NSPS SEMI-ANNUAL REPORT (07/1/06-12/31/06)
BRIDGETON LANDFILL, LLC
BRIDGETON, MISSOURI

Installation ID Number 189-0312
Aquaterra Project Number 2137.10
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AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.

Prepared For:
Bridgeton Landfill, LLC
13570 St. Charles Rock Road
Bridgeton, Missouri

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.

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NSPS Semi-Annual Report (7/1/06-12/31/06)
Bridgeton Landfill, LLC
Bridgeton, Missouri

1.0 INTRODUCTION

In accordance with 10 CSR 10-5.490(7)(H) each landfill that has a calculated non-methane organic compound (NMOC) emission rate equal to or greater than 25 Megagrams per year and 1.0 million Megagrams must submit a Semi-annual Report summarizing the gas system operations to verify compliance with 10 CSR 10-5.490 Municipal Solid Waste Landfill. In addition to the local requirements, the municipal solid waste landfill's NMOC emissions exceed 50 Megagrams per year, therefore the installation is subject to the requirements set forth in 40 CFR 60 Subpart WWW, New Source Performance Standards for Municipal Solid Waste Landfills (NSPS). This report serves as the semi-annual NSPS Report for the reporting period January 2006 through June 2006.

Documented in this report are exceedances of monitored parameters under 10 CSR 10-5.490 and 40 CFR 60 Subpart WWW. Information regarding operation of the landfill gas (LFG) extraction system was obtained from Bridgeton Landfill. The information regarding landfill surface monitoring was obtained from Herst and Associates. The wellfield monitoring data and the control device monitoring data was obtained from American Environmental Group (AEG) and Bridgeton Landfill.

Landfill gas at the Bridgeton Landfill is currently being collected from 82 gas extraction wells and associated header piping to a flare for control. During the reporting period two identical 3,500 standard cubic feet per minute (SCFM) were utilized to control the landfill gas collected.

2.0 NSPS COMPLIANCE REPORTING

The following discusses each of the monitored parameters to be addressed in the semi-annual report to comply with 10 CSR 10-5.490 Restriction of Emissions from Municipal Solid Waste Landfills.

2.1 Exceedance of Monitoring of the Collection System

Regulation 10 CSR 10-5.490(7)(H)1 defines the value and length of time for exceedance of applicable parameters monitored under subsections (6)(A), (B), (C), and (D).

2.1.1 Gauge Pressure

Regulation 10 CSR 10-5.490(5)(A)3 requires the operation of the collection system with negative pressure at each wellhead. Any instant where positive pressure is monitored; the location and duration of the exceedance shall be documented.

Based on the wellfield data enclosed in Appendix A, positive pressure was monitored at the wellhead GEW-23 on September 26, 2006 and GEW-01 on October 31, 2006. GEW-23 was replaced in October 5, 2006 due to high sludge levels monitored in June 2006. On October 31, 2006 Corrective action was initiated to correct the exceedance at GEW-01 was re-monitored on November 9, 2006, and recorded a negative pressure.

No other instances of positive pressure were monitored during the reporting period.

2.1.2 Temperature

Regulation 10 CSR 10-5.490(3)(B)3.B.(III)(b) requires the operation of each interior wellhead in the collection system with a landfill gas temperature less than 131°F. Any instant where a temperature in excess of 131°F is monitored; the location and duration of the exceedance shall be documented.

Per the approved *Gas Collection and Control System Report*, dated May 2003, prepared by Midwest Environmental Consultants, an alternative temperature of no greater than 140°F was approved to be monitored at each gas extraction wellhead.

Based on the wellfield data enclosed in Appendix A, a temperature of 142°F was recorded at GEW-19 on September 26, 2006. The vacuum was immediately adjusted on GEW-19 and the well was re-monitored on October 11, 2006, and recorded a temperature below 140°F. An exceedance report was submitted on October 9, 2006.

No other instances of landfill gas temperature above 140°F were monitored during the reporting period.

2.1.3 Oxygen or Nitrogen Concentration

Regulation 10 CSR 10-5.490(3)(B)3.B.(III)(b) requires the operation of each interior wellhead in the collection system with either a nitrogen level less than 20 percent or an oxygen level less than five percent. Any instant where the nitrogen level less exceeds 20 percent or the oxygen level exceeds five percent is monitored; the location and duration of the exceedance shall be documented.

Based on the wellfield data enclosed in Appendix A, elevated oxygen levels were recorded during the reporting period. GEW-23 and GEW-27 continued to monitor elevated oxygen at the wellhead during the July through September monitoring events. An exceedance report was submitted on June 23, 2006. An investigation conducted in June of 2006 had revealed that sludge was encountered 45 feet below ground surface at GEW-23 and GEW-27 was blocked at 25 feet below grade surface. GEW-23 and GEW-27 were replaced with GEW-23A and GEW-27A in October 2006. The replacement wells, GEW-23A and GEW-27A monitored compliance with all parameters beginning in October 2006. GEW-23 and GEW-27 were disconnected from the gas collection system and abandoned.

In addition, an elevated oxygen level was recorded at the wellhead of GEW-65 on September 26, 2006 and October 31, 2006. This well was replaced with GEW-65A in October of 2006 and disconnected from the gas collection system and abandoned. GEW-65A was monitored compliance with all parameters during the November 2006 monitoring event. An exceedance report was submitted on October 11, 2006.

Wells GEW-6, GEW-56, GEW-59 and GEW-66 showed elevated oxygen level during the October 31, 2006, monitoring event. Corrective action was taken to correct the exceedances immediately, these wells were re-monitored on November 9, 2006 and monitored compliance with all parameters.

2.1.4 Operations of Gas Collection System

Regulation 10 CSR 10-5.490(7)(H)4 states all periods when the collection system was not operation in excess of five (5) days.

Based on the wellfield data enclosed in Appendix A, during the December monitoring event wells GEW-7, GEW-16, GEW-17, GEW-26, GEW-53, GEW-54, GEW-55, GEW-58, GEW-

59, GEW-65, GEW-69 and GEW_78 were not monitored. These wells were monitored during the January event and no exceedances were monitored for these wells.

There were no periods when the collection system was not operational for more than five days during the reporting period.

2.1.5 Surface Emissions Monitoring

Regulation 10 CSR 10-5.490(7)(H)5 states the location of each exceedance of the 500 parts per million (ppm) methane concentration as provided in (4)(D) and the concentration recorded at each location for which an exceedance was recorded in the previous month.

In 2006 Bridgeton Landfill reverted to quarterly surface emissions monitoring due to the landfill closing February 28, 2005. Herst and Associates, Inc. completed quarterly surface monitoring on August 16, 2006 and November 27, 2006. No exceedances were observed above the 500 ppm regulatory threshold during either of these monitoring events.

2.1.6 Landfill Gas System Installation

Regulation 10 CSR 10-5.490(7)(H)6 states the date of installation and the location of each well or collection system expansion added.

During the reporting period, Bridgeton Landfill completed installation of three replacement gas extraction well. GEW-23A, GEW-27A and GEW-65A were installed on October 5, 2006. Appendix C includes the LFG extraction well construction diagrams.

2.2 Exceedance of Monitoring of the Control Device

2.2.1 Record of Operation

Regulation 10 CSR 10-5.490(7)(H)2 states the description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow.

There were no periods between July 1, 2006 and December 31, 2006, when the LFG stream was bypassed from a control device. The gas collection system at the Bridgeton Landfill does not have a bypass line and the blower/flare system is designed to shutdown the entire system when the flare is inoperable.

2.2.2 Continual Operation of Control Device

Regulation 10 CSR 10-5.490(7)(H)3 states the description and duration of all periods when the control device was not operating for a period exceeding one (1) hour and length of time the control device was not operating.

At present, total landfill gas collection ranges from 1,600 SCFM to 2,400 SCFM. Each enclosed flare has the design capacity to handle upwards of 3,500 SCFM of landfill gas. At these lower collection volumes, one flare is being used to manage landfill gas collected and the second enclosed flare is used as backup. If LFG collection approaches the maximum design rate of one enclosed flare, the other enclosed flare will become operational to control the LFG collected.

Based on the circular charts provided by Bridgeton Landfill the blower/flare system recorded five (5) events where the control device was inoperable for periods in excess of one hour. Appendix B contains the date, duration and description for the periods the control device was inoperable in excess of one hour. In addition, there were eight (8) malfunction events during which the continuous monitoring system was inoperable. Due to the absence of this data, no assumptions are made to define periods of control device downtime during these periods. These events are displayed in Table 1 below.

Table1: Continuous Monitoring System Downtime

Date(s) of Event	Duration of Event (hours)
7/14/06	65:25
7/18/06	4:30
8/3/06	1:30
9/22/06	79:30
10/19/06	5:30
10/26/06	19:17
11/20/06	2:30
12/4/06	3:15

2.2.3 Average Combustion Temperature

Regulation 40 CFR 60.758(c)(1)(i) states for enclosed combustors all 3-hour periods of operation during which the average combustion temperature was more than 82°F below the average combustion temperature during the most recent performance test.

The most recent performance test was conducted on February 16 and 17, 2005. For the two 3,500 SCFM identical enclosed flares the following compliance temperatures were recorded.

