STATUS REPORT
JANUARY 2014 SAMPLING EVENT
FF/NN LANDFILL NPL SITE
Ripon, Wisconsin

Prepared for:

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February 10, 2014

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1. SITE INFORMATION AND CONTACTS

CONTRACT SF-92-01

SITE NAME/ACTIVITY:

FF/NN Landfill NPL Site
Ripon, Wisconsin
Groundwater Monitoring and Corrective Action

WDNR File Ref. No.: 02-20-000915

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DATE:
February 10, 2014

2. FIELD ACTIVITIES THIS REPORTING PERIOD

Monitoring was conducted in accordance with the revised groundwater monitoring program as outlined in the April 18, 2013 conditional approval letter from WDNR.

- Groundwater elevations were measured at 10 monitoring wells by Tetra Tech in January 2014. Water levels in Layer 4 wells were measured consecutively to avoid any effects from municipal pumping.

- A total of 10 monitoring wells were sampled for VOCs by Tetra Tech during the January 2014 event. One duplicate sample was collected for quality control.

- Jack Wendler from the City of Ripon conducted biweekly landfill gas monitoring of the extraction system vents and wells for this quarterly report.

3. RESULTS OF FIELD ACTIVITIES

3.1. Groundwater Monitoring Event - Monitoring Well Sampling

The revised groundwater monitoring program as outlined in the April 18, 2013 conditional approval letter from WDNR was followed for this sampling event. The groundwater samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. Analytical results and field forms are provided in Attachments B and C, respectively. The VOC analytical results for the monitoring wells are tabulated in Table 2. The temporal trends of chlorinated compound concentrations in wells sampled during this event are provided in attached Charts.

Natural attenuation parameters were taken on selected wells during the January 2014 sampling event. The DO and ORP along with temperature, pH and conductivity were measured using a QED MP20 MicroPurge Flow Cell Meter. The iron II was measured in the field using CHEMetrics analyte-specific Vacu-vials® for photometric analysis using a CHEMetrics Model V-2000 LED photometer.

The following sections present a summary of the January 2014 VOC analytical results as they relate to groundwater standards for each well that was sampled. To better track impacts at various depths, the results are organized according to the four stratigraphic groupings of wells discussed previously.

3.1.1. Layer 1 Wells

- No Layer 1 wells were sampled in January 2014.

3.1.2. Layer 2 Wells

- No Layer 2 wells were sampled in January 2014.

3.1.3. Layer 3 Wells

- P-103D: No detection of any VOC. VC has not been detected in this well since April 2012.
- P-111D (Chart 54): VC exceeded its ES at 6.9 ug/L. 1,2-DCE (1.5 ug/L) and chloroethane (2.1 ug/L) were detected at concentrations below NR 140 standards. The results are similar to past results since 2007.
- MW-3B: No detection of any VOC. VC has not been detected in this well since May 2008.
- P-113B: No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2002.
- P-114 (Chart 57): VC exceeded its ES at 8.2 ug/L (8.8 ug/L duplicate). 1,2-DCE (1.3 ug/L, 1.3 ug/L duplicate) was detected at concentrations below NR 140 standards. The results are similar to past results.
- P-115 (Chart 58): VC exceeded its ES with a concentration of 1.5 ug/L. This result is similar to past results.

- P-116: No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2001.

3.1.4. Layer 4 Wells

- MW-3A: No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2002.
- P-107D (Chart 61): VC exceeded its ES with a concentration of 2.9 ug/L. This result is similar to past results.
- P-113A: No detection of any VOC. TCE, 1,2-DCE and VC have never been detected in this well since it was installed in 2002.

3.1.5. Natural Attenuation Parameters

Because VC is the sole remaining contaminant of concern exceeding NR 140 standards and because VC reduction is most commonly an aerobic process via direct oxidation, MNA parameters that can demonstrate oxidative conditions were taken. Based on EPA (1998) guidance, iron II was taken as indirect evidence of natural attenuation. The results of the MNA sampling are shown on Table 3 and continue to indicate that the aquifer is marginally aerobic.

3.2. Groundwater Monitoring Event - Private Well Sampling

Historically, seven private wells have been sampled. Four of these wells (Altnau, Hadel, Miller and Wiese) have either been abandoned or converted to monitoring wells. The remaining three wells (Baneck/Perry/Watkins, Gaastra and Rohde) are only sampled annually in April.

3.3. Landfill Cap Inspection

A full landfill cap inspection took place during the April annual sampling event, which proved the landfill cap to be in good condition.

3.4. Interim LF Gas Extraction System Performance Monitoring

Results of the gas monitoring are presented in Table 6.

Current extraction is from shallow vent GV-6 and the three deep leachate wells (LC-1, LC-2 and LC-3). The other vents have remained closed to prevent oxygen levels from increasing above 5%. There were a few modifications to the system during this monitoring period based on the oxygen levels observed in the landfill:

- 11/19/2013 – Run time increased to 1 hour on/23 hours off
- 12/2/2013 – Run time decreased to 0.75 hours on/23.25 hours off
- 12/16/2013 – Run time decreased to 0.3 hours on/23.7 hours off
- 12/27/2013 – Run time decreased to 0.25 hours on/23.75 hours off
- 1/13/2014 – Run time increased to 1 hour on/23 hours off
- 1/30/2014 – Run time increased to 2 hours on /22 hours off

There were no gas samples collected during this sampling event per the changes in the monitoring plan dated April 18, 2013.

Monitoring of the gas probes and wells outside the limits of fill indicate that the gas extraction system has controlled gas migration from the fill area since its startup in March 2006. Gas concentrations in all exterior wells and gas probes have been consistently below the methane LEL (5.0%).

1. UPCOMING ACTIVITIES PLANNED

- Annual groundwater sampling and water level measurements will be conducted in April 2014 in accordance with the monitoring programed outlined in the April 18, 2013 conditional approval letter from WDNR.

- Jack Wendler from the City of Ripon will conduct biweekly landfill gas monitoring of the extraction system vents and wells and will collect gas samples for VOC analysis in April 2014.

2. PERSONNEL

Mr. Michael Noel is the Project Manager and Principal Hydrogeologist. Ms. Ashley Weimer is the Project Geologist who oversaw the field activities. The laboratory analyses for October 2013 groundwater samples were completed by Pace Analytical Services, Inc. in Green Bay, Wisconsin. The laboratory analyses for the air samples were completed by Pace Analytical Services, Inc. located in Minneapolis, Minnesota.

TABLES

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Jun-93	Oct-93	Apr-94	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Oct-99	May-00
MW-101	884.80	826.56	824.20	824.04	823.41	824.34			822.08	823.17	
P-101	885.26	826.52	824.24	824.02	823.38	824.33	823.00	820.24	822.04	823.16	822.73
MW-102	843.05	826.83	825.35	824.29	823.57	824.67	823.26			823.52	823.17
P-102	842.99	826.89	824.40	824.35	823.64	824.75	823.38	820.77	822.47	823.63	823.25
MW-103	872.42	823.08	821.77	819.49	820.56			819.22			
P-103	872.92	826.29	826.88	823.88	817.43	824.16	822.89	820.25	821.96	823.11	822.70
P-103D	873.08	(Installed December 2003)									
MW-104	875.15	826.32	824.12	824.02	823.14	824.13		820.13	823.87		
P-104	875.48	826.47	824.25	824.12	823.26	824.24	822.92	820.25	822.06	823.18	822.70
MW-106	878.90	826.67	824.21	824.24	820.96	824.61	823.23		822.42	823.45	823.10
P-106	878.91	826.63	824.09	824.07	823.42	824.51	823.16	820.40	822.33	823.38	823.02
MW-107	871.78	821.02	820.52	818.76	819.17	819.22		817.04	818.70	819.68	
P-107	871.38	820.86	820.37	818.78	819.07	819.24	818.38	817.14	818.72	819.71	818.62
P-107D	871.98			819.13	817.47	819.52	818.29	816.77	817.56	817.78	817.34
MW-108	845.25		819.00	817.85	818.17	818.31				818.48	817.49
P-108	845.61		822.03	821.09	821.29	821.52	820.55	818.77	820.25	821.18	820.25
MW-111	856.46			817.58	817.93	818.10	817.29	816.29	817.33	818.30	817.28
P-111	856.13			817.09	817.43	817.60	816.78	815.75	816.85	817.83	816.79
P-111D	855.79	(Installed April 2002)									
MW-112	874.55				819.46	819.92	819.02		819.15	820.02	819.20
P-113A	833.09	(Installed September 2002)									
P-113B	833.10	(Installed September 2002)									
P-114	839.35	(Private well converted to monitoring well in 2003)									
P-115	842.71	(Private well converted to monitoring well in 2004)									
P-116	845.34	(Private well converted to monitoring well in 2004)									
MW-3A	850.77	(Water levels taken beginning February 2002)									
MW-3B	851.04	(Water levels taken beginning February 2002)									
LC1	876.15				849.02	847.87	846.99	846.82	846.56		846.27
LC2	866.05				847.25	842.91	841.20	840.61	838.31	839.29	839.17
LC3	877.34					845.69					845.82

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
NT - Not taken, only measured deep wells
NM - Well not measured

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Oct-00	May-01	Oct-01	Feb-02	May-02	Aug-02	Oct-02	Dec-02	Apr-03	Oct-03
MW-101	884.80		823.13	824.17	823.18	DRY	DRY	NT	DRY	DRY	821.24
P-101	885.26	822.66	823.06	824.16	823.19	800.47	814.42	NT	818.91	820.46	821.16
MW-102	843.05	823.19		824.38	823.53	818.93	DRY	NT	DRY	820.95	821.57
P-102	842.99		823.39	824.49	823.69	799.84	814.94	NT	819.47	821.08	821.66
MW-103	872.42			821.63	>51.32	819.28	819.34	NT	DRY	DRY	819.61
P-103	872.92	822.60	823.02	823.87	823.00	801.70	814.74	NT	819.01	820.52	821.12
P-103D	873.08										
MW-104	875.15			823.88	>51.28	DRY	DRY	NT	DRY	820.37	820.85
P-104	875.48	822.64	823.10	824.03	823.12	802.51	814.82	NT	819.05	820.50	821.43
MW-106	878.90	822.96	823.34	Dry	823.50	DRY	DRY	NT	DRY	DRY	821.58
P-106	878.91	822.89	823.26	824.25	823.39	800.31	814.52	NT	819.18	820.80	821.49
MW-107	871.78		819.36	820.12	>52.5	816.72	DRY	DRY	DRY	817.73	818.35
P-107	871.38	818.62	819.35	820.12	818.86	809.86	813.29	NT	816.65	817.74	818.39
P-107D	871.98	818.10	819.04	816.61	817.70	811.80	815.35	816.43	816.68	817.26	816.72
MW-108	845.25		818.32	818.62	>27.7	815.44	815.45	NT	815.79	816.20	816.68
P-108	845.61	820.45	820.97	822.08	820.66	811.84	815.19	NT	817.83	818.57	819.26
MW-111	856.46	817.32	818.15	818.74	817.51	813.43	813.59	NT	815.42	816.14	816.71
P-111	856.13	816.83	817.68	818.26	817.04	812.54	812.90	NT	814.90	815.68	816.27
P-111D	855.79					807.70	815.16	816.73	816.22	818.17	817.95
MW-112	874.55	819.21	819.87	820.52	822.87	814.38	814.47	NT	816.75	817.87	818.54
P-113A	833.09							816.09	816.39	816.93	816.20
P-113B	833.10							816.68	816.93	817.25	816.58
P-114	839.35									817.17	816.93
P-115	842.71										
P-116	845.34										
MW-3A	850.77				817.24	810.74	815.18	816.11	815.99	816.63	815.67
MW-3B	851.04				819.32	807.37	815.34	817.07	817.54	818.31	817.92
LC1	876.15		846.30	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM
LC2	866.05	839.28	839.03	838.92	838.97	838.83	838.98	NT	838.75	839.17	NM
LC3	877.34		845.80	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
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Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Feb-04	Apr-04	Jul-04	Oct-04	Jan-05	Apr-05	Jul-05	Oct-05	Jan-06	Mar-06
MW-101	884.80	NM	822.87	825.76	823.36	822.85	823.27	821.11	DRY	820.81	NM
P-101	885.26	NM	822.86	825.76	823.35	822.84	823.26	821.07	820.23	820.75	NM
MW-102	843.05	NM	823.34	826.08	823.71	823.34	823.66	821.70	820.65	821.33	NM
P-102	842.99	NM	823.42	826.17	823.79	823.38	823.75	821.48	820.72	821.41	NM
MW-103	872.42	NM	821.06	824.54	822.24	820.52	821.60	819.70	819.25	819.24	NM
P-103	872.92	NM	822.77	825.58	823.23	822.78	823.14	821.09	820.26	820.92	NM
P-103D	873.08	820.64	821.89	824.39	822.21	821.89	822.08	820.26	819.23	820.24	NM
MW-104	875.15	NM	822.75	825.49	823.27	822.75	823.16	821.09	820.34	820.65	NM
P-104	875.48	NM	822.82	825.61	823.36	822.82	823.21	821.20	820.40	820.79	NM
MW-106	878.90	NM	823.25	826.07	823.60	823.20	823.61	821.42	DRY	821.24	NM
P-106	878.91	NM	823.17	825.99	823.50	823.10	823.54	821.31	820.50	821.16	NM
MW-107	871.78	NM	819.63	823.41	821.20	819.89	820.18	818.69	817.85	817.81	NM
P-107	871.38	NM	819.71	823.34	821.20	820.91	820.20	818.72	817.84	817.80	NM
P-107D	871.98	NM	818.68	819.78	817.72	817.65	818.77	815.90	814.85	816.33	816.45
MW-108	845.25	NM	817.86	820.27	819.00	818.17	818.41	816.95	816.27	816.31	NM
P-108	845.61	NM	820.52	823.39	821.94	820.84	821.05	819.76	819.13	819.04	NM
MW-111	856.46	NM	818.03	821.40	819.60	817.39	818.69	817.32	816.51	816.31	NM
P-111	856.13	NM	817.59	821.01	819.16	816.92	818.19	816.82	816.03	815.84	NM
P-111D	855.79	NM	819.55	821.82	819.77	819.55	819.55	818.11	817.37	818.40	NM
MW-112	874.55	NM	819.89	823.17	821.14	820.15	820.50	818.82	818.14	818.31	NM
P-113A	833.09	NM	817.91	818.17	817.32	817.28	818.35	815.50	814.36	816.40	816.04
P-113B	833.10	816.61	818.30	820.16	818.25	818.13	818.36	816.74	815.47	816.90	NM
P-114	839.35	NM	818.55	820.44	818.71	818.50	818.76	817.02	816.34	817.28	NM
P-115	842.71	NM	818.61	820.51	818.71	818.55	818.62	817.05	816.05	817.44	NM
P-116	845.34	NM	817.54	819.31	817.80	817.47	817.74	816.45	815.48	816.02	NM
MW-3A	850.77	NM	818.03	819.73	817.00	817.15	816.84	816.05	814.87	817.98	815.81
MW-3B	851.04	NM	819.79	822.01	819.66	819.60	819.45	818.44	817.28	819.15	NM
LC1	876.15	NM	846.45	NM	DRY	DRY	846.39	DRY	NM	NM	NM
LC2	866.05	NM	839.27	NM	838.89	DRY	839.05	838.89	838.91	839.01	NM
LC3	877.34	NM	DRY	NM	DRY	DRY	DRY	DRY	NM	NM	NM

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
NT - Not taken, only measured deep wells
NM - Well not measured

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Apr-06	Jul-06	Oct-06	Jan-07	May-07	Aug-07	Oct-07	Jan-08	May-08
MW-101	884.80	821.41	821.29	820.71	821.43	822.37	822.22	822.74	822.47	824.5
P-101	885.26	821.37	821.22	820.69	821.34	822.32	822.18	822.68	822.43	824.49
MW-102	843.05	821.91	821.75	821.15	821.73	822.85	822.55	822.95	822.95	824.9
P-102	842.99	822.06	821.80	821.25	821.82	822.90	822.63	823.01	823.03	824.95
MW-103	872.42	819.36	819.82	818.82	819.47	820.39	820.45	820.78	820.46	822.13
P-103	872.92	821.42	821.33	820.70	821.39	822.31	822.17	822.63	822.86	824.39
P-103D	873.08	820.54	820.43	819.88	820.52	821.56	821.495	822.015	821.935	823.885
MW-104	875.15	821.35	821.16	820.61	821.11	822.17	822.06	822.56	822.25	824.26
P-104	875.48	821.45	821.33	820.76	821.29	822.29	822.27	822.75	822.44	824.45
MW-106	878.90	821.85	821.77	821.10	821.78	822.78	822.51	822.76	822.84	824.77
P-106	878.91	821.72	821.67	820.99	821.62	822.71	822.44	822.7	822.75	824.7
MW-107	871.78	818.03	DRY	817.90	818.29	818.87	818.97	819.12	818.88	820.34
P-107	871.38	818.19	818.59	817.89	818.23	818.88	819.01	819.08	818.91	820.27
P-107D	871.98	816.89	816.83	816.24	817.05	818.27	818.79	819.93	820.32	822.9
MW-108	845.25	816.70	816.88	816.39	816.64	817.39	817.96	817.99	817.5	819.15
P-108	845.61	819.40	819.65	819.41	819.40	820.14	821.45	821.33	820.44	822.15
MW-111	856.46	816.74	817.14	816.58	816.72	817.40	817.44	817.51	NT	818.85
P-111	856.13	816.24	816.74	816.09	816.23	816.92	816.95	817.01	816.85	818.4
P-111D	855.79	818.62	818.54	818.26	818.48	819.84	819.44	819.92	820.14	822.09
MW-112	874.55	818.66	818.88	818.20	818.52	819.24	819.39	819.73	819.41	820.97
P-113A	833.09	816.39	816.54	815.81	817.29	817.78	818.13	819.42	819.91	822.4
P-113B	833.10	817.01	817.57	816.81	816.70	818.11	818.26	819.09	819.35	821.36
P-114	839.35	817.38	817.36	816.86	817.36	818.48	818.14	818.61	819	820.91
P-115	842.71	817.56	817.50	817.12	817.62	818.72	818.375	818.815	819.185	821.095
P-116	845.34	816.48	816.34	816.00	816.38	817.47	816.905	817.475	817.755	819.425
MW-3A	850.77	816.29	817.51	816.34	817.49	817.68	819.68	820.7	821.15	823.53
MW-3B	851.04	818.86	819.18	818.27	818.88	819.62	820.24	820.88	821.08	823.09
LC1	876.15	843.40	847.60	847.66	NM	846.41	NM	NM	NM	845.89
LC2	866.05	839.47	839.52	838.45	NM	838.63	NM	NM	NM	837.81
LC3	877.34	845.89	845.87	844.68	NM	846.12	NM	NM	NM	845.28

Notes: Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
NT - Not taken, only measured deep wells
NM - Well not measured

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Jul-08	Sep-08	Oct-08	Jan-09	Apr-09	Jul-09	Oct-09	Feb-10
MW-101	884.80	825.1	822.61	822.63	822.93	824.08	823.61	822.68	822.2
P-101	885.26	825.07	822.56	822.59	822.91	824.05	823.6	822.63	822.17
MW-102	843.05	825.36	822.77	822.83	823.4	824.49	823.85	822.99	822.65
P-102	842.99	825.34	822.74	822.81	823.5	824.57	824.11	823.05	822.76
MW-103	872.42	823.95	822.05	821.92	821.19	821.99	821.72	820.83	820.27
P-103	872.92	825.02	822.57	822.66	822.97	824.06	823.59	822.62	822.24
P-103D	873.08	824.425	822.145	822.265	822.475	823.545	822.905	822.055	821.705
MW-104	875.15	824.9	822.54	822.55	822.82	823.92	823.47	822.53	822.06
P-104	875.48	825.12	822.78	822.74	822.98	824.06	823.64	822.68	822.22
MW-106	878.90	824.98	822.7	822.75	823.31	824.41	823.94	822.96	822.61
P-106	878.91	825.25	822.63	822.64	823.25	824.37	823.9	822.85	822.54
MW-107	871.78	823.81	821.16	821.04	819.71	820.34	820.25	819.37	818.81
P-107	871.38	823.72	821.1	821.09	819.4	820.34	820.26	819.34	818.48
P-107D	871.98	823.25	820.9	820.87	820.81	822.24	820.61	819.98	819.88
MW-108	845.25	820.42	819.28	819.23	818.16	818.87	818.58	817.93	817.28
P-108	845.61	823.57	822.14	822.05	820.87	821.67	821.73	821.06	820.08
MW-111	856.46	821.08	819.77	819.75	818.21	818.88	818.71	817.87	817.29
P-111	856.13	820.72	819.35	819.23	817.77	818.41	818.3	817.43	816.86
P-111D	855.79	822.61	820.74	820.79	820.65	821.71	820.85	820.15	819.91
MW-112	874.55	822.76	821.08	820.99	820.08	820.83	820.62	819.76	819.24
P-113A	833.09	822.8	820.45	820.53	820.34	821.81	820.1	819.4	819.57
P-113B	833.10	821.79	820.09	820.1	819.84	820.96	819.81	819.24	819.15
P-114	839.35	821.45	819.79	819.83	819.5	820.51	819.6	818.99	818.75
P-115	842.71	821.635	819.965	819.975	819.655	820.725	819.805	819.145	818.935
P-116	845.34	820.385	816.805	818.705	818.375	819.155	818.465	817.755	817.565
MW-3A	850.77	823.87	821.57	821.62	821.62	822.96	821.46	820.87	820.85
MW-3B	851.04	823.53	821.48	821.5	821.51	822.66	821.74	821.06	820.84
LC1	876.15	NM	NM	NM	NM	NM	NM	NM	NM
LC2	866.05	NM	NM	NM	NM	NM	NM	NM	NM
LC3	877.34	NM	NM	NM	NM	NM	NM	NM	NM

Notes:
Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
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NM - Well not measured

Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	May-10	Sep-10	Jan-11	Mar-11	Apr-11	Jul-11	Oct-11	Jan-12
MW-101	884.80	823.43	823.29	822.19	NM	823.66	824.41	822.45	822.93
P-101	885.26	823.37	823.25	822.14	NM	823.6	824.38	822.37	822.87
MW-102	843.05	823.77	823.66	822.66	NM	824.1	824.73	822.67	823.36
P-102	842.99	823.8	823.71	822.74	NM	824.16	824.79	822.67	823.44
MW-103	872.42	821.25	821.32	820.29	NM	821.34	822.45	821.14	820.97
P-103	872.92	823.34	823.19	822.26	NM	823.6	824.28	822.34	822.91
P-103D	873.08	822.575	822.35	821.81	821.96	822.88	823.26	821.64	822.04
MW-104	875.15	823.25	823.12	822.1	NM	823.47	824.19	822.32	822.82
P-104	875.48	823.41	823.3	822.26	NM	823.62	824.37	822.53	822.93
MW-106	878.90	823.72	823.6	822.57	NM	824.02	824.68	822.58	823.33
P-106	878.91	823.64	823.52	822.52	NM	823.94	824.6	822.48	823.24
MW-107	871.78	819.59	819.85	818.83	NM	819.76	821.04	820.04	819.96
P-107	871.38	819.62	819.82	818.98	NM	819.73	821.02	820.02	819.15
P-107D	871.98	819.68	818.85	820.47	819.05	820.29	819.73	818.74	819.38
MW-108	845.25	818.27	818.39	817.44	NM	818.51	819.21	818.48	818.11
P-108	845.61	821.53	821.66	820.25	NM	821.32	822.51	821.45	820.86
MW-111	856.46	818.07	818.3	817.39	NM	818.37	819.45	818.64	818.12
P-111	856.13	817.61	817.88	816.96	NM	817.89	819.01	818.18	817.68
P-111D	855.79	820.41	820.16	817.15	820.05	820.83	820.9	819.92	820.33
MW-112	874.55	820.13	820.24	819.33	NM	820.23	821.36	820.2	819.91
P-113A	833.09	819.09	818.24	820.05	818.53	819.67	818.78	818.34	818.72
P-113B	833.10	819.27	818.88	819.45	818.97	819.64	819.34	819.04	818.87
P-114	839.35	819.12	819	819.09	818.85	819.75	819.67	819	819.16
P-115	842.71	819.205	819.13	819.265	819.005	819.855	819.745	819.145	819.265
P-116	845.34	818.055	817.85	817.895	817.755	818.845	818.605	817.985	818.125
MW-3A	850.77	819.92	818.91	821.26	819	819.85	819.18	819.74	819.6
MW-3B	851.04	821	820.59	821.04	820.35	821.18	821.1	820.65	820.78
LC1	876.15	843.73	NM	NM	NM	843.14	NM	NM	NM
LC2	866.05	838.96	NM	NM	NM	838.4	NM	NM	NM
LC3	877.34	845.67	NM	NM	NM	845.22	NM	NM	NM

Notes:
Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
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Table 1 - Groundwater Elevations
FF/NN Landfill
Ripon, WI

Well Name	TOC Elevation	Apr-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13	Oct-13	NM
MW-101	884.80	823.33	823.56	821.86	821.99	823.89	NM	NM	NM
P-101	885.26	823.29	823.5	821.82	821.92	823.88	NM	NM	NM
MW-102	843.05	823.8	823.89	822.3	822.43	824.38	NM	NM	NM
P-102	842.99	823.86	823.96	822.41	822.52	824.45	NM	NM	NM
MW-103	872.42	821.24	821.9	820.21	820.09	821.5	NM	819.91	NM
P-103	872.92	823.32	823.48	821.9	822.02	823.88	NM	821.35	NM
P-103D	873.08	822.47	822.43	821.085	821.275	823.135	823.24	820.63	820.85
MW-104	875.15	823.22	823.4	821.79	821.87	823.76	NM	NM	NM
P-104	875.48	823.22	823.57	821.96	822.02	823.87	NM	NM	NM
MW-106	878.90	823.73	823.87	822.27	822.43	824.3	NM	NM	NM
P-106	878.91	823.64	825.8	822.18	822.33	824.21	NM	NM	NM
MW-107	871.78	819.77	820.68	818.98	818.73	819.87	NM	NM	NM
P-107	871.38	819.76	820.7	819	818.71	819.88	NM	NM	NM
P-107D	871.98	819.42	818.1	817.78	818.02	820.41	820.56	817.57	817.80
MW-108	845.25	818.28	818.74	817.63	817.27	818.74	NM	NM	NM
P-108	845.61	821.01	822.09	820.82	820.02	821.52	NM	NM	NM
MW-111	856.46	818.32	819.09	817.61	817.25	818.52	NM	NM	NM
P-111	856.13	817.87	818.67	817.16	816.81	818.07	NM	NM	NM
P-111D	855.79	820.28	820	819.01	819.29	821.07	820.97	818.61	818.85
MW-112	874.55	820.15	820.8	819.27	819.15	820.39	NM	819.07	NM
P-113A	833.09	818.51	817.23	817.23	817.5	819.83	819.92	816.76	817.32
P-113B	833.10	818.71	818.39	817.96	817.92	820.89	820.02	817.31	817.97
P-114	839.35	819.06	818.46	818.03	818.27	819.94	820.05	816.57	817.93
P-115	842.71	819.075	818.805	818.105	818.335	820.025	820.205	817.635	817.89
P-116	845.34	818.125	817.575	817.115	817.395	818.855	818.825	816.755	816.92
MW-3A	850.77	818.41	818.23	817.6	817.98	820.07	820.25	816.62	817.81
MW-3B	851.04	820.27	820.35	819.28	819.48	821.49	821.48	818.59	819.24
LC1	876.15	843.21	NM	NM	NM	843.36	NM	NM	NM
LC2	866.05	837.87	NM	NM	NM	838.51	NM	NM	NM
LC3	877.34	845.63	NM	NM	NM	845.52	NM	NM	NM

Notes:
Blank cells indicate that the water level was below top of pump; unable to measure.
Measurements are in Feet Above Mean Sea Level (msl)
">" indicates depth to top of pump (water level was beneath pump)
NT - Not taken, only measured deep wells
NM - Well not measured

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-3A	04/04/2002	NR			NA																						
	05/22/2002	NR			NA																						
	08/20/02	NR																									
	12/05/02	NR																									
	04/22/03																										
	10/22/03																										
	05/11/04																										
	10/14/04																										
	01/27/05																										
	04/26/2005																										
	08/02/05																										
	10/26/05																										
	01/31/2006																										
	04/24/06																										
	07/27/06								0.35 J																		
	10/31/06																										
	01/31/07																										
	5/1/2007																										
	8/8/2007																										
	10/19/2007																										
	5/6/2008																										
	10/1/2008																										
	4/7/2009																		0.56J								
	10/28/2009																										
	5/24/2010																										
	10/5/2010																		0.49J								
	1/24/2011																										
	4/13/2011																										
	7/12/2011																		0.63J								
	10/19/2011								0.66J																		
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										
	7/2/2013																										
	10/24/2013																										
	1/9/2014																										
MW-3B	04/04/2002	NR			NA																		0.38			0.31	
	05/22/2002	NR			NA																	NA					
	8/20/2002	NR																				NA					
	12/5/2002	NR																									
	4/22/2003																										
	10/22/2003																										
	5/11/2004																									0.2 J	
	07/22/2004																										
	10/14/2004																										
	1/27/2005																										
	4/26/2005																										
	8/2/2005																									0.30 J	
	10/26/2005																									0.39 J	
	01/31/2006																										
	4/24/2006																										
	7/27/2006								0.45 J																		
	10/31/2006																										
	1/31/2007																										
	5/1/2007																										
	8/8/2007																										
	10/19/2007																										
	5/6/2008														1.3											5.4	
	10/1/2008																										
	4/7/2009																										
	10/28/2009								0.42J																		
	5/24/2010																										
	10/5/2010																										
	1/24/2011																										
	4/13/2011																										
	7/12/2011																		0.81J								
	10/19/2011																										
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										
	7/2/2013																										
	10/24/2013																										
	1/9/2014																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-101	10/1/1993	NR																			0.7 J						
	04/1/1994	NR																			0.6J						
	05/01/1996	NR																			0.6J						
	10/01/1996	NR							0.89 J												0.72 J						
	05/01/1997	NR																									
	10/01/1997	NR																			0.7						
	04/98*	NR																									
	10/01/1998	NR																									
	04/01/1999	NR																									
	10/01/1999	NR																			0.7						
	05/01/2000	NR																			0.32						
	10/01/2000	NR																			0.38						
	05/01/2002	NR																			0.28						
	10/11/2001	NR																									
	02/05/2002	NR				NA					0.19										0.32	NA		0.16			
	05/21/02 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/02 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/02 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/03 *		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/23/2003																										
	4/28/2004																										
	10/13/2004	11																									
	4/27/2005																										
	4/28/2006	18																									
	11/1/2006*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/2007																										
	5/1/2007	2.4																									
	5/6/2008																										
	4/8/2009																										
	10/29/2009																										
	5/25/2010																										
	10/4/2010																		0.44J								
	1/26/2011																										
	4/11/2011																										
	4/3/2012																										
P-101	10/01/1993	NR																									
	04/01/94	NR																					0.5J				
	020/5/02	NR			NA																	NA					
	05/22/2002	NR			NA																	NA					
	10/13/2004																										
	4/27/2005																										
	10/25/2005																										
	4/28/2006																										
	11/1/2006																										
	5/1/2007																										
	5/6/2008																										
	4/8/2009																										
	11/4/2009								0.75J																		
	5/25/2010																										
	10/4/2010																		0.44J								
	1/26/2011																										
	4/11/2011																										
	4/3/2012																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																									
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-102	10/26/1993	NR																									
	04/11/1994	NR																					3				
	05/08/1996	NR																					0.4J				
	10/30/1996	NR							0.99J												0.30J						
	05/12/1997	NR																									
	10/26/1997	NR																									
	04/13/1998	NR													0.46												
	10/11/2001	NR																									
	05/21/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/23/2004																										
	10/14/2004																										
	4/27/2005																										
	10/25/2005																										
	4/25/2006																										
	11/1/2006																										
	5/2/2007																										
	4/30/2008																										
	10/2/2008																										
	4/8/2009																										
	5/20/2010																										
	4/11/2011																										
	4/3/2012																										
P-102	10/26/1993	NR																									
	04/11/1994	NR																									
	10/11/2001	NR																									
	05/21/2002	NR			NA																	NA				0.33 J	
	08/20/2002	NR																				NA				0.62	
	12/04/2002	NR																								0.68	
	04/21/2003																		0.48 J&							0.83	
	10/22/2003																									0.96	
	04/27/2004																									2.1	
	10/14/2004								0.5 J																	0.32	
	1/27/2005																										
	4/27/2005																										
	8/3/2005																										
	8/3/2005 dup																										
	10/25/2005																										
	2/1/2006																										
	4/27/2006																										
	4/27/2006 dup																										
	7/27/2006								0.66J																		
	11/1/2006																										
	2/15/2007																										
	5/2/2007																										
	8/14/2007																										
	10/16/2007	2.9 J																									
	5/6/2008																										
	10/2/2008																										
	4/8/2009																										
	11/4/2009																										
	11/4/2009 Dup																										
	5/20/2010																										
	4/11/2011																										
	4/3/2012	9.1 J																									

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																									
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethene	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-103[2]	10/27/1993	NR													410											75	
	04/11/1994	NR													1100											440	
	04/01/94 Dup	NR													970											410	
	05/01/1996	NR				7J									740	9J								10J		170	
	05/01/96 Dup	NR				8J			9 J						840	10J								11J		180	
	10/01/1996	NR	3.3			8.1 J	1.9		1.1	0.76 J		0.99 J		0.30 J	520 E	5	1.9							4.2		98E	
	05/01/1997	NR	4.3			8.5	2.7			0.98		1.2	0.52	0.75	790	4.7	1.6			0.27				5.6		230	
	10/01/1997	NR	4.2			7.9	2.4			1.4		0.89	0.38		550J	5.2	1.5			0.38		3.1		6.6		220J	
	0498*	NR																									
	10/01/1998	NR	2			5.7									260	3.3								5.8		45	
	04/01/1999	NR	1.4			4.7									150	2.4								3.9		47	
	10/01/1999	NR				5.2									170	2.6								2.4		48	
	05/01/2000	NR	1.8			6.5									170	3.4								4.1		60	
	10/01/2000	NR	1.6			6.9	3.1			0.84		0.33			130	4.5	0.75							6.6		78	
	05/01/2001	NR	1.2			5.7	1.5			0.92					94	3.4	0.54		2.6L			1.1		4.5		46	
	10/11/2001	NR	1.1		80	2.6	0.62			0.54					25	2.7			6.4L				0.8			15	
	2/4/2002	NR	1.8		NA	6.4	1.1			0.81		0.36			71	5.5	0.53		0.28		0.13	NA	0.72	3.1		40	
	5/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/21/03 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/21/2003		0.8			1.3									58	1.9								1.7		21	
	04/28/2004		0.61 J		26	0.53 J									16									1.9		6.7	
	10/13/2004	56	1.4			1.7			0.52						12	2.5							0.89	0.78		7.9	
	4/26/2005		1.2			2.8									1.9	3.0							0.71			1.8	
	4/25/2006	31			8.0 J	0.62 J									5.2									0.48 J		1.8	
	10/31/2006*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/2007				6.1J										10									0.82J		0.34	
	5/2/2007					1.7									14									1.7		0.75	
	10/18/2007														26									2.8		2.2	
	5/5/2008					0.63J									15.7									3.4			
	10/2/2008					0.43J									12.3									3.8			
	4/7/2009														7.7									3.1			
	10/28/2009														4.6									2.4			
	2/25/2010														2.9									2.1			
	5/24/2010														4									2.1			
	10/4/2010														3.5				0.73J					2.4			
	1/26/2011														2.9									2.7			
	4/11/2011														2.7									2.1			
	7/11/2011														4.2				0.74J					2.3			
	10/19/2011														4.3									3			
	1/24/2012														3.2									2.6			
	4/3/2012														2.9									2.3			
	4/3/2012 Dup														3.3									2.4			
	7/25/2012														2									2.2			
	10/17/2012														2.1									1.7			
	1/16/2013														1.7									2.3			
	4/24/2013														1.1									1.7			
	10/24/2013														2									1.6			

