength of 5

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the time cited in this concern Bridgeton Landfill staff were performing an odor self-inspection. No odor related to the Bridgeton Landfill was observed around the entirety of the site perimeter. Winds have had consistent northern and western origins throughout the day, placing this location directly upwind of the Bridgeton Landfill.

Name: Mary McLaughlin

Message: Odor logged January 15, 2015, at 9:16 am, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Approximartely 20-25 minutes after the stated observation time, no odor was observed at the specified location or at multiple points in the vicinity. However, at approximately the observation time given an odor related to extraction well drilling was observed on-site, stemming from a shift in local area winds from a WNW vector to WSW. Drilling ceased and odor controls were repositioned before drilling resumed. There may have been a brief window in which odor might have migrated off-site, so there is some potential for this to have been a Bridgeton Landfill related odor.

Name: Kathy Brandsma

Message: Odor logged January 15, 2015, at 8:52 am, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Approximately 30-45 minutes after the stated observation time, no odor was observed at the specified location or at multiple points in the vicinity. However, at approximately the observation time given an odor related to extraction well drilling was observed on-site, stemming from a shift in local area winds from a WNW vector to WSW. Drilling ceased and odor controls were repositioned before drilling resumed. There may have been a brief window in which odor might have migrated off-site, so there is some potential for this to have been a Bridgeton Landfill related odor.

Name: Karen Nickel

Message: Odor logged January 17, 2015, at 5:40 pm, strength of 6
Odor logged January 24, 2015, at 5:45 pm, strength of 6
Odor logged January 26, 2015, at 7:02 am, strength of 3
Odor logged January 26, 2015, at 5:30 pm, strength of 3

Follow-up: The following collection of concerns has been reviewed by Bridgeton Landfill staff. These complaints were not filed in real-time. Nonetheless, given the predominantly upwind orientation of these concerns, their close proximity to other known odor sources, and the overlap with odor self-inspections that found no odor, this succession of odor concerns are not believed to have originated from the Bridgeton Landfill.

Name: Meagan Beckermann

Message: Odor logged January 17, 2015, at 6:20 pm, strength of 8
Odor logged January 20, 2015, at 2:00 pm, strength of 8
Odor logged January 20, 2015, at 5:30 pm, strength of 7
Odor logged January 23, 2015 at 3:00 pm, strength of 10
Odor logged on January 25, 2015, at 5:41 pm, strength of 7
Odor logged on January 26, 2015, at 2:53 pm, strength of 8
Odor logged January 27, 2015, at 6:20 pm, strength of 8
Odor logged January 27, 2015, at 7:40 pm, strength of 10
Odor logged January 29, 2015, at 8:51 pm, strength of 8
Odor logged January 31, 2015, at 4:53 pm, strength of 9

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. Multiple concerns within the succession of 10 concerns have times and dates that coincide with Bridgeton Landfill odor self-inspections. Those self-inspections observed no odor related to the Bridgeton Landfill, wind vectors placing the concern location upwind of the Bridgeton Landfill, or, sometimes, both. The generation of these concerns is not believed to be associated with a Bridgeton Landfill originating odor.

Name: Molly Engleking

Message: Odor logged January 19, 2015, at 8:58 am, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Odor related to the gas extraction well drilling project was observed in this area. Odor controls were immediately adjusted and follow up investigations found no off-site odor detection.

Name: Shelby Thompson

Message: Odor logged January 19, 2015, at 9:00 am, strength of 9

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Odor related to the gas extraction well drilling project was observed in this area. Odor controls were immediately adjusted and follow up investigations found no off-site odor detection.

Name: Taylor Cheney

Message: Odor logged January 19, 2015, at 10:00 am, strength of 9

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. No odor was observed at this time and at this location by Bridgeton Landfill staff during a site self-inspection following odor control re-alignment.

Name: Kathy Bell

Message: Odor logged January 20, 2015, at 1:46 am, strength of 5

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the time of this concern winds were of a generally NW vector. Bridgeton Landfill staff did not observe odor on-site at the boundaries between this location and work activities on the site. Odor was not observed at this location during odor self-inspections with similar wind conditions and work being performed on the site.

Name: Jenny Huber

Message: Odor logged January 20, 2015, at 8:00 pm, strength of 5

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Odor self-inspections performed before and after this concern did not observe Bridgeton Landfill related odor at any location between the Bridgeton Landfill and this concern location. Winds were of a consistently west by northwest vector throughout the afternoon and evening in which this concern was filed. This concern location was therefore well upwind of the Bridgeton Landfill and directly downwind and in close proximity to another known odor source. This was not believed to have been a Bridgeton Landfill related odor.