Table 2: Compliance Temperatures for East and West Flares

Flare	Thermocouple	Compliance Temperature (°F)
East Flare (#1)	TE 202B	1398
West Flare (#2)	TE 202B	1488

Based on the circular charts provided by Bridgeton Sanitary Landfill on the blower/flare system. The following events were documented where the 3-hour average combustion temperature was below the compliance temperatures in Table 2:

Initial Date	Date Returned to Compliance	Duration (hrs:min:sec)
11/11/06 15:15	11/12/06 10:45	19:30
11/18/06 21:30	11/20/06 7:45	10:15
11/20/06 10:15	11/21/06 6:30	20:15

APPENDIX A

WELLFIELD DATA

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Bridgeton Landfill Wellfield Data
July, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW01	7/28/2006 14:02	32.4	29	4.3	-0.4	128
BRIGEW02	7/28/2006 9:20	48	37.7	0	-4.5	124
BRIGEW03	7/28/2006 9:18	31.1	32.8	0	-1.8	110
BRIGEW04	7/28/2006 9:15	45.6	36.4	0	-1.2	122
BRIGEW05	7/28/2006 9:11	25.4	30.3	0	-1.1	100
BRIGEW06	7/28/2006 16:09	42	35.1	2.6	-0.7	106
BRIGEW07	7/28/2006 8:45	43.8	36	0.1	-7.6	114
BRIGEW08	7/28/2006 8:43	36	29.3	3.1	-5.3	120
BRIGEW09	7/28/2006 16:05	13.8	16.8	4.8	-16.3	118
BRIGEW10	7/28/2006 8:32	56.2	36.9	0.1	-9.7	122
BRIGEW11	7/28/2006 8:29	40.2	33.1	0.2	-10.1	138
BRIGEW12	7/28/2006 12:29	39.1	34.2	0.2	-3.3	126
BRIGEW13	7/28/2006 12:27	59.6	39.6	0.6	-5	130
BRIGEW14	7/28/2006 12:25	47.4	37.5	0.3	-4.1	116
BRIGEW15	7/28/2006 12:23	25.6	26.1	2.7	-1.7	104
BRIGEW16	7/28/2006 12:18	50.1	36.1	0.6	-2	120
BRIGEW17	7/28/2006 12:15	50.3	34.7	1.2	-3	116
BRIGEW18	7/28/2006 12:12	46	31.5	4.9	-10.7	124
BRIGEW19	7/28/2006 12:05	48.3	27.9	2	-1.2	138
BRIGEW20	7/28/2006 11:58	50.4	37.2	0.6	-3.6	120
BRIGEW21	7/28/2006 11:56	48.5	37.7	0.2	-2.8	118
BRIGEW22	7/28/2006 11:53	47.6	37.6	0.4	-3	106
BRIGEW23	7/28/2006 11:51	8.1	4.9	15.2	-14.4	106
BRIGEW24	7/28/2006 11:48	34	32.5	0.3	-2.6	120
BRIGEW25	7/28/2006 11:45	31.4	31.6	0.8	-3.1	102
BRIGEW26	7/28/2006 11:43	46.3	35	1.2	-18.2	130
BRIGEW27	7/28/2006 11:40	29.9	20.5	8.3	-13.3	120
BRIGEW28	7/28/2006 11:36	59.9	39.6	0.4	-11.4	124
BRIGEW29	7/28/2006 11:33	56.3	42.1	0.2	-3	102
BRIGEW30	7/28/2006 11:30	57.1	38.6	0.5	-8.6	120
BRIGEW31	7/28/2006 11:27	56.3	42.2	1.4	-12.8	130
BRIGEW32	7/28/2006 11:23	59.3	39	1.6	-13.8	120
BRIGEW33	7/28/2006 11:17	59.8	39.5	0.6	-12	118
BRIGEW34	7/28/2006 11:15	51.5	37.5	0.2	-8.7	122
BRIGEW35	7/28/2006 11:13	56.7	40.1	0.2	-8	114
BRIGEW36	7/28/2006 11:10	48.9	39.6	0.2	-3.8	98
BRIGEW37	7/28/2006 11:08	35.1	33.9	0.5	-3.2	104
BRIGEW38	7/28/2006 11:05	50.5	36.9	1.4	-4.5	84
BRIGEW39	7/28/2006 8:22	46.7	37.9	0.2	-3	116
BRIGEW40	7/28/2006 9:55	32.8	29.5	3.4	-7	106
BRIGEW41	7/28/2006 9:51	43.6	36.6	0	-2.1	110
BRIGEW42	7/28/2006 9:49	27.4	29.1	0	-2	110
BRIGEW43	7/28/2006 9:36	41.2	34.7	0.1	-2.2	126
BRIGEW44	7/28/2006 9:34	17	23.7	0.1	-1.2	120
BRIGEW45	7/28/2006 9:26	37.8	33.2	0	-2.3	108
BRIGEW46	7/28/2006 9:23	46.6	37.8	0.1	-6.9	116
BRIGEW47	7/28/2006 9:13	57.3	41	0	-8.4	110
BRIGEW48	7/28/2006 9:08	46.3	38.6	0.1	-1.1	118
BRIGEW49	7/28/2006 9:29	25.6	30.3	0	-1.9	92
BRIGEW50	7/28/2006 8:55	46.3	37	0	-0.5	110

Bridgeton Landfill Wellfield Data
July, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW51	7/28/2006 9:31	43.5	37.5	0	-2.6	108
BRIGEW52	7/28/2006 8:53	20.5	27.2	0	-1	104
BRIGEW53	7/28/2006 9:42	40	35.2	0.4	-2.1	110
BRIGEW54	7/28/2006 9:47	35	35.7	0	-2	108
BRIGEW55	7/28/2006 9:45	35.3	34.9	0.1	-2.4	106
BRIGEW56	7/28/2006 8:25	31.7	32.6	0	-4.9	130
BRIGEW57	7/28/2006 14:57	50.2	41	0.2	-5.8	100
BRIGEW58	7/28/2006 15:03	47.2	39.7	0.3	-4.7	122
BRIGEW59	7/28/2006 15:05	43.1	36.2	0.5	-5.8	112
BRIGEW60	7/28/2006 14:56	51.2	39.8	0.6	-6.1	106
BRIGEW61	7/28/2006 15:00	39	38.3	0.6	-3.9	90
BRIGEW62	7/28/2006 15:07	28.5	29.1	0.9	-4.1	100
BRIGEW63	7/28/2006 12:31	35.8	31.5	0.3	-9	132
BRIGEW64	7/28/2006 14:53	50.1	39.2	0.9	-9.1	106
BRIGEW65	7/28/2006 14:51	34.1	34.2	2.1	-5.1	106
BRIGEW66	7/28/2006 15:10	31.8	31.3	1	-6.3	100
BRIGEW67	7/28/2006 14:10	45.8	35	1.3	-6.4	124
BRIGEW68	7/28/2006 14:45	53.4	38.8	0.3	-12.2	110
BRIGEW69	7/28/2006 14:48	56.5	39.2	0.2	-13.8	108
BRIGEW70	7/28/2006 15:12	45	36.3	1	-12.2	110
BRIGEW71	7/28/2006 14:15	30.5	30.5	1.6	-6.4	112
BRIGEW72	7/28/2006 14:20	30.8	29.3	1.1	-3.4	102
BRIGEW73	7/28/2006 14:43	52.3	36.9	0.3	-12	118
BRIGEW74	7/28/2006 14:41	56.8	42.9	0.2	-13.5	116
BRIGEW75	7/28/2006 14:17	35.4	33.7	0.8	-8.1	112
BRIGEW76	7/28/2006 14:22	22.3	24.8	0.3	-2	110
BRIGEW77	7/28/2006 14:32	36.9	31.1	2.3	-10.6	120
BRIGEW78	7/28/2006 14:34	53.1	38.5	0.3	-12.5	118
BRIGEW79	7/28/2006 14:36	49.1	36.9	0.2	-12.7	114
BRIGEW80	7/28/2006 14:29	45.2	38.3	0.2	-6.1	104
BRIGEW81	7/28/2006 14:27	42.7	35.6	0.3	-4	116
BRIGEW82	7/28/2006 14:25	37.5	35	0.5	-3.9	106

Bridgeton Landfill Wellfield Data
August, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW01	8/9/2006 17:35	39.3	31.1	2.6	-0.5	130
BRIGEW02	8/9/2006 14:11	46.2	39.2	0.1	-4.3	124
BRIGEW03	8/9/2006 14:08	31.1	32.3	0.2	-1.6	112
BRIGEW04	8/9/2006 14:06	43	36.6	0.2	-1.1	122
BRIGEW05	8/9/2006 14:01	26.3	30.9	0.2	-0.9	106
BRIGEW06	8/9/2006 13:56	56.7	42.9	0.2	-0.1	110
BRIGEW07	8/9/2006 12:20	41.9	36.1	0.1	-7.8	120
BRIGEW08	8/9/2006 12:17	37.3	28.3	3.2	-5.5	120
BRIGEW09	8/9/2006 12:13	18.1	19.8	4.4	-10.4	120
BRIGEW10	8/9/2006 12:10	53	36.5	0.2	-10.3	122
BRIGEW11	8/9/2006 12:08	41.1	32.9	0.5	-9.8	139
BRIGEW12	8/9/2006 10:36	31	31.2	0	-2.9	126
BRIGEW13	8/9/2006 10:32	49.4	39.1	0.2	-5.7	128
BRIGEW14	8/9/2006 10:29	38.4	35.3	0	-4.1	116
BRIGEW15	8/9/2006 10:25	15.3	21.6	3.2	-1.8	108
BRIGEW16	8/9/2006 10:21	28.5	30.8	0.3	-2.4	120
BRIGEW17	8/9/2006 10:14	42.9	35.6	0	-4.5	114
BRIGEW18	8/9/2006 10:12	41.1	34.1	3	-13.2	120
BRIGEW19	8/9/2006 10:10	50.4	40.4	0	-1.5	138
BRIGEW20	8/9/2006 10:08	36.1	33.1	1.1	-4.5	120
BRIGEW21	8/9/2006 16:50	43.5	37	0.2	-2.2	128
BRIGEW22	8/9/2006 16:48	44.9	36.8	0.4	-2.4	112
BRIGEW23	8/9/2006 16:45	8.6	4.7	14.1	-14	136
BRIGEW24	8/9/2006 16:42	31.3	30.8	0.3	-3.7	120
BRIGEW25	8/9/2006 16:40	27.4	28.6	0.2	-2.7	116
BRIGEW26	8/9/2006 16:38	45	35.3	0.6	-13	124
BRIGEW27	8/9/2006 16:33	29	21	7	-12.9	118
BRIGEW28	8/9/2006 16:31	60.7	38.9	0.3	-11	124
BRIGEW29	8/9/2006 16:28	43.9	38.5	0.2	-2.3	108
BRIGEW30	8/9/2006 16:26	53.3	37.7	0.4	-10.1	112
BRIGEW31	8/9/2006 16:24	55.7	32.9	1.2	-15.7	130
BRIGEW32	8/9/2006 15:52	60	38.8	1.1	-13.7	120
BRIGEW33	8/9/2006 15:48	60.1	39.6	0.2	-12	118
BRIGEW34	8/9/2006 15:45	44.8	35.3	0.2	-8	124
BRIGEW35	8/9/2006 15:42	48.8	40.1	0.2	-8	112
BRIGEW36	8/9/2006 15:40	45.7	40.8	0.2	-2.7	100
BRIGEW37	8/9/2006 15:38	31.8	35	0.2	-2.2	104
BRIGEW38	8/9/2006 15:36	50.9	38.9	0.7	-3.7	84
BRIGEW39	8/9/2006 10:45	49.6	37.4	0	-3.1	114
BRIGEW40	8/9/2006 14:32	39.1	35	0.1	-6	110
BRIGEW41	8/9/2006 14:30	38.6	35.7	0.1	-1.9	116
BRIGEW42	8/9/2006 14:27	25	28.4	0.1	-1.9	116
BRIGEW43	8/9/2006 14:25	39.3	35.1	0.2	-4.4	128
BRIGEW44	8/9/2006 14:23	23.1	27	0.2	-1.2	126
BRIGEW45	8/9/2006 14:15	37.6	34.1	0.2	-4.5	116
BRIGEW46	8/9/2006 14:13	47.6	38.9	0.5	-6.8	118
BRIGEW47	8/9/2006 14:03	48.6	39.8	0.2	-14.7	120
BRIGEW48	8/9/2006 13:59	47.7	39.3	0.2	-1	120