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																									
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-103	10/27/1993	NR																									
	04/12/1994	NR																									
	05/9/1996	NR													0.1J								0.1J			0.1J	
	10/31/1996	NR							0.84 J																		
	05/13/1997	NR																									
	10/27/1997	NR																									
	04/13/1998	NR																									
	2/4/2002	NR			NA																	NA					
	05/21/2002	NR			NA										[0.54]							NA					
	10/13/2004								0.52 J																	1.7	
	1/26/2005																										
	1/26/2005 dup																										
	4/26/2005																									2.4	
	8/3/2005																									3.2	
	10/26/2005																									3.2	
	02/01/2006																									3.6	
	4/25/2006																									2.9	
	7/28/2006								0.49 J																	1.6	
	11/1/2006																									1.4	
	2/1/2007																									1.5	
	5/2/2007																									1.6	
	8/14/2007																									1.4	
	10/18/2007																									1.2	
	5/5/2008																									0.74	
	5/5/2008 Dup																									0.81	
	10/2/2008																									0.81J	
	10/2/2008 Dup																									0.89J	
	4/7/2009																									0.75J	
	10/28/2009								0.43J																	0.58J	
	2/25/2010								0.52J																	0.49J	
	5/24/2010																										
	10/5/2010																		0.53J							0.41J	
	1/25/2011																									0.34J	
	4/12/2011																									0.39J	
	7/11/2011																										
	10/18/2011																									0.29J	
	1/24/2012																									0.28J	
	4/4/2012																									0.28 J	
	7/25/2012																										
	10/17/2012																										
	1/16/2013																										
	4/26/2013																										
	10/24/2013																										
P-103D	02/4/2004				NA														0.55J			NA				1.1	
	05/11/2004																									1.5	
	05/11/04 dup																									1.5	
	07/23/2004																									1.3	
	07/23/04 dup																									1.5	
	10/13/2004								0.43 J						0.86J												
	04/26/2005														0.84J											3.0	
	10/26/2005														0.98J											2.7	
	10/26/2005 dup														0.95J											2.8	
	4/25/2006																									2.6	
	11/1/2006																									1.9	
	5/2/2007																									1.4	
	10/18/2007																									1.2	
	5/5/2008																									0.69	
	5/5/2008 Dup																									0.66	
	10/2/2008																									1.1	
	10/2/2008 Dup																									1.5	
	4/7/2009																									0.77J	
	4/7/2009 Dup																									0.74J	
	10/28/2009								1.1																	0.75J	
	2/25/2010																									0.64J	
	5/24/2010																										
	10/5/2010																		0.86J							0.71J	
	1/25/2011																										
	4/11/2011																									0.69J	
	7/11/2011																									0.78J	
	10/18/2011																									0.54J	
	1/24/2012																									0.73J	
	4/4/2012	10.7 J																								0.98 J	
	7/25/2012																										
	10/17/2012																										
	1/16/2013																										
	4/26/2013																										
	7/2/2013																										
	10/24/2013																										
	1/9/2014																									0.67J	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																										
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-104	10/27/1993	NR	2			2				2					1 JB								31				
	4/19/1994	NR	1			1				1					10									9.8J		6.0	
	05/9/1996	NR	6			5	1		0.3 J			0.2 J			6	0.3 J		0.1J					0.2 J	0.51		10	
	10/30/1996	NR	0.64 J			1.1	0.34 J		0.46 J						3.6	0.22J		0.80J						0.31 J		4.3	0.77J
	05/12/1997	NR	4.8			4.5	1.5			0.91					1.1					0.32						4.5	
	10/27/1997	NR	0.63			1.3				0.85					7.3											18	
	04/13/1998	NR	1.2												74	0.67							0.46	3.5		17	
	10/13/1998	NR	1.7							0.76					3.3											15	4.1
	04/07/1999	NR	3.2			1.4									6.6									0.71		6.1	
	10/27/1999	NR	3.5			5.4				0.92					4.5											2.8	
	05/2/2000	NR	3			5.7				1.5					0.7								0.13			1.1	
	10/30/2000	NR	2			6.2				1.6					2.6								0.12	0.33		29	
	05/1/2001	NR	2.5			5.6				2	0.47				7				0.51L			0.81	0.13	0.66		8.6	
	10/11/2001	NR	3.1			9.5				2.3				0.85	2				0.39L				0.1			2.2	
	02/5/2002	NR	2.7		NA	8				2	0.19				5.1							NA	0.17	0.73		13	
	05/21/02*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/05/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2003 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/22/2003		1.8		6.9J	3.1									4.6											6.5	
	10/23/2003	3.2	4			7.8				1.8					3.3											8.6	
	04/28/2004		2.4			6				2.2 J					6.4											8.7	
	10/13/2004		2.5			6.5				2.2 J					10											20	
	4/27/2005		1.7			5.4				2.1 J																0.64	
	10/25/2005		1.4			6.9				2.5 J					3.9											13	
	4/25/2006		1.4		4.6 J	4.9				2.2 J					1.0 J											1.1	
	11/2/2006		1.2 J			4.8				1.7 J																	
	11/2/2006 dup		1.3 J			5																					
	5/2/2007		0.8J			4				2.0J																	
	10/18/2007		0.75 J			6				2.0J																	
	5/6/2008		0.62J			3.3				1.8																	
	10/1/2008		0.52J			3.7				1.9																	
	4/7/2009		0.68J			3.5				2.3																	
	11/4/2009					3.9				1.9																	
	5/20/2010					3.5				2.4																	
	4/11/2011					3.1				1.9																	
	10/19/2011					3.6				2																	
	4/3/2012		0.41J			3.5				1.9																	
	10/17/2012					2.8				1.8																	
	4/24/2013					3				1.8																	
P-104	10/27/1994	NR																									
	04/19/1994	NR																									
	05/09/1996	NR																									
	10/30/1996	NR							0.20J																		
	05/12/1997	NR																									
	10/27/1997	NR																									
	04/13/1998	NR																									
	10/11/2001	NR																	0.52L								
	02/5/2002	NR	0.18		NA				0.85													NA					
	5/21/2002	NR			NA																	NA					
	08/20/2002	NR																				NA					
	10/13/2004								0.45 J																		
	10/13/04 Dup																										
	8/3/2005																										
	8/3/05 Dup																										
	7/28/2006																										
	8/14/2007																										
	5/5/2008																										
	4/7/2009																										
	5/26/2010																										
	4/12/2011																										
	4/3/2012																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-106	10/1/1993	NR																									
	04/01/1994	NR																					11				
	02/04/02	NR			NA																	NA	0.25				
	05/21/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	08/19/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/02 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/21/03 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/23/2004																										
	4/27/2005																										
	4/27/05 Dup																										
	7/28/06*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/31/2006*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/15/2007																										
	8/14/2007																										
	4/30/2008																										
	4/8/2009																										
	5/20/2010																										
	4/11/2011																										
	4/3/2012																										
P-106	10/01/1993	NR																						0.61			
	04/01/1994	NR																						0.81			
	05/01/1996	NR													0.2 J									0.81			
	10/01/1996	NR							0.62J															0.22 J			
	05/01/1997	NR																						0.65			
	10/01/1997	NR																						0.67			
	04/01/1998	NR																						0.61			
	10/01/1998	NR																						0.71			
	04/01/1999	NR																						0.58			
	10/1/1999	NR																						0.61			
	05/01/2000	NR																						0.56			
	10/01/2000	NR																						0.6			
	05/01/2001	NR																						0.56			
	10/11/2001	NR																						0.39			
	2/5/2002	NR			NA																	NA		0.6			
	02/05/02 Dup	NR			NA																	NA		0.6			
	05/22/2002	NR			NA																	NA		0.49			
	05/22/02Dup	NR			NA																	NA		0.47 J			
	08/20/2002	NR																				NA		0.43 J			
	12/4/2002	NR																						0.53			
	04/22/2003																							0.55 J			
	10/21/2003																							0.56			
	10/21/03 Dup																										
	4/27/2004																										
	10/13/2004								0.9															0.84 J			
	4/27/2005																										
	10/25/2005																										
	4/28/2006																										
	11/1/2006																										
	5/1/2007																										
	10/22/2007																										
	4/30/2008																										
	10/1/2008																										
	4/8/2009																										
	4/8/2009 Dup																										
	11/4/2009																										
	5/26/2010																										
	4/12/2011																										
	4/3/2012																										
	4/24/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-107	10/27/1993	NR																						2			
	4/12/1994	NR																						2			
	5/9/1996	NR																						2			
	10/21/1996	NR							0.80 J															2.2			
	5/13/1997	NR									0.9													2.6			
	10/27/1997	NR									0.7													2			
	4/14/1998	NR																						2.1			
	10/13/98*	NR																						NA			
	4/6/1999	NR																						1.8			
	10/27/1999	NR																						1.1			
	5/2/2000	NR																						1.6			
	10/31/2000	NR																						1.2			
	5/31/2001	NR									0.47								0.57L					1.8			
	10/11/2001	NR																						0.87			
	2/4/2002	NR			NA						0.35											NA		1.4			
	05/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2003																		0.52 J					1.2			
	10/21/2003																							2.2			
	4/27/2004																							1.9			
	10/13/2004								0.63 J															0.65 J			
	4/27/2005																							1.1			
	10/27/2005																							0.79 J			
	4/25/2006																		0.49 J					0.55 J			
	10/31/2006																										
	5/1/2007																							0.86			
	10/17/2007																							0.53 J			
	5/5/2008																										
	10/1/2008																										
	4/7/2009																										
	10/28/2009								1.6															0.51J			
	5/24/2010																										
	10/4/2010																		0.70J								
	1/26/2011																										
	4/11/2011																										
	10/18/2011																										
	4/3/2012																										
	10/17/2012																										
	4/24/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																										
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-107	10/27/1993	NR													4											6	
	4/12/1994	NR													2								0.7J			3	
	4/12/94 Dup	NR													2								0.7J			3	
	5/9/1996	NR	0.1 J				0.2J								2								0.1 J	0.1 J		2	
	10/23/1996	NR					0.19		0.79 J						1.9											2.3	
	10/23/96 Dup	NR					0.21		0.49 J						2.1											2.7	
	5/14/1997	NR													1.3											2	
	5/14/97 Dup	NR													1.1											1.7	
	10/27/1997	NR													2.2											2.6	
	10/27/97 DUP	NR													1.8											2.3	
	4/14/1998	NR													2.3											2.2	
	4/14/98Dup	NR													2.3											2.4	
	10/14/1998	NR													2.1											1.5	
	10/14/98DUP	NR													2.4											1.7	
	4/6/1999	NR													1.5											0.58	
	10/27/1999	NR													1.8												
	10/27/99 Dup	NR													1.8												
	5/2/2000	NR													1.5											1.2	
	5/02/00 Dup	NR													1.6											1.2	
	10/31/2000	NR													1.4												
	10/31/00 Dup	NR													1.4												
	5/9/2001	NR													0.96				0.52L			0.72		1.8		0.85	
	5/9/2001 Dup	NR													0.97				0.49L			0.79				0.86	
	10/11/2001	NR													1.6											1.7	
	10/11/01 Dup	NR													1.5											1.7	
	2/4/2002	NR			NA										1.6							NA				1.2	
	5/21/2002	NR			NA										1.8							NA				1.5	
	5/21/02 Dup	NR			NA										1.7							NA				1.4	
	8/20/2002	NR													0.84							NA				0.54J	
	12/4/2002	NR													1.3											1	
	4/21/2003														1.5 J											1	
	04/21/2003 Dup														1.3J												
	10/21/2003														1.3											0.93	
	4/27/2004														0.96J											0.61	
	10/13/2004														0.89 J											0.64	
	10/13/04 Dup														1.1 J												
	4/27/2005																										
	10/27/2005																										
	4/25/2006																									0.79	
	10/31/2006																									0.33J	
	5/1/2007																									0.76	
	10/19/2007														0.92 J											1	
	5/5/2008																									0.48J	
	10/1/2008																										
	4/7/2009								0.24J																	0.88J	
	10/28/2009								1.6																	0.64J	
	5/24/2010																									1.1	
	10/5/2010																									0.94J	
	1/24/2011																										
	4/12/2011																									0.84J	
	10/18/2011																									0.54J	
	4/4/2012	10.7 J																								1.1	
	10/17/2012																										
	4/26/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-107D	10/27/1993	NR													2B											6	
	4/13/1994	NR																									
	5/9/1996	NR	0.1J						0.3J						0.2J								0.3J			0.6J	
	10/23/1996	NR							0.44J																	3.9	
	5/14/1997	NR													0.49											2.4	
	10/27/1997	NR													1.7											5.1	
	4/14/1998	NR													1											4.1	
	10/14/1998	NR																								2.2	
	4/6/1999	NR													0.34											0.87	
	10/27/1999	NR																								1.7	
	5/2/2000	NR																								1.3	
	10/31/2000	NR													0.64												
	01/05/2001	NR		0.33											1.5				0.44L			0.72B				5.6	
	10/11/2001	NR													2.2											10	
	2/4/2002	NR			NA										1.2							NA		0.17		3.9	
	02/04/02 Dup	NR													1.2											3.9	
	5/21/2002	NR			NA										1.1							NA				3.3	
	8/20/2002	NR													1.1							NA				3.1	
	12/4/2002	NR													0.75											0.81	
	4/21/2003														1.3 J											3.3	
	10/21/2003														0.97											3.5	
	4/27/2004														1.5 J											4.2	
	10/13/2004						1.2 J		093						2.0 J											5.9	
	4/27/2005														1.3 J											3.1	
	4/27/05 Dup						1.9 J								2.5											6.2	
	10/27/2005						1.2 J								2.0 J											4.3	
	4/25/2006						2.3 J								3.1				0.68 L							7.7	
	10/31/2006						2.0 J								2.1 J											4.3	
	5/1/2007						1.6 J								2.5 J											6.2	
	5/1/2007 Dup						1.6 J								2.9											6.7	
	10/19/2007																									3	
	5/5/2008																									1.3	
	10/1/2008																									1.6	
	4/7/2009								0.96J																	2.5	
	10/28/2009																									2	
	2/25/2010								0.25J																	1.8	
	5/24/2010																									4	
	10/5/2010																									1.6	
	1/24/2011																									2.6	
	4/12/2011																									2.6	
	7/11/2011														1.2											5.3	
	10/18/2011																									1.8	
	1/23/2012																										
	4/4/2012																									4.5	
	7/25/2012																									2.1	
	10/17/2012																									2	
	1/16/2013																									2.3	
	4/26/2013																									2.1	
	7/2/2013																										
	10/24/2013																									2.6	
	1/9/2014														0.57J											2.9	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																										
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-108	10/18/1993	NR																					11				
	4/13/1994	NR																					2				
	5/8/1996	NR													0.2J								0.2J				
	10/23/1996	NR							0.85 J																		
	5/12/1997	NR																									
	10/27/1997	NR																									
	4/14/1998	NR																									
	10/11/2001	NR																	0.34L								
	05/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2002	NR																									
	10/14/2004														1.2 J									1.3 J		0.67	
	4/27/2005														1.0									0.7		0.3	
	8/3/2005																							0.70 J			
	10/25/2005																										
	02/01/2006																										
	4/28/2006																										
	7/27/2006								0.36 J																		
	11/2/2006																										
	2/1/2007																										
	5/2/2007																										
	8/14/2007																										
	10/16/2007																										
	5/6/2008	2.7J																									
	10/2/2008																										
	4/8/2009																										
	11/4/2009																										
	11/4/2009 Dup																										
	5/20/2010																										
	5/20/2010 Dup																										
	4/11/2011																										
	4/11/2011 Dup																										
	4/2/2012																										
P-108	10/25/1993	NR																									
	10/25/93 Dup	NR																									
	4/13/1994	NR																									
	4/13/94 Dup	NR																									
	10/11/2001	NR																	0.32L								
	2/5/2002	NR			NA																	NA					
	5/21/2002	NR			NA																	NA					
	10/14/2004								0.45 J																		
	1/28/2005																										
	10/25/2005																										
	7/27/2006								0.75 J																		
	8/14/2007										2.7 J																
	5/6/2008																										
	4/8/2009																										
	5/20/2010																										
	4/11/2011																										
	4/2/2012																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																								
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-111	4/19/1994	NR																	0.30L								
	10/11/2001	NR																									
	05/21/2002*	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002	NR																				NA					
	12/5/2002	NR																									
	10/13/2004																										
	10/26/2005																										
	4/24/2006																										
	8/8/2007																										
	5/5/2008																										
	4/7/2009																		0.44J								
	10/28/2009																										
	5/24/2010																										
	10/4/2010																		0.80J								
	1/26/2011																										
	4/11/2011																										
	4/3/2012																										
P-111	4/19/1994	NR																					2				
	10/11/2001	NR																									
	2/5/2002	NR			NA																	NA					
	5/22/2002	NR			NA																	NA					
	8/19/2002	NR																				NA					
	08/19/02 Dup	NR																				NA					
	12/5/2002	NR																									
	12/05/02 Dup	NR																									
	4/22/2003																										
	10/22/2003																										
	4/28/2004																										
	8/3/2005																										
	7/27/2006																										
	8/8/2007																										
	5/5/2008																										
	4/7/2009																										
	10/28/2009																										
	5/24/2010																										
	10/5/2010																										
	1/24/2011																										
	4/13/2011																										
	4/4/2012	10.5 J																									

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																									
		Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-111D	4/4/2002	NR													0.6								0.3			13	
	5/22/2002	NR			NA										0.59 J							NA				15	
	8/19/2002	NR													0.37J							NA				12	
	12/5/2002	NR													0.42 J											11	
	4/23/2003																									12	
	10/23/2003																									9.1	
	5/11/2004						1.4																			15	
	07/23/2004																									14	
	10/13/2004						1.9 J																1.6 J			11	
	1/27/2005																									8.8	
	4/26/2005						3.7								0.87J											13	
	4/26/05 Dup						3.5																			13	
	8/3/2005								2.9J						0.96J											10	
	10/26/2005						3.1 J								1.1 J											10	
	10/26/2005 dup						2.7 J								0.93 J											10	
	02/01/2006						4.2								0.89J											11	
	4/24/2006						2.8 J								1.3J											11	
	7/27/2006								0.30J						1.2 J											10	
	10/31/2006						1.4 J								1.3J											8.5	
	1/31/2007						3.0J								1.4J											8.2	
	5/1/2007						3.1J								1.3J											8.2	
	8/8/2007						2.9 J								1.5 J											8.5	
	10/17/2007						2.7 J								1.5J											8	
	5/5/2008														1.5											4.7	
	10/2/2008						1.8								1.5											5.7	
	4/7/2009						1.4								1.7											5.5	
	10/28/2009						1.8								1.5											5	
	2/25/2010						1.8								1.5											4.4	
	2/25/2010 Dup						1.5								1.5											3.9	
	5/24/2010						1.9								1.5											5.9	
	5/24/2010 Dup						1.8								1.4											4.4	
	10/5/2010						1.5								1.3				0.55J							4.7	
	10/5/10 Dup						1.6								1.3				1.2							4.7	
	1/24/2011						1.9								1.1											5.2	
	1/24/11 Dup						1.7								1.4											4.5	
	4/13/2011						2.3								1.6											5.8	
	4/13/2011 Dup						2.8								1.3											7.1	
	7/11/2011														1.4				0.88J							5.3	
	10/18/2011						1.5								1.4											4.5	
	10/18/2011 Dup						1.4								1.5											4.8	
	1/23/2012						2								1.7											4.3	
	4/4/2012	8.0 J					2.1								2											6	
	4/4/2012 Dup	8.3 J					2								2											5.7	
	7/25/2012														1.6											6.5	
	10/17/2012						1.3								1.7											7.2	
	10/17/2012 Dup						1.8								1.9											6.9	
	1/16/2013						2.2								1.7											8.1	
	4/26/2013						2.3								1.4											6.5	
	4/26/2013 Dup						2.2								1.3											6.7	
	7/2/2013						1.9								1.9											6.8	
	10/24/2013						1.5								1.6											6.7	
	1/9/2014						2.1								1.5											6.9	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
MW-112	11/27/1996	NR	0.61				2 J								59	1 J								31		15	
	11/27/96 Dup	NR	0.71				2 J								58	1 J								41		16	
	5/12/1997	NR	0.59			0.27									5.4											2.2	
	10/26/1997	NR	0.5			0.29									13												
	4/13/1998	NR	0.69				1.4								57	1.3								1.9		12	
	10/13/1998	NR	0.76												80									1.2		25	
	4/6/1999	NR	0.72				1.4								40	0.56								1.7		7.9	
	10/27/1999	NR													7.6									1			
	5/2/2000	NR	0.46												3.4									0.39			
	10/30/2000	NR				0.37									5.6									0.37			
	5/9/2001	NR	0.42			0.42									3.5											0.98	
	10/11/2001	NR	0.36			0.39	0.53								27									0.83		3.7	
	2/4/2002	NR	0.23		NA	0.48									0.49							NA					
	05/21/2002*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/19/2002 *	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2002														150									2.7 J		56	
	4/22/2003		1.2 J				7.4 &								220	4.5 J								5.9		45	
	10/22/2003	2.5	0.88				5.9								60	1.4								1.6		51	
	4/28/2004		0.53 J			0.45 J	4								18									1.1 J		9.9	
	4/28/04 dup	6.5	0.61 J			0.48 J	4.7								22									1.1 J		9.3	
	07/23/2004	110	1.1				23								140	2.6	0.58				1			7.4		31	
	10/13/2004		1.0 J			0.42	14								110	2.4 J								2.9		25	
	10/13/04Dup		0.87 J				15		0.56 J						94	2.1 J					0.60 J			2.9		29	
	1/26/2005		0.76 J				20								85	2.3 J										27	
	4/26/2005		0.6 J				13								64	1.2 J								1.8		17	
	8/3/2005					0.48 J									4.6											1.5	
	10/25/2005														2.5 J											1.4	
	02/01/2006		0.41 J			0.45 J	3.2 J								11									0.76 J		4.9	
	4/25/2006					0.48 J	0.97 J								5.4											2.8	
	7/27/2006					0.43 J			0.24 J						2.9											1.7	
	7/27/2006 dup								0.52 J																	1.5	
	11/2/2006														2.3 J											1.7	
	2/1/2007					0.46J	1.4J								3.8											2.5	
	5/2/2007					053J	1.3J								6.1											2.6	
	8/14/2007					0.51 J									4.4											1.8	
	8/14/2007 dup					0.51 J									4.9											1.6	
	10/18/2007					0.49 J									4											1.2	
	5/5/2008														33.3									1.8		1.3	
	10/2/2008														13.3									0.60J		0.79J	
	4/7/2009														5.1									0.57J		0.56J	
	11/4/2009																										
	5/20/2010														2.7											0.33J	
	4/11/2011														1.8												
	7/11/2011														5.3				0.60J					1.5		0.27J	
	10/19/2011														1.4												
	1/24/2012																							0.76J			
	4/3/2012																										
	7/25/2012														1.5												
	10/17/2012																										
	1/16/2013																										
	4/24/2013																										
	10/24/2013																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																									
		Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-113A	9/12/2002	NR						0.37J															1.0J				
	12/3/2002	NR																									
	4/23/2003																						2.2				
	10/22/2003																										
	5/11/2004																										
	8/2/2005																										
	7/27/2006								0.84																		
	8/8/2007																										
	5/6/2008																										
	4/6/2009																										
	10/29/2009								0.42J																		
	5/25/2010																										
	10/6/2010																										
	1/25/2011																										
	4/13/2011																										
	7/12/2011																		1.3								
	10/19/2011																										
	1/23/2012																										
	4/4/2012	7.5 J																									
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										
	7/2/2013																										
	10/24/2013																										
	1/9/2014																										
P-113B	09/11/2002 [3]	NR						1										0.41J					6.6				2.6
	12/3/2002	NR																									
	4/23/2003																										
	7/30/2003																										
	10/22/2003																										
	2/4/2004																										
	5/11/2004																										
	07/22/2004																										
	10/14/2004								0.49 J																		
	1/27/2005																										
	4/27/2005																										
	8/2/2005																										
	10/26/2005								0.42 J																		
	02/01/2006																										
	4/24/2006																										
	7/27/2006								0.49 J																		
	10/31/2006																										
	1/31/2007																										
	5/1/2007																										
	8/8/2007																										
	10/19/2007																										
	5/6/2008																										
	10/1/2008								0.29J																		
	4/6/2009																										
	4/6/2009 Dup																										
	10/29/2009																										
	5/25/2010																										
	10/6/2010																		0.51J								
	1/25/2011																		1.6								
	4/13/2011																										
	7/12/2011																		1.3								
	10/19/2011								0.43J																		
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/16/2012																										
	1/15/2013																										
	4/26/2013																										
	7/2/2013																										
	10/24/2013																										
	1/9/2014																										

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																									
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-114 (former Ehster well)	11/19/2001	NR													0.93											7	
	2/5/2002	NR													0.85											5.5	
	5/22/2002	NR													1.2											6.2	
	8/21/2002	NR													0.93											5.4	
	12/3/2002	NR													1.3								0.40J			6.3	
	4/23/2003																									3.3	
	10/23/2003														1.2											8.6	
	10/23/03 Dup														1.4											9.2	
	5/11/2004														1.5J											10	
	07/22/2004														1.4J											7.9	
	10/13/2004								0.39 J						1.7J											10	
	1/27/2005																									3.5	
	4/26/2005																									3.0	
	8/2/2005														1.1J											6.1	
	10/26/2005								0.84						1.3J											6.6	
	10/26/2005dup								0.49						1.4J											6.9	
	01/31/2006														1.3J											8.4	
	4/24/2006														1.3J											7.6	
	4/24/2006 dup														1.3J											7.9	
	7/27/2006								0.48 J						1.6J											8.9	
	7/27/2006 dup								0.38 J						1.6J											8.7	
	11/2/2006														2.7J											13	
	11/02/2006 dup														2.7J											13	
	2/1/2007														1.2J				0.46J							7.5	
	2/1/2007 dup														1.4J											8.5	
	5/1/2007														1.1J											7.4	
	5/1/2007 dup														1.2J											7.8	
	8/8/2007														1.1J											6.7	
	8/8/2007 dup														1.2J											7.5	
	10/22/2007														0.95J											7.8	
	10/22/2007 Dup														1.2J											8.1	
	5/6/2008														1.5											6.6	
	10/2/2008														1.2											6.1	
	4/6/2009														1.6				0.47J							6.5	
	10/29/2009								1.5						1.5											4.7	
	2/26/2010														1.6											5.1	
	5/26/2010														1.3											4.5	
	5/26/2010 Dup														1.3											4.3	
	10/6/2010														1.4											5.4	
	10/6/10 Dup														1.3											5.4	
	1/25/2011														1.3											4.8	
	1/25/11 Dup														1.3											5.3	
	4/13/2011														1.6											8.2	
	4/13/2011 Dup														1.7											8.5	
	7/12/2011														1.3				0.80J							5.6	
	7/12/2011 Dup														1.5				0.67J							5.8	
	10/19/2011														1.2											5.6	
	10/19/2011 Dup														1.3											5.5	
	1/23/2012														1.1											5	
	1/23/2012 Dup														1.3											5.1	
	4/4/2012														1.5											7.2	
	4/4/2012 Dup														1.5											7.5	
	7/25/2012														1.2											6.5	
	7/25/2012 Dup														1.4											6.3	
	10/17/2012														1.6											6.6	
	10/17/2012 Dup														1.6											6.4	
	1/16/2013														1.2											8.2	
	1/16/13 Dup														1.3											7.6	
	4/26/2013														1.2											6.5	
	4/26/2013 Dup														1.1												
	7/2/2013																										
	7/2/2013 Dup														1.3												
	10/24/2013														1.3											7.2	
	10/24/2013 Dup														1.4											7	
	1/9/2014														1.3											8.2	
	1/9/2014 Dup														1.3											8.8	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

		Parameters																									
Sampling Point	Collection Date	Acetone [1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-115 (former Wiese well)	10/9/2001	NR																									
	10/09/01 Dup	NR																									
	11/19/2001	NR																									
	2/5/2002	NR																									
	5/22/2002	NR																									
	8/19/2002	NR							0.20J																		
	12/3/2002	NR																									
	4/22/2003																										
	7/30/2003																										
	10/22/2003																										
	2/4/2004																										
	4/27/2004																										
	10/14/2004																									0.33 J	
	1/27/2005																										
	4/26/2005																										
	8/2/2005																									0.34J	
	10/26/2005								0.24J																	0.33J	
	1/31/2006																										
	4/24/2006																									0.62	
	7/27/2006																									0.44 J	
	10/31/2006																									0.39J	
	2/1/2007																									0.50J	
	5/1/2007																									0.54J	
	8/14/2007																									0.62	
	10/22/2007																									0.49 J	
	10/22/2007																									0.55 J	
	5/6/2008																									1.1	
	10/2/2008																									1.9	
	4/6/2009																									1.3	
	10/29/2009								1.6																	1.3	
	2/26/2010								0.30J																	0.95J	
	5/26/2010																										
	10/6/2010																									1.2	
	1/25/2011																									0.86J	
	4/13/2011																									1.4	
	7/12/2011																		0.69J							0.99J	
	10/19/2011																									1	
	1/23/2012																									0.77J	
	4/4/2012	7.2J																								1.3	
	7/25/2012																									1.1	
	10/17/2012																										
	1/16/2013																									1.3	
	4/26/2013																									1.1	
	7/2/2013																										
	10/24/2013																									1.1	
	1/9/2014																									1.5	

Table 2. Groundwater VOC Analytical Results for Monitoring Wells
FF/NN Landfill, Ripon, WI

Sampling Point	Collection Date	Parameters																								
		Acetone[1]	Benzene	Bromomethane	2-Butanone (MEK)	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,4-dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-dichloroethane	1,1-Dichloroethene	cis-1,2-dichloroethene	trans-1,2-Dichloroethene	1,2-dichloropropane	Ethylbenzene	Methylene chloride	MTBE	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes
WDNR NR140	PAL	200	0.5	1	90	NE	80	0.6	0.3	15	200	85	0.5	0.7	7	20	0.5	140	0.5	12	0.5	10	200	0.5	NE	0.02	1000
	ES	1000	5	10	460	NE	400	6	3	75	1000	850	5	7	70	100	5	700	5	60	5	50	1000	5	NE	0.2	10000
P-116 (former Hadel well)	10/9/2001	NR																									
	11/19/2001	NR																									
	2/5/2002	NR																									
	5/22/2002	NR																									
	8/19/2002	NR																									
	08/19/02 Dup	NR																									
	12/3/2002	NR																									
	12/03/02 Dup	NR																									
	4/22/2003																										
	7/30/2003																										
	10/22/2003																										
	2/4/2004																										
	5/11/2004																										
	7/22/2004																										
	10/14/2004																										
	1/27/2005																										
	4/26/2005																										
	8/2/2005																										
	10/26/2005																										
	1/31/2006																										
	01/31/06 Dup																										
	4/24/2006																										
	7/27/2006								0.35J																		
	10/31/2006																										
	2/1/2007																										
	5/1/2007																										
	8/8/2007																										
	10/22/2007																										
	5/6/2008																										
	10/2/2008																										
	4/6/2009																										
	10/29/2009																										
	2/26/2010																		1.1								
	5/25/2010																										
	10/6/2010																		0.44J								
	1/25/2011																										
	4/13/2011																										
	7/12/2011																		0.46J								
	10/19/2011																										
	1/23/2012																										
	4/4/2012																										
	7/25/2012																										
	10/17/2012																										
	1/15/2013																										
	4/26/2013																										
	7/2/2013																										
	10/24/2013																										
	1/9/2014																										

Results in µg/L

B = analyte found in method blank as well as sample
E = exceeds calibration range
J = estimated value between LOD and LOQ
L = Lab Artifact
& = Laboratory control spike recovery not within control limits
NE = None Established
NA= Not Analyzed; no sample collected for analysis
NR = Value not reported by lab or not recorded during initial evaluation by GeoTrans

PAL = Preventive Action Limit
ES = Enforcement Standard
Underline indicates exceeds NR 140 PAL
Bolding indicates exceeds NR 140 ES
Blank = Sample Collected but No VOCs detected
Historical data for abandoned wells MW-105, P-105, P-109 and MW-110 can be found in reports prior to October 204

* Not sampled due to insufficient water for sample collection

[1] The reporting of acetone on an 8260B VOC scan varies with labs. Enchem, which began analyzing samples in April 2003, does report acetone. Acetone has appeared in several wells beginning in October 2003.