Name: Timothy Summa

Message: Odor logged January 21, 2015, at 6:40 pm, strength of 10

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. This complaint was not reported in real-time. However, at the time of this concern, winds were of a due west vector and at low velocities. The concern location is at significant distance to the southeast, and therefore well outside any projected wind migration pattern from the site. No work was being conducted at this time. An odor self-inspection performed following the cessation of work on-site did not observe any off-site odor. An odor self-inspection performed in the evening shortly after this concern did not observe any Bridgeton Landfill related odor.

Name: Jennifer Huber

Message: Odor logged January 23, 2015, at 5:00 pm, strength of 9

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. At the time of this concern winds were of a consistently west to northwest vector. The concern location is located well to the west of the Bridgeton Landfill, placing it upwind. It is directly downwind from another known odor source. This is not believed to have been a Bridgeton Landfill odor.

Name: Dawn Chapman

Message: Odor logged January 23, 2015, at 9:37 pm, strength of 8

Follow-up: The following odor concern has been investigated by Bridgeton Landfill staff. A full self-inspection was performed less than half an hour following this concern. No odor related to the Bridgeton Landfill was observed at any point during that inspection. Winds were of a consistently western origin at the time of this concern. Given the location of this concern it is highly likely this originated from one of the odor sources in the area other than the Bridgeton Landfill.

Name: Donna Klocke

Message: Odor logged January 24, 2015, at 1:45 pm, strength of 9
Odor logged January 24, 2015, at 4:50 pm, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. An odor self-inspection was performed approximately one hour after the time specified in this concern and did not observe Bridgeton Landfill related odor at points between the Bridgeton Landfill and this concern location. Prior to, during, and after the time of this concern, there was a consistent western wind throughout the area. This concern location is to the southeast of the Bridgeton Landfill and therefore located upwind. This location is also directly downwind from another local odor source that was observed as an odor source at multiple other times within the last week, including this day. This is not believed to have been a Bridgeton Landfill odor.

Name: Barb Ray

Message: Odor logged January 24, 2015, at 4:00 pm, strength of 9

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. This concern was filed at a time when a project with the potential for odor was being performed, winds were of a western origin, and the concern location is to the east of the site. A self-inspection observed odor at the site perimeter related to this project in close time proximity to this concern. This is likely to have been a Bridgeton Landfill related odor.

Name: Kathy Bell

Message: Odor logged January 24, 2015, at 6:54 pm, strength of 6

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Odor self-inspections by Bridgeton Landfill staff did not observe any Bridgeton Landfill related odors at multiple points in the vicinity of this concern before or after the time of this concern. Winds were of a consistent due west direction placing this location upwind from the Bridgeton Landfill. Bridgeton Landfill staff observed odor from another local odor source located to the west of both the Bridgeton Landfill site and this concern in close proximity with the time of this concern. This is not believed to have been a Bridgeton Landfill odor.

Name: Sharon Bishop

Message: Odor logged January 25, 2015, at 1:31 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. At the time of this concern invasive work was being performed on the Bridgeton Landfill site and winds were of a primarily due west origin. Given the location and proximity of this concern there is potential for this to have been a Bridgeton Landfill odor.

Name: Donna Klocke

Message: Odor logged January 25, 2015, at 1:46 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill related odor to the north, south, or east of the site, directly adjacent to property boundaries. Given the distance, upwind location, and close downwind proximity to another known odor source this was likely not a Bridgeton Landfill related odor.

Name: Robbin Dailey

Message: Odor logged January 25, 2015, at 2:18 pm, strength of 3

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill, all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill related odor to the north, south, or east of the site, directly adjacent to property boundaries. A Bridgeton Landfill self-inspection was performed within approximately 30 minutes of this concern and did not observe odor in close proximity with this concern location. Given the distance, upwind location, and downwind position to another known odor source with frequent odor observed within the last one to two weeks, and the lack of odor observed by an odor self-inspection performed within close proximity of this concern this is not believed to have been a Bridgeton Landfill odor.