Bridgeton Landfill Wellfield Data
August, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW49	8/9/2006 14:18	27.3	32.1	0.2	-1.7	96
BRIGEW50	8/9/2006 13:53	47.8	39.5	0.3	-0.7	112
BRIGEW51	8/9/2006 14:20	44.4	38.2	0.1	-2.3	110
BRIGEW52	8/9/2006 13:51	17.6	26.4	0.8	-0.6	110
BRIGEW53	8/9/2006 14:39	52.2	40	0.1	-2	120
BRIGEW54	8/9/2006 14:37	35.4	36.2	0.1	-1.7	110
BRIGEW55	8/9/2006 14:34	34	35.4	0.1	-2.2	110
BRIGEW56	8/9/2006 10:42	28.7	30.5	0	-4.4	56
BRIGEW57	8/10/2006 9:27	58.4	40.8	0	-5.3	102
BRIGEW58	8/10/2006 9:23	51.2	38.8	0	-4.1	134
BRIGEW59	8/10/2006 9:31	51.8	36.7	0	-5.3	110
BRIGEW60	8/10/2006 9:11	55.9	38.8	0	-5.6	104
BRIGEW61	8/10/2006 9:15	38.8	37	0	-4.2	84
BRIGEW62	8/10/2006 9:18	24.9	27.3	0	-3.6	94
BRIGEW63	8/9/2006 10:39	35.1	31.8	0.4	-8.5	128
BRIGEW64	8/10/2006 9:07	54.1	39.6	0	-8.6	106
BRIGEW65	8/10/2006 9:04	36.6	34.6	0	-4.5	84
BRIGEW66	8/10/2006 9:01	33.7	32.5	0	-5.8	96
BRIGEW67	8/9/2006 17:22	54.1	36.4	0.1	-5.3	124
BRIGEW68	8/10/2006 8:53	57	37.9	0	-13.2	110
BRIGEW69	8/10/2006 8:56	60.5	39.4	0	-14.3	108
BRIGEW70	8/10/2006 8:58	54.7	38.5	0	-12.5	110
BRIGEW71	8/9/2006 17:20	42.5	33.9	0.2	-7	112
BRIGEW72	8/9/2006 17:15	37.1	33.7	0.1	-2.8	110
BRIGEW73	8/10/2006 8:50	57	36.6	0	-12.1	118
BRIGEW74	8/10/2006 8:46	57.4	42.5	0	-13	110
BRIGEW75	8/10/2006 8:42	45.1	35.9	0	-9	114
BRIGEW76	8/9/2006 17:12	50.2	41.6	0.2	-1.5	114
BRIGEW77	8/9/2006 16:58	42.6	34.3	0.2	-10.5	120
BRIGEW78	8/9/2006 17:02	57.3	42.4	0.1	-11.7	116
BRIGEW79	8/9/2006 17:06	57.3	40.5	0.2	-11.8	116
BRIGEW80	8/9/2006 16:55	44.8	38	0.3	-5.1	108
BRIGEW81	8/9/2006 16:53	48.5	36.8	0.2	-3.2	118
BRIGEW82	8/9/2006 17:09	38.8	34.6	0.2	-4.5	112

Bridgeton Landfill Wellfield Data
September, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW01	9/27/2006 11:52	30.8	27.2	4.8	-0.4	128
BRIGEW02	9/27/2006 10:46	48.4	37.7	0.2	-4.5	110
BRIGEW03	9/27/2006 10:44	31.8	33.1	0	-1.3	106
BRIGEW04	9/27/2006 10:42	43.3	37.4	0	-0.5	120
BRIGEW05	9/27/2006 10:38	26.6	30.8	0	-0.4	100
BRIGEW06	9/27/2006 10:32	34.9	31.5	2.8	-0.1	104
BRIGEW07	9/27/2006 10:22	43.4	35.4	0	-8.3	116
BRIGEW08	9/27/2006 10:20	43.1	30.8	2.6	-3.4	122
BRIGEW09	9/27/2006 10:17	16.3	19	4.4	-5.3	120
BRIGEW10	9/27/2006 10:15	53.5	36.3	0	-11.3	122
BRIGEW11	9/27/2006 9:58	52.8	35.9	1.9	-8.4	140
BRIGEW12	9/26/2006 16:57	35.6	33.7	0	-2.4	130
BRIGEW13	9/26/2006 16:54	49.2	38	0.3	-7.6	134
BRIGEW14	9/26/2006 16:52	42.8	35.8	0	-2.7	110
BRIGEW15	9/26/2006 16:49	13.3	19.3	4	-1	100
BRIGEW16	9/26/2006 16:46	34	33.9	0.2	-1.3	118
BRIGEW17	9/26/2006 16:43	50.8	37.4	0	-2.6	116
BRIGEW18	9/26/2006 16:41	41.9	33.2	4.8	-2	120
BRIGEW19	9/26/2006 16:39	57.4	42.5	0	-0.7	142
BRIGEW20	9/26/2006 16:37	41	35.6	0.8	-3.9	120
BRIGEW21	9/26/2006 18:04	40.1	35.7	0	-2.1	112
BRIGEW22	9/26/2006 18:01	48.3	36.7	0.3	-2.1	104
BRIGEW23	9/26/2006 17:59	1	0	19	0	88
BRIGEW24	9/26/2006 17:56	35.1	32.3	0.1	-2	120
BRIGEW25	9/26/2006 17:54	35.1	32.1	0	-1.9	110
BRIGEW26	9/26/2006 17:52	48.7	35.6	0.3	-5.6	134
BRIGEW27	9/26/2006 17:49	18.7	12.9	10.7	-7.6	108
BRIGEW28	9/26/2006 17:47	51.1	35.7	0	-13.7	124
BRIGEW29	9/26/2006 17:45	38.6	36.1	0	-2.4	92
BRIGEW30	9/26/2006 17:43	43.3	34.5	0.4	-10.3	120
BRIGEW31	9/26/2006 17:41	54.6	30.1	1	-16.5	126
BRIGEW32	9/26/2006 17:38	59.8	32.9	1.7	-17.3	118
BRIGEW33	9/26/2006 17:33	60.2	39.7	0	-15.2	106
BRIGEW34	9/26/2006 17:30	37.7	33.8	0	-8.6	126
BRIGEW35	9/26/2006 17:28	46	37.9	0	-9.2	112
BRIGEW36	9/26/2006 17:26	43.7	40.4	0	-3.1	102
BRIGEW37	9/26/2006 17:24	29.1	32.5	0	-2.1	106
BRIGEW38	9/26/2006 17:22	51.7	38.1	0	-4	82
BRIGEW39	9/26/2006 15:16	45.5	36.8	0	-2.9	114
BRIGEW40	9/27/2006 11:14	42.2	35.9	0	-4.9	96
BRIGEW41	9/27/2006 11:11	40.2	34.7	0	-1.9	106
BRIGEW42	9/27/2006 11:09	27	29.4	0	-1.5	102
BRIGEW43	9/27/2006 11:02	40.1	35.1	0	-1.3	128
BRIGEW44	9/27/2006 11:00	25	28	0	-1.1	114
BRIGEW45	9/27/2006 10:50	27.8	29.8	0	-10.7	100
BRIGEW46	9/27/2006 10:48	45.3	37.7	0	-8.4	110
BRIGEW47	9/27/2006 10:40	50.9	38.9	0	-17.3	110