[2] MW-103 had low concentrations of isopropyl ether detected in October 1997 and February 2002. Acetone at 27 ppb was detected in April 2004. Carbon disulfide at 2.2J ppb was detected in January 2007

[3] this sample had detections of bromodichloromethane at 0.59 ppb and dibromochloromethane at 0.35 ppb,

[4] this sample in P-116 had 0.18 ppb of 1,1,1-trichloroethane

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compoun	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Con uctivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection R nge	0.2 to 1.5*	0.08to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
MW-101	2/1/2007									558	6.59	7.4
	5/1/2007									1021	6.92	13.1
	5/6/2008									782	7.18	12.4
	4/8/2009									940	6.75	12.5
	10/29/2009	<0.20	0.39	>2.5	>100	<0.2	0.015	-98	3.17	914	6.85	11.8
	5/25/2010	<0.20	0.08	>2.5	>100	<0.2	0.0192	-73	1.65	961	6.55	25.3
	10/4/2010	0.08			>100		0.0136	-63	2.13	1265	6.95	15.8
	1/26/2011			>2.5				-14	2.51	938	7.39	6.2
	4/11/2011									1020	7.48	14.1
	4/3/2012									960	7.10	13.0
MW-103	2/1/2007									2670	6.95	5.7
	5/2/2007									1180	6.64	10.8
	10/18/2007									1609	6.74	13.0
	5/5/2008									1420	7.06	12.2
	10/2/2008									1411	6.69	11.3
	4/7/2009									1433	7.17	10.3
	10/28/2009	<0.20	>0.80	0.42	>100	<0.2	0.00042	24	4.21	1720	6.79	10.7
	2/25/2010	>1.5	<0.08	<0.1	>100	<0.2	<0.0028	55	4.1	2	6.96	8.6
	5/24/2010	>1.5	<0.08	0.11	>100	<0.2	<0.0028	86	2.84	2110	6.49	17.7
	10/4/2010	>1.5			>100		0.0235	46	3.33	1920	7.22	12.9
	1/26/2011			0.09				62	4.52	1700	7.22	5.5
	4/11/2011			0.07				136	5.02	1217	6.79	13.8
	7/11/2011			0.13				33	3.54	1660	7.14	18.7
	10/19/2011			<0.1				171	4.01	1580	6.88	8.7
	1/24/2012			<0.1				144	3.28	1930	6.98	6.1
	4/3/2012			<0.1				98	3.25	2130	6.88	12.4
	7/25/2012			0.323				58	2.56	1950	6.71	21.4
	10/17/2012			<0.1				59	6.02	1690	6.96	12.7
	1/16/2013			<0.1				36	3.67	1730	7.00	6.6
	4/24/2013			0.394				41	3.29	1454	7.05	11.3
	10/24/2013			0.207				33	5.26	1356	7.10	7.9
MW-104	10/19/2011									1312	6.78	9.9
	4/3/2012									1134	6.90	12.3
	10/17/2012									1517	6.71	12.7
	4/24/2013									1396	6.87	12.2
MW-107	4/21/2003						0.13	185.70	21.27	1021	7.00	9.84
	4/22/2003				30			74.10	5.70	1024	7.06	10.32
	10/21/2003	3.3			32			79.30	5.80	1211	6.92	9.64
	5/1/2007									570	6.93	10.5
	10/17/2007									1297	7.09	13.1
	5/5/2008									796	7.54	11.5
	10/1/2008									1240	6.86	10.1
	4/7/2009									1226	7.50	10.2
	10/28/2009	>1.5	0.18	0.61	>100	<0.2	<0.000180	-1	5.78	956	7.13	11.6
	5/24/2010	>1.5	0.32	1.86	>100	0.71	<0.0028	61	3.08	1087	6.89	20.7
	10/4/2010	>1.5		0.7	49.95		ND	76	6.38	1650	7.62	10.6
	1/26/2011			0.85				45	4.74	249	7.35	6.0
	4/11/2011									1100	8.12	11.2
	10/18/2011									1225	7.51	10.1
	4/3/2012									983	7.50	11.5
	10/17/2012									1076	7.10	13.0
	4/24/2013									1144	7.34	11.0
MW-111	12/5/2002									866	7.15	7.84
	8/8/2007									920	7.45	11.4
	5/5/2008									732	7.45	11.9
	4/7/2009									867	7.22	10.8
	10/28/2009	>1.5	<0.08	0.26	>100	<0.2	0.00031	3	6.66	836	6.66	11.4
	5/24/2010	1.09	0.22	1.39	>100	0.44	<0.0028	71	2.73	958	6.80	22.7
	10/4/2010	0.99		0.02	>100		ND	85	4.87	995	7.72	9.6
	1/26/2011			0.25				26	4.56	849	7.28	7.6
	4/11/2011									900	7.94	11.2
	4/3/2012									846	7.60	11.7
MW-112	7/11/2011			>2.5				-51	1.49	951	7.34	16.5
	10/19/2011			>2.5				-46	1.12	907	7.01	8.9
	1/24/2012			>2.5				-26	1.32	1060	7.16	8.0
	4/3/2012			>2.5				-77	1.19	1210	6.96	11.7
	7/25/2012			>2.5				-75	1.37	1071	6.89	18.9
	10/17/2012			>2.5				-113	1.08	992	7.15	12.7
	1/16/2013			>2.5				-72	1.80	1003	7.10	7.9
	4/24/2013			>2.5				45	1.56	1052	7.11	12.1
	10/24/2013			>2.5				42	1.92	982	7.43	8.6
P-101	12/4/2002				50			-53.5	0.08	843	7.12	9.26
	4/22/2003				51			-36.9	0.81	646	7.46	10.12
	10/23/2003	<0.058			49			-65.5	0.66	754	7.04	10.20
	5/1/2007									828	7.57	11.7
	5/6/2008									735	7.69	11.3
	4/8/2009									749	7.24	11.4
	10/29/2009	0.39	0.12	1.84	71.36	<0.2	0.00059	-108	2.2	880	7.32	11.2
	5/25/2010	<0.20	<0.08	1.38	70.81	<0.2	<0.0028	-48	1.04	925	6.62	25.5
	10/4/2010	0.08			69.72		ND	-92	1.9	948	7.51	15.0
	1/26/2011			1.24				-31	2.65	829	7.26	5.8
	4/11/2011									840	7.96	12.8
	4/3/2012									776	7.40	11.6

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-103	12/4/2002				54		0.037	-60.50	1.17	956	7.00	9.49
	4/21/2003				58			-29.90	0.71	388	7.28	10.50
	10/22/2003	0.41			54			-147.10	0.82	874	7.17	10.06
	2/1/2007							172	0.53	903	6.86	9.0
	5/2/2007							206	0.92	896	6.78	9.9
	8/14/2007							226	0.70	863	7.09	11.4
	10/18/2007							300	0.51	863	6.35	11.0
	5/5/2008							30	0.93	956	6.98	10.5
	10/2/2008							323	1.37	888	6.70	10.8
	4/7/2009							-95	1.09	813	7.40	9.8
	10/28/2009	0.45	<0.08	<0.1	78.95	<0.2	0.052	-125	0.85	739	7.19	10.2
	2/25/2010	>1.5	NM	NM	83.29	<0.2	0.0416	-120	1.62	845	7.25	9.0
	5/24/2010	<0.20	<0.08	>2.5	89.8	<0.2	0.0489	-104	0.38	815	7.00	11.2
	10/5/2010	0.08			85.02		0.0562	-128	1.15	874	7.86	10.9
	1/25/2011			2.5				-69	0.64	776	7.60	9.3
	4/12/2011			>2.5				-125	1.22	906	7.19	10.0
	7/11/2011			>2.5				-123	0.83	743	7.92	11.5
	10/18/2011			>2.5				-76	1.60	737	7.38	10.3
	1/24/2012			>2.5				-47	0.65	878	7.27	9.0
	4/4/2012			2.489				-96	0.93	985	7.26	10.2
	7/25/2012			>2.5				-100	0.67	855	6.94	11.7
	10/17/2012			>2.5				-101	1.00	808	6.83	10.5
	1/16/2013			2.102				-123	0.51	824	7.15	9.3
	4/26/2013			>2.5				-86	0.59	790	7.45	10.4
	10/24/2013			>2.5				0	1.43	815	6.29	10.0
P-106	4/24/2013							-6	3.17	764	7.26	9.8
P-107	12/4/2002	NM	NM	NM	66		0.11	-28.00	0.86	791	7.22	9.40
	4/21/2003				74			37.30	0.76	646	7.43	9.62
	10/21/2003	<0058						-70.40	0.92	716	7.18	9.73
	5/1/2007							240	1.64	840	6.66	9.6
	10/19/2007							330	1.80	863	6.42	10.7
	5/5/2008							8	1.50	925	7.50	11.0
	10/1/2008							350	2.63	923	6.66	10.2
	4/7/2009							-95	1.75	852	7.34	9.0
	10/28/2009	<020	<0.08	1.68	89.8	<0.2	0.31	-78	1.19	778	7.08	10.9
	5/24/2010	<0.20	<0.08	1.76	99.39	<0.2	0.383	-70	1.12	869	6.92	13.2
	10/5/2010	0.06			88.68		0.345	-117	1.84	930	7.86	10.8
	1/24/2011			1.33				-28	1.82	838	6.73	7.8
	4/12/2011							-68	1.39	966	7.16	10.1
	10/18/2011							-49	1.50	796	7.34	10.4
	4/4/2012							-82	1.64	1051	7.26	10.2
	10/17/2012							-88	1.55	886	7.28	11.3
	4/26/2013							-76	2.16	860	7.53	10.8
P-111	12/5/2002				44			-88.30	-0.03	639	7.43	9.76
	4/22/2003				39			-74.20	0.67	486	7.71	12.06
	10/22/2003	<0.058			31			-94.00	0.75	566	7.53	9.87
	8/14/2007							118	0.35	580	7.46	11.1
	5/5/2008							65	0.35	614	7.72	10.5
	4/7/2009							-89	0.26	624	7.62	9.1
	10/28/2009	<0.20	<0.08	0.53	64.03	<0.2	0.0085	-140	0.48	616	7.57	10.1
	5/24/2010	<0.20	<0.08	0.61	70.99	<0.2	0.0051	-101	0.24	673	7.25	10.5
	10/5/2010	0.06			69.06		0.0065	-131	0.28	715	8.26	10.3
	1/24/2011			0.45				-98	0.58	632	7.35	9.1
	4/13/2011							-53	1.46	683	6.99	9.7
	4/4/2012							-104	0.60	832	7.53	9.9
MW-3B	12/5/2002				36			-87	-0.11	1248	6.57	9.84
	12/5/2002				36							
	4/22/2003				46			-92	0.37	815	7.18	9.86
	10/22/2003	<0.058			43			-161	0.55	662	7.45	9.79
	1/31/2007							140	0.51	710	7.27	8.2
	5/1/2007							125	1.32	703	6.99	9.5
	8/8/2007							-233	0.43	605	7.49	10.3
	10/19/2007							170	0.29	598	6.63	9.8
	5/6/2008							21	0.40	672	7.89	9.7
	10/1/2008							334	1.35	646	6.90	9.7
	4/7/2009							-116	0.20	604	7.48	8.8
	10/28/2009	<0.20	<0.08	0.72	37.68	<0.2	0.098	-230	0.35	567	7.65	9.4
	5/24/2010	<0.20	<0.08	0.78	50.67	<0.2	0.0275	-176	0.17	650	7.27	10.2
	10/5/2010	0.05		0.61	43.23		0.0159	-161	8.80	697	8.24	9.9
	1/24/2011			0.66				-109	0.44	614	6.90	8.4
	4/13/2011			0.84				-207	0.52	694	7.65	9.5
	7/12/2011			0.68				-195	0.96	591	7.54	9.9
	10/19/2011			0.71				-171	2.18	604	7.89	9.5
	1/23/2012			0.79				-110	0.28	734	7.37	8.7
	4/4/2012			0.861				-151	1.39	811	7.57	9.3
	7/25/2012			0.681				-231	0.39	693	7.65	11.6
	10/16/2012			0.72				-157	0.42	675	7.36	10.0
	1/15/2013			0.874				-233	1.60	702	7.62	8.9
	4/26/2013			0.85				-158	2.59	681	7.90	9.6
	7/2/2013			0.804				-91	0.35	707	7.34	9.9
	10/24/2013			0.774				-18	0.59	684	7.60	9.4
	1/9/2014			0.911				10	1.82	640	7.53	8.4

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-103D	5/2/2007							260	0.57	879	6.89	9.9
	10/18/2007							321	0.54	854	6.43	11.2
	5/5/2008							20	0.63	935	7.02	10.8
	10/2/2008							327	3.40	877	6.85	10.7
	4/7/2010							-110	0.45	808	7.61	10.0
	10/28/2009	<0.20	0.17	>2.5	76.38	<0.2	0.098	-146	0.52	746	7.30	10.2
	2/25/2010		<0.08	>2.5	78.05	<0.2	0.0747	-146	0.76	842	7.39	9.2
	5/24/2010	<0.20	<0.08	>2.5	88.88	<0.2	0.0303	-111	0.37	853	7.08	11.1
	10/5/2010	0.11			93.48		0.0659	-147	1.10	898	7.97	10.9
	1/25/2011			>2.5				-71	0.73	781	7.56	9.4
	4/12/2011			>2.5				-132	1.09	906	7.26	10.2
	7/11/2011			>2.5				-138	1.34	751	8.12	11.6
	10/18/2011			>2.5				-82	1.28	768	7.41	10.2
	1/24/2012			>2.5				-64	0.40	895	7.28	9.3
	4/4/2012			>2.5				-114	0.59	1004	7.36	10.2
	7/25/2012			>2.5				-109	0.78	846	6.75	11.4
	10/17/2012			>2.5				-115	1.74	835	7.13	10.4
	1/16/2013			1.715				-129	0.31	832	7.00	9.4
	4/26/2013			>2.5				-97	1.41	806	7.50	10.4
	7/2/2013			>2.5				6	0.57	839	6.56	10.7
	10/24/2013			>2.5				74	0.40	835	6.67	9.9
	1/9/2014			>2.5				62	2.03	754	6.91	8.9
P-111D	12/5/2002				62			-75.60	-0.02	910	7.32	9.75
	4/23/2003				64			-20.50	0.94	706	7.63	9.98
	10/23/2003	<0.058			65			-68.30	0.70	838	7.17	9.78
	1/31/2007							74	0.72	885	7.30	8.9
	5/1/2007							78	3.37	900	7.05	10.0
	8/8/2007							55	0.55	900	7.25	10.9
	10/19/2007							296	0.53	897	6.90	10.7
	5/6/2008							15	0.56	980	7.56	10.6
	10/1/2008							330	2.31	907	7.07	10.0
	4/7/2009							-97	1.98	821	7.52	9.3
	10/28/2009	<0.20	<0.08	1.79	60.63	<0.2	0.33	-171	0.46	764	7.51	10.0
	2/25/2010	0.43	<0.08	1.62	65.7	<0.2	0.123	-125	0.86	871	7.45	6.0
	5/24/2010	<0.20	<0.08	1.83	70.59	0.25	0.31/0.239 Dup	-136	0.24	840	7.21	10.7
	10/5/2010	0.08		1.75	61.2		0.269/0.222 Dup	-148	0.75	886	8.13	10.3
	1/24/2011			1.72				-101	0.77	801	6.83	8.9
	4/13/2011			1.89				-126	0.42	873	7.19	9.9
	7/11/2011			1.87				-178	0.88	759	7.37	11.0
	10/18/2011			1.57				-95	2.43	752	7.71	10.0
	1/23/2012			1.87				-68	0.33	898	7.31	9.3
	4/4/2012			1.693				-128	0.72	1009	7.50	10.0
	7/25/2012			1.227				-171	0.65	850	7.49	11.5
	10/17/2012			1.324				-131	0.51	838	7.56	10.5
	1/16/2013			0.339				-177	1.93	870	7.45	9.4
	4/26/2013			1.486				-114	1.16	838	7.71	10.5
	7/2/2013			1.505				-53	1.38	870	7.27	10.5
	10/24/2013			1.302				31	0.53	853	7.46	9.8
	1/9/2014			1.451				88	2.90	790	6.54	9.0
P-113B	12/3/2002				47			27.20	0.39	960	6.80	10.18
	4/23/2003				56			-54.30	1.05	715	7.22	10.13
	10/22/2003	<0.058			49			-125.40	0.46	616	7.42	10.13
	1/31/2007							109	0.40	620	7.33	8.8
	5/1/2007							113	1.03	625	7.03	10.2
	8/14/2007							110	0.28	618	7.28	11.1
	10/22/2007							252	0.53	629	6.70	10.3
	5/6/2008							-16	0.33	716	7.31	10.3
	10/2/2008							328	2.47	674	7.12	10.6
	4/6/2009							-122	0.40	627	7.54	9.2
	10/29/2009	<0.20	<0.08	0.83	70.14	<0.2	0.057	-187	0.42	579	7.33	10.3
	5/25/2010	<0.20	<0.08	1.19	80.11	<0.2	<0.0028	-145	0.17	646	7.26	10.9
	10/6/2010	0.1		0.98	75.55		ND	-183	0.35	685	8.09	11.0
	1/25/2011			0.9				-86	0.94	619	7.50	9.8
	4/13/2011			1.11				-164	1.11	675	7.44	10.2
	7/12/2011			0.99				-164	0.47	588	7.43	10.5
	10/19/2011			0.94				-118	0.50	588	7.71	10.2
	1/23/2012			0.99				-75	0.29	703	7.57	9.3
	4/4/2012			1.034				-104	0.72	783	7.08	9.7
	7/25/2012			0.947				-167	0.67	668	7.56	11.5
	10/16/2012			0.998				-117	0.43	655	7.51	11.0
	1/15/2013			1.06				-106	0.71	674	7.40	9.2
	4/26/2013			0.938				-125	0.78	651	7.84	10.3
	7/2/2013			1.081				-80	1.01	679	7.41	10.7
	10/24/2013			0.879				-96	1.29	675	7.20	10.6
	1/9/2014			0.955				-25	1.93	614	7.50	9.4
P-114 (Ehster)	12/3/2002				44					695	7.71	11.10
	4/23/2003				63			-117.00	0.85	669	7.71	10.00
	10/23/2003	<0.058			49			-125.10	0.54	1379	7.31	9.87
	2/1/2007							151	0.21	674	7.27	9.9
	5/1/2007							149	0.96	686	7.08	10.2
	8/8/2007							202	0.34	667	7.45	11.0
	10/22/2007							313	0.90	670	6.71	10.2
	5/6/2008							14	0.74	775	7.23	10.2
	10/2/2008							307	2.34	737	7.01	10.4
	4/6/2009							-76	0.45	687	7.58	9.5
	10/29/2009	0.22	<0.08	0.56	50.61	<0.2	0.28	-120	0.44	636	7.41	10.0
	2/26/2010	0.61	0.11	0.54	49.43	<0.2	0.285	-148	0.35	707	7.62	9.2
	5/26/2010	<0.20	0.15	0.6	57.47	<0.2	0.138/0.194 Dup	-129	0.66	703	7.27	10.4
	10/6/2010	0.11		0.72	57.18		0.186/0.224 Dup	-182	0.86	766	8.28	10.6
	1/25/2011			0.6				-58	0.42	679	7.60	9.3
	4/13/2011			0.65				-147	0.42	744	7.49	9.9
	7/12/2011			0.57				-134	1.95	646	7.48	10.5
	10/19/2011			0.62				-123	1.49	652	7.82	10.0
	1/23/2012			0.93				-78	0.35	785	7.60	9.1
	4/4/2012			0.598				-116	0.66	873	7.63	9.8
	7/25/2012			0.556				-200	0.40	748	7.63	11.0
	10/17/2012			0.757				-131	0.76	733	7.55	10.5
	1/16/2013			<0.1				-184	0.43	753	7.55	9.4
	4/26/2013			0.96				3	1.56	731	7.61	9.7
	7/2/2013			0.721				-88	0.34	766	7.47	10.5
	10/24/2013			0.726				-89	0.37	772	7.29	9.9
	1/9/2014			0.64				-21	1.18	694	7.58	9.2

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO_3^-	NO_2^-	Fe^{2+}	SO_4^{2-}	S^{2-}	CH_4					
	Detection Range	0.2 to 1.5*	0.08 to 0.8*	0.1 to 2.5*	8 to 100*	0.2 to 3*						
	Target	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-115 (former Wiese well)	2/1/2007							128	0.29	590	7.35	9.6
	5/1/2007							112	0.85	589	7.12	10.5
	8/14/2007							216	0.43	582	7.44	10.7
	10/22/2007							313	0.54	579	6.74	10.6
	5/6/2008							-16	0.48	690	7.27	10.7
	10/2/2008							315	2.44	654	6.89	10.7
	4/6/2009							-72	0.30	605	7.58	9.9
	10/29/2009	<0.20	<0.08	0.92	40.7	<0.2	0.044	-166	0.47	551	7.52	10.2
	2/26/2010	0.36	<0.08	1.48	43.65	<0.2	0.0579	-155	0.35	620	7.64	9.8
	5/26/2010	<0.20	<0.08	1.01	46.07	<0.2	0.049	-135	0.40	608	7.30	10.5
	10/6/2010	0.1		0.95	41.23		0.0562	-175	1.42	646	8.15	10.7
	1/25/2011			0.95				-78	0.42	572	7.68	9.8
	4/13/2011			1.05				-178	0.44	626	7.51	10.5
	7/12/2011			0.86				-143	1.74	546	7.47	10.6
	10/19/2011			0.82				-128	0.55	543	7.87	10.3
	1/23/2012			1.41				-78	0.34	647	7.53	9.6
	4/4/2012			0.894				-126	0.49	724	7.65	10.1
	7/25/2012			0.7				-223	0.39	619	7.72	11.3
	10/17/2012			0.797				-137	1.22	602	7.62	10.8
	1/16/2013			<0.1				-185	1.00	619	7.59	9.9
	4/26/2013			0.866				-30	1.20	597	7.75	10.2
	7/2/2013			0.911				-89	0.48	626	7.57	10.6
	10/24/2013			0.843				-80	0.51	631	7.48	10.2
	1/9/2014			<0.1				-15	1.69	567	7.71	9.7
P-116 (former Hadel well)	2/1/2007							171	0.38	528	7.34	8.8
	5/1/2007							142	0.59	528	7.09	10.5
	8/8/2007							202	0.42	523	7.53	12.1
	10/22/2007							301	0.59	522	6.75	10.8
	5/6/2008							38	0.71	603	7.18	12.3
	10/2/2008							295	2.70	559	7.04	11.2
	4/6/2009							-49	0.89	518	7.57	9.5
	10/29/2009	0.33	0.21	0.51	41.29	0.32	0.0031	-96	0.44	476	7.53	10.3
	2/26/2010	0.48	0.23	0.51	41.82	0.4	0.0042	-97	0.44	535	7.64	9.1
	5/25/2010	0.33	0.24	0.73	49.87	0.49	0.004	-75	0.33	530	7.30	12.2
	10/6/2010	0.45		0.92	58.53		0.0051	-106	0.55	567	8.20	12.1
	1/25/2011			0.45				37	0.56	506	7.76	9.0
	4/13/2011			0.51				-109	0.58	556	7.49	10.7
	7/12/2011			0.35				-91	1.42	485	7.50	11.9
	10/19/2011			0.37				-77	0.89	482	7.92	10.4
	1/23/2012			0.52				-21	0.38	576	7.64	8.8
	4/4/2012			0.353				-56	0.33	646	7.68	10.3
	7/25/2012			0.305				-150	0.31	546	7.64	12.7
	10/17/2012			0.351				-87	0.52	535	7.52	11.5
	1/15/2013			0.517				-187	0.95	549	7.65	9.1
	4/26/2013			0.257				99	0.52	528	7.51	9.9
	7/2/2013			0.336				-14	0.39	552	7.56	11.4
	10/24/2013			0.65				-14	0.46	542	7.95	10.3
	1/9/2014			<0.1				-9	1.19	495	7.88	8.9
MW-3A	12/5/2002				20			-312	0.03	589	7.30	9.79
	4/22/2003				26			3	0.66	464	7.52	10.22
	10/22/2003	<0058			14			-98	0.87	552	7.29	10.06
	1/31/2007							163	0.79	556	7.13	6.1
	5/1/2007							34	1.96	558	6.95	10.2
	8/8/2007							-144	0.74	549	7.32	12.4
	10/19/2007							201	1.07	551	6.51	10.5
	5/6/2008							13	0.33	630	7.55	9.8
	10/1/2008							297	7.35	591	6.89	9.8
	10/28/2009	<0.20	<0.08	0.51	14.67	<0.2	0.0073	-236	0.55	505	7.45	9.5
	5/24/2010	<020	0.04	0.49	22.35	0.21	0.0074	-227	0.55	561	7.13	12.5
	10/5/2010	0.05			15.33		0.0397	-204	1.51	600	8.20	11.3
	1/24/2011			0.19				-77	0.74	555	7.50	7.2
	4/13/2011			0.44				-240	1.14	589	7.42	10.8
	7/12/2011			0.19				-213	1.86	512	7.15	11.3
	10/19/2011			0.16				-175	1.25	511	7.76	9.7
	1/23/2012			<0.1				-34	0.70	606	7.09	8.0
	4/4/2012			0.217				-115	0.47	678	7.37	9.4
	7/25/2012			0.101				-265	0.67	584	7.50	13.5
	10/16/2012			<0.1				-175	1.33	564	7.01	10.7
	1/15/2013			0.144				-267	2.03	579	7.49	7.8
	4/26/2013			0.131				-171	1.38	560	7.77	10.2
	7/2/2013			0.127				-126	1.27	582	7.26	10.9
	10/24/2013			0.124				-140	1.27	582	7.07	9.3
	1/9/2014			<0.1				10	0.81	524	7.46	7.5
P-107D	12/4/2002				19					594	7.64	7.90
	4/21/2003				27					388	7.28	10.50
	10/21/2003	<0.058			19			51.40	1.25	528	7.34	10.05
	5/1/2007							113	3.20	583	6.96	12.4
	10/19/2007							261	1.10	581	6.56	10.0
	5/5/2008							61	1.07	653	7.55	10.6
	10/1/2008							354	4.48	607	6.89	10.4
	4/7/2009							-101	2.01	569	7.53	9.1
	10/28/2009	<0.20	<0.08	<0.1	23.84	<0.2	0.073	-188	0.45	528	7.48	10.1
	2/25/2010	0.51	<0.08	<0.1	23.57	<02	0.0613	-191	0.74	605	7.50	8.5
	5/24/2010	<0.20	<0.08	0.19	31.82	<0.2	0.163	-147	3.12	618	7.15	11.2
	10/5/2010	0.06		0.03	21.24		0.0737	-132	0.93	619	8.09	10.6
	1/24/2011			0.3				-59	0.79	564	6.62	9.0
	4/12/2011			0.11				-222	0.64	649	7.33	9.9
	7/11/2011			0.12				-211	1.32	2	8.16	11.7
	10/18/2011			0.11				-107	2.61	535	7.69	10.1
	1/23/2012			0.27				-45	0.69	634	7.45	8.9
	4/4/2012			0.235				-105	0.73	740	7.49	9.9
	7/25/2012			<0.1				-207	1.71	627	7.42	12.6
	10/17/2012			0.104				-168	2.13	589	7.53	10.9
	1/16/2013			<0.1				-214	2.30	609	7.46	8.8
	4/26/2013			0.276				-146	2.18	585	7.84	10.3
	7/2/2013			0.123				-75	1.92	606	7.15	11.6
	10/24/2013			0.205				-60	2.51	610	6.89	9.8
	1/9/2014			<0.1				55	2.60	561	7.24	8.0

Table 3. Groundwater Natural Attenuation Parameters
FF/NN Landfill, Ripon, WI

Well ID	Compound	Nitrate NO_3^-	Nitrite NO_2^-	Iron 2 Fe^{2+}	Sulfate SO_4^{2-}	Sulfide S^{2-}	Methane CH_4	ORP**	D ssolved Oxygen	Specific Conductivity	pH	Temperature
	Detection R nge	0.2to 1.5*	0.08to 0.8*	0.1 to2.5*	8 to 100*	0.2to3*						
	Tarect	>	<	<1	>20	<1	<0.5	>50	>0.5			
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l	uS/cm	Units	C
P-113A	12/3/2002				12			111.80	20.00	579	7.26	10.39
	4/23/2003				15			42.00	2.98	465	7.50	10.37
	10/22/2003	0.3			10			-62.60	2.23	576	7.30	10.17
	8/8/2007							-140	0.57	544	7.37	13.3
	5/6/2008							-88	0.55	620	7.22	10.4
	4/6/2009							-137	0.74	542	7.42	8.4
	10/29/2009	0.35	0.16	>2.5	31.67	0.37	0.27	-240	0.87	498	7.41	10.7
	5/25/2010	0.26	0.21	>2.5	44.79	0.39	0.169	-183	0.96	554	7.16	15.6
	10/6/2010	0.43			44.48		0.239	-196	0.89	591	7.98	12.8
	1/25/2011			1.09				-78	1.98	533	7.58	5.9
	4/13/2011			0.68				-202	1.13	578	7.46	12.8
	7/12/2011			1.44				-195	1.47	509	7.33	14.3
	10/19/2011			0.94				-141	0.92	509	7.71	10.6
	1/23/2012			0.77				-76	1.20	604	7.67	7.3
	4/4/2012			1.219				-125	0.64	673	7.40	9.9
	7/25/2012			0.893				-257	0.83	585	7.46	15.4
	10/16/2012			0.196				-73	3.31	559	7.36	13.1
	1/15/2013			0.473				-248	1.67	574	7.56	7.0
	4/26/2013			0.814				-120	1.64	555	7.66	11.8
	7/2/2013			0.516				-127	1.04	578	7.45	13.6
	10/24/2013			0.654				-43	0.91	567	7.66	11.6
	1/9/2014			0.582				0	1.72	521	7.49	6.4
Perry/Watk ns	10/29/2009	<0.20	<0.08	>2.5	15.18	<0.2	0.0098	-167	3.00	489	7.55	10.8
	2/26/2010	<020			16.34	0.42	0.0067	-159	1.57	549	7.70	8.6
	5/26/2010	<0.20	<0.08	1.7	24.6	<0.2	0.0082	-135	0.91	552	7.35	16.7
	10/6/2010	0.1			20.12		0.0081	-183	1.38	582	8.18	14.4
	1/28/2011								2.42		6.93	10.1
	4/18/2011									410	7.17	10.1
	4/3/2012									519	8.00	11.2
	4/26/2013									600	7.47	11.4
Gaastra	10/29/2009	<0.20	<0.08	0.98	16.04	<0.2	0.01	-163	0.27	490	7.56	10.3
	2/26/2010	<0.20			19.35	<0.2	0.0086	-146	1.22	584	7.45	10.7
	5/26/2010	<0.20	<0.08	2.44	27.28	0.22	0.0121	-156	0.52	553	7.28	17.3
	10/6/2010	0.11			22.65		0.0103	-201	1.14	597	8.22	15.0
	1/26/2011			2.34				33	1.24	552	7.37	7.9
	4/14/2011									620	6.88	13.8
	4/3/2012									538	7.80	11.3
	4/26/2013									585	7.54	11.4
Rohde	11/4/2009	<0.20	<0.08	0.36	19.88	<0.2	0.0011	-76	0.99	500	7.25	10.0
	2/25/2010	<020			21.03	<0.2	<0.0028	0	2.61	606	7.61	9.4
	5/26/2010	<0.20	<0.08	0.25	25.64	<0.2	<0.0028	7	1.19	635	6.42	18.53
	10/6/2010	0.08			26.48		ND	-117	1.91	612	8.08	13.7
	1/26/2011			0				116	3.83	571	7.56	7.36
	4/13/2011									550	6.85	7.5
	4/3/2012									528	7.5	11.5
	4/26/2013									581	7.63	12.7

indicates that sample was not analyzed for that parameter
* detection range only applies to samples collected on or after 10/2009
** ORP is believed to be incorrect from 2/2007 to 10/2008 due to equipment malfunction