Name: Michael Dailey

Message: Odor logged January 25, 2015, at 2:18 pm, strength of 3

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill, all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill related odor to the north, south, or east of the site, directly adjacent to property boundaries. A Bridgeton Landfill self-inspection was performed within approximately 30 minutes of this concern and did not observe odor in close proximity with this concern location. Given the distance, upwind location, and downwind position to another known odor source with frequent odor observed within the last one to two weeks, and the lack of odor observed by an odor self-inspection performed within close proximity of this concern this is not believed to have been a Bridgeton Landfill odor.

Name: Greg and Ellen Wortham

Message: Odor logged January 25, 2015, at 2:54 pm, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill-related odor to the north, south, or east of the site, directly adjacent to property boundaries. A Bridgeton Landfill self-inspection was performed within approximately 15 minutes of this concern and did not observe odor in close proximity with this concern location. Given the distance, upwind location, and downwind position to another known odor source with frequent odor observed within the last one to two weeks and the lack of odor observed by an odor self-inspection performed within close proximity of this concern this is not believed to have been a Bridgeton Landfill odor.

Name: Dawn Chapman

Message: Odor logged January 25, 2015, at 4:10 pm, strength of 9

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill, all odor mitigation efforts were implemented. The following concern is to the southeast of the site. Multiple staff observations, including a documented odor loop less than one hour before this concern, did not observe off-site odor to the south of the site, as this was a time of due west winds. This was not believed to have been a Bridgeton Landfill odor.

Name: Kathy Bell

Message: Odor logged January 25, 2015, at 4:19 pm, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill, all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill related odor to the north, south, or east of the site, directly adjacent to property boundaries. A Bridgeton Landfill self-inspection was performed within approximately 60 minutes of this concern and did not observe odor in close proximity with this concern location. Given the distance, upwind location, and downwind position to another known odor source with frequent odor observed within the last one to two weeks, and the lack of odor observed by an odor self-inspection performed within close proximity of this concern this is not believed to have been a Bridgeton Landfill odor.

Name: Robbin Dailey

Message: Odor logged January 25, 2015, at 5:21 pm, strength of 5

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill, all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill related odor to the north, south, or east of the site, directly adjacent to property boundaries. Given the distance, upwind location, and downwind position to another known odor source with frequent odor observed within the last week to two weeks there is significant doubt as to this having been a Bridgeton Landfill odor.

Name: Michael Kailey

Message: Odor logged January 25, 2015, at 5:23 pm, strength of 5

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. While invasive work was being performed throughout the weekend at the Bridgeton Landfill, all odor mitigation efforts were implemented and winds were of a consistently west by northwest origin throughout both days. The following concern is to the southwest of the site, placing it well outside the downwind range of the Bridgeton Landfill. Staff odor observations did not observe any Bridgeton Landfill related odor to the north, south, or east of the site, directly adjacent to property boundaries. Given the distance, upwind location, and downwind position to another known odor source with frequent odor observed within the last week to two weeks there is significant doubt as to this having been a Bridgeton Landfill odor.

Name: Debbie Neuman

Message: Odor logged January 26, 2015, at 5:40 pm, strength of 9
Odor logged January 27, 2015, at 5:45 pm, strength of 10
Odor logged January 28, 2015, at 5:45 pm, strength of 10
Odor logged January 29, 2015, at 4:50 pm, strength of 10
Odor logged January 30, 2015, at 5:55 pm, strength of 10
Odor logged January 31, 2015, at 12:35 pm, strength of 10

Follow-up: The following odor concerns have been reviewed by Bridgeton Landfill staff. Although these were not filed in real-time, multiple concerns within this succession of 7 concerns have times and dates that coincide with Bridgeton Landfill odor self-inspections that observed no odor related to the Bridgeton Landfill, wind vectors placing the concern location upwind of the Bridgeton Landfill, or both. The generation of these concerns is not believed to be associated with a Bridgeton Landfill originating odor.

Name: Debbi Disser

Message: Odor logged January 26, 2015, at 7:30pm, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Bridgeton Landfill staff performed observations approximately 2 hours before and 1.5 hours after this concern; no odor associated with the Bridgeton Landfill was observed off-site. Winds were of a due south origin. This concern location is directly north (i.e. downwind) of a known odor source with frequent odor observed within the last week to two weeks. This is unlikely to have been a Bridgeton Landfill odor.

Name: Martina Sandheinrich

Message: Odor logged January 27, 2015, at 12:00 pm, strength of 3

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. An odor self-inspection was performed within the hour of this concern and no odor was detected at multiple points between this location and the Bridgeton Landfill. Winds had consistently been of north and west vectors up to and during the time of this concern, placing this location crosswind from the Bridgeton landfill but directly downwind from another known odor source. This is unlikely to have been a Bridgeton Landfill odor.