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September, 2006

BRIGEW48	9/27/2006 10:35	45.2	38.1	0	-0.7	112
BRIGEW49	9/27/2006 10:53	25.1	29.8	0	-1.5	92
BRIGEW50	9/27/2006 10:28	46.9	37.6	0	-0.6	100
BRIGEW51	9/27/2006 10:56	47	37.1	0	-2.9	112
BRIGEW52	9/27/2006 10:25	19.3	26.4	0	-0.2	100
BRIGEW53	9/27/2006 11:04	44.4	37.3	0	-2	110
BRIGEW54	9/27/2006 11:06	35.1	35.1	0	-1.6	110
BRIGEW55	9/27/2006 11:16	34.7	34.8	0	-1.9	106
BRIGEW56	9/26/2006 17:02	30.6	29.7	0	-3.9	130
BRIGEW57	9/26/2006 18:53	46.1	38.6	0	-8.1	98
BRIGEW58	9/26/2006 18:56	45.7	37.6	0	-4.1	132
BRIGEW59	9/14/2006 16:52	45.5	36.4	0.3	-6	110
BRIGEW60	9/26/2006 18:51	39.2	36.1	0	-7.2	106
BRIGEW61	9/26/2006 18:58	34	34	0.2	-5.3	82
BRIGEW62	9/26/2006 19:01	21.6	24.8	0.2	-3.2	100
BRIGEW63	9/26/2006 17:00	44.7	34.1	0	-8.4	140
BRIGEW64	9/26/2006 18:49	47.7	38.6	0.2	-10.4	104
BRIGEW65	9/27/2006 12:04	21	21.6	6.8	-5.5	84
BRIGEW66	9/26/2006 18:43	31.3	30.8	0.1	-5.1	94
BRIGEW67	9/26/2006 19:07	45.3	34.6	0	-6.7	126
BRIGEW68	9/26/2006 18:36	45.4	35.9	0	-13.7	110
BRIGEW69	9/26/2006 18:39	55.4	39.6	0	-19.2	110
BRIGEW70	9/26/2006 18:41	49	37.9	0	-15.1	110
BRIGEW71	9/26/2006 19:04	32.9	31	0	-7.2	110
BRIGEW72	9/26/2006 18:24	34.6	31.7	0	-2.2	94
BRIGEW73	9/26/2006 18:33	61	38	0.9	-7	90
BRIGEW74	9/26/2006 18:29	58.1	41.8	0	-14.6	104
BRIGEW75	9/26/2006 18:26	44	36	0	-7.7	114
BRIGEW76	9/26/2006 18:21	54.5	39	0	-2	110
BRIGEW77	9/26/2006 18:14	46.8	36.1	0	-10.2	120
BRIGEW78	9/26/2006 18:16	52.4	39.1	0	-14.8	118
BRIGEW79	9/26/2006 18:19	55.6	38.2	0	-15.7	110
BRIGEW80	9/26/2006 18:12	42.5	36.5	0	-5.3	90
BRIGEW81	9/26/2006 18:09	45.2	35.8	0	-3.3	116
BRIGEW82	9/26/2006 18:06	27.8	28.8	0.1	-3.7	110

Bridgeton Landfill Wellfield Data
October, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW01	10/31/2006 9:37	51.6	40.4	0	0	90
BRIGEW02	10/31/2006 9:41	43	37	0.8	-6.8	115
BRIGEW03	10/31/2006 10:19	28.3	32.7	0.3	-2.2	112
BRIGEW04	10/31/2006 10:17	23.4	27.9	0.3	-1.1	120
BRIGEW05	10/31/2006 10:15	21.7	30.2	0.2	-1.1	100
BRIGEW06	10/31/2006 9:28	1.6	8.9	12	-0.5	60
BRIGEW07	10/31/2006 9:22	40.1	35.5	0.4	-10.7	120
BRIGEW08	10/31/2006 9:20	35.4	27.8	4.9	-6.2	120
BRIGEW09	10/30/2006 15:46	20.6	19.6	3.6	-11.1	120
BRIGEW10	10/30/2006 15:49	46.4	30.9	0.2	-13.8	120
BRIGEW11	10/30/2006 15:52	47.7	31	0.4	-8.8	139
BRIGEW12	10/30/2006 16:02	30.5	28.7	0.4	-2	130
BRIGEW13	10/30/2006 16:07	44.8	31.2	1.4	-8.1	120
BRIGEW14	10/30/2006 16:10	41.9	30.8	0.6	-3.1	113
BRIGEW15	10/30/2006 17:19	11.1	15.7	4.2	-1.5	80
BRIGEW16	10/30/2006 17:23	39.6	31.8	1.3	-2.7	110
BRIGEW17	10/30/2006 16:20	52.3	32.9	0.7	-2	118
BRIGEW18	10/30/2006 16:22	45.5	29.7	4.9	-1.6	120
BRIGEW19	10/30/2006 14:46	53.6	39.1	0.7	-0.2	110
BRIGEW20	10/30/2006 14:49	43	30.6	1.7	-3	121
BRIGEW21	10/30/2006 14:52	35.1	31.4	0.5	-1.7	128
BRIGEW22	10/30/2006 14:54	50.5	32.7	0.7	-2.1	100
BRIGEW23	10/30/2006 14:58	54.8	33.1	1.3	-1.1	78
BRIGEW24	10/30/2006 15:01	29	28.3	1.1	-1.7	105
BRIGEW25	10/30/2006 15:03	32	28.8	0.4	-1.9	107
BRIGEW26	10/30/2006 15:06	35.3	29.5	1.2	-4.7	120
BRIGEW27	10/30/2006 15:09	12	20.6	0.7	-1.8	75
BRIGEW28	10/30/2006 15:12	45.6	30.5	1.3	-16	125
BRIGEW29	10/30/2006 15:15	23.4	25.7	0.8	-3	88
BRIGEW30	10/30/2006 15:17	46.4	31.8	0.4	-11.8	120
BRIGEW31	10/30/2006 15:20	64.2	35.2	0.4	-19.4	126
BRIGEW32	10/30/2006 15:23	53.1	33.2	2	-19.4	119
BRIGEW33	10/30/2006 15:26	45.2	33.1	0.8	-19	115
BRIGEW34	10/30/2006 15:28	29.9	28	0.6	-9.4	120
BRIGEW35	10/30/2006 15:31	38.1	30.5	0.3	-10.2	111
BRIGEW36	10/30/2006 15:34	32.9	30.6	0.4	-2.7	100
BRIGEW37	10/30/2006 15:36	35.1	31.3	0.5	-0.8	100
BRIGEW38	10/30/2006 15:39	44.6	31.8	0.5	-3.5	117
BRIGEW39	10/30/2006 15:42	44	30.8	0.4	-3.4	110
BRIGEW40	10/31/2006 10:00	34.9	34.8	0.4	-8.5	98
BRIGEW41	10/31/2006 9:57	30.2	32.5	0.5	-3.7	110
BRIGEW42	10/31/2006 9:55	20.4	27.1	0	-3.1	105
BRIGEW43	10/31/2006 9:52	31.9	33.2	0.3	-3.2	127
BRIGEW44	10/31/2006 9:49	5.6	20.9	0	-2.4	120
BRIGEW45	10/31/2006 9:46	23.3	28.4	0.6	-14.7	110
BRIGEW46	10/31/2006 9:43	40.3	37.6	0.5	-12.2	120
BRIGEW47	10/31/2006 10:23	45.4	39.5	0.4	-26.1	112
BRIGEW48	10/31/2006 10:12	36.8	36.4	0.3	-1.7	109
BRIGEW49	10/31/2006 10:26	17.3	27.7	0.4	-2.9	99
BRIGEW50	10/31/2006 10:10	32.8	34	0.3	-2	107

Bridgeton Landfill Wellfield Data
October, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW51	10/31/2006 10:05	40.7	37	0.5	-4.4	105
BRIGEW52	10/31/2006 10:08	11.2	22.8	0.3	-1.7	111
BRIGEW53	10/31/2006 10:03	36.3	36.1	0.4	-4.1	110
BRIGEW54	10/31/2006 10:30	28.6	35.1	0.3	-3.2	100
BRIGEW55	10/31/2006 9:17	23.9	30.7	0.4	-3.8	100
BRIGEW56	10/30/2006 15:56	19.1	18.3	5.6	-4.2	138
BRIGEW57	10/30/2006 17:50	42.6	33	0.5	-10	98
BRIGEW58	10/30/2006 16:54	37.2	30.1	0.1	-4.3	130
BRIGEW59	10/30/2006 17:01	0.3		20.8	-0.1	60
BRIGEW60	10/30/2006 16:50	38.4	30.6	0.4	-8.4	105
BRIGEW61	10/30/2006 17:52	31.7	28.6	0.5	-7.3	95
BRIGEW62	10/30/2006 17:54	22.9	23.6	0.6	-3.7	90
BRIGEW63	10/30/2006 15:59	31.2	28.7	1.1	-6.7	137
BRIGEW64	10/30/2006 16:48	43.9	32.6	0.2	-12.9	110
BRIGEW65	10/31/2006 8:54	0	0	21.4	-9.2	40
BRIGEW66	10/30/2006 17:47	0.6	0	20.6	-2	60
BRIGEW67	10/30/2006 17:09	39.3	30.4	0.4	-7.8	125
BRIGEW68	10/30/2006 16:45	43.7	30.8	0.5	-10.3	110
BRIGEW69	10/30/2006 17:43	45.2	32.7	0.4	-21.2	110
BRIGEW70	10/30/2006 17:31	40.8	31.6	0.1	-18.4	110
BRIGEW71	10/30/2006 17:12	30.4	27.9	0.3	-8.5	108
BRIGEW72	10/30/2006 17:16	31.3	28.2	0.3	-2.7	80
BRIGEW72	10/30/2006 17:36	50.8	33.2	0.3	-19.8	118
BRIGEW73	10/30/2006 17:41	47.6	30.7	0.3	-10.9	110
BRIGEW74	10/30/2006 17:34	62.5	37	0.4	-20.1	105
BRIGEW75	10/30/2006 17:29	38	30.4	0.3	-9.9	112
BRIGEW76	10/31/2006 9:00	33.4	35.1	0.3	-4.7	78
BRIGEW77	10/30/2006 17:39	40	29.4	0.5	-13.6	120
BRIGEW78	10/31/2006 9:04	53.7	38.2	0.4	-24	118
BRIGEW79	10/30/2006 17:27	46.6	32.6	0.5	-21.2	105
BRIGEW80	10/30/2006 16:34	40.8	30.9	0.1	-8.3	95
BRIGEW81	10/30/2006 16:30	48.1	31.9	0.2	-4.1	118
BRIGEW82	10/30/2006 16:28	25.6	25.6	0.3	-5.4	110