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-1	11:31	3/20/2006	61.5	37.7	0.7	0.1	pre-startup
	10:02	3/22/2006	43.6	26.3	6.4	23.7	
	15:32	3/22/2006	56.0	33.3	3.8	6.9	
	8:29	3/23/2006	50.1	29.5	4.3	16.1	
	16:35	3/23/2006	44.2	24.6	4.9	26.3	
	15:40	3/24/2006	18.8	11.8	15.9	53.5	
	14:25	3/28/2006	7.0	8.7	10.8	73.5	
	18:58	3/30/2006	15.8	21.0	6.9	56.3	
	13:50	4/5/2006	11.2	17.1	9.8	61.9	
	12:50	4/6/2006	6.2	9.0	13.9	70.9	
	13:10	4/11/2006	9.6	16.7	8.6	65.1	
	10:45	4/14/2006	11.2	17.9	7.2	63.7	
	15:26	4/14/2006	12.2	24.1	4.0	59.7	
	9:58	4/17/2006	16.7	30.2	5.3	47.8	
	19:12	4/27/2006	7.8	17.5	2.9	71.8	
	13:12	5/4/2006	6.1	18.7	2.0	73.2	
	10:17	5/22/2006	5.8	21.6	1.3	71.3	
	12:20	6/2/2006	18.0	22.7	0.6	58.7	
	8:20	6/9/2006	1.1	0.2	20.4	78.3	
	12:34	6/14/2006	3.9	0.6	20.2	75.3	
	10:41	6/22/2006	3.3	7.6	13.8	75.3	
	12:06	7/5/2006	3.7	12.5	10.1	73.7	
	11:31	7/10/2006	3.5	10.9	11.8	73.8	
	10:49	7/17/2006	3.9	10.7	11.8	73.6	
	14:00	7/28/2006	5.0	12.0	10.2	72.8	
	9:46	8/8/2006	2.7	9.5	12.9	74.9	
	7:20	8/16/2006	2.4	6.6	14.5	76.5	
	7:12	8/21/2006	0.1	0.2	15.1	84.6	
	14:07	8/28/2006	2.1	12.5	12.4	73.0	
	11:21	9/13/2006	0.6	0.6	13.3	85.5	
	11:19	9/25/2006	0.0	0.0	16.2	83.8	
	8:18	10/10/2006	2.7	8.4	14.8	74.1	
	8:19	10/23/2006	2.0	1.5	12.8	83.7	
	14:00	11/2/2006	3.8	21.6	1.7	72.9	
	14:54	11/14/2006	7.5	23.0	0.7	68.8	
	11:26	11/27/2006	5.5	23.0	0.4	71.1	
	12:57	12/26/2006	5.0	23.6	0.3	71.1	
	13:57	1/27/2007	9.5	22.8	0.3	67.4	
	11:20	2/24/2007	6.5	23.0	0.8	69.7	
	11:20	3/1/2007	17.5	23.2	1.8	57.5	
	12:28	3/1/2007	16.5	23.2	1.8	58.5	
	14:30	3/1/2007	15.5	22.8	1.6	60.1	
	8:10	3/5/2007	sampling port clogged with ice				adjust blower time, 12 on, 12 off
	8:10	3/24/2007	15.5	23.0	1.8	59.7	
	16:55	3/24/2007	14.0	22.2	2.2	61.6	
	17:10	3/26/2007	11.0	21.6	2.2	65.2	
	7:28	3/27/2007	10.0	22.4	1.7	65.9	
	16:27	3/28/2007	11.0	22.8	1.5	64.7	
	8:04	3/29/2007	11.5	23.0	1.5	64.0	
	17:00	3/29/2007	11.0	22.8	1.5	64.7	
	8:04	3/30/2007	13.0	24.0	1.0	62.0	blower off
	11:34	5/30/2007	43.0	28.0	2.0	27.0	restart and run 24 hrs
	13:35	5/30/2007	40.0	26.2	2.6	31.2	
	10:30	5/31/2007	0.1	0.0	20.7	79.2	reduce to 12 on 12 off
	16:32	6/1/2007	0.1	0.0	20.7	79.2	
	15:30	6/2/2007	20.0	22.8	1.7	55.5	
	16:09	6/3/2007	18.0	22.2	1.9	57.9	
	14:12	6/4/2007	16.5	21.8	2.2	59.5	reduce to 6 on 18 off
	15:10	6/7/2007	17.0	21.6	2.3	59.1	
	17:16	6/12/2007	10.5	21.0	2.1	66.4	
	14:49	6/14/2007	11.0	20.8	2.2	66.0	
	14:40	6/19/2007	10.5	21.0	2.2	66.3	
	14:40	6/21/2007	11.0	21.2	2.0	65.8	
	14:30	7/11/2007	11.5	21.4	2.0	65.1	
	14:00	7/23/2007	12.0	21.8	2.0	64.2	
	14:07	8/8/2007	12.0	21.6	2.2	64.2	
	13:30	8/13/2007	13.5	22.8	2.2	61.5	
	14:10	8/20/2007	10.0	21.4	2.8	65.8	
	14:25	8/28/2007	8.5	20.8	2.7	68.0	
	15:55	8/31/2007	5.5	18.2	4.2	72.1	
	14:55	9/4/2007	4.5	17.2	4.1	74.3	
	13:25	9/17/2007	3.2	15.4	5.1	76.4	
	9:50	9/29/2007	3.0	15.2	5.6	76.2	
	8:45	10/4/2007	3.1	15.2	5.6	76.1	
	9:45	10/7/2007	3.7	15.6	4.8	75.9	
	9:50	10/18/2007	6.0	17.0	3.6	73.4	
	9:00	10/25/2007	5.0	17.2	3.8	74.0	
	9:20	11/1/2007	6.0	18.6	2.2	73.2	
	10:25	11/13/2007	11.5	18.6	3.4	66.5	
	11:30	11/26/2007	4.8	16.2	4.8	74.3	
	11:00	12/10/2007	5.0	16.0	5.4	73.6	
	11:50	12/26/2007	5.5	16.6	4.3	73.6	
	10:15	1/9/2008	6.0	17.0	3.7	73.3	
	12:10	1/23/2008	5.0	15.8	5.2	74.0	
	9:20	2/4/2008	8.0	17.4	3.3	71.3	
	7:50	2/18/2008	12.0	17.6	3.8	66.6	
	7:30	3/4/2008	20.0	18.0	6.0	56.0	
	8:50	3/18/2008	23.0	19.8	3.9	53.3	
	14:30	5/12/2008	14.5	21.0	1.5	63.0	
	9:15	5/19/2008	4.4	17.4	2.4	75.9	
	13:50	5/30/2008	6.5	18.2	1.2	74.1	
	9:20	6/12/2008	3.8	19.0	2.6	74.6	
	9:20	6/25/2008	9.5	21.6	0.5	68.4	
	11:10	7/7/2008	6.0	19.4	1.3	73.3	opened GV-6 to 200 ft/min
	12:25	7/21/2008	6.5	20.6	1.1	71.8	
	9:50	8/5/2008	7.0	20.2	1.7	71.1	
	9:10	8/13/2008	12.5	23.2	0.1	64.2	increase to 12 on 12 off
	8:45	8/19/2008	8.0	21.2	2.2	68.6	
	14:15	9/2/2008	6.5	20.6	1.1	71.8	
	11:41	10/3/2008	8.0	21.6	0.8	69.6	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-1	10:40	10/13/2008	9.0	22.4	0.6	68.0	
	9:15	10/28/2008	9.0	23.4	0.0	67.6	
	7:40	11/6/2008	10.5	22.2	0.6	66.7	
	10:25	12/8/2008	7.0	21.4	1.4	70.2	
	10:20	12/24/2008	6.0	20.4	1.2	72.4	decrease to 10 on
	12:00	1/8/2008	5.0	15.4	2.4	77.2	
	11:25	1/18/2009	8.5	23.0	0.3	68.2	
	7:40	1/27/2009	5.0	18.0	4.9	72.1	
	8:40	2/6/2009	4.8	16.4	5.2	73.7	
	11:00	2/23/2009	3.9	17.4	4.5	74.3	decrease to 8 on
	10:20	3/9/2009	8.0	21.2	0.1	70.7	
	10:20	3/20/2009	10.0	21.8	0.6	67.6	
	11:46	4/9/2009	13.0	22.2	0.2	64.6	
	10:45	4/19/2009	5.6	18.2	2.1	74.1	
	8:05	5/4/2009	8.5	16.2	5.5	69.8	
	8:40	5/18/2009	4.3	17.6	3.4	74.8	
	9:35	6/1/2009	7.0	15.4	5.2	72.4	
	9:00	6/14/2009	5.0	18.8	1.5	74.7	
	8:45	7/2/2009	13.5	21.2	1.6	63.7	
	7:30	7/13/2009	7.0	12.6	8.6	71.8	
	8:20	7/22/2009	5.0	20.4	1.3	73.3	
	8:50	8/11/2009	4.6	17.4	4.1	74.0	
	8:45	8/24/2009	4.3	16.8	4.5	74.5	decrease to 6 on 18 off
	9:25	9/8/2009	10.0	21.6	0.6	67.8	
	9:20	9/21/2009	15.0	23.8	0.0	61.2	
	10:15	10/5/2009	15.0	23.8	0.1	61.1	
	11:00	10/28/2009	16.0	23.2	1.3	59.5	
	10:50	11/16/2009	7.5	21.8	0.8	69.9	
	10:00	12/18/2009	24.0	23.8	0.0	52.2	
	9:10	12/28/2009	27.0	27.0	0.0	46.0	
	9:50	1/11/2010	24.0	26.0	0.0	50.0	
	8:30	1/26/2010	26.0	26.0	0.0	48.0	
	12:00	2/25/2010	19.5	24.6	0.0	55.9	
	9:50	3/8/2010	20.0	24.0	0.0	56.0	
	9:25	3/22/2010	18.0	23.0	0.0	59.0	
	9:28	4/5/2010	17.0	23.0	0.0	60.0	
	9:18	4/19/2010	16.5	23	0	60.5	
	9:22	5/3/2010	20.0	23.6	0.0	56.4	
	9:47	5/17/2010	20.0	24.0	0.0	56.0	
	9:10	5/25/2010	10.5	22.8	0.0	66.7	
	9:15	6/24/2010	13.0	21.0	1.4	64.6	
	10:15	7/6/2010	6.0	20.4	1.5	72.1	
	9:08	7/19/2010	7.0	19.6	3.0	70.4	
	9:00	8/2/2010	6.5	19.4	2.2	71.9	
	9:50	8/16/2010	12.5	21.6	1.1	64.8	
	8:52	8/30/2010	21.0	24.2	0.7	54.1	
	9:08	9/13/2010	26.5	25.2	1.1	47.2	
	9:40	9/28/2010	29.5	26.0	1.1	43.4	
	8:05	10/12/2010	24.5	25.2	1.7	48.6	
	9:22	10/25/2010	24.5	25.4	1.1	49.0	
	9:36	11/2/2010	16.0	24.2	1.5	58.3	
	8:49	11/15/2010	15.5	23.4	1.5	59.6	
	9:45	12/10/2010	14.0	22.8	1.5	61.7	
	9:00	12/23/2010	15.5	22.6	1.6	60.3	
	9:18	1/10/2011	11.5	22.2	1.6	64.7	
	12:15	2/11/2011	34.0	24.6	1.7	39.7	
	9:20	3/7/2011	4.9	15.2	6.5	73.5	
	11:50	3/24/2011	19.5	22.2	0.7	57.6	
	8:55	4/6/2011	22.9	23.4	0.3	53.4	
	8:19	4/25/2011	23.5	23.0	0.6	52.9	
	8:52	5/9/2011	34.5	24.6	0.3	40.6	
	9:12	5/23/2011	38.0	25.4	0.3	36.3	
	10:50	6/6/2011	40.0	26.0	0.3	33.7	
	9:08	6/15/2011	41.5	26.2	0.3	32.0	
	9:15	7/5/2011	35.5	26.0	0.3	38.2	
	8:06	7/13/2011	31.0	26.0	0.2	42.8	
	8:20	7/26/2011	32.0	26.6	0.3	41.1	
	8:15	8/8/2011	19.0	24.1	0.3	56.6	
	7:50	8/23/2011	16.0	24.4	0.3	59.3	
	15:19	9/9/2011	28.5	28.0	0.5	43.0	
	16:03	9/15/2011	15.0	25.2	0.8	59.0	
	8:31	9/21/2011	17.5	22.8	2.6	57.1	
	9:38	9/21/2011	14.5	21.5	3.2	60.8	
	9:29	9/22/2011	17.5	24.4	1.6	56.5	
	10:11	9/22/2011	16.0	22.2	3.3	58.5	
	10:57	9/22/2011	16.0	24.2	1.6	58.2	
	10:46	10/3/2011	7.5	21.2	2.4	68.9	
	13:55	10/24/2011	11.0	23.0	1.0	65.0	
	11:00	10/26/2011	12.0	23.6	1.3	63.1	
	10:45	11/7/2011	10.5	23.4	0.5	65.6	
	9:20	11/14/2011	14.5	24.0	0.1	61.4	
	9:18	12/12/2011	12.7	24.2	0.2	62.9	
	10:24	12/27/2011	36.5	27.2	0.2	36.1	
	8:45	1/10/2012	24.5	25.4	0.1	50.0	
	10:10	1/25/2012	26.0	27.2	0.3	46.5	
	9:20	2/20/2012	32.5	26.6	0.6	40.3	
	9:10	3/8/2012	30.5	25.4	1.8	42.3	
	10:25	4/2/2012	24.0	25.2	0.9	49.9	
	9:09	4/16/2012	26.5	25.4	0.9	47.2	
	9:00	4/30/2012	16.5	23.0	1.5	59.0	
	9:21	5/14/2012	18.0	22.8	1.7	57.5	
	9:14	5/29/2012	24.5	24.6	1.1	49.8	
	7:57	6/11/2012	27.5	25.4	0.9	46.2	
	9:46	6/25/2012	24.5	25.2	1.0	49.3	
	9:05	7/9/2012	23.0	25.4	0.9	50.7	
	8:40	7/23/2012	7.0	20.2	2.2	70.6	
	8:21	7/25/2012	8.0	20.8	2.0	69.2	
	9:05	8/6/2012	8.0	21.4	1.7	68.9	
	9:31	8/21/2012	9.5	21.6	1.3	67.6	
	9:15	9/4/2012	7.0	19.8	2.0	71.2	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-1	9:10	10/1/2012	6.0	18.2	4.2	71.6	
	8:30	10/15/2012	4.5	11.4	9.2	75.0	
	7:55	12/6/2012	13.0	21.0	1.3	64.7	
	9:30	12/17/2012	17.0	21.2	0.8	61.0	
	9:00	12/31/2012	24.5	23.6	1.1	50.8	
	8:30	1/9/2013	29.5	24.0	1.1	45.4	
	8:05	1/15/2013	30.0	24.6	0.0	45.4	
	9:11	1/28/2013	27.0	23.4	0.6	49.0	
	10:55	2/11/2013	41.0	27.0	0.0	32.0	
	9:22	2/25/2013	44.5	26.0	0.0	29.5	
	7:40	3/8/2013	48.0	26.4	0.1	25.5	
	8:55	3/22/2013	50.5	26.0	0.1	23.4	
	14:00	4/8/2013	32.0	24.8	0.3	42.9	
	15:20	4/22/2013	12.0	21.6	0.4	66.0	
	9:39	4/29/2013	11.0	20.4	0.1	68.5	
	8:34	5/13/2013	8.0	20.0	0.7	71.3	
	13:40	5/28/2013	9.5	19.4	0.9	70.2	
	8:50	6/7/2013	8.5	19.4	1.1	71.0	
	8:17	6/21/2013	8.0	18.8	1.5	71.7	
	8:50	7/5/2013	7.0	18.8	1.5	72.7	
	7:52	7/22/2013	8.0	19.4	1.6	71.0	
	8:55	8/5/2013	9.5	20.0	1.7	68.8	
	8:24	8/19/2013	11.0	20.2	1.7	67.1	
	8:35	9/5/2013	4.4	8.6	12.6	74.5	
	8:48	9/16/2013	5.0	7.6	14.0	73.4	
	7:40	9/30/2013	14.0	13.4	9.5	63.1	
	7:38	10/14/2013	21.5	17.8	7.5	53.2	
	7:42	10/28/2013	23.5	16.2	9.0	51.3	
	8:10	11/19/2013	34.0	22.2	6.1	37.7	
	7:35	12/2/2013	38.0	23.8	5.0	33.2	
	7:15	12/16/2013	19.0	12.6	12.2	56.2	
	7:06	12/27/2013	48.5	28.0	2.9	20.6	
	7:08	1/13/2014	54.5	28.6	0.7	16.2	
	7:20	1/30/2014	50.0	28.6	0.9	20.5	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	11:09	3/20/2006	61.9	36.8	1.0	0.3	pre-startup
	9:52	3/22/2006	50.2	28.3	4.9	16.6	
	15:51	3/22/2006	49.9	35.2	7.4	7.5	
	8:52	3/23/2006	45.2	27.1	6.8	20.9	
	16:52	3/23/2006	54.3	32.5	3.5	9.7	
	15:20	3/24/2006	25.5	14.8	15.3	44.4	
	15:10	3/28/2006	18.7	12.0	13.5	55.8	
	19:09	3/30/2006	52.6	28.7	3.7	15.0	
	13:45	4/5/2006	35.5	20.5	8.2	35.8	
	13:25	4/6/2006	33.4	21.0	9.1	36.5	
	13:35	4/11/2006	33.4	21.7	9.9	35.0	
	10:57	4/14/2006	58.5	39.5	2.0	0.0	
	15:56	4/14/2006	33.6	20.0	7.9	38.5	
	10:20	4/17/2006	30.0	20.0	4.3	45.7	
	19:59	4/27/2006	51.7	26.8	4.2	17.3	
	13:28	5/4/2006	43.6	24.8	4.2	27.4	
	12:00	5/22/2006	48.8	28.9	4.3	18.0	
	8:41	6/9/2006	34.2	20.0	10.5	35.3	
	13:05	6/14/2006	30.1	20.2	8.3	41.4	
	11:05	6/22/2006	45.1	35.4	5.1	14.4	
	12:09	7/5/2006	44.4	44.5	5.8	5.3	
	10:50	7/10/2006	0.1	0.2	5.4	94.3	
	10:15	7/17/2006	42.7	32.7	5.8	18.8	
	14:15	7/28/2006	43.6	33.4	4.7	18.3	
	9:51	8/8/2006	45.4	36.2	4.1	14.3	
	9:30	8/16/2006	31.2	24.6	8.6	35.6	
	8:38	8/21/2006	2.4	10.2	3.7	83.7	
	14:22	8/28/2006	20.0	36.2	4.2	39.6	
	11:36	9/13/2006	28.2	37.0	4.0	30.8	
	11:34	9/25/2006	2.4	0.8	5.9	90.9	
	8:32	10/10/2006	49.8	41.7	5.1	3.4	
	8:42	10/23/2006	37.8	29.5	7.6	25.1	
	14:20	11/2/2006	42.5	28.4	3.6	25.5	
	15:16	11/14/2006	39.5	28.2	3.5	28.8	
	11:40	11/27/2006	48.5	33.2	0.3	18.0	
	13:30	12/26/2006	44.0	29.4	2.6	24.0	
	14:10	1/27/2007	44.5	27.6	3.1	24.8	
	11:28	2/24/2007	9.0	0.2	20.5	70.3	
	11:02	3/1/2007	37.2	28.2	1.5	33.1	
	12:26	3/1/2007	36.0	29.0	1.5	33.5	
	14:45	3/1/2007	33.0	27.6	2.1	37.3	
	8:05	3/5/2007	1.1	1.0	19.7	78.3	adjust blower time, 12 on, 12 off
	8:00	3/24/2007	36.0	28.4	1.2	34.4	
	16:45	3/24/2007	36.0	28.0	1.0	35.0	
	17:00	3/26/2007	33.5	27.4	0.9	38.2	
	7:19	3/27/2007	33.5	27.4	1.0	38.1	
	16:35	3/28/2007	36.0	28.2	0.9	34.9	
	7:50	3/29/2007	36.5	28.6	0.8	34.1	
	16:52	3/29/2007	35.5	28.2	0.7	35.6	
	7:56	3/30/2007	11.5	11.0	11.5	66.0	blower off
LC-2	11:45	5/30/2007	44.5	27.4	1.9	26.2	restart and run 24 hrs
	13:45	5/30/2007	46.0	28.2	1.5	24.3	
	10:20	5/31/2007	40.0	26.0	1.3	32.7	reduce to 12 on 12 off
	16:25	6/1/2007	40.5	25.4	1.4	32.7	
	15:20	6/2/2007	40.5	25.4	1.2	32.9	
	16:00	6/3/2007	39.5	25.2	1.4	33.9	
	14:04	6/4/2007	39.5	25.2	1.5	33.8	reduce to 6 on 18 off
	14:43	6/7/2007	39.5	25.0	1.4	34.1	
	16:46	6/12/2007	40.5	25.6	1.2	32.7	
	14:20	6/14/2007	40.5	25.4	1.2	32.9	
	13:55	6/19/2007	39.5	25.8	1.2	33.5	
	14:00	6/21/2007	39.5	25.4	1.5	33.6	
	13:50	7/11/2007	38.0	25.8	1.5	34.7	
	13:30	7/23/2007	38.5	26.6	1.4	33.5	
	14:17	8/8/2007	38.5	27.8	1.2	32.5	
	14:00	8/13/2007	38.5	28.2	1.5	31.8	
	13:20	8/20/2007	34.5	25.2	3.1	37.2	
	13:45	8/28/2007	36.5	27.8	1.3	34.4	
	15:30	8/31/2007	30.0	26.0	2.5	41.5	
	14:25	9/4/2007	26.0	26.0	2.0	46.0	
	12:55	9/17/2007	17.5	23.6	3.2	55.7	
	9:15	9/29/2007	17.5	23.8	2.9	55.8	
	8:15	10/4/2007	18.5	25.0	1.8	54.7	
	9:15	10/7/2007	19.0	25.2	1.7	54.1	
	9:30	10/18/2007	17.5	21.4	4.2	56.9	
	8:35	10/25/2007	23.0	25.2	2.3	49.5	
	8:50	11/1/2007	26.5	27.0	1.0	45.5	
	9:55	11/13/2007	28.0	25.8	1.8	44.4	
	11:05	11/26/2007	27.0	25.4	2.0	45.6	
	10:30	12/10/2007	26.0	25.8	2.1	46.1	
	11:15	12/26/2007	26.0	25.0	2.0	47.0	
	9:40	1/9/2008	24.5	21.6	4.7	49.2	
	11:58	1/23/2008	19.0	18.2	7.4	55.4	
	8:50	2/4/2008	17.0	15.4	9.4	58.2	
	7:20	2/18/2008	25.5	20.4	6.3	47.8	
	7:15	3/4/2008	30.5	21.2	7.1	41.2	
	8:25	3/18/2008	32.5	22.6	5.5	39.4	
	13:45	5/12/2008	43.0	25.8	2.5	28.7	
	8:45	5/19/2008	41.0	26.0	2.0	31.0	
	13:20	5/30/2008	31.0	23.6	3.2	42.2	
	8:35	6/12/2008	35.5	20.0	1.3	43.2	
	8:45	6/25/2008	33.0	24.8	3.6	38.6	
	10:45	7/7/2008	32.0	27.0	1.7	39.3	opened GV-6 to 200 ft/min
	12:20	7/21/2008	34.5	28.2	1.5	35.8	
	10:00	8/5/2008	34.5	27.6	2.1	35.8	
	9:20	8/13/2008	36.5	27.8	2.8	32.9	increase to 12 on 12 off
	9:05	8/19/2008	40.0	29.6	0.4	30.0	
	14:40	9/2/2008	34.0	29.6	1.3	35.1	
	11:49	10/3/2008	34.5	29.4	1.8	34.3	
	10:25	10/13/2008	36.5	29.8	1.7	32.0	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:35	10/28/2008	38.5	30.2	2.4	28.9	
	8:00	11/6/2008	39.0	30.4	1.5	29.1	
	10:55	12/8/2008	41.5	32.2	1.2	25.1	
	9:50	12/24/2008	23.0	20.8	7.0	49.2	decrease to 10 on
	11:20	1/8/2009	25.0	23.4	5.1	46.5	
	11:35	1/18/2009	13.5	19.8	5.5	61.2	
	7:45	1/27/2009	35.5	31.0	0.7	32.8	
	8:15	2/6/2009	26.5	25.2	3.5	44.8	
	10:15	2/23/2009	23.5	25.8	2.0	48.7	decrease to 8 on
	9:50	3/9/2009	23.0	23.8	3.7	49.5	
	9:40	3/20/2009	29.5	28.6	0.5	41.4	
	12:25	4/9/2009	47.0	18.6	2.0	32.4	
	10:15	4/19/2009	35.0	28.2	0.3	36.5	
	8:15	5/4/2009	29.0	27.8	0.3	42.9	
	8:30	5/18/2009	27.5	28.2	0.0	44.3	
	9:45	6/1/2009	23.0	26.8	0.0	50.2	
	9:20	6/14/2009	23.5	27.6	0.0	48.9	
	9:00	7/2/2009	26.5	26.0	1.3	46.2	
	7:45	7/13/2009	32.0	28.6	0.0	39.4	
	8:30	7/22/2009	33.9	28.6	0.0	37.5	
	9:10	8/11/2009	31.0	29.0	0.0	40.0	
	9:00	8/24/2009	27.5	29.0	0.0	43.5	decrease to 6 on 18 off
	9:45	9/8/2009	30.5	29.6	0.0	39.9	
	9:38	9/21/2009	30.5	27.0	1.5	41.0	
	10:40	10/5/2009	38.5	30.8	0.0	30.7	
	10:50	10/28/2009	43.5	31.8	0.0	24.7	
	11:15	11/16/2009	40.0	30.6	0.6	28.8	
	9:50	12/18/2009	44.5	33.0	0.1	22.4	
	8:50	12/28/2009	49.0	33.2	0.0	17.8	
	9:00	1/11/2010	50.0	33.4	0.0	16.6	
	8:39	1/26/2010	55.5	33.6	0.0	10.9	
	11:50	2/25/2010	45.0	27.8	3.3	23.9	
	9:40	3/8/2010	53.5	31.8	0.0	14.7	
	9:10	3/22/2010	52.5	30.8	0.4	16.3	
	9:15	4/5/2010	52.5	30.8	0.2	16.5	
	9:30	4/19/2010	53.5	31.0	0.3	16.5	
	9:30	5/3/2010	52.5	30.8	0.0	16.7	
	10:10	5/17/2010	51.5	30.6	0.4	17.5	
	9:10	5/25/2010	50.0	30.8	0.2	19.0	
	9:30	6/24/2010	41.0	27.8	1.6	29.6	
	10:30	7/6/2010	37.5	27.8	1.6	33.1	
	9:18	7/19/2010	34.5	27.4	1.7	36.4	
	9:20	8/2/2010	32.0	27.4	1.7	38.9	
	10:05	8/16/2010	35.0	29.0	1.1	34.9	
	9:10	8/30/2010	39.5	30.4	0.0	30.1	
	9:26	9/13/2010	41.5	30.6	1.1	26.8	
	10:00	9/28/2010	44.5	31.0	1.1	23.4	
	8:12	10/12/2010	44.5	31.0	1.8	22.7	
	9:37	10/25/2010	48.0	32.2	1.3	18.5	
	9:36	11/2/2010	50.0	32.6	1.6	15.8	
LC-2	9:15	11/15/2010	48.0	32.4	1.6	18.0	
	9:55	12/10/2010	44.5	32.2	1.6	21.7	
	9:15	12/23/2010	43.5	32.6	1.6	22.3	
	9:30	1/10/2011	43	31.4	2.3	23.3	
	11:45	2/11/2011	52.0	30.8	1.5	15.7	
	9:30	2/22/2011	12.0	8.4	15.1	64.5	
	9:05	3/7/2011	13.0	9.2	14.5	63.3	
	12:10	3/24/2011	47.5	31.0	0.4	21.1	
	9:15	4/6/2011	49.5	30.8	0.3	19.4	
	8:08	4/25/2011	51.0	29.4	1.3	18.3	
	9:08	5/9/2011	53.5	29.8	0.6	16.1	
	9:31	5/23/2011	46.0	25.8	3.3	24.9	
	11:05	6/6/2011	57.0	30.0	0.6	12.4	
	9:21	6/15/2011	58.0	30.6	0.7	10.7	
	9:30	7/5/2011	60.5	30.2	0.8	8.5	
	8:10	7/13/2011	57.0	28.4	2.0	12.6	
	8:30	7/26/2011	63.5	30.6	0.6	5.3	
	8:30	8/8/2011	60.5	31.4	0.6	7.5	
	8:10	8/23/2011	57.5	31.8	0.7	10	
	15:15	9/9/2011	60.0	33.2	0.9	5.9	
	16:03	9/15/2011	62.0	33.6	1.1	3.3	
	8:40	9/21/2011	58.0	32.4	1.5	8.1	
	9:45	9/21/2011	60.0	34.2	0.8	5	
	9:35	9/22/2011	53.0	31.2	2.7	13.1	
	10:15	9/22/2011	60.0	34.0	1.1	4.9	
	11:04	9/22/2011	53.5	30.2	3.0	13.3	
	10:53	10/3/2011	47.0	33.2	1.1	18.7	
	14:00	10/24/2011	23.0	21.4	4.6	51	
	12:08	10/26/2011	51.8	34.8	0.6	12.8	
	10:59	11/7/2011	44.5	33.8	0.5	21.2	
	9:35	11/14/2011	46.0	33.8	0.2	20	
	9:30	12/12/2011	49.5	34.8	0.3	15.4	
	10:41	12/27/2011	49.0	34.0	0.2	16.8	
	9:00	1/10/2012	52.0	34.4	0.1	13.5	
	10:00	1/25/2012	48.0	34.8	0.4	16.8	
	9:35	2/20/2012	54.5	33.6	0.0	11.9	
	9:30	3/8/2012	53.5	31.6	1.0	13.9	
	10:30	4/2/2012	54.5	31.2	1.1	13.2	
	9:25	4/16/2012	43.0	25.4	4.4	27.2	
	9:30	4/30/2012	47.5	28.2	2.6	21.7	
	9:35	5/14/2012	48.0	28.2	2.4	21.4	
	9:30	5/29/2012	49.5	29.0	1.9	19.6	
	8:04	6/11/2012	51.0	29.2	4.7	15.1	
	9:59	6/25/2012	53.0	29.6	1.5	15.9	
	9:15	7/9/2012	50.5	28.6	2.2	18.7	
	8:55	7/23/2012	43.5	29.2	1.9	25.4	
	8:15	7/25/2012	44.0	29.4	2.0	24.6	
	9:21	8/6/2012	43.0	30.2	1.5	25.3	
	9:50	8/21/2012	40.0	30.0	1.6	28.4	
	9:30	9/4/2012	36.0	29.4	1.9	32.7	
	10:00	10/1/2012	29.5	27.6	2.6	40.3	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	8:48	10/15/2012	16.0	15.8	9.7	58.5	
	8:05	12/6/2012	8.5	6.6	17.8	67.1	Using rental meter
	9:15	12/17/2012	7.2	10.0	14.9	67.9	Using rental meter
	9:20	12/31/2012	8.0	6.6	16.4	69	Using rental meter
	8:30	1/9/2013	40.0	27.0	1.9	31.1	
	10:05	1/16/2013	42.0	29.0	1.2	27.8	
	9:30	1/28/2013	57.5	33.8	0.2	8.5	
	11:00	2/11/2013	59.0	35.0	0.6	5.4	
	9:42	2/25/2013	53.5	31.0	2.6	12.9	
	8:00	3/8/2013	63.0	35.8	0.1	1.1	
	9:15	3/22/2013	56.0	34.4	0.6	9.0	
	14:10	4/8/2013	52.0	29.0	0.5	18.5	
	15:30	4/22/2013	49.5	29.4	0.5	20.6	
	9:50	4/29/2013	43.0	27.6	0.5	28.9	
	8:45	5/13/2013	38.0	27.4	1.2	33.4	
	13:59	5/28/2013	33.0	26.0	1.6	39.4	
LC-2	9:00	6/7/2013	31.5	25.4	2.1	41.0	
	8:30	6/21/2013	30.5	25.4	1.7	42.4	
	9:00	7/5/2013	29.5	24.8	1.8	43.9	
	8:05	7/22/2013	29.5	25.8	1.5	43.2	
	9:05	8/5/2013	29.5	25.4	2.6	42.5	
	8:35	8/19/2013	31.0	25.8	2.0	41.2	
	8:45	9/5/2013	13.5	11.6	12.5	62.4	
	9:00	9/16/2013	12.5	10.4	13.4	63.7	
	7:50	9/30/2013	19.5	15.2	10.4	54.9	
	7:50	10/14/2013	26.5	20.0	7.7	45.8	
	7:50	10/28/2013	23.0	16.6	9.8	50.6	
	8:25	11/19/2013	32.5	22.8	5.9	38.8	
	7:50	12/2/2013	37.5	24.8	5.0	32.7	
	7:25	12/16/2013	22.0	15.6	11.3	51.1	
	7:13	12/27/2013	44.5	29.2	1.9	24.4	
	7:16	1/13/2014	48.5	29.0	1.0	21.5	
	7:40	1/30/2014	49.5	30.0	1.3	19.2	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-3	11:31	3/20/2006	62.3	36.3	0.5	0.9	pre-startup
	10:06	3/22/2006	55.9	33.2	3.5	7.4	
	8:37	3/23/2006	53.5	30.5	3.4	12.6	
	16:30	3/23/2006	59.9	30.5	2.0	7.6	
	14:30	3/24/2006	8.6	6.7	17.0	67.7	
	14:45	3/28/2006	21.1	14.8	12.0	52.1	
	19:21	3/30/2006	51.2	30.4	1.6	16.8	
	13:35	4/5/2006	30.7	22.2	6.6	40.5	
	13:05	4/6/2006	19.0	14.9	11.9	54.2	
	13:20	4/11/2006	36.9	26.6	3.5	33.0	
	10:49	4/14/2006	38.2	27.8	1.0	33.0	
	15:30	4/14/2006	37.7	28.8	1.2	32.3	
	10:10	4/17/2006	10.5	0.6	0.8	88.1	
	19:38	4/27/2006	27.6	23.6	0.5	48.3	
	13:20	5/4/2006	0.0	0.0	8.8	91.2	
	10:25	5/22/2006	9.6	15.7	8.9	65.8	
	14:41	6/2/2006	0.6	0.1	20.4	78.9	
	8:29	6/9/2006	22.5	31.2	4.0	42.3	
	12:42	6/14/2006	20.5	15.6	3.2	60.7	
	10:51	6/22/2006	13.1	28.7	3.5	54.7	
	12:23	7/5/2006	13.0	29.6	1.9	55.5	
	11:38	7/10/2006	0.0	0.0	1.7	98.3	
	10:17	7/17/2006	11.9	28.3	1.8	58.0	
	14:09	7/28/2006	16.3	28.7	1.5	53.5	
	10:02	8/8/2006	11.4	28.8	1.5	58.3	
	9:10	8/16/2006	11.9	28.4	1.4	58.3	
	8:27	8/21/2006	2.4	5.8	1.8	90.0	
	14:14	8/28/2006	12.1	10.2	1.4	76.3	
	11:26	9/13/2006	6.8	11.8	1.7	79.7	
	11:25	9/25/2006	10.1	0.4	1.9	87.6	
	8:25	10/10/2006	10.8	29.6	2.7	56.9	
	8:26	10/23/2006	10.9	29.4	3.9	55.8	
	14:12	11/2/2006	9.5	23.4	0.4	66.7	
	15:09	11/14/2006	2.5	0.0	20.0	77.5	
	12:00	11/27/2006	0.3	1.2	18.9	79.7	
	13:10	12/26/2006	13.5	21.2	3.3	62.0	
	14:20	1/27/2007	13.0	21.4	1.9	63.7	
	11:40	2/24/2007	4.3	0.2	19.7	75.9	
	11:22	3/1/2007	12.0	19.6	4.1	64.3	
	12:30	3/1/2007	11.5	19.2	4.2	65.1	
	14:32	3/1/2007	11.5	18.8	4.1	65.6	
	7:50	3/5/2007	0.3	0.0	20.3	79.5	adjust blower time, 12 on, 12 off
	7:50	3/24/2007	15.0	19.2	4.1	61.7	
	16:34	3/24/2007	14.5	19.2	4.0	62.3	
	16:48	3/26/2007	12.5	18.6	3.6	65.3	
	7:09	3/27/2007	12.0	19.2	3.5	65.3	
	16:45	3/28/2007	13.0	19.8	3.6	63.6	
	7:40	3/29/2007	12.0	19.2	3.7	65.1	
	16:43	3/29/2007	12.0	19.2	3.8	65.0	
	7:45	3/30/2007	7.0	12.6	8.0	72.4	blower off
	11:30	5/30/2007	29.0	22.8	3.0	45.2	restart and run 24 hrs
	13:52	5/30/2007	30.5	22.8	3.2	43.5	
	10:10	5/31/2007	23.5	21.2	2.9	52.4	reduce to 12 on 12 off
	16:10	6/1/2007	21.5	20.8	2.8	54.9	
	15:13	6/2/2007	20.0	19.4	3.6	57.0	
	15:44	6/3/2007	19.0	20.2	2.8	58.0	
	13:45	6/4/2007	18.0	19.8	3.0	59.2	reduce to 6 on 18 off
	14:27	6/7/2007	23.0	22.2	2.8	52.0	
	16:15	6/12/2007	14.0	19.4	3.1	63.5	
	13:58	6/14/2007	14.5	19.2	3.1	63.2	
	13:35	6/19/2007	14.5	19.6	3.0	62.9	
	13:40	6/21/2007	14.0	19.2	3.2	63.6	
	13:20	7/11/2007	14.0	19.2	3.3	63.5	
	13:10	7/23/2007	13.0	19.0	3.4	64.6	
	14:04	8/8/2007	13.0	19.4	3.4	64.2	
	13:50	8/13/2007	14.0	21.6	2.1	62.3	
	13:10	8/20/2007	11.8	19.8	2.7	65.7	
	13:35	8/28/2007	11.5	19.2	2.8	66.5	
	15:20	8/31/2007	8.5	18.0	3.5	70.0	
	14:15	9/4/2007	7.0	17.0	3.9	72.1	
	12:45	9/17/2007	5.5	15.8	4.7	74.0	
	9:05	9/29/2007	5.0	16.2	4.6	74.2	
	8:05	10/4/2007	5.5	16.0	4.6	73.9	
	9:05	10/7/2007	6.0	16.4	4.2	73.4	
	9:20	10/18/2007	7.5	16.8	3.6	72.1	
	8:25	10/25/2007	6.5	16.6	4.2	72.7	
	8:40	11/1/2007	7.5	16.8	4.3	71.4	
	9:45	11/13/2007	11.5	16.2	5.5	66.8	
	10:55	11/26/2007	7.0	14.4	6.4	72.2	
	10:20	12/10/2007	7.0	14.6	6.8	71.6	
	11:05	12/26/2007	7.5	14.4	6.4	71.7	
	9:30	1/9/2008	8.5	14.6	6.6	70.3	
	11:50	1/23/2008	7.5	14.4	7.3	70.8	
	8:40	2/4/2008	10.0	15.6	6.1	68.3	
	7:10	2/18/2008	12.5	15.4	6.8	65.3	
	7:40	3/4/2008	17.5	17.8	7.5	57.2	
	8:15	3/18/2008	20.0	17.6	6.2	56.2	
	13:35	5/12/2008	20.0	19.6	4.5	55.9	
	8:45	5/19/2008	11.5	16.6	5.6	66.3	
	13:10	5/30/2008	10.0	16.2	5.1	68.7	
	8:25	6/12/2008	9.5	17.4	5.2	67.9	
	8:35	6/25/2008	14.5	19.8	4.3	61.4	
	10:35	7/7/2008	10.5	17.0	4.9	67.6	opened GV-6 to 200 ft/min
	12:15	7/21/2008	10.5	19.0	4.1	66.4	
	10:00	8/5/2008	12.5	19.2	4.2	64.1	
	9:15	8/13/2008	13.5	19.6	4.3	62.6	increase to 12 on 12 off
	8:55	8/19/2008	9.5	18.4	4.6	67.5	
	14:25	9/2/2008	11.5	18.4	4.4	65.7	
	12:12	10/3/2008	12.5	19.0	4.8	63.7	
	10:15	10/13/2008	13.0	19.0	4.9	63.1	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:25	10/28/2008	13.5	19.6	5.4	61.5	
	7:50	11/6/2008	13.5	19.2	5.1	62.2	
	10:40	12/8/2008	12.0	18.8	5.6	63.6	
	9:40	12/24/2008	10.0	17.4	5.2	67.4	decrease to 10 on
	11:10	1/8/2009	9.5	17.0	5.5	68.0	
	11:45	1/18/2009	29.5	22.6	7.4	40.5	
	8:05	2/6/2009	8.5	16.0	5.8	69.7	1/27/09 ice in port
	10:05	2/23/2009	6.5	16.2	5.7	71.6	decrease to 8 on
	9:40	3/9/2009	11.0	17.0	5.2	66.8	
	9:30	3/20/2009	13.5	17.6	5.3	63.6	
	11:25	4/9/2009	17.5	18.8	4.9	58.8	
	10:10	4/19/2009	11.0	17.2	5.3	66.5	
	8:40	5/4/2009	4.2	17.4	3.3	75.2	
	8:45	5/18/2009	7.5	16.4	5.5	70.6	
	10:10	6/1/2009	3.8	16.0	4.3	76.0	
	9:10	6/14/2009	7.5	16.0	5.3	71.2	
	8:55	7/2/2009	15.8	18.0	4.5	61.7	
	7:35	7/13/2009	15.5	19.0	4.4	61.1	
	8:35	7/22/2009	11.5	18.0	4.8	65.7	
	9:00	8/11/2009	9.0	17.2	4.7	69.1	
	8:50	8/24/2009	7.0	15.8	5.7	71.5	decrease to 6 on 18 off
	9:35	9/8/2009	12.0	17.4	4.8	65.8	
	9:28	9/21/2009	14.5	18.6	4.8	62.1	
	10:25	10/5/2009	16.5	19.2	4.9	59.4	
	11:05	10/28/2009	18.5	20.4	4.7	56.4	
	11:05	11/16/2009	12.5	18.6	5.5	63.4	
	9:35	12/18/2009	25.0	23.2	4.0	47.8	
	9:20	12/28/2009	25.0	22.4	5.0	47.6	
	9:20	1/11/2010	24.5	23.4	4.4	47.7	
	8:20	1/26/2010	27.5	23.6	4.4	44.5	
	11:45	2/25/2010	24.0	23.2	4.3	48.5	
	10:04	3/8/2010	25.0	23.0	3.9	48.1	
	9:30	3/22/2010	24.0	22.0	4.5	49.5	
	9:35	4/5/2010	24.9	22.6	4.0	48.5	
	9:21	4/19/2010	24.5	22.2	4.4	48.9	
	9:31	5/3/2010	26.5	22.6	4.0	46.9	
	9:59	5/17/2010	26.0	22.4	4.3	47.3	
	8:55	5/25/2010	22.0	22.2	3.4	52.4	
	9:20	6/24/2010	22.5	21.0	1.4	55.1	
	10:20	7/6/2010	17.0	19.8	4.5	58.7	
	9:14	7/19/2010	15.5	19.0	4.7	60.8	
	9:10	8/2/2010	10.5	18.6	4.7	66.2	
	10:00	8/16/2010	18.5	19.8	4.2	57.5	
	9:05	8/30/2010	24.5	22.0	3.0	50.5	
	9:15	9/13/2010	27.0	22.4	4.3	46.3	
	9:18	9/28/2010	27.0	22.6	4.7	45.7	
	8:17	10/12/2010	24.5	22.4	5.0	48.1	
	9:30	10/25/2010	24.5	22.2	4.7	48.6	
	9:45	11/2/2010	22.0	21.8	5.4	50.8	
	9:06	11/15/2010	21.5	21.2	1.7	55.6	
LC-3	9:50	12/10/2010	20.0	20.6	5.7	53.7	
	9:10	12/23/2010	19.5	21.2	5.9	53.4	
	9:25	1/10/2011	20.5	20.8	6	52.7	
	8:41	1/25/2011	18.5	18.8	7.4	55.3	
	12:30	2/11/2011	29.5	21.6	6.1	42.8	
	10:15	2/22/2011	15.5	17.0	7.7	59.8	
	9:30	3/7/2011	15.5	17.4	7.1	60.0	
	12:00	3/24/2011	23.0	20.6	4.9	51.5	
	9:05	4/6/2011	31.0	21.6	4.9	42.5	
	8:04	4/25/2011	31.0	21.2	5.6	42.2	
	9:00	5/9/2011	37.5	23.0	4.5	35.0	
	9:20	5/23/2011	39.5	24.0	4.2	32.3	
	11:00	6/6/2011	40.5	24.4	4.1	31.0	
	9:15	6/15/2011	40.5	24.4	4.0	31.1	
	9:20	7/5/2011	39.0	24.6	3.6	32.8	
	8:13	7/13/2011	38.5	24.6	3.5	33.4	
	8:15	7/26/2011	37.5	24.4	3.5	34.6	
	8:25	8/8/2011	31.5	23.4	3.4	41.7	
	8:00	8/23/2011	28.5	22.4	3.9	45.2	
	15:21	9/9/2011	34.0	24.6	3.9	37.5	
	16:03	9/15/2011	27.5	23.0	4.7	44.8	
	8:35	9/21/2011	25.0	21.8	4.7	48.5	
	9:42	9/21/2011	25.0	21.4	4.9	48.7	
	9:33	9/22/2011	26.0	22.2	4.8	47.0	
	10:13	9/22/2011	26.0	21.8	5.1	47.1	
	10:59	9/22/2011	27.5	22.6	4.6	45.3	
	10:50	10/3/2011	18.0	20.2	5.1	56.7	
	14:05	10/24/2011	41.0	28.6	3.7	26.7	
	11:08	10/26/2011	24.5	22.0	5.0	48.5	
	10:52	11/7/2011	21.5	21.4	4.7	52.4	
	9:27	11/14/2011	23.5	21.8	4.4	50.3	
	9:37	12/12/2011	23.0	22.2	4.7	50.1	
	10:30	12/27/2011	28.0	23.0	4.2	44.8	
	8:51	1/10/2012	32.5	24.0	4.2	39.3	
	9:55	1/25/2012	33.0	26.0	4.2	36.8	
	9:29	2/20/2012	37.5	25.8	5.0	31.7	
	9:21	3/8/2012	36.5	24.8	5.5	33.2	
	9:00	4/2/2012	32.0	24.4	4.7	38.9	
	9:15	4/16/2012	29.5	22.8	5.0	42.7	
	9:25	4/30/2012	25.0	21.8	5.3	47.9	
	9:25	5/14/2012	27.0	22.2	5.0	45.8	
	9:18	5/29/2012	30.9	23.0	4.5	41.6	
	7:59	6/11/2012	31.5	23.4	4.4	40.7	
	9:53	6/25/2012	33.5	24.4	4.0	38.1	
	9:10	7/9/2012	32.5	24.6	3.5	39.4	
	8:47	7/23/2012	19.0	21.0	4.2	55.8	
	8:11	7/25/2012	19.0	21.0	4.4	55.6	
	9:10	8/6/2012	19.0	21.4	4.2	55.4	
	9:40	8/21/2012	19.0	20.6	4.8	55.6	
	9:21	9/4/2012	14.5	19.8	4.5	61.2	
	8:17	10/1/2012	10.5	16.4	6.6	66.5	reduce from 23 hrs to 16.5 hrs on