Name: Kathy Bell

Message: Odor logged January 28, 2015, at 4:08 pm, strength of 8

Follow-up: The following concern was investigated immediately upon receipt by Bridgeton Landfill staff. A very faint, intermittent odor associated with pretreatment plant biomass was observed. This was <2 on Nasal Ranger at peak strength and over 50% of the time was non-detect. It could not be detected to the east, west, south, or north of this location.

Name: Kathy Bell

Message: Odor logged January 29, 2015, at 11:09 pm, strength of 8

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Odor self-inspections performed before and after this concern did not observe Bridgeton Landfill related odor at any location between the Bridgeton Landfill and this concern location. One such inspection started approximately one hour before this concern and ran until within half an hour of this concern. Winds were of a consistently west by northwest vector throughout the afternoon and evening in which this concern was filed. This concern location was therefore well upwind of the Bridgeton Landfill and directly downwind and in close proximity to another known odor source. This was not believed to have been a Bridgeton Landfill related odor.

Name: Dawn Chapman

Message: Odor logged January 29, 2015, at 11:16 pm, strength of 10

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. Odor self-inspections performed before and after this concern did not observe Bridgeton Landfill related odor at any location between the Bridgeton Landfill and this concern location. One such inspection began slightly over one hour before this concern and concluded within the hour of this concern being filed and observed no Bridgeton Landfill related odor. Winds were of a consistently west by northwest vector throughout the afternoon and evening in which this concern was filed. The wind angle would place this location outside the likely wind corridor over the Bridgeton Landfill (to the south) and directly in the wind corridor from another known odor source that is believed to have been the source for multiple other odor concerns within the past week and two concerns filed on the same evening as this concern. This was not believed to have been a Bridgeton Landfill odor.

Name: Abby Price

Message: Odor logged January 31, 2015, at 12:17 pm, strength of 6

Follow-up: The following concern has been investigated by Bridgeton Landfill staff. The location specified is of significant distance away from the Bridgeton Landfill and occurred at a time period when winds were of a persistent southern origin, placing this location upwind of the Bridgeton Landfill. This was not believed to have been a Bridgeton Landfill odor.

ATTACHMENT I

LIQUID CHARACTERIZATION DATA

Liquid Characterization Data for January .

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.

ATTACHMENT J

LIQUID TRANSPORT MANIFEST LOGS

Hauled Disposal to MSD – Bissell Point

Date	Waste	Source	Transporter	Quantity
1/1/2015	LPTP Activated Sludge/ Permeate	Tank 1 (T1)	MBI	0
1/2/2015				165,000
1/3/2015				270,000
1/4/2/015				270,000
1/5/2015				300,000
1/6/2015				300,000
1/7/2015				300,000
1/8/2015				300,000
1/9/2015				300,000
1/10/2015				300,000
1/11/2015				300,000
1/12/2015				300,000
1/13/2015				300,000
1/14/2015				300,000
1/15/2015				300,000
1/16/2015				300,000
1/17/2015				300,000
1/18/2015				300,000
1/19/2015				300,000
1/20/2015				300,000
1/21/2015				300,000
1/22/2015				300,000
1/23/2015				300,000
1/24/2015				225,000
1/25/2015				0
1/26/2015				240,000
1/27/2015				300,000
1/28/2015				300,000
1/29/2015				300,000
1/30/2015				300,000
1/31/2015				300,000

Total = 8,370,000

Direct Discharge to MSD – Missouri River Plant

Date	Waste	Source	Quantity (gal)
1/1/2015	LPTP Permeate	Through Tank AST 97k (MSD Sampling Point 013)	171,886
1/2/2015			164,725
1/3/2015			180,086
1/4/2/015			83,079
1/5/2015			0
1/6/2015			0
1/7/2015			0
1/8/2015			0
1/9/2015			0
1/10/2015			0
1/11/2015			0
1/12/2015			0
1/13/2015			0
1/14/2015			102,561
1/15/2015			0
1/16/2015			0
1/17/2015			0
1/18/2015			0
1/19/2015			0
1/20/2015			0
1/21/2015			0
1/22/2015			0
1/23/2015			0
1/24/2015			0
1/25/2015			0
1/26/2015			0
1/27/2015			0
1/28/2015			0
1/29/2015			0
1/30/2015			0
1/31/2015			0

Total = 702,337