Bridgeton Landfill Wellfield Data
November, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW01	11/9/2006 14:12	56.8	38.7	0.2	-0.1	110
BRIGEW02	11/9/2006 11:11	43.9	36.2	0	-5.3	128
BRIGEW03	11/9/2006 11:08	27.9	29.7	0.3	-2	100
BRIGEW04	11/9/2006 11:05	31.4	26.9	0	-1	120
BRIGEW05	11/9/2006 11:01	21.9	28.5	0	-1	100
BRIGEW06	11/9/2006 17:47	18.2	21.8	4.6	-5.2	94
BRIGEW07	11/9/2006 9:50	43.3	35.1	0	-8.2	120
BRIGEW08	11/9/2006 9:48	44	30.4	3.6	-4.4	120
BRIGEW09	11/9/2006 9:44	16.2	18.5	4.8	-4.6	120
BRIGEW10	11/9/2006 9:42	51.3	35.8	0	-13.6	120
BRIGEW11	11/9/2006 9:39	54.8	36.3	0.1	-5.8	142
BRIGEW12	11/9/2006 9:38	34.2	38.5	0	-2	121
BRIGEW13	11/9/2006 13:10	42.1	35.1	2.1	-1.4	126
BRIGEW14	11/9/2006 9:33	47.2	39.7	0	-2.4	115
BRIGEW15	11/9/2006 12:13	15.1	21.1	2.5	-5.5	115
BRIGEW16	11/9/2006 9:31	39.5	36.4	0.5	-1.7	85
BRIGEW17	11/9/2006 9:29	47.9	39.6	0	-4.1	117
BRIGEW18	11/9/2006 9:26	42.8	35.2	4.1	-10.8	105
BRIGEW19	11/9/2006 9:22	51.6	47.5	0	-1	115
BRIGEW20	11/9/2006 9:21	47.4	38.4	0.2	-4.1	119
BRIGEW21	11/9/2006 15:11	52.9	37.6	0.4	-1.9	110
BRIGEW22	11/9/2006 15:09	60.3	37.8	0.6	-3.3	104
BRIGEW23	11/9/2006 15:06	59.2	38.2	2.4	-2.5	108
BRIGEW24	11/9/2006 15:03	34	28.2	2.7	-2.8	118
BRIGEW25	11/9/2006 15:01	41.2	4.7	0.4	-3.1	108
BRIGEW26	11/9/2006 14:58	41.4	33.4	0.6	-4.5	124
BRIGEW27	11/9/2006 14:55	18.5	22.2	0.2	-3.8	112
BRIGEW28	11/9/2006 14:48	41.4	30	4.7	-20.2	124
BRIGEW29	11/9/2006 14:46	29.1	30.5	1.9	-4.8	100
BRIGEW30	11/9/2006 14:43	42	32.4	2.2	-15.4	122
BRIGEW31	11/9/2006 14:41	61	36.3	2.4	-24.8	128
BRIGEW32	11/9/2006 13:03	61	33.6	4.3	-12.8	118
BRIGEW33	11/9/2006 12:42	48.6	34.2	1.9	-24.3	98
BRIGEW34	11/9/2006 12:40	35	31.5	0.5	-10.4	126
BRIGEW35	11/9/2006 12:37	43	35	0.7	-12.6	112
BRIGEW36	11/9/2006 12:35	37.2	34.1	0.3	-4.6	100
BRIGEW37	11/9/2006 12:33	32.9	32.3	0.7	-2.4	82
BRIGEW38	11/9/2006 12:31	41.7	33.4	1.7	-5.1	118
BRIGEW39	11/9/2006 12:28	33.6	28.7	4.6	-4.1	112
BRIGEW40	11/9/2006 11:46	37.6	33.1	0.9	-6.7	98
BRIGEW41	11/9/2006 11:43	33.3	32.5	0	-2.8	106
BRIGEW42	11/9/2006 11:40	25.1	27.6	0	-2.3	100
BRIGEW43	11/9/2006 11:35	35.4	31.9	0	-2.2	130
BRIGEW44	11/9/2006 11:31	10.5	20.2	0.7	-1.4	112
BRIGEW45	11/9/2006 11:19	21.5	22.3	3.9	-12.3	94
BRIGEW46	11/9/2006 11:15	36.9	33.9	0.9	-9.6	112
BRIGEW47	11/9/2006 11:26	50	37.7	0.1	-22.2	120

Bridgeton Landfill Wellfield Data
November, 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW48	11/9/2006 10:59	36.8	35.5	0	-1.5	110
BRIGEW49	11/9/2006 11:22	18.3	26	0	-2.2	100
BRIGEW50	11/9/2006 10:16	34.9	33.1	0	-1.7	110
BRIGEW51	11/9/2006 10:13	39.1	34.8	0	-3.2	110
BRIGEW52	11/9/2006 9:55	14	22.6	0	-1.1	102
BRIGEW53	11/9/2006 10:11	34.8	33.8	0	-3.1	116
BRIGEW54	11/9/2006 11:37	29.5	32.8	0	-2.6	102
BRIGEW55	11/9/2006 10:08	28.6	31.4	0	-2.3	104
BRIGEW56	11/9/2006 9:42	48.8	24.5	0.6	-6.9	80
BRIGEW57	11/9/2006 12:33	35.7	37.3	0.4	-11.6	96
BRIGEW58	11/9/2006 12:30	33.1	35.8	0.2	-5.5	126
BRIGEW59	11/9/2006 14:38	31.4	31.3	3.3	-10	108
BRIGEW60	11/9/2006 12:54	38	35	0.5	-9.8	110
BRIGEW61	11/9/2006 12:35	25.1	32.5	0.1	-8.8	102
BRIGEW62	11/9/2006 12:23	14.2	25.7	0	-3.9	100
BRIGEW63	11/9/2006 9:40	34.3	37.8	0	-5.9	138
BRIGEW64	11/30/2006 12:58	52.6	38.7	1.1	-13.8	96
BRIGEW65	11/9/2006 17:50	18.9	23.2	4.5	-5.1	92
BRIGEW66	11/9/2006 12:38	22.5	31.4	0.4	-6.9	103
BRIGEW67	11/9/2006 12:20	37.8	31.4	0.2	-7.5	123
BRIGEW68	11/9/2006 12:50	34.7	36	1	-5.5	108
BRIGEW69	11/9/2006 12:52	16.7	25.6	3.6	-16	104
BRIGEW70	11/9/2006 15:49	36	30.8	2.7	-21.7	110
BRIGEW71	11/9/2006 12:18	28.1	31.5	0	-9	122
BRIGEW72	11/9/2006 12:15	26	30.9	0.1	-3.5	91
BRIGEW73	11/9/2006 15:24	41.9	33.5	1.2	-13	114
BRIGEW74	11/9/2006 15:44	58.3	41.4	0.1	-24.2	100
BRIGEW75	11/9/2006 15:41	33.6	29.3	3.3	-11.5	114
BRIGEW76	11/9/2006 15:38	40.6	34.5	0.6	-3	106
BRIGEW77	11/9/2006 15:22	34.4	28.9	2.4	-15.4	120
BRIGEW78	11/9/2006 15:28	47.3	35.2	1.2	-23	118
BRIGEW79	11/9/2006 15:34	39.5	32.3	3.5	-14.9	110
BRIGEW80	11/9/2006 15:20	42.3	35	0.6	-8.4	100
BRIGEW81	11/9/2006 15:17	41.7	33.3	0.7	-4.5	120
BRIGEW82	11/9/2006 15:15	29.6	28.6	1.4	-3.1	112