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
LC-3	8:40	10/15/2012	9.0	12.0	9.9	69.1	reduce from 16.5 hrs to 8.5 hrs on
	7:50	12/6/2012	18.5	20.0	5.2	56.3	reduce from 8.5 hrs to 4 hrs on
	9:10	12/17/2012	22.5	20.2	4.5	52.8	reduce from 4 hrs to 2 hrs on
	9:10	12/31/2012	26.0	22.4	4.5	47.1	
	8:30	1/9/2013	28.0	22.6	4.3	45.1	Increase from 2 hrs to 4 hrs on
	9:40	1/15/2013	29.0	22.6	3.9	44.5	Increase from 4 hrs to 8 hrs on
	9:17	1/28/2013	27.5	22.8	4.3	45.4	Increase from 8 hrs to 12 hrs on
	11:05	2/11/2013	27.0	20.2	7.2	45.6	Reduce from 12 hrs to 9 hrs on
	9:30	2/25/2013	42.0	27.8	3.1	27.1	Increase from 9 hrs to 18 hrs on
	7:50	3/8/2013	53.0	33.0	0.0	14.0	Increase from 18 hrs to 23.5 hrs on
	9:08	3/22/2013	54.5	33.6	0.1	11.8	
	13:55	4/8/2013	30.0	23.4	4.1	42.5	
	15:25	4/22/2013	21.5	4.0	3.9	70.6	
	9:44	4/29/2013	18.5	19.6	4.1	57.8	
	8:37	5/13/2013	16.5	19.0	4.9	59.6	
	13:48	5/28/2013	16.5	18.8	4.4	60.3	
	9:05	6/7/2013	17.0	19.0	4.5	59.5	
	8:25	6/21/2013	16.0	18.4	4.5	61.1	
	8:55	7/5/2013	15.5	18.2	4.5	61.8	
	8:00	7/22/2013	16.0	19.0	4.3	60.7	
	9:00	8/5/2013	16.0	10.4	5.3	68.3	Reduce from 10 hrs to 9 hrs on
	8:30	8/19/2013	17.5	18.8	4.9	58.8	
	8:40	9/5/2013	9.5	10.2	12.3	68.0	Reduce from 9 hrs to 4 hrs on
	8:55	9/16/2013	10.5	10.2	12.8	66.5	Reduce from 4 hrs to 2 hrs on
	7:45	9/30/2013	17.0	14.0	10.2	58.8	Reduce from 2 hrs to 1 hr on
	7:45	10/14/2013	23.5	18.0	8.4	50.1	Reduce from 1 hr to 0.5 hr on
	7:45	10/28/2013	21.5	15.4	10.3	52.8	Reduce from 0.5 hr to 0.25 hr on
	8:17	11/19/2013	31.0	21.8	7.4	39.8	Increase from 0.25 hr to 1 hr on
	7:40	12/2/2013	32.0	22.8	6.6	38.6	Reduce from 1 hr to 0.75 hr on
	7:20	12/16/2013	20.5	16.0	11.1	52.4	Reduce from 0.75 hr to 0.3 hr on
	7:10	12/27/2013	34.5	25.2	5.2	35.1	Reduce from 0.3 hr to 0.25 hr on
	7:12	1/13/2014	39.5	26.4	3.6	30.5	Increase from 0.25 hr to 1 hr on
	7:20	1/30/2014	37.0	26.6	4.2	32.2	Increase from 1 hr to 2 hr on

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	11:19	3/20/2006	0.4	0.2	20.9	78.5	pre-startup
	10:00	3/22/2006	45.9	26.6	2.6	24.9	
	15:49	3/22/2006	54.2	31.6	0.9	13.3	
	8:47	3/23/2006	51.5	29.5	1.3	17.7	
	16:50	3/23/2006	45.0	25.4	3.8	25.8	
	15:30	3/24/2006	24.0	13.9	15.0	47.1	
	14:30	3/28/2006	13.2	10.0	12.9	63.9	
	19:00	3/30/2006	34.4	24.9	2.9	37.8	
	13:25	4/5/2006	22.9	18.7	8.2	50.2	
	12:55	4/6/2006	21.9	17.4	7.9	52.8	
	13:10	4/11/2006	23.8	20.2	5.9	50.1	
	10:56	4/14/2006	26.9	23.4	2.3	47.4	
	15:53	4/14/2006	21.3	28.5	5.4	44.8	
	10:00	4/17/2006	31.3	34.0	3.0	31.7	
	19:55	4/27/2006	15.6	19.8	4.0	60.6	
	13:15	5/4/2006	0.0	0.0	2.4	97.6	
	10:19	5/22/2006	16.2	24.6	1.3	57.9	
	8:23	6/9/2006	24.4	32.8	6.2	36.6	
	12:37	6/14/2006	22.8	29.3	5.6	42.3	
	10:46	6/22/2006	12.1	23.0	5.4	59.5	
	12:07	7/5/2006	13.7	24.7	4.9	56.7	
	11:33	7/10/2006	12.6	26.2	4.0	57.2	
	10:54	7/17/2006	12.7	25.6	3.9	57.8	
	14:04	7/28/2006	4.8	24.5	4.4	66.3	
	9:53	8/8/2006	14.8	29.1	2.3	53.8	
	9:06	8/16/2006	14.8	27.1	4.1	54.0	
	8:22	8/21/2006	12.7	8.6	3.8	74.9	
	14:10	8/28/2006	16.6	25.7	5.0	52.7	
	11:24	9/13/2006	8.2	1.4	5.3	85.1	
	11:20	9/25/2006	8.1	0.8	1.8	89.3	
	8:20	10/10/2006	18.1	30.1	3.2	48.6	
	8:21	10/23/2006	12.8	18.1	4.6	64.5	
	14:05	11/2/2006	10.0	22.4	1.3	66.3	
	14:56	11/14/2006	19.0	21.8	4.5	54.7	
	11:27	11/27/2006	9.0	14.6	8.4	68.0	
	13:00	12/26/2006	15.5	22.8	1.5	60.2	
	14:02	1/27/2007	13.5	20.8	1.7	64.0	
	9:32	2/15/2007	0.6	11.4	8.0	80.1	
	11:24	2/24/2007	2.6	12.0	9.6	75.9	
	9:41	3/1/2007	23.0	24.0	0.2	52.8	
	10:15	3/1/2007	13.5	17.8	3.6	65.1	
	10:17	3/1/2007	12.0	19.2	1.3	67.5	
	11:13	3/1/2007	9.0	17.4	2.5	71.1	
	12:22	3/1/2007	7.5	16.6	3.0	72.9	
	13:53	3/1/2007	6.5	15.6	4.3	73.6	
	14:00	3/1/2007	7.0	15.5	4.2	73.3	
	14:40	3/1/2007	6.0	14.4	5.2	74.4	
	8:00	3/5/2007	6.0	14.4	6.4	73.2	adjust blower time, 12 on, 12 off
	8:05	3/24/2007	11.5	20.0	2.8	65.7	
GV-6	16:50	3/24/2007	12.0	19.4	2.8	65.8	
	17:05	3/26/2007	9.5	18.4	3.2	68.9	
	7:25	3/27/2007	7.0	17.6	4.1	71.3	
	16:31	3/28/2007	11.0	20.0	1.8	67.2	
	7:59	3/29/2007	8.5	19.8	1.4	70.3	
	16:55	3/29/2007	12.0	20.0	1.3	66.7	
	7:59	3/30/2007	9.0	20.8	0.3	69.9	blower off
	10:45	5/30/2007	31.0	22.6	0.7	45.7	restart and run 24 hrs
	13:40	5/30/2007	36.5	26.2	0.6	36.7	
	10:25	5/31/2007	21.5	22.8	1.5	54.2	reduce to 12 on 12 off
	16:28	6/1/2007	20.5	22.0	1.1	56.4	
	15:25	6/2/2007	20.0	21.8	1.1	57.1	
	16:05	6/3/2007	20.5	22.4	0.5	56.6	
	14:08	6/4/2007	16.5	22.0	0.8	60.7	reduce to 6 on 18 off
	15:04	6/7/2007	19.0	22.6	0.4	58.0	
	17:35	6/12/2007	14.0	21.6	1.7	62.7	
	15:00	6/14/2007	14.0	21.8	0.6	63.6	
	14:30	6/19/2007	13.0	22.8	0.7	63.5	
	14:30	6/21/2007	15.0	21.8	1.4	61.8	
	14:20	7/11/2007	14.0	20.2	3.1	62.7	
	14:20	7/23/2007	15.0	21.0	3.3	60.7	
	14:10	8/8/2007	14.0	20.2	3.8	62.0	
	13:15	8/13/2007	12.0	18.6	5.1	64.3	
	14:20	8/20/2007	9.5	18.0	5.1	67.4	
	14:15	8/28/2007	9.0	18.6	4.4	68.0	
	15:50	8/31/2007	6.0	19.2	2.5	72.3	
	14:45	9/4/2007	6.0	18.2	3.2	72.6	
	13:15	9/17/2007	5.0	16.8	4.3	73.9	
	9:35	9/29/2007	4.7	16.8	4.3	74.2	
	8:35	10/4/2007	4.4	16.2	4.7	74.8	
	9:35	10/7/2007	4.7	17.0	3.6	74.7	
	9:40	10/18/2007	7.5	20.0	0.6	71.9	
	9:10	10/25/2007	7.0	2.0	0.5	90.5	
	9:10	11/1/2007	7.0	20.6	0.2	72.2	
	10:05	11/13/2007	17.5	22.0	0.7	59.8	
	11:20	11/26/2007	6.0	15.6	5.5	72.9	reduce to 12 on 12 off
	10:50	12/10/2007	7.0	16.8	4.8	71.4	reduce to 10 on 14 off
	11:40	12/26/2007	6.5	15.6	4.9	73.0	reduce to 8 on 16 off
	10:05	1/9/2008	6.0	15.6	4.9	73.5	
	12:05	1/23/2008	5.5	13.4	7.3	73.8	
	9:10	2/4/2008	12.5	19.4	0.9	67.2	
	7:40	2/18/2008	17.0	20.4	0.7	61.9	
	7:20	3/4/2008	21.0	21.0	0.9	57.1	
	8:35	3/18/2008	31.0	22.8	0.8	45.4	
	14:15	5/12/2008	14.5	19.6	3.1	62.8	
	9:05	5/19/2008	5.5	14.8	6.4	73.3	
	13:40	5/30/2008	12.0	20.4	0.2	67.4	
	9:15	6/12/2008	5.0	16.8	5.5	72.7	
	9:10	6/25/2008	10.0	23.4	0.6	66.0	
	11:20	7/7/2008	5.5	20.0	0.0	74.5	opened GV-6 to 200 ft/min
	12:25	7/21/2008	7.5	20.8	1.3	70.4	

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:45	8/5/2008	9.5	21.8	0.5	68.2	
	9:00	8/13/2008	11.5	21.6	1.4	65.5	increase to 12 on 12 off
	8:40	8/19/2008	4.9	15.4	6.8	73.0	
	14:00	9/2/2008	5.5	18.4	2.0	74.1	
	11:46	10/3/2008	3.7	9.6	11.0	75.7	
	10:35	10/13/2008	9.0	20.4	1.8	68.8	
	9:10	10/28/2008	7.0	19.2	2.8	71.0	
	7:30	11/6/2008	10.0	20.2	1.5	68.3	
	10:10	12/24/2008	6.0	15.6	4.5	73.9	12/8/08 meter failure
	11:45	1/8/2009	3.1	13.6	6.5	76.8	1/27/09 ice in port
	11:15	1/18/2009	8.5	19.0	3.2	69.3	
	8:30	2/6/2009	3.2	12.4	7.7	76.8	
	10:45	2/23/2009	1.5	10.8	9.7	78.1	decrease to 8 on
	10:10	3/9/2009	3.0	14.6	3.3	79.1	
	10:10	3/20/2009	4.4	16.8	2.1	76.8	
	12:21	4/9/2009	8.0	18.4	0.0	73.6	
	10:30	4/19/2009	3.6	13.0	6.7	76.7	
	8:30	5/4/2009	1.6	11.4	8.5	78.6	
	8:35	5/18/2009	2.0	12.4	7.2	78.4	
	10:05	6/1/2009	1.3	11.4	7.9	79.4	
	8:50	6/14/2009	1.7	13.8	4.7	79.8	
	8:40	7/2/2009	9.0	20.8	0.3	69.9	
	7:25	7/13/2009	11.5	23.0	0.0	65.5	
	8:25	7/22/2009	4.5	16.2	4.4	74.9	
	8:40	8/11/2009	1.9	11.8	7.7	78.6	
	8:40	8/24/2009	1.8	11.4	7.9	79.0	decrease to 6 on 18 off
	9:15	9/8/2009	7.0	18.4	1.6	73.0	
	9:10	9/21/2009	16.0	22.4	0.4	61.2	
	10:09	10/5/2009	9.5	19.6	2.0	68.7	
	10:55	10/28/2009	12.5	20.8	1.6	65.1	
	10:45	11/16/2009	15.5	4.5	16.0	64.0	
	9:15	12/18/2009	24.0	23.8	0.0	52.2	
	9:00	12/28/2009	21.5	22.4	5.0	51.1	
	9:10	1/11/2010	15.5	20.4	2.8	61.3	
	12:30	2/25/2010	21.2	21.2	0.7	56.9	
	9:45	3/8/2010	18.0	21.2	0.2	60.6	
	9:20	3/22/2010	18.0	21.2	0.3	60.5	
	9:20	4/5/2010	7.0	20.2	1.2	71.6	
	9:12	4/19/2010	14.0	21.0	0.1	64.9	
	9:12	5/3/2010	12.5	21.4	0.0	66.1	
	9:42	5/17/2010	22.5	23.6	0.0	53.9	
	9:04	5/25/2010	5.0	19.8	2.9	72.3	
	9:10	6/24/2010	9.0	19.6	1.7	69.7	
	9:00	7/19/2010	3.4	16.8	2.7	77.1	
	8:50	8/2/2010	4.5	12.0	3.0	80.6	
	9:43	8/16/2010	14.0	22.0	1.2	62.8	
	8:47	8/30/2010	21.5	25.0	1.0	52.5	
	9:00	9/13/2010	30.0	26.6	1.2	42.2	
	9:47	9/28/2010	37.0	28.2	1.2	33.6	
GV-6	8:10	10/12/2010	24.0	25.0	1.7	49.3	
	9:12	10/25/2010	35.5	26.8	1.2	36.5	
	9:30	11/2/2010	15.5	22.0	1.9	60.6	
	8:45	11/15/2010	13.5	21.0	1.7	63.8	
	9:40	12/10/2010	9.0	19.2	2.1	69.7	
	8:50	12/23/2010	6.0	18.2	2.8	73.0	
	9:10	1/10/2011	28.0	4.8	15.7	51.5	
	12:00	2/11/2011	30.5	20.8	0.5	48.2	
	9:40	2/22/2011	1.7	7.4	14.2	76.7	
	9:15	3/7/2011	4.4	10.0	11.5	74.1	
	11:45	3/24/2011	7.5	12.2	6.9	73.4	
	8:45	4/6/2011	17.5	19.2	0.9	62.4	
	8:12	4/25/2011	18.6	20.8	0.7	59.9	
	8:45	5/9/2011	29.5	22.8	0.4	47.3	
	9:00	5/23/2011	35.5	24.4	0.4	39.7	
	10:45	6/6/2011	39.5	25.2	0.3	35.0	
	8:59	6/15/2011	41.0	26.8	0.3	31.9	
	9:10	7/5/2011	35.4	26.0	0.6	38.0	
	8:09	7/13/2011	24.0	24.8	0.6	50.6	
	8:10	7/26/2011	35.0	27.4	0.7	36.9	
	8:10	8/8/2011	20.0	23.6	0.5	55.9	
	7:45	8/23/2011	19.0	24.8	0.9	55.3	
	15:17	9/9/2011	29.0	1.2	26.4	43.4	
	16:01	9/15/2011	19.0	24.6	0.5	55.9	
	8:27	9/21/2011	39.5	29.0	0.5	31.0	
	9:35	9/21/2011	20.0	22.1	1.5	56.4	
	9:27	9/22/2011	26.0	22.2	4.8	47.0	
	10:09	9/22/2011	9.9	19.2	2.5	68.4	
	10:55	9/22/2011	11.5	18.8	3.3	66.4	
	10:40	10/3/2011	4.6	13.6	8.1	73.8	
	13:49	10/24/2011	7.5	20.4	1.2	70.9	
	10:55	10/26/2011	7.5	16.4	5.8	70.3	
	10:40	11/7/2011	4.5	14.6	6.6	74.3	
	9:15	11/14/2011	7	17.8	3	72.2	
	10:30	11/14/2011	5	6.8	2.7	85.5	
	9:12	12/12/2011	7.5	16.8	4.3	71.4	
	10:17	12/27/2011	9	7	13.9	70.1	
	8:40	1/10/2012	12	19.6	1	67.4	
	10:05	1/25/2012	11.5	22.6	0.2	65.7	
	9:15	2/20/2012	12.5	14.4	2.1	71	
	9:00	3/8/2012	11	18.4	2.9	67.7	
	10:20	4/2/2012	9.0	18.2	2.6	70.2	
	9:05	4/16/2012	14.9	20.4	1.2	63.5	
	9:10	4/30/2012	17.0	21.0	1.3	60.7	
	9:15	5/14/2012	16.0	21.0	1.3	61.7	
	9:10	5/29/2012	14.5	20.4	1.8	63.3	
	7:45	6/11/2012	23.0	23.8	1.4	51.8	
	9:40	6/25/2012	8.5	18.4	3.3	69.8	
	9:00	7/9/2012	12.0	19.4	3.1	65.5	
	8:33	7/23/2012	3.8	12.0	8.3	76.0	
	8:19	7/25/2012	10.0	18.8	2.8	68.4	

Table 6a. Landfill Gas Field Parameter Monitoring Results of Active Extraction Points

Active Extraction Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:00	8/6/2012	4.4	13.6	7.3	74.8	
	9:17	8/21/2012	4.1	13.8	6.5	75.7	
	9:10	9/4/2012	3.2	11.2	8.6	77.1	
	9:05	10/1/2012	2.3	9.4	10.2	78.2	
	8:30	10/15/2012	2.0	10.4	9.0	78.6	
	7:40	12/6/2012	15.0	19.4	1.4	64.2	
	9:00	12/17/2012	9.0	14.2	4.5	72.3	
	8:50	12/31/2012	42.0	2.6	18.7	36.7	1st time O2 over 5% (used rental meter)
	8:30	1/9/2013	28.0	1.8	19.6	50.6	wrong port used for O2 (3.3, 2nd reading)
	8:08	1/15/2013	21.0	20.4	0.3	58.3	
	9:05	1/28/2013	35.5	23.6	3.2	37.7	
	10:45	2/11/2013	18.5	12.8	9.4	59.3	
	9:15	2/25/2013	31.5	21.8	1.7	45.0	
	7:30	3/8/2013	34.5	22.6	0.1	42.8	
	8:50	3/22/2013	41.5	22.2	0.0	36.3	
	13:50	4/8/2013	10.5	15.6	4.3	69.6	
	15:15	4/22/2013	14.0	19.0	1.2	65.8	
	9:35	4/29/2013	4.3	13.2	5.0	77.6	Reduce from 23.5 hrs to 20.5 hrs on
GV-6	8:30	5/13/2013	3.4	11.6	7.4	77.7	Reduce from 20.5 hrs to 16 hrs on
	13:36	5/28/2013	4.8	13.2	5.8	76.2	Reduce from 16 hrs to 12 hrs on
	8:45	6/7/2013	3.9	13.0	6.1	77.1	
	8:12	6/21/2013	6.5	15.4	4.8	73.3	
	8:45	7/5/2013	3.6	13.0	6.2	77.2	
	7:48	7/22/2013	5.0	15.2	4.7	75.1	Reduce from 12 hrs to 10 hrs on
	8:50	8/5/2013	10.0	18.6	2.4	69.0	
	8:15	8/19/2013	9.0	17.4	3.1	70.5	
	8:30	9/5/2013	2.4	10.2	10.0	77.5	
	8:45	9/16/2013	3.5	11.4	9.2	75.9	
	7:30	9/30/2013	23.5	21.6	3.5	51.4	
	7:35	10/14/2013	14.5	19.4	4.5	61.6	
	7:39	10/28/2013	12.0	16.2	6.7	65.1	
	8:05	11/19/2013	15.0	18.0	5.8	61.2	
	7:30	12/2/2013	41.5	25.6	1.4	31.5	
	7:10	12/16/2013	22.5	20.0	3.2	54.3	
	7:05	12/27/2013	39.5	24.6	0.6	35.3	
	7:05	1/13/2014	45.5	24.6	0.4	29.5	
	7:15	1/30/2014	39.5	24.0	0.3	36.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	11:03	3/20/2006	**18.8**	8.1	0.4	72.7	pre-startup
	15:25	3/22/2006	**17.9**	8.0	0.4	73.7	
	14:10	3/23/2006	**21.4**	11.5	0.2	66.9	
	14:00	3/30/2006	0.8	2.4	15.0	81.8	
	13:45	4/6/2006	0.6	1.5	16.8	81.1	
	13:40	4/11/2006	1.2	0.8	19.3	78.7	
	11:33	4/14/2006	0.0	1.9	14.7	83.4	
	10:28	4/17/2006	3.8	4.8	16.8	74.6	
	7:15	4/28/2006	2.5	3.2	18.1	76.2	
	13:30	5/4/2006	0.0	3.4	13.9	82.7	
	10:45	5/22/2006	0.1	1.2	19.3	79.4	
	12:23	6/2/2006	0.1	3.5	12.1	84.3	
	8:02	6/9/2006	2.6	2.0	19.8	75.6	
	12:49	6/14/2006	1.1	3.9	15.4	79.6	
	11:10	6/22/2006	0.7	1.0	18.1	80.2	
	11:47	7/5/2006	0.6	2.4	14.9	82.1	
	11:15	7/10/2006	0.7	4.5	14.1	80.7	
	10:35	7/17/2006	0.8	2.9	15.8	80.5	
	13:42	7/26/2006	2.0	1.7	12.2	84.1	
	10:19	8/8/2006	4.4	8.5	12.9	74.2	
	8:20	8/16/2006	1.4	3.6	15.5	79.5	
	8:05	8/21/2006	0.5	0.6	13.0	85.9	
	13:52	8/28/2006	3.4	7.6	11.2	77.8	
	11:09	9/13/2006	4.6	0.1	12.5	82.8	
	10:28	9/25/2006	0.0	0.0	10.7	89.3	
	8:05	10/10/2006	0.7	2.3	17.6	79.4	
	8:07	10/23/2006	0.7	2.7	19.0	77.6	
	14:35	11/2/2006	0.3	2.6	17.6	79.5	
	13:35	11/14/2006	0.2	2.6	15.9	81.3	
	11:08	11/27/2006	0.2	0.4	19.3	80.2	
	12:20	12/26/2006	0.1	3.6	12.3	84.1	
	13:13	1/27/2007	0.5	2.8	14.6	82.2	
	10:50	2/24/2007	0.4	0.0	20.4	79.3	
	17:29	3/28/2007	0.3	2.4	14.6	82.8	
	10:25	5/1/2007	0.2	2.2	12.6	85.1	
	10:27	5/1/2007	0.1	1.2	16.1	82.6	
	12:00	5/30/2007	2.0	7.2	7.1	83.7	
	16:35	6/6/2007	**11.0**	10.6	0.8	77.6	
	14:48	6/7/2007	**6.0**	7.6	5.7	80.7	
	16:59	6/12/2007	1.1	6.0	9.4	83.5	
	14:25	6/14/2007	**7.0**	10.4	2.1	80.5	
	14:15	6/19/2007	3.5	6.6	9.7	80.3	
	14:10	6/21/2007	0.4	6.0	10.1	83.5	
	14:00	7/11/2007	4.0	8.4	8.3	79.3	
	14:35	7/23/2007	**8.5**	13.8	2.0	75.7	
	14:25	8/8/2007	**9.5**	14.8	2.4	73.3	
	11:45	8/13/2007	**6.5**	12.4	5.6	75.5	
	13:30	8/20/2007	**5.5**	10.8	9.2	74.5	
	13:55	8/28/2007	**12.0**	15.8	2.2	70.0	
	15:40	8/31/2007	**9.5**	14.0	4.2	72.3	
	14:35	9/4/2007	**8.0**	13.6	4.4	74.0	
	13:05	9/17/2007	0.2	6.0	12.0	81.8	
	9:25	9/29/2007	0.2	4.6	13.9	81.4	
	8:25	10/4/2007	0.4	2.8	17.1	79.7	
	9:25	10/7/2007	0.6	3.4	15.3	80.7	
	10:15	10/18/2007	**6.5**	12.2	4.2	77.1	
	8:45	10/25/2007	0.1	3.6	15.5	80.8	
	9:00	11/1/2007	0.1	5.4	13.8	80.7	
	9:40	11/13/2007	0.2	3.8	13.7	82.4	
	11:10	11/26/2007	0.3	1.2	19.3	79.3	
	10:40	12/10/2007	0.4	1.2	19.4	79.0	
	11:25	12/26/2007	0.3	1.4	18.6	79.8	
	13:00	1/23/2008	0.3	2.8	13.9	83.0	
	9:55	1/9/2008	0.4	1.0	17.7	81.0	
	13:00	1/23/2008	0.3	2.8	13.9	83.0	
	9:00	2/4/2008	0.1	2.2	14.6	83.1	
	7:30	2/18/2008	0.2	2.0	14.6	83.0	
	7:10	3/4/2008	0.1	1.2	19.1	79.6	
	8:05	3/18/2008	0.1	0.4	19.5	80.0	
	14:00	5/12/2008	0.0	4.8	3.5	91.7	
	8:55	5/19/2008	0.1	5.8	4.5	89.7	
	13:30	5/30/2008	**7.0**	7.8	0.8	84.4	
	8:55	6/12/2008	0.0	2.2	17.0	80.8	
	8:55	6/25/2008	**10.5**	10.0	0.0	79.5	
	10:55	7/7/2008	**8.5**	11.0	0.0	80.5	opened GV-6 to 200 ft/min
	11:50	7/21/2008	**13.5**	11.8	0.0	74.7	
	9:37	8/5/2008	**26.5**	13.4	0.0	60.1	
	10:40	8/5/2008	**18.0**	11.6	2.1	68.3	vent for 1 hour with cap off
	8:55	8/13/2008	**22.5**	14.4	0.0	63.1	increase to 12 on 12 off
	9:55	8/13/2008	**17.5**	11.4	3.1	68.0	vent for 1 hour with cap off
	8:35	8/19/2008	**7.0**	12.6	3.4	77.0	
	10:00	8/19/2008	**6.0**	14.0	1.3	78.7	vent for 1 hour with cap off
	11:58	10/3/2008	4.2	7.0	11.6	77.3	
	11:12	10/13/2008	1.8	4.4	14.2	79.6	
	9:00	10/28/2008	0.0	4.6	13.6	81.8	
	7:20	11/6/2008	0.4	3.4	15.1	81.1	
	10:15	12/8/2008	0.1	2.6	16.0	81.3	
	10:00	12/24/2008	0.0	2.2	15.7	82.1	
	11:30	1/8/2009	0.1	3.4	16.8	79.8	
	11:05	1/18/2009	0.1	3.6	16.1	80.2	
	7:20	1/27/2009	0.2	1.2	20.9	77.7	
	8:20	2/6/2009	0.1	0.6	19.8	79.5	
	10:30	2/23/2009	0.0	2.2	18.5	79.3	
	10:00	3/9/2009	0.0	1.8	17.9	80.3	
	10:00	3/20/2009	0.1	1.0	19.6	79.4	
	9:35	4/9/2009	0.0	2.8	8.7	88.5	
	10:20	4/19/2009	0.0	3.6	5.2	91.2	
	8:20	5/4/2009	0.0	3.8	1.8	94.4	
	8:25	5/18/2009	0.0	5.0	5.8	89.2	
	10:00	6/1/2009	0.0	6.6	6.1	87.3	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	8:40	6/14/2009	0.4	5.2	8.3	86.1	
	8:30	7/2/2009	0.0	3.2	15.1	81.7	
	7:20	7/13/2009	1.0	7.4	8.9	82.8	
	8:40	7/13/2009	0.0	0.8	18.9	80.3	vent for 1 hour with cap off
	7:20	7/22/2009	0.1	5.8	11.3	82.9	
	8:35	8/11/2009	0.0	3.4	14.7	81.9	
	8:30	8/24/2009	0.0	3.6	14.7	81.7	
	9:05	9/8/2009	2.0	7.8	9.4	80.8	
	9:05	9/21/2009	1.8	6.0	12.1	80.1	
	10:05	10/5/2009	0.0	5.8	12.9	81.3	
	10:30	10/28/2009	0.0	3.8	14.2	82.0	
	10:35	11/16/2009	0.0	2.4	16.5	81.1	
	9:05	12/18/2009	0.0	3.2	14.4	82.4	
	8:40	12/28/2009	0.0	1.0	18.4	80.6	
	8:45	1/11/2010	0.0	3.2	14.1	82.7	
	8:50	1/26/2010	0.3	4.0	9.1	86.7	
	10:32	2/25/2010	0.2	4.2	7.3	88.4	
	9:35	3/8/2010	0.0	5.4	1.0	93.6	
	9:05	3/22/2010	0.0	2.6	7.2	90.2	
	9:08	4/5/2010	0.0	3.8	14.6	81.6	
	9:05	4/19/2010	0.0	4.2	7.0	88.8	
	9:05	5/3/2010	0.0	1.2	17.6	81.2	
	9:35	5/17/2010	0.2	3.4	11.8	84.6	
	13:00	5/25/2010	0.0	4.8	10.7	84.5	
	9:05	6/24/2010	0.1	7.8	8.0	84.2	
	10:05	7/6/2010	0.0	8.8	3.0	88.2	
	8:38	7/19/2010	0.6	6.4	7.8	85.3	
	8:45	8/2/2010	2.6	9.4	3.9	84.1	
	9:35	8/16/2010	3.1	12.6	1.0	83.4	
	8:40	8/30/2010	2.2	9.0	6.6	82.3	
	8:50	9/13/2010	5.5	12.4	1.5	80.6	
	10:40	9/28/2010	3.7	11.2	1.9	83.2	
	6:50	10/12/2010	14.0	15.0	0.0	71.0	
	9:05	10/25/2010	16.5	16.0	0.0	67.5	
	9:20	11/2/2010	0.0	5.4	9.3	85.3	
	8:35	11/15/2010	4.4	9.0	3.8	82.8	
	9:30	12/10/2010	0.0	11.2	0.1	88.7	
	8:35	12/23/2010	0.0	1.2	17.9	80.9	
	9:05	1/10/2011	0.0	2.8	14.4	82.8	
	8:15	1/25/2011	0.2	5.0	8.1	86.7	
	11:35	2/11/2011	0.1	4.0	9.4	86.6	
	9:20	2/22/2011	0.2	1.0	18.1	80.8	
	8:55	3/7/2011	0.1	1.4	13.1	85.4	
	11:30	3/24/2011	0.3	0.2	20.9	78.6	
	8:35	4/6/2011	0.1	0.2	20.1	79.6	
	10:30	4/25/2011	0.1	0.2	20.7	79.0	
	8:35	5/9/2011	0.1	3.2	11.2	85.6	
	8:50	5/23/2011	0.0	5.4	3.8	90.8	
	10:35	6/6/2011	6.4	7.0	4.4	82.2	
	8:50	6/15/2011	15.5	9.6	0.3	74.6	
	9:00	7/5/2011	15.0	6.6	8.7	69.7	
	6:38	7/13/2011	12.0	13.0	0.4	74.6	
	8:00	7/26/2011	13.0	12.0	0.5	74.5	
	8:05	8/8/2011	12.5	12.6	0.3	74.6	
	7:35	8/23/2011	25.0	16.0	0.3	58.7	
	15:30	9/9/2011	26.0	18.2	0.2	55.6	
	15:58	9/15/2011	11.5	15.8	3.1	69.6	
	8:20	9/21/2011	18.5	18.2	0.4	62.9	
	9:25	9/21/2011	13.5	17.4	1.5	67.6	
	9:17	9/22/2011	6.0	10.8	8.1	75.1	
	10:04	9/22/2011	7.0	17.0	1.7	74.3	
	10:50	9/22/2011	3.8	9.6	10.2	76.5	
	10:35	10/3/2011	4.7	9.0	9.1	77.2	
	13:40	10/24/2011	1.9	15.0	2.2	80.9	
	10:45	10/26/2011	1.5	6.0	13.5	79.0	
	10:30	11/7/2011	0.3	4.0	14.8	81.0	
	9:08	11/14/2011	4.7	7.6	1.9	85.8	
	9:05	12/12/2011	0.1	1.6	15.3	83.1	
	10:05	12/27/2011	3.6	4.4	1.5	90.5	
	8:30	1/10/2012	4.6	4.4	0.1	91.0	
	10:15	1/25/2012	0.1	4.6	4.9	90.4	
	9:00	2/20/2012	5.5	3.6	3.1	87.8	
	8:40	3/8/2012	1.6	0.6	17.2	80.7	
	10:10	4/2/2012	0.1	1.2	18.4	80.3	
	8:50	4/16/2012	0.0	0.4	19.7	79.9	
	9:04	4/30/2012	0.4	5.6	1.4	92.7	
	9:05	5/14/2012	0.0	6.0	3.2	90.8	
	8:55	5/29/2012	2.1	10.4	1.1	86.5	
	7:35	6/11/2012	0.4	8.4	6.8	84.4	
	9:23	6/25/2012	4.6	10.4	4.2	80.8	
	8:50	7/9/2012	10.0	14.0	0.8	75.2	
	8:15	7/23/2012	2.6	9.2	7.8	80.5	
	10:15	7/25/2012	2.1	6.8	10.4	80.8	
	8:45	8/6/2012	3.3	10.4	7.3	79.0	
	9:05	8/21/2012	0.6	6.2	11.5	81.8	
	9:04	9/4/2012	3.3	9.2	8.4	79.1	
	8:45	10/1/2012	0.0	3.8	13.9	82.3	
	8:21	10/15/2012	0.0	3.8	14.0	82.2	
	7:20	12/6/2012	0.0	6.0	13.8	80.2	
	8:50	12/17/2012	0.0	3.2	14.4	82.4	
	8:35	12/31/2012	0.0	3.2	16.0	80.8	
	8:30	1/9/2013	0.0	6.2	12.2	81.6	
	10:15	1/15/2013	0.0	3.8	15.7	80.5	
	8:50	1/28/2013	0.0	3.4	14.7	81.9	
	10:35	2/11/2013	0.0	1.6	16.2	82.2	
	9:05	2/25/2013	0.0	1.4	17.7	80.9	
	7:18	3/8/2013	0.0	0.6	19.0	80.4	
	8:35	3/22/2013	0.0	1.4	17.8	80.8	
	13:35	4/8/2013	0.0	0.2	20.9	78.9	
	15:05	4/22/2013	0.0	0.0	20.0	80.0	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-1	9:30	4/29/2013	0.0	0.2	20.9	78.9	
	8:20	5/13/2013	0.0	1.2	18.8	80.0	
	13:05	5/28/2013	0.0	2.0	17.9	80.1	
	8:35	6/7/2013	0.0	4.8	11.7	83.5	
	8:05	6/21/2013	0.0	6.0	10.7	83.3	
	8:35	7/5/2013	0.0	3.4	9.2	87.4	
	7:40	7/22/2013	0.1	5.8	11.7	82.5	
	8:45	8/5/2013	2.9	8.6	8.0	80.5	
	8:05	8/19/2013	1.5	2.8	17.1	78.6	
	8:20	9/15/2013	0.7	5.4	13.3	80.7	
	8:35	9/16/2013	0.5	4.4	14.6	80.5	
	7:20	9/30/2013	0.6	6.8	11.0	81.6	
	8:05	10/14/2013	1.0	4.2	15.2	79.6	
	7:20	10/28/2013	0.0	3.2	16.1	80.7	
	7:48	11/19/2013	0.0	4.2	15.2	80.6	
	7:20	12/2/2013	0.0	5.0	12.2	82.8	
	7:02	12/16/2013	0.0	5.4	12.7	81.9	
	7:00	12/27/2013	0.0	4.6	14.0	81.4	
	7:01	1/13/2014	0.0	1.2	17.6	81.2	
	7:05	1/30/2014	0.0	0.0	20.9	79.1	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-2	9:00	3/22/2006	**29.5**	27.8	0.5	42.2	pre-startup
	14:40	3/23/2006	**29.1**	24.5	0.8	45.6	
	14:20	3/30/2006	**11.5**	13.1	10.7	64.7	
	14:05	4/6/2006	**10.3**	12.6	10.2	66.9	
	14:15	4/11/2006	**5.4**	5.7	15.3	73.6	
	11:56	4/14/2006	**6.8**	12.1	8.7	72.4	
	11:00	4/17/2006	0.0	0.0	20.7	79.3	
	9:55	4/28/2006	0.0	0.1	20.7	79.2	
	14:15	5/4/2006	1.5	18.9	3.0	76.6	
	11:15	5/22/2006	0.0	0.0	20.5	79.5	
	12:49	6/2/2006	1.0	0.1	19.7	79.2	
	9:00	6/9/2006	1.9	0.5	20.4	77.2	
	13:20	6/14/2006	4.8	1.0	20.1	74.1	
	10:00	6/22/2006	0.6	0.2	20.4	78.8	
	12:34	7/5/2006	0.7	1.5	19.9	77.9	
	11:48	7/10/2006	0.7	0.8	19.6	78.9	
	11:15	7/17/2006	0.7	1.2	18.8	79.3	
	13:05	7/28/2006	0.5	0.7	19.1	79.7	
	10:50	8/8/2006	0.6	0.2	19.6	79.6	
	7:53	8/16/2006	0.1	0.0	19.9	80.0	
	7:40	8/21/2006	0.5	0.1	20.4	79.0	
	13:40	8/28/2006	0.0	0.0	20.2	79.8	
	10:50	9/13/2006	0.1	0.1	20.2	79.6	
	10:10	9/25/2006	0.6	9.5	13.7	76.2	
	7:45	10/10/2006	0.7	1.8	19.8	77.7	
	7:46	10/23/2006	0.7	3.9	18.0	77.4	
	13:24	11/2/2006	0.5	0.3	17.6	81.6	
	12:38	11/14/2006	0.1	5.2	15.7	79.1	
	10:51	11/27/2006	0.1	0.6	20.0	79.3	
	13:55	12/26/2006	0.3	6.2	14.5	79.1	
	12:25	1/27/2007	0.3	1.6	19.1	79.1	
	12:15	2/24/2007	0.3	3.6	16.5	79.7	
	16:05	3/28/2007	0.2	2.4	18.0	79.5	
	11:07	5/1/2007	0.0	3.8	15.2	81.0	
	12:17	5/30/2007	0.0	1.2	18.5	80.3	
	13:20	6/19/2007	0.1	7.6	11.5	80.9	
	11:20	8/13/2007	0.0	0.4	20.5	79.1	
	10:54	10/18/2007	0.1	1.0	18.8	80.1	
	13:10	1/23/2008	0.4	1.2	20.2	78.2	
	7:45	6/12/2008	0.0	2.2	18.6	79.2	
	11:05	7/21/2008	0.0	0.6	20.4	79.0	
	12:34	10/3/2008	0.0	0.6	20.9	78.5	
	11:40	10/13/2008	0.0	0.4	20.9	78.7	
	11:15	1/27/2009	0.3	1.8	20.3	77.6	
	10:46	4/9/2009	0.0	0.0	20.1	79.9	
	10:40	7/22/2009	0.0	0.8	18.9	80.3	
	10:05	10/28/2009	0.0	2.2	18.1	79.7	
	10:15	1/26/2010	0.3	3.0	17.1	79.7	
	11:39	5/25/2010	0.0	0.0	19.1	80.9	
	10:10	9/28/2010	0.0	2.4	17.1	80.5	
	11:10	1/25/2011	0.2	0.4	20.0	79.4	
	7:45	4/25/2011	0.2	3.0	17.4	79.4	
	7:37	7/13/2011	0.0	0.8	19.9	79.3	
	7:45	10/26/2011	0.0	1.0	20.0	79.0	
	9:26	1/25/2012	0.1	3.6	17.0	79.4	
	9:35	4/2/2012	0.1	0.4	20.9	78.7	
	11:00	7/25/2012	0.0	3.4	16.3	80.3	
	11:30	10/15/2012	0.0	1.8	17.7	80.5	
	10:10	1/15/2013	0.0	3.2	17.5	79.3	
	7:45	4/29/2013	0.0	1.0	20.4	78.6	
	9:35	7/22/2013	0.0	2.4	18.0	79.6	
	9:05	10/14/2013	0.0	3.2	18.6	78.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	7:49	3/22/2006	1.4	1.9	19.9	76.8	pre-startup
	12:57	3/23/2006	0.6	1.2	19.3	78.9	
	15:20	3/23/2006	2.2	4.5	16.4	76.9	
	14:35	3/30/2006	2.1	7.6	11.5	78.8	
	14:30	4/6/2006	1.6	11.8	7.2	79.4	
	14:40	4/11/2006	0.4	4.0	15.6	80.0	
	12:11	4/14/2006	0.0	1.5	18.1	80.4	
	11:20	4/17/2006	1.4	0.2	20.7	77.7	
	10:50	4/28/2006	0.4	0.1	20.7	78.8	
	15:00	5/4/2006	0.0	0.0	20.4	79.6	
	11:38	5/22/2006	0.2	0.0	2.5	97.3	
	13:18	6/2/2006	0.2	0.0	20.2	79.6	
	9:09	6/9/2006	0.8	0.1	20.5	78.6	
	13:45	6/14/2006	1.1	0.1	20.4	78.4	
	11:25	6/22/2006	0.7	0.0	20.1	79.2	
	11:19	7/5/2006	0.6	0.0	20.0	79.4	
	10:37	7/10/2006	0.6	0.0	19.6	79.8	
	0:57	7/17/2006	0.1	0.0	19.0	80.9	
	12:25	7/28/2006	0.6	0.0	19.7	79.7	
	11:32	8/8/2006	0.6	0.0	19.6	79.8	
	7:35	8/16/2006	0.5	0.0	20.0	79.5	
	7:24	8/21/2006	0.0	0.0	20.3	79.7	
	13:26	8/28/2006	0.1	0.0	19.9	80.0	
	10:31	9/13/2006	0.0	0.3	20.3	79.4	
	9:56	9/25/2006	0.6	3.0	17.6	78.8	
	7:20	10/10/2006	0.5	0.9	19.8	78.8	
	7:36	10/23/2006	0.1	0.0	20.6	79.3	
	13:10	11/2/2006	0.5	0.4	20.8	78.3	
	13:00	11/14/2006	0.1	4.2	16.1	79.6	
	10:39	11/27/2006	0.1	0.4	19.4	80.2	
	13:58	12/26/2006	0.3	0.2	20.0	79.6	
GP-3	12:00	1/27/2007	0.1	0.0	19.6	80.4	
	12:30	2/24/2007	0.3	4.6	14.7	80.4	
	15:32	3/28/2007	0.1	0.0	19.9	80.0	
	10:57	5/1/2007	0.1	2.6	16.5	80.8	
	12:33	5/30/2007	0.0	0.4	18.9	80.7	
	13:30	6/19/2007	0.0	0.0	20.9	79.1	
	11:00	8/13/2007	0.0	0.0	20.9	79.1	
	10:00	10/18/2007	0.1	4.0	15.7	80.2	
	13:55	1/23/2008	0.4	0.8	20.6	78.3	
	7:05	6/12/2008	0.0	0.0	20.9	79.1	
	10:30	7/21/2008	0.0	0.0	20.9	79.1	
	12:16	10/3/2008	0.0	0.0	20.9	79.1	
	10:00	10/13/2008	0.0	0.0	20.9	79.1	
	7:50	1/27/2009	0.2	3.6	17.4	78.8	
	11:10	4/9/2009	0.0	0.0	20.2	79.8	
	8:40	7/22/2009	0.0	0.4	19.1	80.5	
	9:24	10/28/2009	0.0	0.2	19.5	80.3	
	8:09	1/26/2010	0.2	0.0	20.4	79.4	
	9:15	5/25/2010	0.0	0.0	19.1	80.9	
	8:50	9/28/2010	0.0	1.8	17.2	81.0	
	8:45	1/25/2011	0.2	0.2	19.8	79.8	
	8:25	4/25/2011	0.2	4.6	14.9	80.3	
	8:15	7/13/2011	0.0	0.0	20.1	79.9	
	11:12	10/26/2011	0.0	0.2	20.4	79.4	
	11:30	1/25/2012	0.1	4.2	15.4	80.3	
	8:50	4/2/2012	0.0	0.0	20.9	79.1	
	8:27	7/25/2012	0.0	2.4	15.4	82.2	
	10:59	10/15/2012	0.0	0.0	19.0	81.0	
	11:00	1/15/2013	0.0	3.8	15.3	80.9	
	13:00	4/29/2013	0.0	1.2	19.3	79.5	
	9:12	7/22/2013	0.0	2.0	18.3	79.7	
	9:15	10/14/2013	0.0	0.6	20.3	79.1	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-4	9:11	3/22/2006	0.0	1.4	20.4	78.2	pre-startup
	15:35	3/23/2006	0.0	0.8	19.8	79.4	
	15:40	3/30/2006	0.5	0.8	21.8	76.9	
	14:40	4/6/2006	0.8	1.3	18.9	79.0	
	14:35	4/11/2006	0.2	0.9	19.2	79.7	
	12:18	4/14/2006	0.0	1.3	18.1	80.6	
	11:35	4/17/2006	1.3	0.8	20.4	77.5	
	10:40	4/28/2006	0.0	0.5	20.2	79.3	
	15:10	5/4/2006	1.3	0.6	13.2	84.9	
	11:50	5/22/2006	0.1	0.2	20.4	79.3	
	13:10	6/2/2006	0.2	0.8	19.1	79.9	
	9:12	6/9/2006	3.4	1.2	20.2	75.2	
	14:00	6/14/2006	0.0	0.0	19.9	80.1	
	10:39	6/22/2006	6.0	18.8	6.4	68.8	
	11:26	7/5/2006	0.6	0.6	20.0	78.8	
	10:43	7/10/2006	0.4	3.8	19.9	75.9	
	10:08	7/17/2006	0.9	0.6	19.6	78.9	
	12:34	7/28/2006	0.6	0.4	19.6	79.4	
	9:21	8/8/2006	0.6	0.3	19.7	79.4	
	7:42	8/16/2006	0.5	0.7	19.9	78.9	
	7:28	8/21/2006	0.4	0.5	20.0	79.1	
	13:31	8/28/2006	0.5	0.5	20.1	78.9	
	10:35	9/13/2006	0.7	0.6	20.2	78.5	
	9:59	9/25/2006	0.1	0.2	19.1	80.6	
	7:24	10/10/2006	0.6	0.5	20.3	78.6	
	7:40	10/23/2006	0.4	0.0	20.4	79.2	
	13:17	11/2/2006	0.5	0.2	21.0	78.3	
	13:11	11/14/2006	0.2	1.4	19.0	79.5	
	10:42	11/27/2006	0.1	0.6	19.7	79.7	
	14:04	12/26/2006	0.3	0.8	19.6	79.4	
	12:09	1/27/2007	0.1	0.4	19.6	79.9	
	12:38	2/24/2007	0.4	1.0	19.4	79.3	
	15:40	3/28/2007	0.1	0.2	19.8	79.9	
	10:50	5/1/2007	0.0	1.2	18.2	80.6	
	12:37	5/30/2007	0.0	1.8	17.5	80.7	
	13:40	6/19/2007	0.0	0.8	20.0	79.2	
	11:05	8/13/2007	0.0	0.6	20.6	78.8	
	10:10	10/18/2007	0.1	1.2	17.9	80.8	
	13:25	1/23/2008	0.3	0.4	20.9	78.4	
	7:25	6/12/2008	0.0	0.2	20.9	78.9	
	10:45	7/21/2008	0.0	1.2	19.2	79.6	
	11:18	10/3/2008	0.0	0.0	20.9	79.1	
	10:05	10/13/2008	0.0	1.2	19.7	79.1	
	7:05	1/27/2009	0.1	1.4	20.1	78.5	
	11:15	4/9/2009	0.0	0.6	19.4	80.0	
	10:37	7/22/2009	0.0	0.6	18.9	80.5	
	9:33	10/28/2009	0.0	0.6	19.3	80.1	
	8:14	1/26/2010	0.3	0.2	20.5	79.1	
	8:11	5/25/2010	0.1	0.8	18.5	80.7	
	9:05	9/28/2010	0.0	2.2	16.6	81.2	
	7:20	1/25/2011	0.0	0.0	19.6	80.4	
	7:30	4/25/2011	0.2	1.6	18.9	79.3	
	7:18	7/13/2011	0.0	1.0	19.4	79.6	
	11:15	10/26/2011	0.0	0.8	20.4	78.8	
	7:17	1/25/2012	0.1	1.0	19.1	79.8	
	9:15	4/2/2012	0.1	0.0	20.9	79.0	
	7:51	7/25/2012	0.0	1.2	18.2	80.6	
	11:08	10/15/2012	0.0	0.6	18.7	80.7	
	11:10	1/15/2013	0.0	2.4	18.4	79.2	
	8:06	4/29/2013	0.0	2.2	18.7	79.1	
	9:20	7/22/2013	0.0	2.2	17.6	80.2	
	9:25	10/14/2013	0.0	1.2	20.9	77.9	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:13	3/22/2006	0.0	4.4	17.6	78.0	pre-startup
	14:15	3/23/2006	0.0	4.2	17.6	78.2	
	14:05	3/30/2006	1.2	2.5	18.8	77.5	
	13:40	4/6/2006	1.1	3.0	17.9	78.0	
	13:45	4/11/2006	0.7	2.7	17.5	79.1	
	12:50	4/14/2006	0.1	3.5	15.4	81.0	
	10:30	4/17/2006	0.0	3.6	16.2	80.2	
	10:35	4/28/2006	2.2	7.0	13.0	77.8	
	10:40	5/22/2006	1.5	8.5	11.2	78.8	
	12:25	6/2/2006	0.1	7.2	9.4	83.3	
	8:45	6/9/2006	0.1	0.3	10.5	89.1	
	12:18	6/14/2006	0.1	0.0	9.1	90.8	
	11:18	6/22/2006	0.7	10.7	10.5	78.1	
	11:51	7/5/2006	0.6	11.9	11.1	76.4	
	11:17	7/10/2006	0.7	12.0	10.1	77.2	
	10:22	7/17/2006	0.8	11.9	11.1	76.2	
	8:24	7/28/2006	0.6	10.1	11.5	77.8	
	10:16	8/8/2006	0.6	11.8	10.1	77.5	
	8:35	8/16/2006	0.8	10.0	10.5	78.7	
	8:02	8/21/2006	0.5	0.8	10.9	87.8	
	13:54	8/28/2006	0.6	11.3	13.3	74.8	
	11:07	9/13/2006	0.1	0.0	13.4	86.5	
	10:26	9/25/2006	0.0	0.0	13.4	86.6	
	8:52	10/10/2006	0.7	8.9	14.4	76.0	
	8:00	10/23/2006	0.3	1.4	15.5	82.8	
	14:37	11/2/2006	0.3	7.2	14.0	78.5	
	13:25	11/14/2006	0.2	6.0	14.9	78.9	
	11:10	11/27/2006	0.2	5.2	15.7	79.0	
	12:35	12/26/2006	0.1	4.8	15.7	79.5	
	13:09	1/27/2007	0.4	5.4	15.8	78.4	
GP-5	10:55	2/24/2007	0.4	4.2	17.3	78.2	
	17:30	3/28/2007	0.3	3.4	16.6	79.8	
	10:22	5/1/2007	0.1	3.4	14.0	82.5	
	12:40	5/30/2007	0.0	6.4	9.9	83.7	
	16:25	6/19/2007	0.0	7.4	12.1	80.5	
	11:39	8/13/2007	0.0	8.4	11.8	79.8	
	10:20	10/18/2007	0.1	9.6	9.4	80.9	
	13:12	1/23/2008	0.3	5.6	15.7	78.4	
	9:00	6/12/2008	0.0	6.0	9.7	84.3	
	12:05	7/21/2008	0.0	10.6	7.7	81.7	
	11:55	10/3/2008	0.0	8.2	12.7	79.1	
	11:08	10/13/2008	0.0	6.6	14.1	79.3	
	7:10	1/27/2009	0.2	3.2	14.0	82.7	
	11:02	4/9/2009	0.0	2.8	16.8	80.4	
	7:30	7/22/2009	0.0	7.8	13.0	79.2	
	10:20	10/28/2009	0.0	5.6	14.4	80.0	
	9:05	1/26/2010	0.3	4.8	16.2	78.8	
	8:40	5/25/2010	0.0	6.4	9.5	84.1	
	11:00	9/28/2010	0.0	8.8	11.6	79.6	
	8:04	1/25/2011	0.2	4.4	17.0	78.4	
	10:35	4/25/2011	0.2	3.0	16.0	80.8	
	6:28	7/13/2011	0.0	9.4	10.7	79.9	
	12:05	10/26/2011	0.0	6.6	15.5	77.9	
	10:25	1/25/2012	0.1	4.8	14.9	80.2	
	10:48	4/2/2012	0.1	3.8	16.3	79.8	
	10:24	7/25/2012	0.0	7.0	11.9	81.1	
	9:00	10/15/2012	0.0	4.8	15.2	80.0	
	11:18	1/15/2013	0.0	4.6	16.9	78.5	
	10:08	4/29/2013	0.0	2.0	16.4	81.6	
	8:15	7/22/2013	0.0	9.2	7.4	83.4	
	7:54	10/14/2013	0.0	6.8	14.9	78.3	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-6	7:45	3/22/2006	0.0	6.1	13.9	80.0	pre-startup
	15:55	3/23/2006	0.0	4.9	16.3	78.8	
	15:15	3/30/2006	0.0	1.7	18.3	80.0	
	14:25	4/6/2006	0.0	2.8	16.9	80.3	
	14:30	4/11/2006	0.7	2.8	17.3	79.2	
	12:04	4/14/2006	0.0	3.8	14.6	81.6	
	11:15	4/17/2006	**10.4**	2.3	17.6	69.7	
	10:30	4/28/2006	0.0	2.5	18.3	79.2	
	14:30	5/4/2006	0.0	2.7	17.9	79.4	
	11:30	5/22/2006	3.8	3.9	18.1	74.2	
	13:04	6/2/2006	0.2	2.4	17.2	80.2	
	9:25	6/9/2006	0.1	0.8	17.7	81.4	
	14:10	6/14/2006	1.3	3.3	16.8	78.6	
	9:50	6/22/2006	0.5	3.1	17.3	79.1	
	11:13	7/5/2006	0.5	3.6	17.1	78.8	
	10:34	7/10/2006	0.6	3.9	16.7	78.8	
	9:58	7/17/2006	0.1	0.6	16.8	82.5	
	12:10	7/28/2006	0.6	3.6	16.5	79.3	
	9:05	8/8/2006	0.6	3.5	17.0	78.9	
	7:29	8/16/2006	0.1	0.0	17.2	82.7	
	7:18	8/21/2006	0.5	3.6	18.1	77.8	
	13:21	8/28/2006	0.0	0.0	18.1	81.9	
	10:20	9/13/2006	0.6	1.0	19.1	79.3	
	11:05	9/25/2006	0.7	2.6	18.5	78.2	
	7:30	10/10/2006	0.8	2.3	19.7	77.2	
	7:34	10/23/2006	0.9	2.4	14.4	82.3	
	13:05	11/2/2006	2.4	0.8	19.7	77.1	
	13:14	11/14/2006	0.2	3.0	17.9	78.9	
	10:35	11/27/2006	0.1	0.6	19.6	79.8	
	14:20	12/26/2006	0.3	3.0	18.0	78.7	
	13:45	1/27/2007	0.2	3.4	17.0	79.5	
	12:45	2/24/2007	0.4	3.0	18.1	78.5	
	16:00	3/28/2007	0.2	2.4	18.0	79.5	
	10:45	5/1/2007	0.1	3.0	16.4	80.5	
	12:23	5/30/2007	0.0	3.2	15.8	81.0	
	16:15	6/19/2007	0.0	2.4	17.8	79.8	
	10:54	8/13/2007	0.1	2.6	18.5	78.9	
	11:14	10/18/2007	0.1	3.4	16.4	80.1	
	11:28	1/23/2008	0.0	3.0	18.0	79.0	
	6:55	6/12/2008	0.0	2.6	17.8	79.6	
	11:00	7/21/2008	0.0	3.0	15.5	81.5	
	12:53	10/3/2008	0.0	3.8	17.7	78.5	
	9:55	10/13/2008	0.0	3.4	18.2	78.4	
	10:05	1/27/2009	0.2	3.0	18.4	78.4	
	10:58	4/9/2009	0.0	3.2	16.6	80.2	
	10:20	7/22/2009	0.0	3.6	17.1	79.3	
	9:10	10/28/2009	0.0	2.6	17.2	80.2	
	8:00	1/26/2010	0.1	3.0	17.4	79.6	
	8:18	5/25/2010	0.0	2.4	16.5	81.1	
	8:42	9/28/2010	0.0	4.2	14.6	81.2	
	11:25	1/25/2011	0.2	0.4	20.0	79.4	
	7:00	4/25/2011	0.1	3.0	17.2	79.7	
	7:32	7/13/2011	0.0	2.8	17.1	80.1	
	7:25	10/26/2011	0.0	3.0	18.3	78.7	
	7:08	1/25/2012	0.1	1.2	18.8	79.9	
	8:40	4/2/2012	0.1	0.2	20.9	78.8	
	8:01	7/25/2012	0.0	2.4	17.7	79.9	
	10:38	10/15/2012	0.0	1.8	18.1	80.1	
	8:50	1/15/2013	0.0	2.8	18.0	79.2	
	7:58	4/29/2013	0.0	2.4	17.8	79.8	
	9:46	7/22/2013	0.0	3.0	16.7	80.3	
	9:45	10/14/2013	0.0	2.4	19.6	78.0	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-7	7:40	3/22/2006	1.0	7.0	13.0	79.0	pre-startup
	15:50	3/23/2006	0.1	5.0	14.7	80.2	
	15:00	3/30/2006	7.1	4.6	18.2	70.1	
	14:20	4/6/2006	0.1	2.3	17.0	80.6	
	14:25	4/11/2006	0.2	3.2	16.3	80.3	
	12:07	4/14/2006	0.1	5.2	11.8	82.9	
	10:15	4/17/2006	10.5	1.3	18.5	69.7	
	10:25	4/28/2006	0.0	1.7	19.2	79.1	
	14:25	5/4/2006	1.2	2.2	18.8	77.8	
	11:22	5/22/2006	0.0	1.0	19.5	79.5	
	13:00	6/2/2006	0.2	1.6	18.5	79.7	
	9:20	6/9/2006	3.7	2.4	20.0	73.9	
	14:05	6/14/2006	3.1	2.5	19.2	75.2	
	9:45	6/22/2006	0.5	1.7	19.1	78.7	
	11:10	7/5/2006	0.5	1.5	19.3	78.7	
	10:30	7/10/2006	0.0	0.0	18.6	81.4	
	9:55	7/17/2006	0.1	0.0	18.5	81.4	
	12:05	7/28/2006	0.0	3.7	18.5	77.8	
	9:00	8/8/2006	0.6	1.3	19.0	79.1	
	7:25	8/16/2006	0.5	1.5	19.2	78.8	
	7:16	8/21/2006	0.5	1.4	19.8	78.3	
	13:19	8/28/2006	0.4	1.2	19.5	78.9	
	10:19	9/13/2006	0.6	1.3	19.9	78.2	
	11:03	9/25/2006	1.8	2.2	17.7	78.3	
	7:28	10/10/2006	0.7	1.4	19.5	78.4	
	7:32	10/23/2006	3.0	2.8	19.0	75.2	
	13:00	11/2/2006	0.5	1.6	19.8	78.1	
	13:18	11/14/2006	0.2	3.2	17.2	79.4	
	10:30	11/27/2006	0.0	1.2	19.0	79.8	
	14:15	12/26/2006	0.3	2.6	18.0	79.1	
	13:40	1/27/2007	0.1	3.4	16.7	79.9	
	12:40	2/24/2007	0.4	3.2	17.2	79.2	
	15:55	3/28/2007	0.1	1.2	18.9	79.8	
	10:43	5/1/2007	0.1	3.6	15.1	81.2	
	12:26	5/30/2007	0.0	3.6	15.6	80.8	
	16:20	6/19/2007	0.0	2.6	17.5	79.9	
	10:50	8/13/2007	0.1	1.4	19.3	79.3	
	11:10	10/18/2007	0.1	3.6	15.5	80.8	
	11:24	1/23/2008	0.0	3.2	17.6	79.2	
	10:48	6/12/2008	0.0	1.4	18.4	80.2	
	10:55	7/21/2008	0.0	2.6	17.3	80.1	
	12:50	10/3/2008	0.0	1.8	19.6	78.6	
	9:50	10/13/2008	0.1	1.6	19.4	79.0	
	10:00	1/27/2009	0.2	3.0	18.2	78.6	
	10:58	4/9/2009	0.0	3.2	16.6	80.2	
	10:15	7/22/2009	0.0	0.4	19.1	80.5	
	9:05	10/28/2009	0.0	1.4	18.2	80.4	
	7:50	1/26/2010	0.0	0.4	20.0	79.6	
	8:14	5/25/2010	0.0	1.8	17.7	80.5	
	8:35	9/28/2010	0.0	4.0	14.3	81.7	
	11:20	1/25/2011	0.2	0.4	20.0	79.4	
	6:55	4/25/2011	0.1	3.2	16.6	80.1	
	7:29	7/13/2011	0.0	1.4	19.1	79.5	
	7:20	10/26/2011	0.0	0.6	19.9	79.5	
	7:05	1/25/2012	0.1	2.0	18.0	79.9	
	8:35	4/2/2012	0.0	2.4	18.3	79.3	
	7:59	7/25/2012	0.0	1.8	17.4	80.8	
	10:30	10/15/2012	0.0	1.6	18.0	80.4	
	8:37	1/15/2013	0.0	3.2	17.1	79.7	
	7:55	4/29/2013	0.0	3.2	16.2	80.6	
	9:52	7/22/2013	0.0	2.6	17.6	79.8	
	9:40	10/14/2013	0.0	1.4	20.5	78.1	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-8	9:03	3/22/2006	0.0	2.4	18.6	79.0	pre-startup
	14:50	3/23/2006	0.0	1.9	18.6	79.5	
	14:55	3/30/2006	3.0	7.2	14.8	75.0	
	14:10	4/6/2006	0.0	7.0	10.9	82.1	
	14:20	4/11/2006	0.0	4.8	13.6	81.6	
	12:25	4/14/2006	0.0	5.4	12.2	82.4	
	11:10	4/17/2006	0.0	0.1	20.7	79.2	
	10:00	4/28/2006	0.0	0.2	20.4	79.4	
	14:20	5/4/2006	0.0	0.2	19.3	80.5	
	11:18	5/22/2006	0.6	0.1	20.4	78.9	
	12:55	6/2/2006	0.2	0.7	19.3	79.8	
	9:03	6/9/2006	2.4	0.6	20.3	76.7	
	13:37	6/14/2006	4.0	1.6	19.6	74.8	
	9:55	6/22/2006	0.5	0.5	19.8	79.2	
	12:27	7/5/2006	1.6	0.9	19.6	77.9	
	11:45	7/10/2006	0.7	1.2	19.2	78.9	
	11:10	7/17/2006	0.6	2.3	17.7	79.4	
	12:45	7/28/2006	0.6	0.8	19.0	79.6	
	10:58	8/8/2006	17.8	1.3	19.1	61.8	
	7:47	8/16/2006	0.1	0.2	19.5	80.2	
	7:33	8/21/2006	0.8	1.3	19.6	78.3	
	13:35	8/28/2006	0.0	0.0	19.1	80.9	
	10:47	9/13/2006	0.0	0.0	20.1	79.9	
	10:06	9/25/2006	0.0	0.0	17.5	82.5	
	7:26	10/10/2006	0.1	0.0	19.3	80.6	
	7:44	10/23/2006	0.7	1.4	19.6	78.3	
	13:20	11/2/2006	3.7	0.3	20.5	75.5	
	13:04	11/14/2006	0.1	4.2	15.1	80.6	
	10:45	11/27/2006	0.1	0.6	19.4	79.9	
	14:09	12/26/2006	0.3	0.8	19.2	79.7	
	12:15	1/27/2007	0.2	0.0	19.7	80.1	
	12:20	2/24/2007	0.3	5.2	12.8	81.8	
	15:47	3/28/2007	0.1	0.6	19.6	79.7	
	11:00	5/1/2007	0.0	8.5	7.6	83.9	
	12:20	5/30/2007	0.0	3.4	15.2	81.4	
	13:25	6/19/2007	0.0	0.6	20.2	79.2	
	11:10	8/13/2007	0.0	1.0	19.8	79.2	
	11:05	10/18/2007	0.1	6.0	11.5	82.4	
	11:38	1/23/2008	0.1	1.0	19.2	79.8	
	7:35	6/12/2008	0.0	0.6	20.7	78.7	
	10:50	7/21/2008	0.0	1.0	19.3	79.7	
	12:45	10/3/2008	0.0	0.4	20.9	78.7	
	10:10	10/13/2008	0.0	1.4	19.4	79.2	
	10:10	1/27/2009	0.3	1.8	19.0	78.9	
	10:51	4/9/2009	0.0	0.4	19.4	80.2	
	10:27	7/22/2009	0.0	0.8	18.8	80.4	
	10:00	10/28/2009	0.0	1.8	17.8	80.4	
	9:30	1/26/2010	0.3	0.4	20.0	79.4	
	8:25	5/25/2010	0.0	1.0	18.4	80.6	
	9:11	9/28/2010	0.0	5.4	12.7	81.9	
	11:15	1/25/2011	0.2	0.4	20.0	79.4	
	7:40	4/25/2011	0.2	4.4	14.4	81.0	
	7:23	7/13/2011	0.0	0.8	19.2	80.0	
	7:30	10/26/2011	0.0	0.8	20.4	78.8	
	7:27	1/25/2012	0.1	1.6	18.7	79.6	
	9:25	4/2/2012	0.1	1.0	20.4	78.5	
	11:07	7/25/2012	0.0	3.0	16.0	81.0	
	11:15	10/15/2012	0.0	1.0	18.3	80.7	
	8:59	1/15/2013	0.0	3.2	16.8	80.0	
	7:49	4/29/2013	0.0	3.6	15.3	81.1	
	9:30	7/22/2013	0.0	3.0	16.5	80.5	
	9:10	10/14/2013	0.0	2.2	18.4	79.4	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-10	8:58	3/22/2006	0.0	4.5	15.4	80.1	pre-startup
	14:42	3/23/2006	0.0	4.3	15.5	80.2	
	14:50	3/30/2006	0.0	1.6	18.7	79.7	
	14:15	4/6/2006	0.0	2.3	17.1	80.6	
	13:55	4/11/2006	0.0	1.5	18.3	80.2	
	11:54	4/14/2006	0.0	1.9	17.4	80.7	
	10:50	4/17/2006	0.0	3.0	16.5	80.5	
	9:50	4/28/2006	0.0	3.6	15.0	81.4	
	14:00	5/4/2006	0.0	3.4	15.4	81.2	
	11:04	5/22/2006	0.0	1.3	19.0	79.7	
	12:45	6/2/2006	0.1	1.8	17.6	80.5	
	8:55	6/9/2006	0.7	0.9	19.6	78.8	
	13:15	6/14/2006	0.0	0.0	17.7	82.3	
	10:05	6/22/2006	0.6	0.8	19.9	78.7	
	12:38	7/5/2006	0.6	5.3	14.9	79.2	
	11:50	7/10/2006	0.6	5.5	14.6	79.3	
	11:19	7/17/2006	0.6	1.4	19.4	78.6	
	13:09	7/28/2006	0.6	1.0	19.2	79.2	
	11:11	8/8/2006	0.6	4.7	14.7	80.0	
	7:58	8/16/2006	0.1	0.2	16.4	83.3	
	7:44	8/21/2006	0.4	3.5	17.3	78.8	
	13:42	8/28/2006	0.0	0.0	17.7	82.3	
	10:53	9/13/2006	0.6	2.4	18.6	78.4	
	10:12	9/25/2006	0.7	5.5	16.0	77.8	
	7:48	10/10/2006	0.7	5.3	19.2	74.8	
	7:48	10/23/2006	0.6	5.0	17.5	76.9	
	13:31	11/2/2006	0.6	4.3	17.3	77.8	
	12:35	11/14/2006	0.1	4.2	16.3	79.5	
	10:55	11/27/2006	0.1	4.0	16.8	79.1	
	13:50	12/26/2006	0.3	4.2	16.7	78.9	
	12:35	1/27/2007	0.3	4.0	17.2	78.5	
	12:10	2/24/2007	sampling port clogged with ice				
	16:10	3/28/2007	0.2	3.2	17.5	79.2	
	11:10	5/1/2007	0.0	3.8	15.7	80.5	
	12:15	5/30/2007	0.0	3.4	16.0	80.6	
	13:15	6/19/2007	0.1	1.8	18.7	79.5	
	11:24	8/13/2007	0.0	1.0	19.4	79.6	
	10:50	10/18/2007	0.1	2.4	16.9	80.6	
	14:20	1/23/2008	0.4	2.8	18.8	78.0	
	7:55	6/12/2008	0.0	4.0	16.0	80.0	
	11:15	7/21/2008	0.0	4.6	12.6	82.8	
	12:30	10/3/2008	0.0	5.0	16.4	78.6	
	11:50	10/13/2008	0.0	4.6	16.4	79.0	
	11:30	1/27/2009	0.3	3.4	18.2	78.1	
	10:41	4/9/2009	0.0	3.2	16.6	80.2	
	10:47	7/22/2009	0.0	2.8	17.2	80.0	
	10:05	10/28/2009	0.0	2.8	17.5	79.7	
	10:30	1/26/2010	0.3	0.8	19.6	79.3	
	11:50	5/25/2010	0.0	0.4	19.0	80.6	
	10:16	9/28/2010	0.0	1.8	17.7	80.5	
	11:00	1/25/2011	0.2	0.4	20.0	79.4	
	7:50	4/25/2011	0.2	3.4	17.0	79.4	
	7:41	7/13/2011	0.0	1.4	19.2	79.4	
	7:50	10/26/2011	0.0	2.4	19.2	78.4	
	9:45	1/25/2012	0.1	4.4	16.2	79.3	
	9:45	4/2/2012	0.1	4.2	17.0	78.7	
	10:52	7/25/2012	0.0	4.0	15.7	80.3	
	10:21	10/15/2012	0.0	3.2	15.0	81.8	
	10:20	1/15/2013	0.0	3.0	17.5	79.5	
	7:43	4/29/2013	0.0	3.0	17.1	79.9	
	8:33	7/22/2013	0.0	4.8	13.5	81.7	
	9:00	10/14/2013	0.0	3.6	17.9	78.5	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-11	9:09	3/22/2006	0.0	3.5	17.6	78.9	pre-startup
	14:27	3/23/2006	0.0	3.4	17.6	79.0	
	14:40	3/30/2006	0.0	0.8	19.7	79.5	
	13:55	4/6/2006	0.0	1.7	18.0	80.3	
	14:00	4/11/2006	0.0	0.7	19.8	79.5	
	11:43	4/14/2006	0.0	0.5	18.9	80.6	
	10:55	4/17/2006	0.3	0.1	20.4	79.2	
	7:30	4/28/2006	0.0	0.7	20.2	79.1	
	14:05	5/4/2006	0.0	0.0	19.9	80.1	
	11:07	5/22/2006	2.6	0.3	20.4	76.7	
	12:34	6/2/2006	1.0	0.1	20.4	78.5	
	9:45	6/9/2006	4.9	0.6	20.2	74.3	
	13:23	6/14/2006	0.8	0.3	20.0	78.9	
	10:10	6/22/2006	0.6	0.0	20.4	79.0	
	12:41	7/5/2006	0.5	1.4	18.5	79.6	
	11:55	7/10/2006	0.6	2.5	18.6	78.3	
	11:21	7/17/2006	0.5	1.5	18.1	79.9	
	13:15	7/28/2006	0.1	0.2	18.2	81.5	
	10:36	8/8/2006	0.6	2.2	17.8	79.4	
	8:01	8/16/2006	0.1	0.0	17.9	82.0	
	7:46	8/21/2006	0.5	2.4	19.0	78.1	
	13:45	8/28/2006	0.6	2.6	18.6	78.2	
	10:55	9/13/2006	0.1	2.7	19.2	78.0	
	10:14	9/25/2006	0.7	2.1	19.0	78.2	
	8:00	10/10/2006	0.7	2.0	18.5	78.8	
	7:52	10/23/2006	0.7	1.0	20.6	77.7	
	13:34	11/2/2006	0.6	1.5	19.8	78.1	
	12:44	11/14/2006	0.1	2.0	18.4	79.6	
	10:58	11/27/2006	0.1	1.0	19.6	79.3	
	13:40	12/26/2006	0.3	2.0	18.4	79.4	
	12:41	1/27/2007	0.4	2.6	18.2	78.9	
	11:10	2/24/2007	0.4	2.6	18.1	78.9	
	16:14	3/28/2007	0.2	2.6	17.8	79.5	
	11:15	5/1/2007	0.0	3.4	15.9	80.7	
	12:06	5/30/2007	0.0	3.0	16.8	80.2	
	13:05	6/19/2007	0.1	2.8	18.3	78.8	
	11:27	8/13/2007	0.0	2.2	18.8	79.0	
	10:34	10/18/2007	0.1	2.8	17.0	80.1	
	12:10	1/23/2008	0.2	2.4	19.2	78.2	
	8:05	6/12/2008	0.0	2.6	18.0	79.4	
	11:20	7/21/2008	0.0	3.4	16.6	80.0	
	12:23	10/3/2008	0.0	2.0	19.4	78.6	
	12:00	10/13/2008	0.0	2.2	19.1	78.7	
	10:45	1/27/2009	0.3	3.0	18.5	78.2	
	9:50	4/9/2009	0.0	3.4	16.8	79.8	
	10:53	7/22/2009	0.0	2.0	18.1	79.9	
	10:11	10/28/2009	0.0	2.4	17.9	79.7	
	9:15	1/26/2010	0.3	2.6	18.5	78.6	
	8:30	5/25/2010	0.0	3.2	16.5	80.3	
	10:25	9/28/2010	0.0	3.0	16.8	80.2	
	10:29	1/25/2011	0.2	3.6	16.6	79.6	
	7:55	4/25/2011	0.2	4.0	17.2	78.6	
	6:47	7/13/2011	0.0	2.8	18.3	78.9	
	10:10	10/26/2011	0.0	3.0	18.5	78.5	
	7:40	1/25/2012	0.1	2.6	18.4	78.9	
	9:55	4/2/2012	0.1	3.6	17.9	78.4	
	10:39	7/25/2012	0.0	1.8	17.9	80.3	
	10:05	10/15/2012	0.0	1.6	18.2	80.2	
	7:40	1/15/2013	0.0	2.2	19.1	78.7	
	7:35	4/29/2013	0.0	2.6	17.4	80.0	
	8:40	7/22/2013	0.0	2.4	18.5	79.1	
	8:36	10/14/2013	0.0	1.8	20.8	77.4	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
GP-12	9:06	3/22/2006	0.0	5.7	13.0	81.3	pre-startup
	14:22	3/23/2006	0.0	5.5	13.2	81.3	
	14:20	3/30/2006	0.0	2.6	17.7	79.7	
	13:50	4/6/2006	0.2	2.1	17.3	80.4	
	13:50	4/11/2006	0.0	2.5	17.1	80.4	
	11:40	4/14/2006	0.0	2.5	15.5	82.0	
	10:45	4/17/2006	1.4	3.7	18.4	76.5	
	12:20	4/28/2006	0.0	2.4	18.0	79.6	
	13:54	5/4/2006	0.0	0.0	17.3	82.7	
	11:00	5/22/2006	1.4	2.7	17.5	78.4	
	12:28	6/2/2006	0.1	1.8	17.4	80.7	
	8:50	6/9/2006	0.9	2.1	19.2	77.8	
	13:10	6/14/2006	0.1	0.0	17.5	82.4	
	10:20	6/22/2006	0.5	2.2	18.2	79.1	
	11:57	7/5/2006	0.6	2.2	18.2	79.0	
	11:22	7/10/2006	0.6	2.7	18.2	78.5	
	10:39	7/17/2006	0.7	2.6	17.5	79.2	
	13:28	7/28/2006	0.6	1.5	18.2	79.7	
	11:22	8/8/2006	0.6	2.6	17.5	79.3	
	8:58	8/16/2006	4.1	18.6	10.0	67.3	
	8:44	8/21/2006	0.6	3.2	18.5	77.7	
	14:26	8/28/2006	0.0	0.0	19.4	80.6	
	11:42	9/13/2006	0.1	0.9	17.9	81.1	
	11:40	9/25/2006	0.8	3.4	16.8	79.0	
	8:47	10/10/2006	0.7	3.8	17.6	77.9	
	8:50	10/23/2006	0.7	4.1	16.4	78.8	
	14:55	11/2/2006	3.9	14.0	7.7	74.5	
	15:30	11/14/2006	0.3	3.6	16.7	79.5	
	11:05	11/27/2006	0.2	2.4	18.0	79.5	
	13:35	12/26/2006	0.3	3.8	15.7	80.3	
	13:18	1/27/2007	0.4	3.8	15.7	80.1	
	12:00	2/24/2007	0.2	3.2	16.6	80.0	
	17:40	3/28/2007	0.2	3.4	16.4	80.0	
	10:30	5/1/2007	0.1	2.6	16.1	81.3	
	12:02	5/30/2007	0.0	2.8	16.0	81.2	
	16:30	6/19/2007	0.0	2.8	18.1	79.1	
	11:35	8/13/2007	0.0	2.6	18.3	79.1	
	10:26	10/18/2007	0.1	4.0	15.2	80.7	
	13:08	1/23/2008	0.3	7.2	12.2	80.3	
	9:10	6/12/2008	0.0	2.4	17.1	80.5	
	11:45	7/21/2008	0.0	2.6	17.0	80.4	
	12:00	10/3/2008	0.0	4.0	17.6	78.4	
	11:30	10/13/2008	0.0	3.0	18.0	79.0	
	7:15	1/27/2009	0.2	5.6	15.3	78.9	
	9:44	4/9/2009	0.0	3.4	15.8	80.8	
	7:35	7/22/2009	0.0	2.4	17.9	79.7	
	11:15	10/28/2009	0.0	3.2	16.4	80.4	
	9:10	1/26/2010	0.3	5.2	14.9	79.7	
	11:55	5/25/2010	0.0	2.4	16.1	81.5	
	11:10	9/28/2010	0.0	4.0	15.3	80.7	
	8:19	1/25/2011	0.3	5.4	14.6	79.7	
	11:00	4/25/2011	0.1	3.2	16.1	80.6	
	6:35	7/13/2011	0.0	2.4	17.5	80.1	
	11:30	10/26/2011	0.0	3.6	17.8	78.6	
	10:35	1/25/2012	0.1	4.6	14.8	80.5	
	11:00	4/2/2012	0.1	3.2	16.1	80.6	
	10:32	7/25/2012	0.0	2.6	16.9	80.5	
	9:08	10/15/2012	0.0	3.2	16.1	80.7	
	11:30	1/15/2013	0.0	5.4	13.6	81.0	
	8:12	4/29/2013	0.0	3.2	16.0	80.8	
	8:24	7/22/2013	0.0	3.2	16.8	80.0	
	8:10	10/14/2013	0.0	3.2	18.6	78.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-101	9:24	3/23/2006	2.9	18.1	0.8	78.2	pre-startup
	14:25	3/30/2006	1.0	8.0	10.9	80.1	
	14:00	4/6/2006	0.8	0.2	20.0	79.0	
	14:05	4/11/2006	0.0	0.0	20.3	79.7	
	11:50	4/14/2006	0.0	1.8	17.9	80.3	
	10:58	4/17/2006	2.0	0.3	20.5	77.2	
	7:35	4/28/2006	0.0	0.0	20.7	79.3	
	14:10	5/4/2006	0.0	0.0	20.2	79.8	
	11:10	5/22/2006	0.0	0.0	20.5	79.5	
	12:38	6/2/2006	0.2	0.0	20.4	79.4	
	9:50	6/9/2006	1.1	0.2	20.5	78.2	
	13:48	6/14/2006	4.1	0.3	20.4	75.2	
	10:15	6/22/2006	0.0	0.0	20.4	79.6	
	12:46	7/5/2006	0.6	20.0	20.0	59.4	
	12:00	7/10/2006	0.6	0.0	20.0	79.4	
	11:30	7/17/2006	0.0	0.0	19.8	80.2	
	13:20	7/28/2006	0.6	0.0	19.3	80.1	
	10:41	8/8/2006	0.8	0.0	19.8	79.4	
	8:05	8/16/2006	0.1	0.0	19.6	80.3	
	7:52	8/21/2006	0.9	0.1	20.4	78.6	
	13:47	8/28/2006	0.6	0.1	20.2	79.1	
	10:57	9/13/2006	0.6	0.2	19.8	79.4	
	10:16	9/25/2006	0.6	0.2	20.2	79.0	
	8:03	10/10/2006	0.7	0.2	20.5	78.6	
	7:55	10/23/2006	0.9	0.7	19.8	78.6	
	15:00	11/2/2006	0.3	0.0	20.8	78.9	
	12:48	11/14/2006	0.1	0.4	19.4	80.1	
	11:00	11/27/2006	0.1	0.2	20.0	79.7	
	13:45	12/26/2006	0.3	0.0	19.3	80.5	
	12:45	1/27/2007	0.4	0.6	20.0	79.1	
	11:14	2/24/2007	0.5	0.6	20.1	78.9	
	16:18	3/28/2007	0.2	0.2	20.1	79.5	
	11:19	5/1/2007	0.0	0.2	18.8	81.0	
	12:08	5/30/2007	0.0	0.2	18.9	80.9	
	13:10	6/19/2007	0.1	0.0	20.9	79.1	
	11:30	8/13/2007	0.0	0.0	20.9	79.1	
	10:37	10/18/2007	0.1	0.0	19.6	80.4	
	12:18	1/23/2008	0.2	5.8	14.4	79.6	
	14:45	5/12/2008	0.0	0.0	19.8	80.2	
	8:15	6/12/2008	0.0	0.0	20.9	79.1	
	11:30	7/21/2008	0.0	0.0	20.9	79.1	
	12:20	10/3/2008	0.0	0.4	20.9	78.7	
	12:05	10/13/2008	0.0	0.0	20.9	79.1	
	10:40	1/27/2009	0.3	4.8	15.7	79.3	
	11:57	4/9/2009	0.0	0.0	19.9	80.1	
	10:57	7/22/2009	0.0	0.0	19.4	80.6	
	10:16	10/28/2009	0.0	0.6	19.6	79.8	
	9:20	1/26/2010	0.3	0.8	19.4	79.5	
	8:34	5/25/2010	0.0	0.0	19.3	80.7	
	10:32	9/28/2010	0.0	1.0	17.7	81.3	
	10:45	1/25/2011	0.2	0.4	20.0	79.4	
	8:00	4/25/2011	0.2	0.4	20.9	78.5	
	6:50	7/13/2011	0.0	0.0	20.5	79.5	
	10:15	10/26/2011	0.0	0.6	20.4	79.0	
	7:38	1/25/2012	0.1	0.6	19.5	79.8	
	10:00	4/2/2012	0.1	0.2	20.9	78.8	
	10:43	7/25/2012	0.0	0.0	19.1	80.9	
	10:15	10/15/2012	0.0	0.4	18.9	80.7	
	7:50	1/15/2013	0.0	1.8	18.7	79.5	
	7:39	4/29/2013	0.0	0.4	20.9	78.7	
	8:45	7/22/2013	0.0	0.0	20.9	79.1	
	8:45	10/14/2013	0.0	0.4	20.9	78.7	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
MW-102	14:20	3/23/2006	0.0	0.7	20.5	78.8	pre-startup
	14:15	3/30/2006	1.0	0.5	20.6	77.9	
	13:35	4/6/2006	1.0	0.6	20.3	78.1	
	13:43	4/11/2006	0.5	0.3	19.7	79.5	
	11:50	4/14/2006	0.0	0.3	18.6	81.1	
	10:34	4/17/2006	0.8	0.7	20.1	78.4	
	14:00	4/28/2006	0.0	0.0	20.7	79.3	
	13:35	5/4/2006	0.0	0.2	20.5	79.3	
	10:42	5/22/2006	0.2	0.1	2.4	97.3	
	8:48	6/9/2006	0.0	0.0	19.8	80.2	
	12:20	6/14/2006	0.1	0.0	19.5	80.4	
	11:20	6/22/2006	0.7	0.1	19.9	79.3	
	11:53	7/5/2006	0.6	0.0	20.0	79.4	
	11:19	7/10/2006	0.6	4.7	15.1	79.6	
	10:20	7/17/2006	0.9	0.8	19.0	79.3	
	12:40	7/28/2006	0.6	0.6	18.6	80.2	
	10:13	8/8/2006	0.6	1.2	18.5	79.7	
	8:42	8/16/2006	0.1	0.0	17.7	82.2	
	8:00	8/21/2006	0.1	0.0	18.5	81.4	
	13:55	8/28/2006	0.6	1.8	18.8	78.8	
	11:05	9/13/2006	0.1	0.0	19.5	80.4	
	10:25	9/25/2006	0.1	0.0	19.2	80.7	
	8:44	10/10/2006	0.7	1.0	19.6	78.7	
	8:05	10/23/2006	0.8	0.4	19.6	79.2	
	14:42	11/2/2006	0.3	0.0	20.8	78.9	
	13:30	11/14/2006	0.2	0.2	20.0	79.6	
	11:12	11/27/2006	0.2	0.0	20.2	79.7	
	12:39	12/26/2006	0.1	0.0	20.0	79.9	
	13:10	1/27/2007	0.4	0.2	20.2	79.2	
	11:00	2/24/2007	0.4	0.2	20.6	78.9	
	17:35	3/28/2007	0.2	0.2	20.0	79.6	
	10:24	5/1/2007	0.0	1.4	17.0	81.6	
	11:57	5/30/2007	0.0	1.4	16.7	81.9	
	16:00	6/19/2007	0.0	0.0	20.6	79.4	
	11:42	8/13/2007	0.0	2.8	16.6	80.6	
	10:24	10/18/2007	0.1	4.2	15.0	80.7	
	14:05	1/23/2008	0.4	1.2	20.9	77.5	
	9:05	6/12/2008	0.0	0.6	18.9	80.5	
	12:10	7/21/2008	0.0	1.6	16.4	82.0	
	11:52	10/3/2008	0.0	3.6	16.8	79.6	
	11:03	10/13/2008	0.0	18.7	1.8	79.5	
	11:00	1/27/2009	0.3	1.0	20.8	78.0	
	9:29	4/9/2009	0.0	0.4	19.1	80.5	
	11:35	7/22/2009	0.0	1.8	16.1	82.1	
	10:25	10/28/2009	0.0	2.6	17.4	80.0	
	10:40	1/26/2010	0.3	2.2	18.4	79.1	
	8:44	5/25/2010	0.0	1.4	16.8	81.8	
	11:05	9/28/2010	0.0	4.6	14.1	81.3	
	8:08	1/25/2011	0.2	1.2	19.2	79.4	
	10:10	4/25/2011	0.1	0.2	20.7	79.0	
	6:30	7/13/2011	0.0	1.8	14.2	84.0	
	12:08	10/26/2011	0.0	2.4	18.4	79.2	
	10:30	1/25/2012	0.1	0.4	17.9	81.6	
	10:37	4/2/2012	0.1	1.4	18.5	80.0	
	10:28	7/25/2012	0.0	3.0	15.0	82.0	
	9:05	10/15/2012	0.0	2.8	16.7	80.5	
	11:21	1/15/2013	0.0	1.6	19.6	78.8	
	10:05	4/29/2013	0.0	0.6	19.2	80.2	
	8:11	7/22/2013	0.0	2.2	14.3	83.5	
	7:59	10/14/2013	0.0	4.0	17.4	78.6	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	7:49	3/23/2006	0.0	0.2	21.8	78.0	pre-startup
	15:30	3/30/2006	0.0	1.9	18.2	79.9	
	14:35	4/6/2006	0.4	8.0	9.4	82.2	
	14:40	4/11/2006	0.0	6.4	10.8	82.8	
	12:15	4/14/2006	0.0	3.2	15.6	81.2	
	11:30	4/17/2006	0.0	0.0	20.7	79.3	
	10:45	4/28/2006	0.0	0.0	20.5	79.5	
	15:05	5/4/2006	0.4	0.0	13.5	86.1	
	11:42	5/22/2006	0.2	0.0	20.6	79.2	
	13:14	6/2/2006	0.2	0.0	20.1	79.7	
	9:10	6/9/2006	1.1	0.1	20.5	78.3	
	13:30	6/14/2006	0.6	0.3	20.4	78.7	
	11:28	6/22/2006	0.7	0.0	20.2	79.1	
	11:27	7/5/2006	0.6	0.0	20.4	79.0	
	10:40	7/10/2006	0.0	0.0	19.9	80.1	
	10:06	7/17/2006	0.8	0.4	19.4	79.4	
	12:30	7/28/2006	0.6	0.0	19.9	79.5	
	9:17	8/8/2006	0.6	0.0	19.9	79.5	
	7:34	8/16/2006	0.1	0.0	19.9	80.0	
	7:25	8/21/2006	0.5	0.0	20.1	79.4	
	13:29	8/28/2006	0.1	0.0	20.3	79.6	
	10:34	9/13/2006	0.0	0.0	20.4	79.6	
	9:57	9/25/2006	0.0	0.1	19.3	80.6	
	7:22	10/10/2006	0.5	0.2	20.4	78.9	
	7:38	10/23/2006	0.6	0.0	20.8	78.6	
	13:14	11/2/2006	0.0	0.3	21.0	78.7	
	13:08	11/14/2006	0.2	9.2	11.2	79.5	
	10:40	11/27/2006	0.1	0.0	20.1	79.9	
	14:00	12/26/2006	0.3	0.2	20.1	79.5	
	12:05	1/27/2007	0.1	0.0	19.8	80.2	
MW-103	12:34	2/24/2007	0.4	4.2	16.3	79.2	
	15:35	3/28/2007	0.1	0.0	20.0	79.9	
	10:52	5/1/2007	0.1	0.8	18.7	80.4	
	12:40	5/30/2007	0.0	0.4	18.9	80.7	
	13:35	6/19/2007	0.0	0.0	20.9	79.1	
	11:05	8/13/2007	0.0	0.0	20.9	79.1	
	10:05	10/18/2007	0.1	1.2	18.5	80.2	
	13:45	1/23/2008	0.4	0.2	20.9	78.5	
	7:15	6/12/2008	0.0	0.4	20.9	78.7	
	10:40	7/21/2008	0.0	0.0	20.9	79.1	
	11:20	10/3/2008	0.0	0.0	20.9	79.1	
	10:05	10/13/2008	0.0	0.4	20.7	78.9	
	7:00	1/27/2009	0.0	0.0	20.9	79.1	
	11:17	4/9/2009	0.0	0.0	20.0	80.0	
	10:32	7/22/2009	0.0	0.4	19.6	80.0	
	9:27	10/28/2009	0.0	0.0	19.8	80.2	
	8:14	1/26/2010	0.3	2.2	18.0	79.5	
	8:08	5/25/2010	0.0	0.0	19.3	80.7	
	8:57	9/28/2010	0.0	0.0	18.9	81.1	
	7:15	1/25/2011	0.0	0.2	19.4	80.4	
	7:25	4/25/2011	0.2	3.0	17.5	79.3	
	7:15	7/13/2011	0.0	0.0	20.5	79.5	
	7:35	10/26/2011	0.0	0.0	20.9	79.1	
	7:14	1/25/2012	0.2	2.6	16.9	80.3	
	9:10	4/2/2012	0.0	0.0	20.9	79.1	
	7:48	7/25/2012	0.0	3.4	15.5	81.1	
	10:50	10/15/2012	0.0	0.2	18.9	80.9	
	11:05	1/15/2013	0.0	3.8	16.5	79.7	
	8:03	4/29/2013	0.0	0.6	20.9	78.5	
	9:15	7/22/2013	0.0	0.6	20.7	78.7	
	9:20	10/14/2013	0.0	0.2	20.9	78.9	