Bridgeton Landfill Wellfield Data
December 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW01	12/19/2006 18:32	35.7	30	2.4	-1.2	88
BRIGEW02	12/19/2006 11:05	50.8	37.5	0	-4.1	133
BRIGEW03	12/19/2006 11:07	34.5	33.6	0	-1.2	113
BRIGEW04	12/19/2006 11:09	46.1	36.4	0	-0.8	112
BRIGEW05	12/19/2006 11:11	21.1	26.9	0	-1.2	98
BRIGEW06	12/19/2006 11:17	34.9	32.7	4.3	-0.5	76
BRIGEW08	12/19/2006 11:38	35.9	27.3	4.1	-6.5	127
BRIGEW09	12/19/2006 11:42	17.3	21	1.5	-8.9	122
BRIGEW10	12/19/2006 11:47	26.6	23.6	4.4	-24.9	120
BRIGEW11	12/19/2006 11:51	48.8	33.2	2.6	-9.4	136
BRIGEW12	12/19/2006 14:10	45.6	35.3	0	-2.6	124
BRIGEW13	12/19/2006 14:07	59.5	38.1	2.3	-1.6	130
BRIGEW14	12/19/2006 14:05	56.7	34.4	2.4	-3.5	112
BRIGEW15	12/19/2006 14:01	9	15.5	4.8	-2.4	100
BRIGEW18	12/19/2006 15:13	42.8	30.2	4.3	-38.1	121
BRIGEW19	12/19/2006 15:15	40.8	32.4	0	-2.9	80
BRIGEW20	12/19/2006 15:17	35.7	29.5	0	-5	96
BRIGEW21	12/19/2006 15:19	58.6	37.4	1.2	-3.1	112
BRIGEW22	12/19/2006 15:20	37.8	31.2	1.2	-7.7	114
BRIGEW23	12/19/2006 15:23	30.3	29.1	0	-5	108
BRIGEW24	12/19/2006 15:25	27.1	26.9	0.1	-5.2	80
BRIGEW25	12/19/2006 15:27	33.1	28.2	0	-6.7	93
BRIGEW26	12/19/2006 15:30	27	24.7	0.3	-22.3	96
BRIGEW27	12/19/2006 12:31	42.1	34.2	0.2	-7.1	96
BRIGEW28	12/19/2006 12:25	39.3	27.7	2.2	-32	126
BRIGEW29	12/19/2006 12:28	13.4	21.1	0	-6.7	129
BRIGEW30	12/19/2006 12:23	35.4	26.3	3.4	-19.7	130
BRIGEW31	12/19/2006 12:20	47.2	30	4.7	-26.6	125
BRIGEW32	12/19/2006 12:17	62.7	35.7	1.4	-10.9	118
BRIGEW33	12/19/2006 12:14	59.5	31.4	3.8	-41.9	100
BRIGEW35	12/19/2006 12:06	25.6	20.5	4.9	-17.7	116
BRIGEW35	12/19/2006 12:08	47	33.8	2.4	-8.3	110
BRIGEW36	12/19/2006 12:04	33.4	32.9	0.4	-5.2	90
BRIGEW37	12/19/2006 12:02	18.1	33.1	0.1	-2.7	50
BRIGEW38	12/19/2006 12:00	54.9	36.1	0	-4.3	112
BRIGEW39	12/19/2006 11:57	46.8	33.3	0.7	-2.5	111
BRIGEW40	12/19/2006 10:47	29.1	28.1	3.3	-9.8	80
BRIGEW41	12/19/2006 10:49	25.3	28.5	0.8	-4.3	82
BRIGEW42	12/19/2006 10:52	19	23.8	1.5	-4.1	74
BRIGEW43	12/19/2006 10:54	33.6	29.2	2.6	-3.9	122
BRIGEW44	12/19/2006 10:57	4.6	15.8	4.1	-2	90
BRIGEW45	12/19/2006 11:00	28.6	30.2	0.7	-7.9	90
BRIGEW46	12/19/2006 11:02	34.6	30.5	2.9	-5.8	115
BRIGEW47	12/19/2006 11:27	54.7	39.2	0.5	-6.2	91
BRIGEW48	12/19/2006 11:13	34.3	32.2	0.2	-2.2	109
BRIGEW49	12/19/2006 11:25	15.6	23.4	0	-2.1	91
BRIGEW50	12/19/2006 11:19	26.4	27.8	2.1	-2.7	110
BRIGEW51	12/19/2006 11:23	30.5	30	1	-5.1	110
BRIGEW52	12/19/2006 11:21	7.1	16.3	3	-1.6	99
BRIGEW56	12/19/2006 11:55	37.4	30.3	0.5	-9.1	129
BRIGEW57	12/19/2006 12:54	43.2	35.8	0.6	-5	100
BRIGEW60	12/19/2006 12:52	56.5	37.7	0.6	-5.7	100

Bridgeton Landfill Wellfield Data
December 2006

Device ID	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O_2 (Oxygen) (% by vol)	Initial Static Pressure (inches H_2O)	Initial Temperature (Deg F)
BRIGEW61	12/19/2006 12:56	26.9	28.8	1	-4.5	65
BRIGEW62	12/19/2006 13:31	30.1	28.3	0.9	-5.6	86
BRIGEW63	12/19/2006 11:54	42.4	32.6	0	-8.9	130
BRIGEW64	12/19/2006 12:50	39.5	35.4	0.5	-8.9	90
BRIGEW67	12/19/2006 13:10	46.5	29.9	4.8	-14.4	96
BRIGEW67	12/19/2006 13:35	49.5	32.3	2.5	-6.5	123
BRIGEW68	12/19/2006 12:47	32	29.1	4.8	-84.2	100
BRIGEW70	12/19/2006 13:25	36.9	33	0.2	-10.6	110
BRIGEW72	12/19/2006 13:20	41.8	30	3.9	-40.4	118
BRIGEW72	12/19/2006 13:41	23.9	23.3	3.6	-6.4	108
BRIGEW73	12/19/2006 13:14	42	30	4.3	-21.5	104
BRIGEW74	12/19/2006 13:23	56.5	37.5	0.2	-36.5	112
BRIGEW75	12/19/2006 13:43	30.6	25.5	4.9	-4.1	117
BRIGEW77	12/19/2006 13:15	29.6	24.4	2.7	-22.5	121
BRIGEW77	12/19/2006 13:15	29.6	24.4	2.7	-22.5	121
BRIGEW80	12/19/2006 13:49	28	25.9	2.9	-12.6	102
BRIGEW80	12/19/2006 13:49	28	25.9	2.9	-12.6	102
BRIGEW01	12/19/2006 16:51	25.9	22.2	6.5	-2.2	110
BRIGEW82	12/19/2006 13:55	21.1	20	4.1	-4.9	86

APPENDIX B

CONTROL DEVICE DOWNTIME TABLE

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.

Control Device Downtime
Bridgeton Landfill, L.L.C.
Reporting Period 7/1/06-12/31/06

Initial Type of Event	Start Date/Time	Startup Date/Time	Duration (hrs:min)	Type of Event
Malfunction	7/19/06 7:30 PM	7/20/06 6:30 AM	11:00	Power Outage
Malfunction	7/22/06 4:30 PM	7/22/06 8:30 PM	4:00	Blower Malfunction
Malfunction	7/25/06 11:00 PM	7/26/06 5:45 AM	6:45	Blower Malfunction
Shutdown	8/22/06 1:36 PM	8/22/06 3:10 PM	1:34	Maintenance
Shutdown	10/5/06 7:40 AM	10/5/06 4:40 PM	9:00	Shutdown for connection of replacement wells

*Per NSPS periods in excess of one hour are only included above.

APPENDIX C

GAS EXTRACTION WELL CONSTRUCTION DRAWINGS AND WELL LOGS

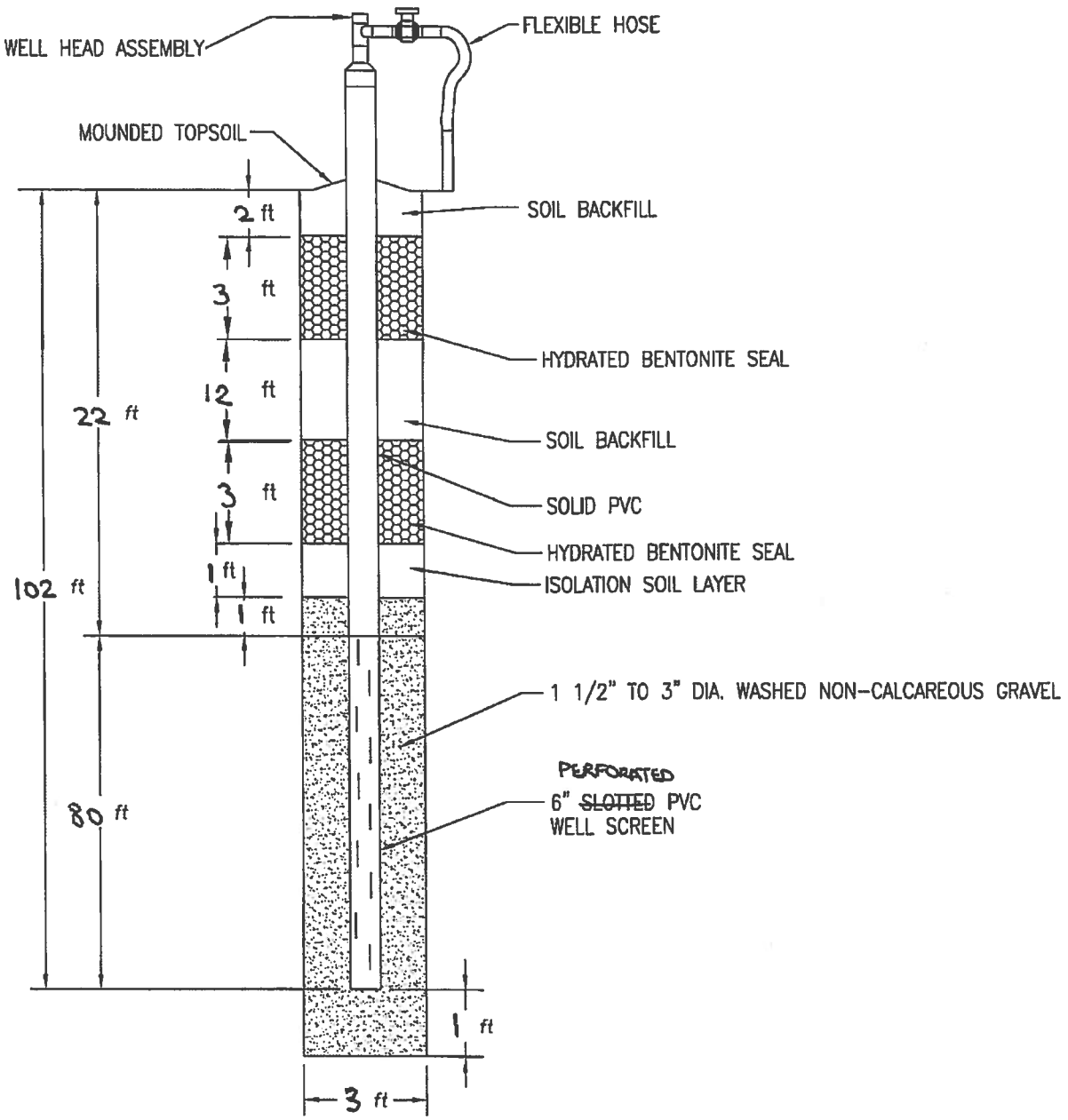
AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
141 Market Place Drive
Fairveiw Heights, Illinois 62208

GAS WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER: 2048.10
PROJECT NAME: GEW 23A & 27A CQA
GAS WELL NO.: 23A
WELL LOCATION: 25' NORTH OF GEW 23 MIDDLE OF SOUTHWEST SLOPE OF 2006 FINAL COVER
INSTALLATION START DATE: 10-2-06
COMPLETION DATE: 10-2-06
DRILLER: MITCH WILKENSON PDI
INSPECTOR: TERRY L. MUELLER

COMMENTS: SOUPY MATERIAL PAST 102 FOOT DEPTH.

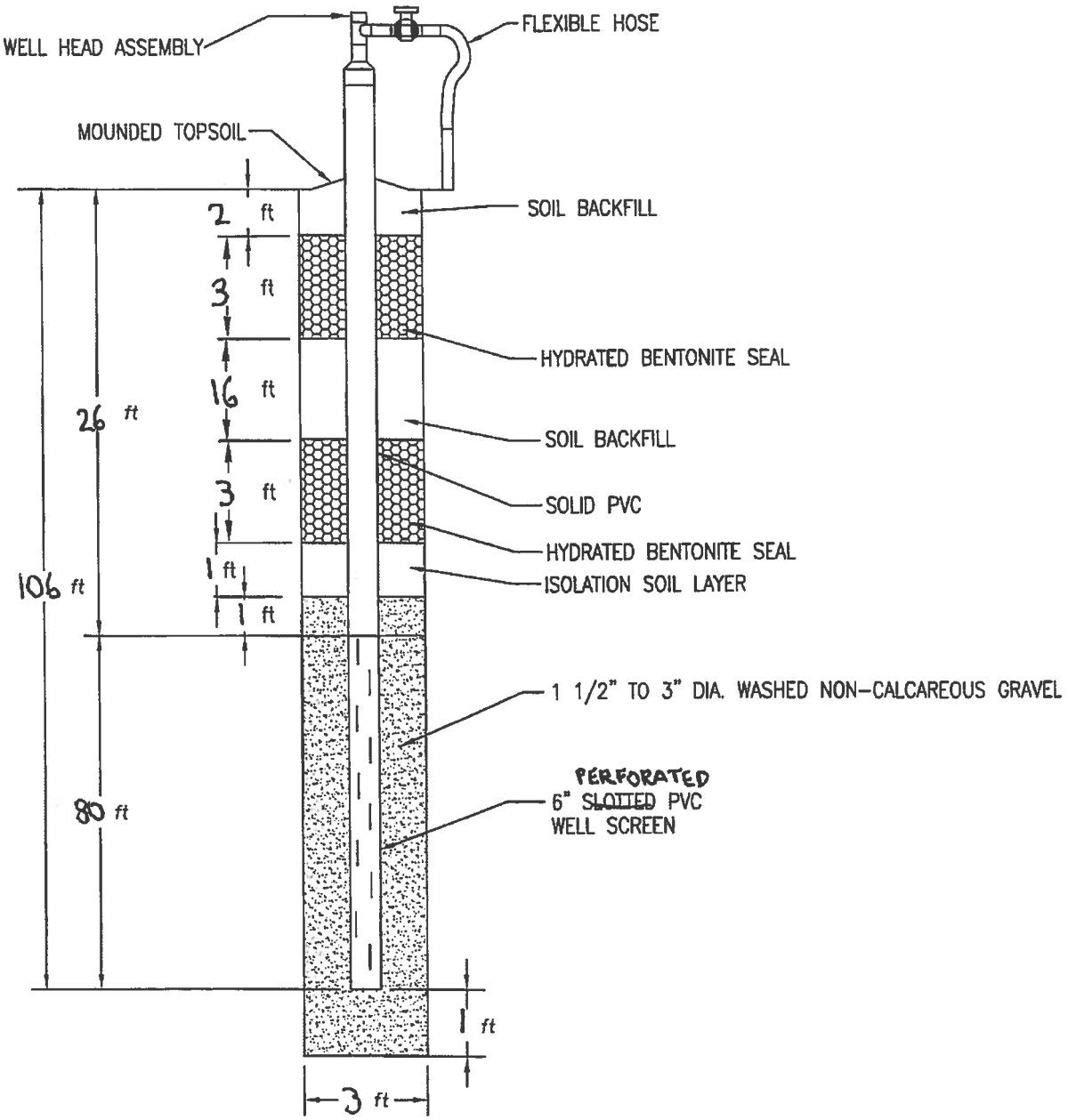


AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
141 Market Place Drive
Fairview Heights, Illinois 62208

GAS WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER: 2048.10
PROJECT NAME: GEW 23A & 27A CQA
GAS WELL NO.: 27A
WELL LOCATION: 25' WEST OF GEW 27 MIDDLE OF SOUTHEAST SLOPE OF 2006 FINAL COVER
INSTALLATION START DATE: 10-3-06
COMPLETION DATE: 10-3-06
DRILLER: MATCH WILKENSON PDI
INSPECTOR: TERRY L. MUELLER

COMMENTS: UNABLE TO PENETRATE PAST 107 FEET.

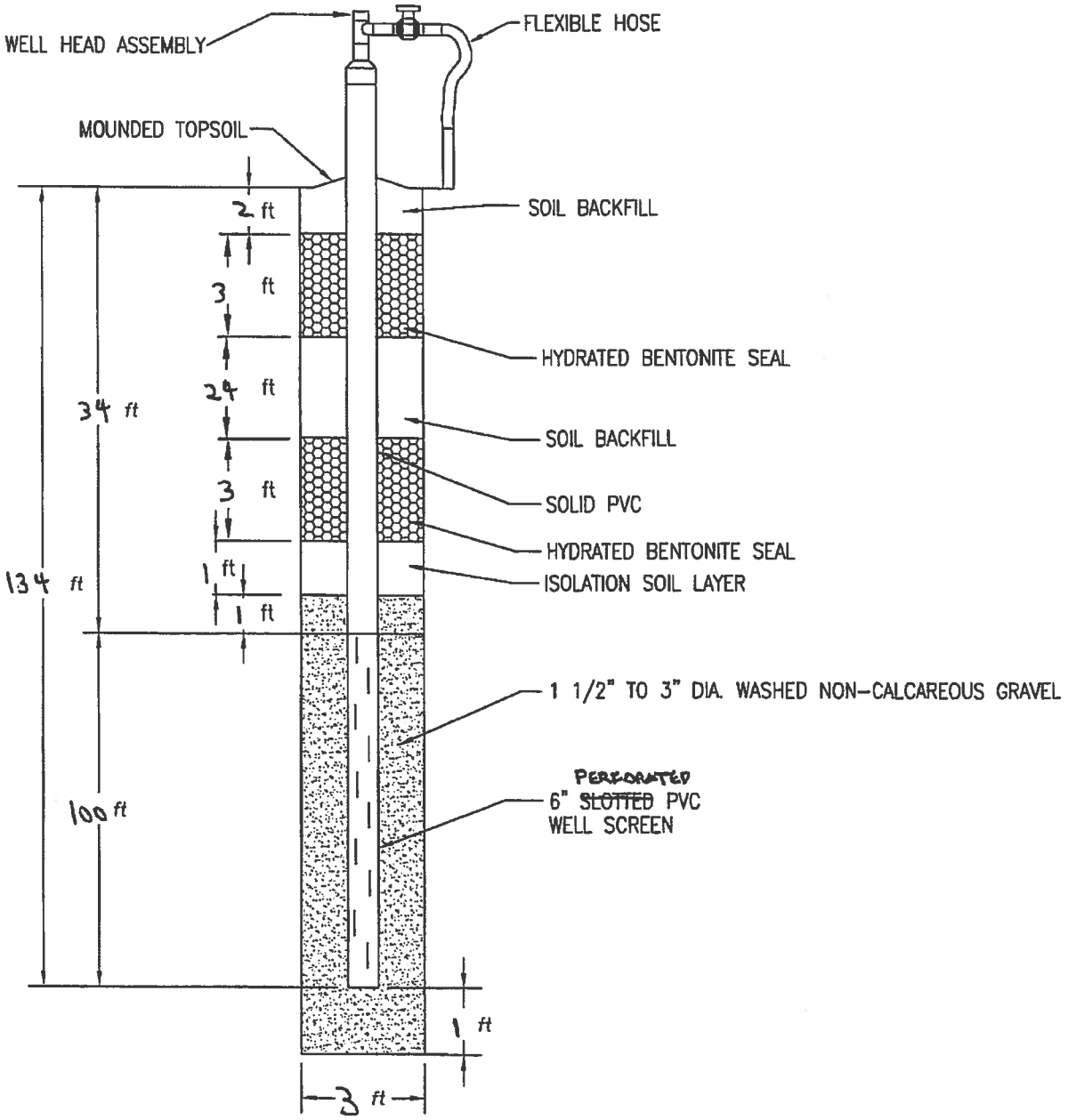


AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.
141 Market Place Drive
Fairveiw Heights, Illinois 62208

GAS WELL CONSTRUCTION DIAGRAM

PROJECT NUMBER: 2048.10
PROJECT NAME: GEW 23A & 27A CQA
GAS WELL NO.: 65 A
WELL LOCATION: TOP OF 2006 FINAL COVER - 35' NORTHEAST OF WELL 65
INSTALLATION START DATE: 10-4-06
COMPLETION DATE: 10-5-06
DRILLER: MITCH WILKERSON PDI
INSPECTOR: (TERRY L. MUELLER)

COMMENTS:



Aquaterra Drilling Log

HOLE NO.	SHEET 1 OF SHEETS
GEW-23A	2

PROJECT NAME: GEW 23A & 27A CQA	DRILLING SUBCONTRACTOR: PDI
PROJECT NUMBER: 2048.10	NAME OF DRILLER(S): MITCH WILKENSON
LOCATION: BRIDGETON, MISSOURI	MANUFACTURER'S DESIGNATION OF DRILL: WESTERN BORE 200 CRAWLER DRILL
HOLE LOCATION: 25' NORTH OF GEW 23 MIDDLE OF SOUTHWEST SLOPE OF 2006 FINAL COVER	SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 24" BUCKET; 2 OPERATORS FROM LANDMARK; 35" DIAMETER HOLE
SURFACE ELEVATION: 505 ±	
OVERBURDEN THICKNESS: 7' ±	DRILLING START DATE: 10-2-06 / DRILLING END DATE: 10-2-06
DEPTH DRILLED INTO ROCK: NO	DEPTH GROUNDWATER ENCOUNTERED: NO
TOTAL DEPTH OF HOLE: 103'	DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NO