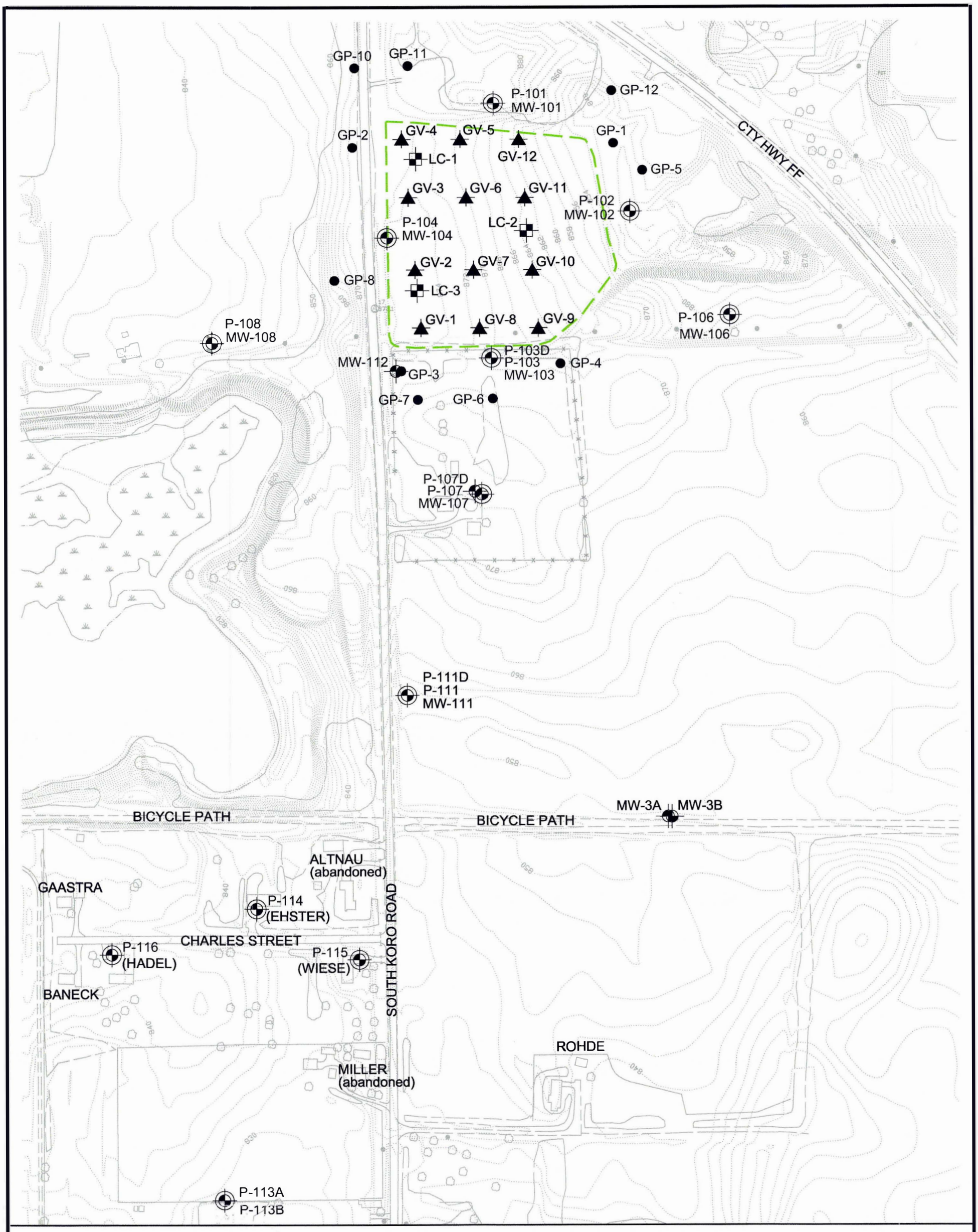
Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
	9:29	3/23/2006	**12.8**	18.5	0.8	67.9	pre-startup
	15:45	3/30/2006	0.0	0.0	20.7	79.3	
	13:10	4/6/2006	**6.8**	8.9	10.5	73.8	
	14:50	4/11/2006	4.1	7.1	9.2	79.6	
	11:40	4/17/2006	2.0	0.3	21.0	76.7	
	14:10	4/28/2006	0.0	0.0	20.7	79.3	
	15:40	5/4/2006	0.0	0.0	8.1	91.9	
	10:27	5/22/2006	0.0	0.1	19.9	80.0	
	8:32	6/9/2006	0.0	0.0	19.6	80.4	
	12:45	6/14/2006	3.2	0.8	18.8	77.2	
	10:54	6/22/2006	0.8	0.1	19.7	79.4	
	12:19	7/5/2006	0.6	0.0	20.0	79.4	
	11:40	7/10/2006	0.7	0.6	19.8	78.9	
	11:05	7/17/2006	0.1	0.0	19.6	80.3	
	12:38	7/28/2006	0.6	0.0	19.8	79.6	
	9:49	8/8/2006	0.6	0.0	20.0	79.4	
	9:14	8/16/2006	0.7	0.2	19.4	79.7	
	8:30	8/21/2006	0.1	0.3	18.1	81.5	
	14:16	8/28/2006	0.0	0.0	17.6	82.4	
	11:29	9/13/2006	0.7	0.2	16.8	82.3	
	11:27	9/25/2006	0.0	0.2	19.5	80.3	
	8:27	10/10/2006	0.7	13.1	4.3	81.9	
	8:30	10/23/2006	0.7	0.3	16.7	82.3	
	14:14	11/2/2006	0.3	0.0	20.6	79.1	
	15:06	11/14/2006	0.2	0.6	19.4	79.8	
	12:04	11/27/2006	0.2	3.0	17.6	79.2	
	13:15	12/26/2006	0.2	0.0	20.0	79.9	
	14:16	1/27/2007	0.1	0.0	19.4	80.5	
	11:35	2/24/2007	0.5	12.8	5.6	81.1	
MW-104	16:55	3/28/2007	0.2	0.2	20.0	79.6	
	11:45	5/1/2007	0.0	0.0	18.9	81.1	
	11:48	5/30/2007	0.0	0.0	19.0	81.0	
	15:30	6/19/2007	0.0	0.0	20.9	79.1	
	12:05	8/13/2007	0.0	0.0	20.9	79.1	
	9:50	10/18/2007	0.1	0.0	19.6	80.3	
	13:20	1/23/2008	0.3	0.6	20.6	78.5	
	9:25	6/12/2008	0.0	0.0	20.9	79.1	
	12:30	7/21/2008	0.0	0.0	20.9	79.1	
	11:37	10/3/2008	0.0	0.0	20.9	79.1	
	10:45	10/13/2008	0.0	0.2	20.9	78.9	
	10:50	1/27/2009	0.2	14.6	3.9	81.3	
	11:40	4/9/2009	0.0	1.2	19.2	79.6	
	7:50	7/22/2009	0.0	0.0	19.6	80.4	
	9:48	10/28/2009	0.0	0.0	20.0	80.0	
	8:25	1/26/2010	0.4	0.2	20.4	79.1	
	11:30	5/25/2010	0.0	0.0	19.3	80.7	
	9:25	9/28/2010	0.0	0.2	18.6	81.2	
	7:45	1/25/2011	0.2	0.6	19.6	79.6	
	8:21	4/25/2011	0.2	0.4	20.5	78.9	
	7:47	7/13/2011	0.0	0.0	20.5	79.5	
	11:05	10/26/2011	0.0	0.2	20.4	79.4	
	7:10	1/25/2012	0.1	1.0	18.5	80.4	
	9:05	4/2/2012	0.0	0.0	20.9	79.1	
	8:07	7/25/2012	0.0	11.0	3.9	85.1	
	8:35	10/15/2012	0.0	0.0	18.1	81.9	
	9:55	1/15/2013	0.0	0.6	20.9	78.5	
	10:00	4/29/2013	0.0	9.4	6.8	83.8	
	7:55	7/22/2013	0.0	5.0	14.2	80.8	
	7:40	10/14/2013	0.0	2.4	17.4	80.2	

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
System Exhaust	2:00	3/28/2006	4.4	4.0	17.8	73.8	
	12:52	5/4/2006	8.6	14.7	7.4	69.3	
	11:15	6/28/2006	5.9	14.5	9.5	70.1	
	11:45	7/5/2006	6.1	18.7	7.2	68.0	
	11:12	7/10/2006	6.7	21.7	5.1	66.5	
	10:31	7/17/2006	6.2	18.6	6.5	68.7	
	14:24	7/28/2006	2.1	19.2	6.1	72.6	
	10:23	8/8/2006	5.9	18.0	6.8	69.3	
	8:30	8/16/2006	6.8	17.3	7.3	68.6	
	8:07	8/21/2006	6.9	18.0	7.6	67.5	
	14:00	8/28/2006	7.1	18.6	7.3	67.0	
	11:13	9/13/2006	15.2	20.0	8.1	56.7	
	11:37	9/25/2006	14.2	24.3	4.8	56.7	
	8:09	10/10/2006	7.4	19.2	8.2	65.2	
	8:13	10/23/2006	12.8	16.3	9.1	61.8	
	9:00	11/2/2006	5.0	14.0	8.2	72.8	
	13:43	11/14/2006	4.4	10.4	10.6	74.6	
	11:19	11/27/2006	3.8	10.2	10.8	75.2	
	12:31	12/26/2006	6.5	14.8	6.9	71.8	
	13:30	1/27/2007	8.0	15.8	6.4	69.8	
	10:45	2/24/2007	6.0	11.6	10.0	72.4	
	7:35	3/5/2007	0.1	0.2	19.8	79.9	
	8:20	3/24/2007	9.0	12.6	9.7	68.7	
	17:10	3/24/2007	8.5	12.6	9.4	69.5	
	17:25	3/26/2007	6.5	11.4	9.8	72.3	
	7:39	3/27/2007	6.5	11.2	10.2	72.1	
	17:25	3/28/2007	6.5	10.0	11.6	71.9	
	8:16	3/29/2007	5.5	8.8	12.3	73.4	
	17:15	3/29/2007	5.0	8.6	12.3	74.1	
	16:09	6/19/2007	12.5	18.2	4.6	64.7	
	11:55	8/13/2007	13.5	20.2	4.1	62.2	
	9:12	10/19/2007	7.5	16.2	5.0	71.3	
	12:50	1/23/2008	8.5	15.6	7.1	68.8	
	8:55	6/12/2008	8.0	15.2	7.3	69.5	
	12:03	7/21/2008	9.5	17.0	5.6	67.9	
	11:15	10/13/2008	6.5	9.8	12.0	71.7	
	7:20	1/27/2009	3.8	6.4	15.7	74.2	
	9:37	4/9/2009	6.5	7.6	13.3	72.6	
	7:40	7/22/2009	5.0	7.8	12.8	74.4	
	10:35	10/28/2009	6.5	7.4	13.9	72.2	
	7:20	1/27/2009	3.8	6.4	15.7	74.2	
	13:15	5/25/2010	5.0	5.2	15.2	74.6	
	10:45	9/28/2010	6.5	5.4	15.3	72.8	
	8:11	1/25/2011	4.4	4.2	17.1	74.3	
	10:40	4/25/2011	24.0	5.5	16.3	54.2	
	8:24	7/13/2011	5.5	3.8	17.4	73.3	
	16:15	9/15/2011	13.0	13.8	9.9	63.3	
	8:22	9/21/2011	34.0	26.8	2.9	36.3	
	9:28	9/21/2011	18.5	18.4	6.5	56.6	
	9:20	9/22/2011	22.5	22.6	3.7	51.2	
	10:05	9/22/2011	17.0	18.0	7.0	58.0	
	10:51	9/22/2011	18.0	18.8	6.0	57.2	
	10:32	10/3/2011	6.0	8.4	13.9	71.7	
	13:43	10/24/2011	7.5	10.0	12.0	70.5	
	10:50	10/26/2011	7.5	16.4	5.8	70.3	
	10:33	11/7/2011	5.5	7.4	14.6	72.5	
	9:11	11/14/2011	5.0	6.4	14.8	73.8	
	10:20	12/12/2011	7.5	4.8	16.6	71.1	
	10:10	12/27/2011	6.5	5.0	15.8	72.7	
	9:10	1/10/2012	6.0	6.0	14.4	73.6	
	10:17	1/25/2012	3.1	2.4	17.6	76.9	
	9:08	2/20/2012	3.1	3.0	19.3	74.6	
	9:35	3/8/2012	8.0	7.2	14.8	70.0	
	10:15	4/2/2012	4.3	4.4	17.4	73.9	
	8:55	4/16/2012	5.0	4.8	16.4	73.8	
	9:45	4/30/2012	7.5	7.4	13.6	71.5	
	9:08	5/14/2012	7.5	7.6	14.2	70.7	
	9:00	5/29/2012	5.5	5.2	15.7	73.6	
	7:38	6/11/2012	7.0	6.0	15.5	71.5	
	9:35	6/25/2012	4.8	4.6	16.3	74.4	
	8:55	7/9/2012	5.0	5.0	15.6	74.4	
	8:20	7/23/2012	6.0	8.0	13.0	73.0	
	10:17	7/25/2012	7.0	8.9	12.1	72.0	
	8:49	8/6/2012	3.9	5.6	15.0	75.6	
	9:10	8/21/2012	4.7	6.6	14.2	74.6	
	9:07	9/4/2012	4.5	6.8	13.5	75.2	
	8:50	10/1/2012	4.4	7.6	13.0	75.1	
	8:25	10/15/2012	4.8	8.4	12.2	74.7	
	7:25	12/6/2012	8.5	9.8	11.6	70.1	
	9:50	12/17/2012	7.5	7.8	12.4	72.3	
	8:40	12/31/2012	10.5	9.0	12.5	68.0	
	8:30	1/9/2013	12.0	10.6	11.6	65.8	
	9:40	1/16/2013	13.5	9.8	11.3	65.4	
	8:55	1/28/2013	6.5	5.4	17.1	71.0	
	10:25	2/11/2013					have to fix drop tube for readings
	9:10	2/25/2013	1.0	0.8	20.9	77.3	
	7:20	3/8/2013					No readings
	8:40	3/22/2013					No readings
	13:40	4/8/2013	6.0	5.8	15.7	72.5	
	15:10	4/22/2013	6.5	7.2	14.9	71.4	
	9:35	4/29/2013	3.5	4.6	16.3	75.7	
	8:22	5/13/2013	3.0	4.4	16.6	76.0	
	13:08	5/28/2013	3.9	5.6	15.2	75.3	
	8:39	6/7/2013	4.5	6.6	14.3	74.6	
	8:09	6/21/2013	5.5	8.4	12.7	73.4	
	8:40	7/5/2013	4.8	7.8	12.9	74.6	
	7:44	7/22/2013	5.5	8.6	12.4	73.5	
	8:50	8/5/2013	6.5	9.0	12.3	72.2	
	8:08	8/19/2013	6.0	8.6	12.4	73.0	
	8:24	9/5/2013	5.0	7.8	13.6	73.6	
	8:38	9/16/2013	6.5	8.6	13.4	71.5	

Table 6c. Landfill Gas Field Parameter Monitoring Results of Gas Probes

Monitoring Points	Time	Date	CH_4 (%) variable	CO_2 (%) variable	O_2 (%) <5	N (%) <40	Comments target percentages
System Exhaust	7:24	9/30/2013	12.0	10.8	11.9	65.3	
	7:24	10/14/2013	11.0	10.2	12.6	66.2	
	8:00	10/28/2013	11.5	9.8	14.0	64.7	
	7:55	11/19/2013	8.5	7.4	15.5	68.6	
	7:23	12/2/2013	11.5	7.8	15.1	65.6	
	7:05	12/16/2013	9.5	7.2	15.3	68.0	
	7:30	12/27/2013					Blower off
	7:02	1/13/2014	12.5	7.8	14.4	65.3	
	7:05	1/30/2014	14.5	9.4	14.0	62.1	

FIGURES



EXPLANATION

P-104 / MW-104	MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
LC-2	LEACHATE HEAD WELL LOCATION, DESIGNATION
	OUTLINE OF CLOSED LANDFILL
GP-1	GAS PROBE LOCATION AND DESIGNATION
GV-1	GAS VENT LOCATION AND DESIGNATION

N

SCALE

0 500

Feet

BASEMAP FROM FOND DU LAC COUNTY PLANNING DIVISION, SPRING 2000.