GEOTECHNICAL SAMPLES (TOTAL)	DISTURBED	UNDISTURBED	TOTAL NUMBER OF CORE BOXES
—	—	—	—

SAMPLES FOR CHEMICAL ANALYSIS (TOTAL)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	TOTAL CORE RECOVERY
—	—	—	—	—	—	—

DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPEICFY)	SIGNATURE OF INSPECTOR
FILLED	GRAVEL, BENTONITE, SOIL	—	GAS WELL	TERRY L. MUELLER

DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE RESULTS	ANALYTICAL SAMPLE NO.	TIME	REMARKS
0	0+00				0900	
	CL	0+02	SOLID 6" PVC	SOIL		
		0+05		BENTONITE		
	0+07				0910	
10				SOIL		
		0+17		BENTONITE		
20		0+20		SOIL		
	WASTE	0+21		0+22		DRY
30						WASTE TEMPERATURE 75°-80°F
	0+38		GRAVEL / PERFORATED 6" PVC	GRAVEL	1000	
40	WASTE					
50	0+53				1100	
	WASTE					
60						

AQUATERRA
ENVIRONMENTAL SOLUTIONS, INC.

PROJECT NAME	HOLE NO.
GEW 23A & 27A CQA	GEW 23A

Aquaterra Drilling Log

HOLE NO. GEW-23A

SHEET 2 OF 2 SHEETS

PROJECT NAME: GEW 23A & 27A CQA

INSPECTOR: (TERRY L. MUELLER)

DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE RESULTS	ANALYTICAL SAMPLE NO.	TIME	REMARKS
60	WASTE					
	0+64				1200	
70	WASTE					
	0+76				1300	WASTE TEMPERATURE 95°-100°F
80	WASTE		GRAVEL / PERFORATED 6" PVC / GRAVEL			
	0+88				1400	DRY
90						0+92 DAMP
	WASTE					
						0+98 WET
	1+00				1500	
100	1+03 WASTE		1+02			
	Bottom				1515	1+03 SATURATED
						COULD NOT REMOVE ANY MORE AS IT WAS TOO SOUPY.
110	WASTE					
						NO ASBESTOS MATERIALS OBSERVED

AQUATERRA ENVIRONMENTAL SOLUTIONS, INC.

PROJECT NAME: GEW 23A & 27A CQA

HOLE NO. GEW-23A

Aquaterra Drilling Log

HOLE NO.	SHEET 1 OF	SHEETS
GEW-27A	2	

PROJECT NAME: GEW 23A & 27A CQA	DRILLING SUBCONTRACTOR: PDI
PROJECT NUMBER: 2048.10	NAME OF DRILLER(S): MITCH WILKENSON
LOCATION: BRIDGETON, MISSOURI	MANUFACTURER'S DESIGNATION OF DRILL: WESTERN BORE 200 CRAWLER DRILL
HOLE LOCATION: 25' WEST OF GEW27 MIDDLE OF SOUTHEST SLOPE OF 2006 FINAL COVER	SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 24" BUCKET; 2 OPERATORS FROM LANDMARK; 35" DIAMETER HOLE
SURFACE ELEVATION: 525 ±	
OVERBURDEN THICKNESS: 4'	DRILLING START DATE: 10-3-06; DRILLING END DATE: 10-3-06
DEPTH DRILLED INTO ROCK: NA	DEPTH GROUNDWATER ENCOUNTERED: NA
TOTAL DEPTH OF HOLE: 107'	DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NA

GEOTECHNICAL SAMPLES (TOTAL)	DISTURBED	UNDISTURBED	TOTAL NUMBER OF CORE BOXES
—	—	—	—

SAMPLES FOR CHEMICAL ANALYSIS (TOTAL)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	TOTAL CORE RECOVERY
—	—	—	—	—	—	—

DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPEICFY)	SIGNATURE OF INSPECTOR
FILLED	SOIL, GRAVEL BENTONITE	—	GAS WELL	TERRY L. MUELLER

DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE RESULTS	ANALYTICAL SAMPLE NO.	TIME	REMARKS
0	0+00				0800	
	CL 0+04	0+02	SOIL	SOIL		
		0+05		BENTONITE		
10			SOIL; 6" SOLID PVC; SOIL			
20	WASTE	0+21		BENTONITE		
		0+24, 0+25, 0+26		SOIL		DRY
30						
	0+36				0900	
40			GRAVEL; 6" PERFORATED PVC; GRAVEL			
	WASTE					WASTE TEMPERATURE 85°-90°F
50						
	0+54				1000	
	WASTE					
60						

AQUATERRA ENVIRONMENTAL SOLUTIONS, INC.

PROJECT NAME	HOLE NO.
GEW 23A & 27A CQA	GEW 27A

Aquaterra Drilling Log

HOLE NO. GEW 27A

SHEET 2 OF 2 SHEETS

PROJECT NAME: GEW 23A & 27A CQA

INSPECTOR: (TERRY L. MUELLER)

DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE RESULTS	ANALYTICAL SAMPLE NO.	TIME	REMARKS
60	WASTE					
	0+67				1100	
70	WASTE					↑ DRY ↓
	0+80				1200	
80	WASTE		GRAVEL 6" PERFORATED PVC GRAVEL			
	0+90				1300	
90	WASTE					WASTE TEMPERATURE 95°-100°F
	0+99				1400	1+00 —
100	WASTE					↑ MOIST ↓
	1+07	1+06 —			1500	
110	WASTE		UNABLE TO PENETRATE PAST 107'			
120						
130						NO ASBESTOS MATERIALS OBSERVED

AQUATERRA ENVIRONMENTAL SOLUTIONS, INC.

PROJECT NAME: GEW 23A & 27A CQA

HOLE NO.: GEW - 27A

Aquaterra Drilling Log

HOLE NO.	SHEET 1 OF 2 SHEETS
GEW 65A	

PROJECT NAME: GEW 23A & 27A CQA	DRILLING SUBCONTRACTOR: PDI
PROJECT NUMBER: 2048.10	NAME OF DRILLER(S): MITCH WILKENSON
LOCATION: BRIDGETON, MISSOURI	MANUFACTURER'S DESIGNATION OF DRILL: WESTERN BOGE 200 CRAWLER DRILL
HOLE LOCATION: 35' NORTHEAST OF GEW 65 ON TOP OF 2006 FINAL COVER LINE	SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 24" BUCKET; 2 OPERATORS FROM LAMBERT; 35" DIAMETER HOLE
SURFACE ELEVATION: 572±	
OVERBURDEN THICKNESS: 5'±	DRILLING START DATE: 10-4-06; DRILLING END DATE: 10-5-06
DEPTH DRILLED INTO ROCK: NO	DEPTH GROUNDWATER ENCOUNTERED: NO
TOTAL DEPTH OF HOLE: 135	DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: NO

GEOTECHNICAL SAMPLES (TOTAL)	DISTURBED	UNDISTURBED	TOTAL NUMBER OF CORE BOXES
–	–	–	–

SAMPLES FOR CHEMICAL ANALYSIS (TOTAL)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	(SPECIFY)	TOTAL CORE RECOVERY
–	–	–	–	–	–	–

DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	SIGNATURE OF INSPECTOR
FILLED	SOIL, GRAVEL BENTONITE	–	GAS WELL	TERRY L. MUELLER

DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE RESULTS	ANALYTICAL SAMPLE NO.	TIME	REMARKS
0	0+00				1100	
	CH	0+02		SOIL		
	0+05	0+05		BENTONITE		
10						
20	WASTE		SOIL; 6" SOLID PVC; SOIL			DRY
30	0+32	0+29		BENTONITE	1200	
		0+32		SOIL		
		0+33				
		0+34				
40	WASTE					WASTE TEMPERATURE 75°-80°F
	0+47				1300	
50	WASTE		GRAVEL; 6" PERFORATED PVC; GRAVEL			
	0+59				1400	
60						

AQUATERRA ENVIRONMENTAL SOLUTIONS, INC.

PROJECT NAME	HOLE NO.
GEW 23A & 27A CQA	GEW 65A

Aquaterra Drilling Log

HOLE NO. GEW-65A | SHEET 2 OF SHEETS 2

PROJECT NAME: GEW 23A & 27A CQA

INSPECTOR: (TERRY L. MUELLER)

DEPTH	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE RESULTS	ANALYTICAL SAMPLE NO.	TIME	REMARKS
60						
	WASTE					
70						
	0+74				1500	
80						↑ DRY ↓
	WASTE					
	0+87				1600	
90						
	WASTE					
	0+95				1700	
	WASTE		GRAVEL 6" PERFORATED GRAVEL			
100						
	1+02				1800 10-4-06 ↑ 0700 10-5-06 ↓	WASTE TEMPERATURE 105°-110°
	WASTE					
110						↑
	1+11				0800	
						MOIST
	WASTE					↓
120	1+20				0900	WASTE TEMPERATURE 130°F
	WASTE 1+23				1000	CONCRETE CHUNKS REMOVED
	WASTE 1+26				1100	
	WASTE 1+30				1200	NEWSPAPER & MAGAZINES FOUND FROM JANUARY 2000
130						
	WASTE	134				
	1+35	135			1300	WASTE TEMPERATURE 130°F
140						
						NO ASBESTOS MATERIAL OBSERVED
150						

AQUATERRA ENVIRONMENTAL SOLUTIONS, INC.

PROJECT NAME: GEW 23A & 27A CQA

HOLE NO. GEW 65A