FF/NN LANDFILL
RIPON, WISCONSIN

SITE LAYOUT

DATE:	10/3/13
DESIGNED:	HJW
CHECKED:	MRN
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	117-2202040

TETRA TECH

Figure 1

S:\CAD\RIPON\2202.040\SITE LAYOUT.DWG

CHARTS

Chart 50: P-107
Layer 2 Well

370' Down gradient

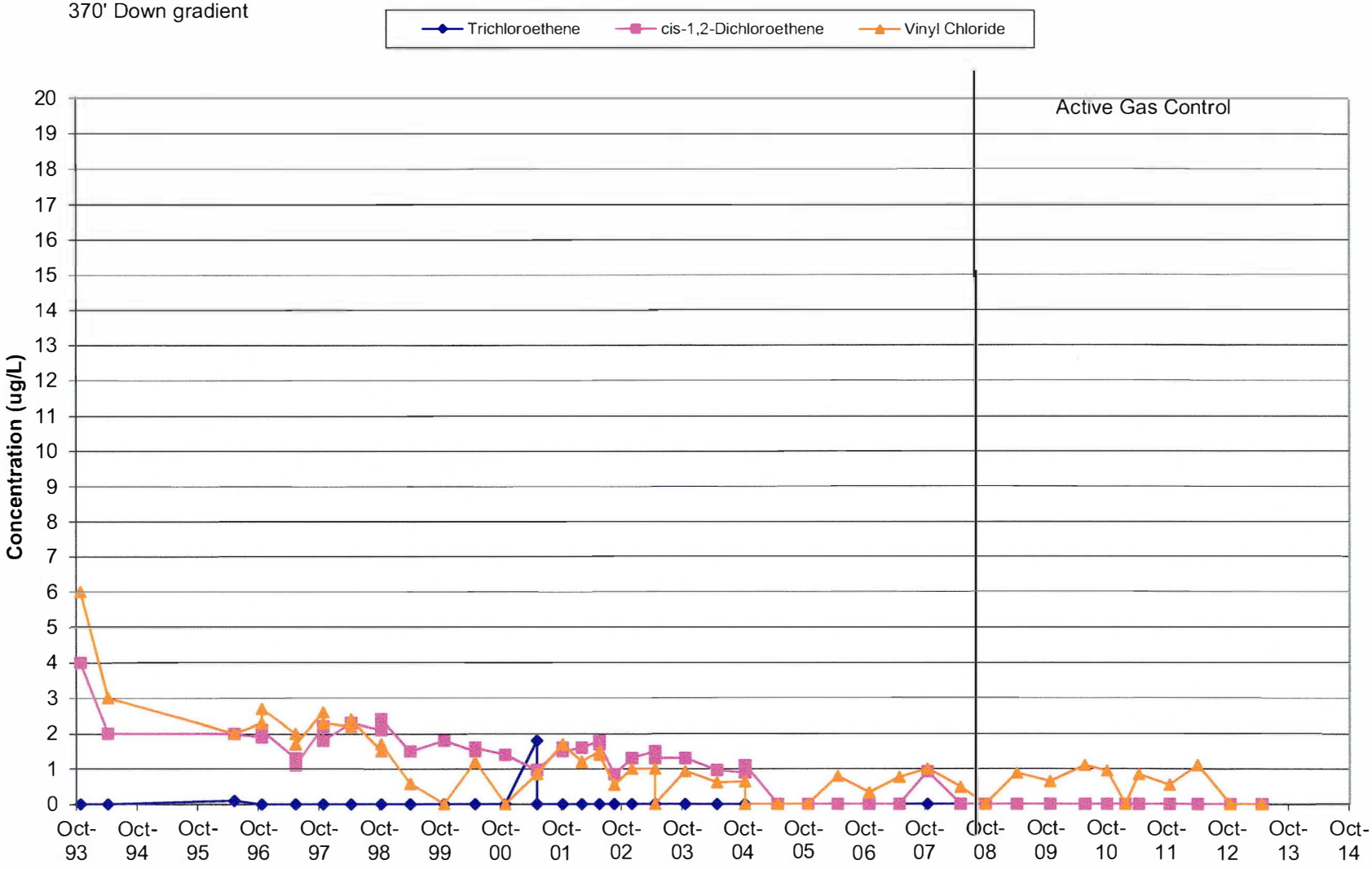


Chart 54: P-111D
Layer 3 Well

900' Down gradient

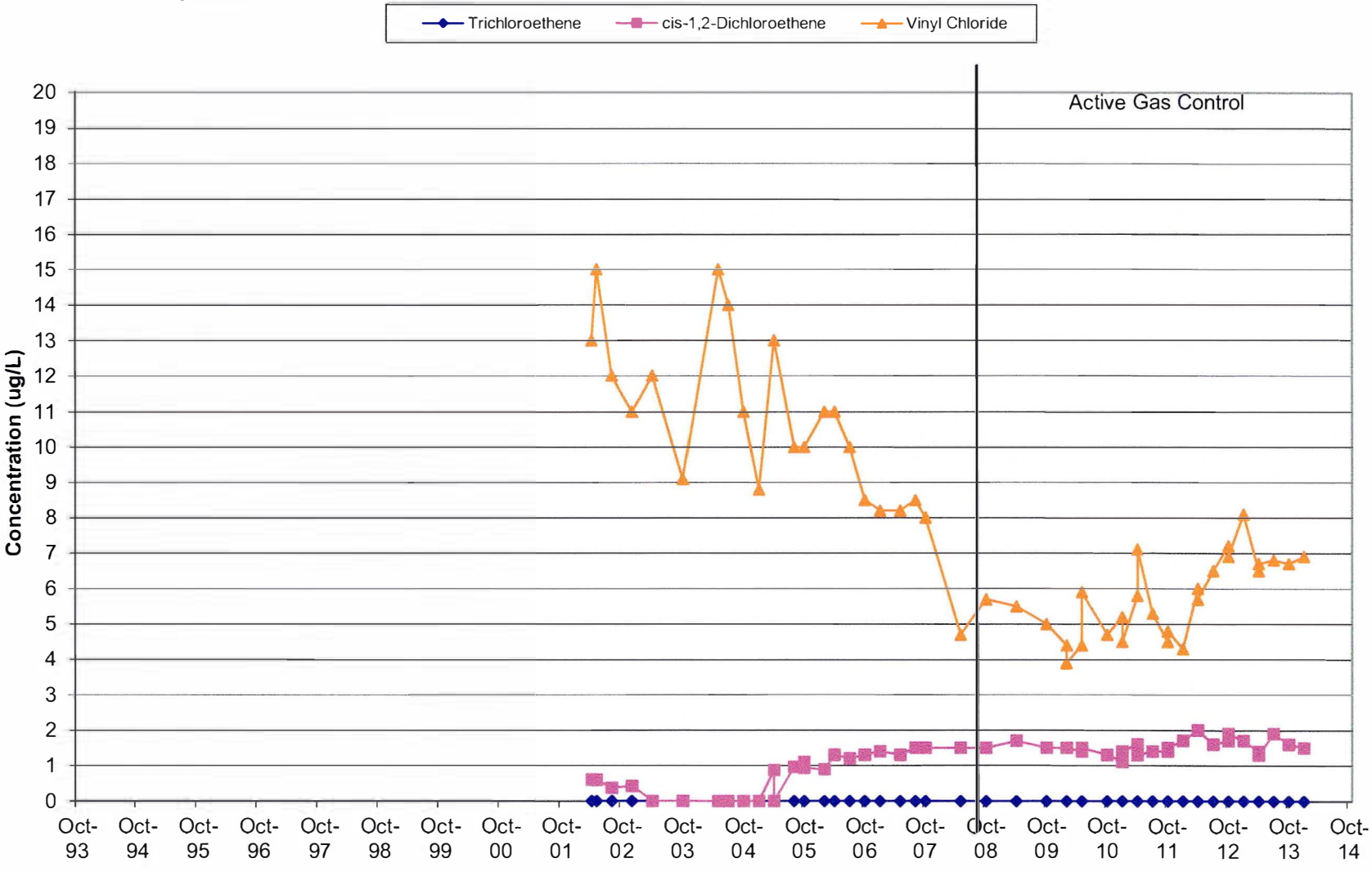


Chart 57: P-114
Layer 3 Well

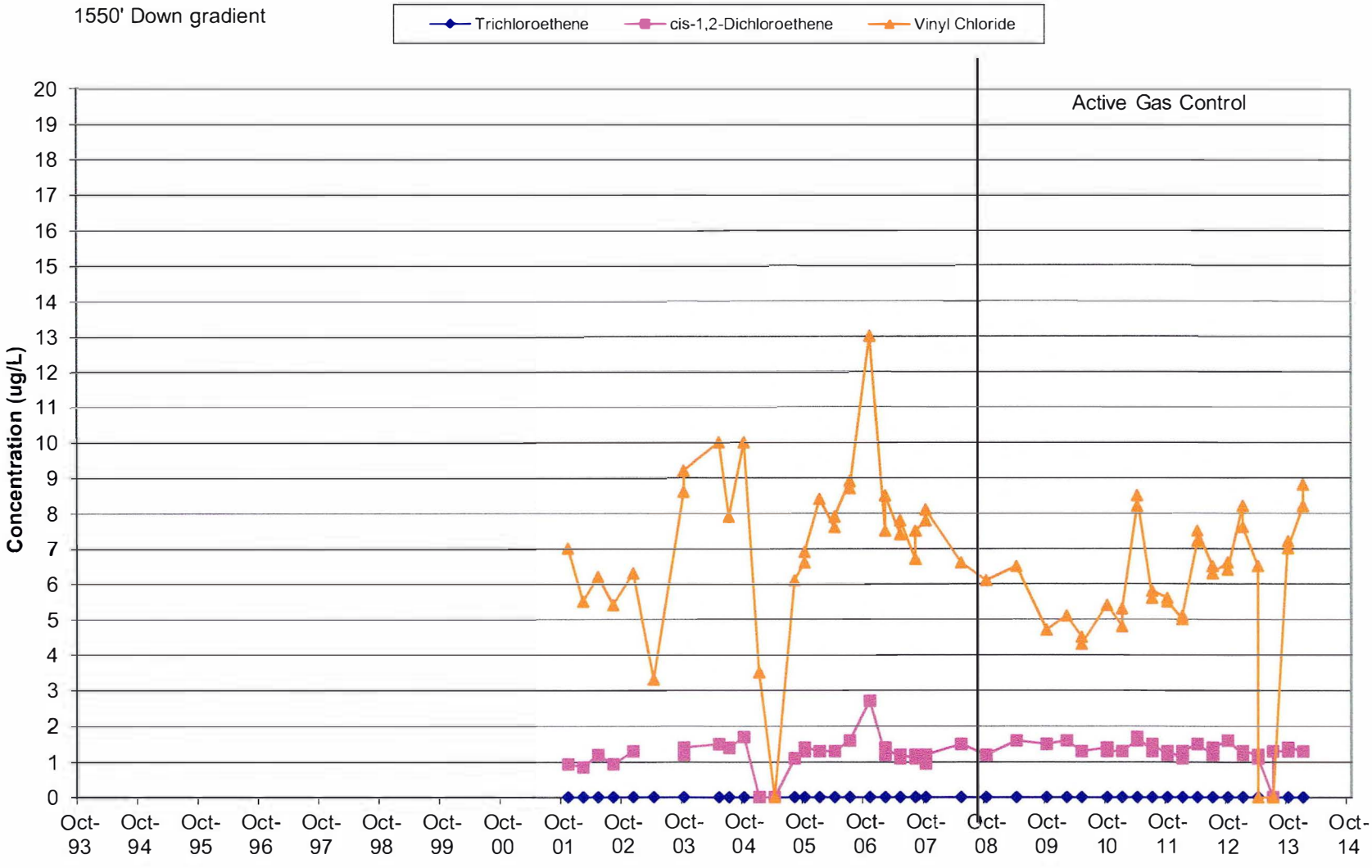


Chart 58: P-115
Layer 3 Well

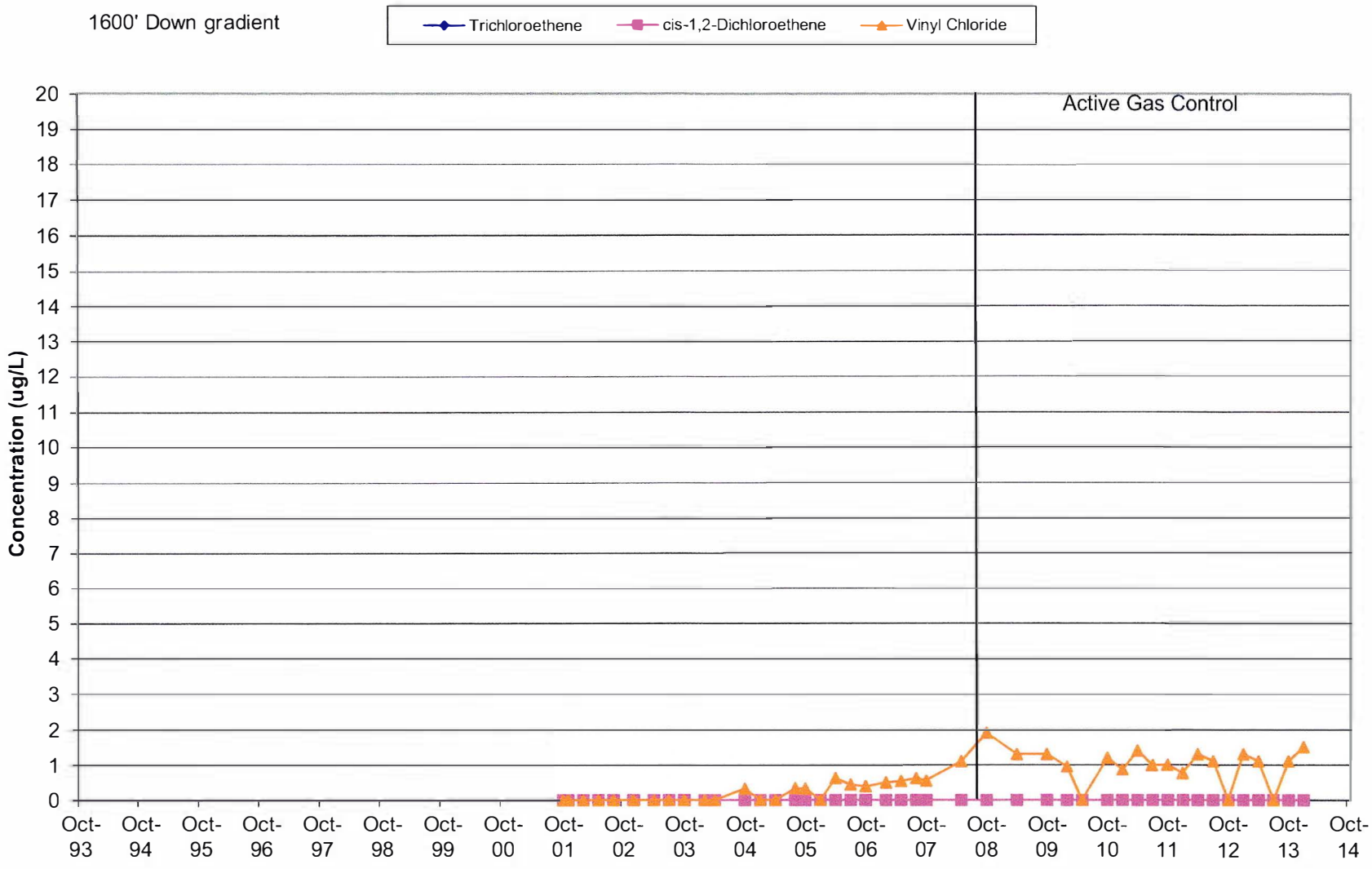
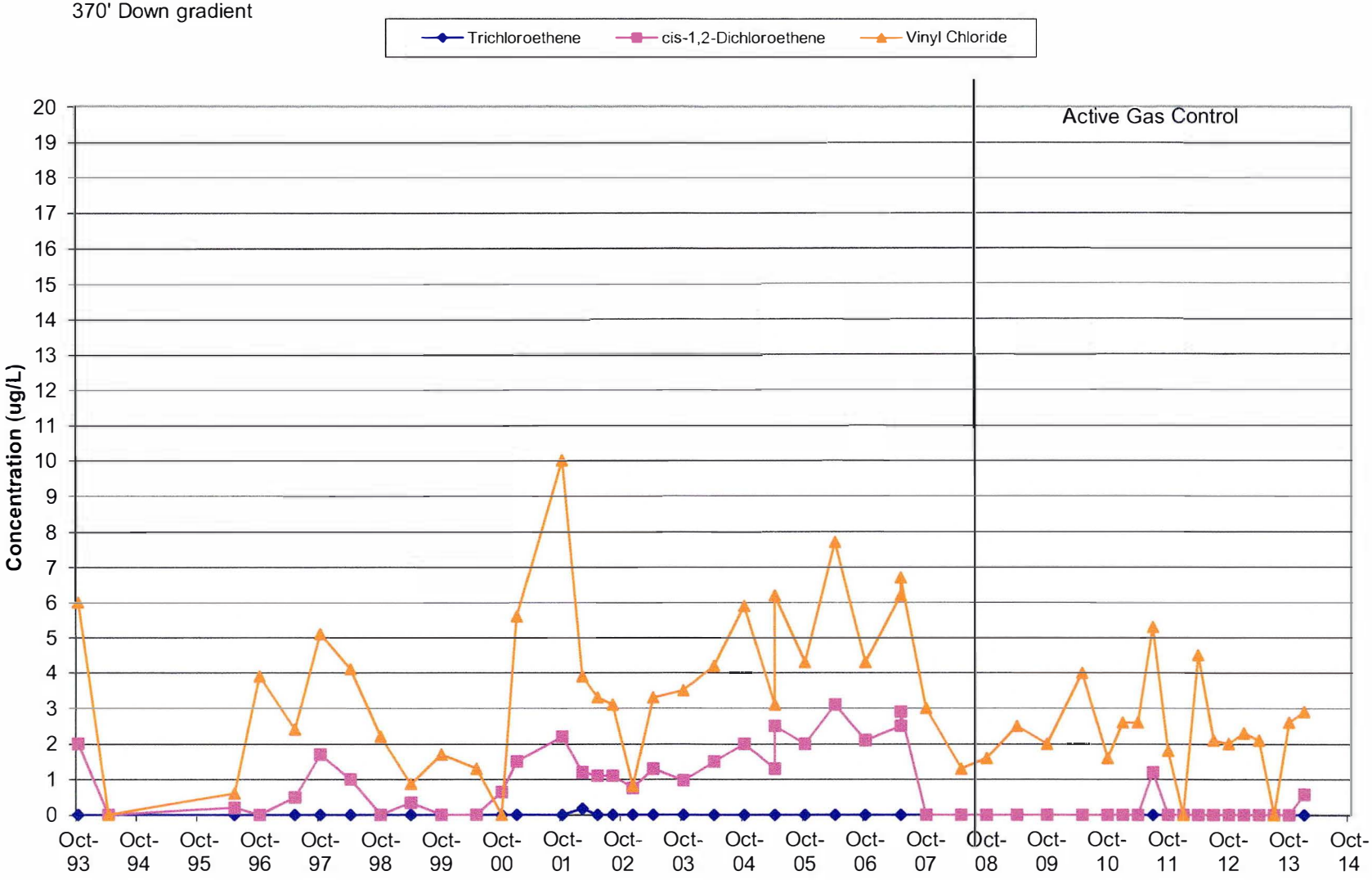


Chart 61: P-107D
Layer 4 Well

370' Down gradient



APPENDICES

APPENDIX B
LABORATORY ANALYTICAL RESULTS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 20, 2014

Mike Noel
Tetra Tech Geo
175 NORTH CORPORATE DRIVE
SUITE 100
Brookfield, WI 53045

RE: Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Dear Mike Noel:
Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

cc: Nelson Olavarria, Cooper Industries

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4090906001	**P-111D**	Water	01/09/14 09:35	01/11/14 09:50
4090906002	**P-107D**	Water	01/09/14 10:20	01/11/14 09:50
4090906003	**P-103D**	Water	01/09/14 11:05	01/11/14 09:50
4090906004	**MW-3A**	Water	01/09/14 11:45	01/11/14 09:50
4090906005	**MW-3B**	Water	01/09/14 12:10	01/11/14 09:50
4090906006	**P-113A**	Water	01/09/14 13:35	01/11/14 09:50
4090906007	**P-113B**	Water	01/09/14 14:00	01/11/14 09:50
4090906008	**P-114**	Water	01/09/14 14:50	01/11/14 09:50
4090906009	**P-114 DUP**	Water	01/09/14 14:55	01/11/14 09:50
4090906010	**P-116**	Water	01/09/14 15:45	01/11/14 09:50
4090906011	**P-115**	Water	01/09/14 16:20	01/11/14 09:50
4090906012	**TRIP BLANK**	Water	01/09/14 00:00	01/11/14 09:50

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4090906001	P-111D	EPA 8260	LAP	45
4090906002	P-107D	EPA 8260	LAP	45
4090906003	P-103D	EPA 8260	LAP	45
4090906004	MW-3A	EPA 8260	LAP	45
4090906005	MW-3B	EPA 8260	LAP	45
4090906006	P-113A	EPA 8260	LAP	45
4090906007	P-113B	EPA 8260	LAP	45
4090906008	P-114	EPA 8260	LAP	45
4090906009	P-114 DUP	EPA 8260	LAP	45
4090906010	P-116	EPA 8260	LAP	45
4090906011	P-115	EPA 8260	LAP	45
4090906012	TRIP BLANK	EPA 8260	LAP	45

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(920)469-2436

ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-111D **Lab ID: 4090906001** Collected: 01/09/14 09:35 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:05	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 10:05	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 10:05	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 10:05	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 10:05	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 10:05	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:05	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:05	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:05	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 10:05	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 10:05	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 10:05	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 10:05	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:05	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 10:05	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 10:05	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 10:05	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 10:05	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 10:05	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:05	108-90-7	
Chloroethane	**2.1**	ug/L	1.0	0.44	1		01/17/14 10:05	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 10:05	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 10:05	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 10:05	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:05	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 10:05	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:05	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 10:05	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:05	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 10:05	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 10:05	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 10:05	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 10:05	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:05	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:05	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:05	75-69-4	
Vinyl chloride	**6.9**	ug/L	1.0	0.18	1		01/17/14 10:05	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 10:05	1330-20-7	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.42	1		01/17/14 10:05	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 10:05	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 10:05	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 10:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	43-137		1		01/17/14 10:05	460-00-4	HS
Dibromofluoromethane (S)	107	%	70-130		1		01/17/14 10:05	1868-53-7	
Toluene-d8 (S)	102	%	55-137		1		01/17/14 10:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-107D **Lab ID: 4090906002** Collected: 01/09/14 10:20 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:28	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 10:28	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 10:28	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 10:28	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 10:28	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 10:28	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:28	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:28	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:28	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 10:28	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 10:28	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 10:28	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 10:28	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:28	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 10:28	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 10:28	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 10:28	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 10:28	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 10:28	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:28	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:28	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 10:28	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 10:28	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 10:28	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:28	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 10:28	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:28	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 10:28	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:28	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 10:28	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 10:28	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 10:28	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 10:28	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:28	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:28	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:28	75-69-4	
Vinyl chloride	**2.9**	ug/L	1.0	0.18	1		01/17/14 10:28	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 10:28	1330-20-7	
cis-1,2-Dichloroethene	**0.57J**	ug/L	1.0	0.42	1		01/17/14 10:28	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 10:28	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 10:28	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 10:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	43-137		1		01/17/14 10:28	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		01/17/14 10:28	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		01/17/14 10:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-103D **Lab ID: 4090906003** Collected: 01/09/14 11:05 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:51	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 10:51	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 10:51	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 10:51	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 10:51	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 10:51	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:51	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:51	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:51	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 10:51	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 10:51	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 10:51	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 10:51	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:51	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 10:51	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 10:51	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 10:51	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 10:51	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 10:51	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:51	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:51	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 10:51	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 10:51	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 10:51	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:51	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 10:51	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 10:51	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 10:51	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:51	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 10:51	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 10:51	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 10:51	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 10:51	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 10:51	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 10:51	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 10:51	75-69-4	
Vinyl chloride	**0.67J**	ug/L	1.0	0.18	1		01/17/14 10:51	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 10:51	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 10:51	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 10:51	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 10:51	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 10:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	43-137		1		01/17/14 10:51	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/17/14 10:51	1868-53-7	
Toluene-d8 (S)	97	%	55-137		1		01/17/14 10:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: MW-3A **Lab ID: 4090906004** Collected: 01/09/14 11:45 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:14	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 11:14	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 11:14	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 11:14	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 11:14	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 11:14	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:14	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 11:14	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 11:14	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 11:14	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 11:14	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 11:14	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 11:14	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 11:14	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 11:14	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 11:14	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 11:14	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 11:14	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 11:14	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 11:14	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:14	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 11:14	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 11:14	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 11:14	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 11:14	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 11:14	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 11:14	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 11:14	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 11:14	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 11:14	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 11:14	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 11:14	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 11:14	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:14	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 11:14	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 11:14	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/17/14 11:14	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 11:14	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 11:14	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 11:14	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 11:14	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 11:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	43-137		1		01/17/14 11:14	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/17/14 11:14	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		01/17/14 11:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: MW-3B **Lab ID: 4090906005** Collected: 01/09/14 12:10 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:37	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 11:37	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 11:37	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 11:37	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 11:37	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 11:37	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:37	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 11:37	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 11:37	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 11:37	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 11:37	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 11:37	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 11:37	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 11:37	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 11:37	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 11:37	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 11:37	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 11:37	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 11:37	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 11:37	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:37	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 11:37	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 11:37	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 11:37	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 11:37	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 11:37	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 11:37	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 11:37	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 11:37	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 11:37	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 11:37	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 11:37	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 11:37	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 11:37	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 11:37	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 11:37	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/17/14 11:37	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 11:37	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 11:37	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 11:37	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 11:37	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 11:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	43-137		1		01/17/14 11:37	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/17/14 11:37	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		01/17/14 11:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-113A **Lab ID: 4090906006** Collected: 01/09/14 13:35 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:00	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 12:00	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 12:00	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 12:00	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 12:00	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 12:00	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:00	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:00	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:00	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 12:00	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 12:00	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 12:00	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 12:00	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:00	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 12:00	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 12:00	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 12:00	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 12:00	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 12:00	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:00	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:00	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 12:00	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 12:00	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 12:00	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:00	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 12:00	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:00	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 12:00	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:00	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 12:00	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 12:00	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 12:00	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 12:00	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:00	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:00	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:00	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/17/14 12:00	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 12:00	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 12:00	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 12:00	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 12:00	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 12:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	43-137		1		01/17/14 12:00	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		01/17/14 12:00	1868-53-7	
Toluene-d8 (S)	97	%	55-137		1		01/17/14 12:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-113B **Lab ID: 4090906007** Collected: 01/09/14 14:00 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:22	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 12:22	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 12:22	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 12:22	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 12:22	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 12:22	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:22	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:22	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:22	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 12:22	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 12:22	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 12:22	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 12:22	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:22	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 12:22	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 12:22	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 12:22	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 12:22	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 12:22	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:22	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:22	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 12:22	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 12:22	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 12:22	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:22	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 12:22	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:22	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 12:22	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:22	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 12:22	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 12:22	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 12:22	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 12:22	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:22	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:22	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:22	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/17/14 12:22	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 12:22	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 12:22	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 12:22	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 12:22	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 12:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	43-137		1		01/17/14 12:22	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		01/17/14 12:22	1868-53-7	
Toluene-d8 (S)	97	%	55-137		1		01/17/14 12:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-114 **Lab ID: 4090906008** Collected: 01/09/14 14:50 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 09:24	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 09:24	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 09:24	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 09:24	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 09:24	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 09:24	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 09:24	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 09:24	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 09:24	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 09:24	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 09:24	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 09:24	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 09:24	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 09:24	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 09:24	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 09:24	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 09:24	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 09:24	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 09:24	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 09:24	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 09:24	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 09:24	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 09:24	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 09:24	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 09:24	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 09:24	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 09:24	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 09:24	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 09:24	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 09:24	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 09:24	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 09:24	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 09:24	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 09:24	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 09:24	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 09:24	75-69-4	
Vinyl chloride	**8.2**	ug/L	1.0	0.18	1		01/17/14 09:24	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 09:24	1330-20-7	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.42	1		01/17/14 09:24	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 09:24	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 09:24	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 09:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	43-137		1		01/17/14 09:24	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		01/17/14 09:24	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		01/17/14 09:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-114 DUP **Lab ID: 4090906009** Collected: 01/09/14 14:55 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:45	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 12:45	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 12:45	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 12:45	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 12:45	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 12:45	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:45	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:45	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:45	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 12:45	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 12:45	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 12:45	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 12:45	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:45	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 12:45	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 12:45	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 12:45	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 12:45	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 12:45	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:45	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:45	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 12:45	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 12:45	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 12:45	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:45	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 12:45	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 12:45	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 12:45	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:45	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 12:45	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 12:45	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 12:45	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 12:45	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 12:45	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 12:45	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 12:45	75-69-4	
Vinyl chloride	**8.8**	ug/L	1.0	0.18	1		01/17/14 12:45	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 12:45	1330-20-7	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.42	1		01/17/14 12:45	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 12:45	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 12:45	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 12:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	43-137		1		01/17/14 12:45	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		01/17/14 12:45	1868-53-7	
Toluene-d8 (S)	100	%	55-137		1		01/17/14 12:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-116 **Lab ID: 4090906010** Collected: 01/09/14 15:45 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:08	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 13:08	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 13:08	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 13:08	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 13:08	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 13:08	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:08	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 13:08	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 13:08	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 13:08	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 13:08	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 13:08	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 13:08	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 13:08	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 13:08	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 13:08	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 13:08	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 13:08	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 13:08	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 13:08	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:08	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 13:08	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 13:08	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 13:08	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 13:08	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 13:08	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 13:08	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 13:08	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 13:08	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 13:08	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 13:08	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 13:08	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 13:08	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:08	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 13:08	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 13:08	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/17/14 13:08	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 13:08	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 13:08	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 13:08	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 13:08	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 13:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	43-137		1		01/17/14 13:08	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		01/17/14 13:08	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		01/17/14 13:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: P-115 **Lab ID: 4090906011** Collected: 01/09/14 16:20 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:31	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 13:31	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/17/14 13:31	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 13:31	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/17/14 13:31	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/17/14 13:31	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:31	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 13:31	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/17/14 13:31	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/17/14 13:31	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/17/14 13:31	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/17/14 13:31	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/17/14 13:31	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 13:31	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/17/14 13:31	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/17/14 13:31	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/17/14 13:31	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/17/14 13:31	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/17/14 13:31	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 13:31	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:31	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/17/14 13:31	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/17/14 13:31	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/17/14 13:31	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 13:31	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/17/14 13:31	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/17/14 13:31	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/17/14 13:31	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/17/14 13:31	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/17/14 13:31	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/17/14 13:31	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/17/14 13:31	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/17/14 13:31	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/17/14 13:31	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/17/14 13:31	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/17/14 13:31	75-69-4	
Vinyl chloride	**1.5**	ug/L	1.0	0.18	1		01/17/14 13:31	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/17/14 13:31	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/17/14 13:31	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/17/14 13:31	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/17/14 13:31	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/17/14 13:31	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	43-137		1		01/17/14 13:31	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		01/17/14 13:31	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		01/17/14 13:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Sample: TRIP BLANK **Lab ID: 4090906012** Collected: 01/09/14 00:00 Received: 01/11/14 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/20/14 09:30	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/20/14 09:30	79-00-5	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/20/14 09:30	75-34-3	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/20/14 09:30	75-35-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/20/14 09:30	96-12-8	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/20/14 09:30	106-93-4	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/20/14 09:30	95-50-1	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/20/14 09:30	107-06-2	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/20/14 09:30	78-87-5	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/20/14 09:30	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/20/14 09:30	106-46-7	
2-Butanone (MEK)	**<2.7**	ug/L	20.0	2.7	1		01/20/14 09:30	78-93-3	
Acetone	**<2.6**	ug/L	20.0	2.6	1		01/20/14 09:30	67-64-1	
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/20/14 09:30	71-43-2	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/20/14 09:30	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/20/14 09:30	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/20/14 09:30	74-83-9	
Carbon disulfide	**<0.71**	ug/L	5.0	0.71	1		01/20/14 09:30	75-15-0	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/20/14 09:30	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/20/14 09:30	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/20/14 09:30	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/20/14 09:30	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/20/14 09:30	74-87-3	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/20/14 09:30	124-48-1	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/20/14 09:30	74-95-3	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/20/14 09:30	75-71-8	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/20/14 09:30	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/20/14 09:30	1634-04-4	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/20/14 09:30	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/20/14 09:30	91-20-3	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/20/14 09:30	100-42-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/20/14 09:30	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	5.0	1.5	1		01/20/14 09:30	109-99-9	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/20/14 09:30	108-88-3	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/20/14 09:30	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/20/14 09:30	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/20/14 09:30	75-01-4	
Xylene (Total)	**<1.3**	ug/L	3.0	1.3	1		01/20/14 09:30	1330-20-7	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/20/14 09:30	156-59-2	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/20/14 09:30	10061-01-5	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/20/14 09:30	156-60-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/20/14 09:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	43-137		1		01/20/14 09:30	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/20/14 09:30	1868-53-7	
Toluene-d8 (S)	101	%	55-137		1		01/20/14 09:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

QC Batch: MSV/23000 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4090906001, 4090906002, 4090906003, 4090906004, 4090906005, 4090906006, 4090906007, 4090906008, 4090906009, 4090906010, 4090906011, 4090906012

METHOD BLANK: 921602 Matrix: Water
Associated Lab Samples: 4090906001, 4090906002, 4090906003, 4090906004, 4090906005, 4090906006, 4090906007, 4090906008, 4090906009, 4090906010, 4090906011, 4090906012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.44	1.0	01/17/14 07:07	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	01/17/14 07:07	
1,1-Dichloroethane	ug/L	<0.28	1.0	01/17/14 07:07	
1,1-Dichloroethene	ug/L	<0.43	1.0	01/17/14 07:07	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	01/17/14 07:07	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	01/17/14 07:07	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	01/17/14 07:07	
1,2-Dichloroethane	ug/L	<0.48	1.0	01/17/14 07:07	
1,2-Dichloropropane	ug/L	<0.50	1.0	01/17/14 07:07	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	01/17/14 07:07	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	01/17/14 07:07	
2-Butanone (MEK)	ug/L	<2.7	20.0	01/17/14 07:07	
Acetone	ug/L	<2.6	20.0	01/17/14 07:07	
Benzene	ug/L	<0.50	1.0	01/17/14 07:07	
Bromodichloromethane	ug/L	<0.45	1.0	01/17/14 07:07	
Bromoform	ug/L	<0.33	1.0	01/17/14 07:07	
Bromomethane	ug/L	<0.43	5.0	01/17/14 07:07	
Carbon disulfide	ug/L	<0.71	5.0	01/17/14 07:07	
Carbon tetrachloride	ug/L	<0.37	1.0	01/17/14 07:07	
Chlorobenzene	ug/L	<0.36	1.0	01/17/14 07:07	
Chloroethane	ug/L	<0.44	1.0	01/17/14 07:07	
Chloroform	ug/L	<0.69	5.0	01/17/14 07:07	
Chloromethane	ug/L	<0.39	1.0	01/17/14 07:07	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	01/17/14 07:07	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	01/17/14 07:07	
Dibromochloromethane	ug/L	<1.9	5.0	01/17/14 07:07	
Dibromomethane	ug/L	<0.48	1.0	01/17/14 07:07	
Dichlorodifluoromethane	ug/L	<0.40	1.0	01/17/14 07:07	
Ethylbenzene	ug/L	<0.50	1.0	01/17/14 07:07	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	01/17/14 07:07	
Methylene Chloride	ug/L	<0.36	1.0	01/17/14 07:07	
Naphthalene	ug/L	<2.5	5.0	01/17/14 07:07	
Styrene	ug/L	<0.35	1.0	01/17/14 07:07	
Tetrachloroethene	ug/L	<0.47	1.0	01/17/14 07:07	
Tetrahydrofuran	ug/L	<1.5	5.0	01/17/14 07:07	
Toluene	ug/L	<0.44	1.0	01/17/14 07:07	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	01/17/14 07:07	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	01/17/14 07:07	
Trichloroethene	ug/L	<0.36	1.0	01/17/14 07:07	
Trichlorofluoromethane	ug/L	<0.48	1.0	01/17/14 07:07	
Vinyl chloride	ug/L	<0.18	1.0	01/17/14 07:07	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

METHOD BLANK: 921602 Matrix: Water

Associated Lab Samples: 4090906001, 4090906002, 4090906003, 4090906004, 4090906005, 4090906006, 4090906007, 4090906008, 4090906009, 4090906010, 4090906011, 4090906012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ug/L	<1.3	3.0	01/17/14 07:07	
4-Bromofluorobenzene (S)	%	92	43-137	01/17/14 07:07	
Dibromofluoromethane (S)	%	106	70-130	01/17/14 07:07	
Toluene-d8 (S)	%	102	55-137	01/17/14 07:07	

LABORATORY CONTROL SAMPLE & LCSD: 921603 921604

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	51.5	100	103	70-136	3	20	
1,1,2-Trichloroethane	ug/L	50	54.1	53.7	108	107	70-130	1	20	
1,1-Dichloroethane	ug/L	50	48.8	51.4	98	103	70-146	5	20	
1,1-Dichloroethene	ug/L	50	52.8	53.6	106	107	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	50	45.8	46.0	92	92	46-150	0	20	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	52.5	106	105	70-130	1	20	
1,2-Dichlorobenzene	ug/L	50	49.2	51.4	98	103	70-130	4	20	
1,2-Dichloroethane	ug/L	50	52.3	53.1	105	106	70-144	2	20	
1,2-Dichloropropane	ug/L	50	57.8	59.3	116	119	70-136	2	20	
1,3-Dichlorobenzene	ug/L	50	47.2	49.8	94	100	70-130	6	20	
1,4-Dichlorobenzene	ug/L	50	48.3	50.3	97	101	70-130	4	20	
Benzene	ug/L	50	49.3	50.5	99	101	70-137	3	20	
Bromodichloromethane	ug/L	50	56.4	57.4	113	115	70-133	2	20	
Bromoform	ug/L	50	52.1	53.2	104	106	59-130	2	20	
Bromomethane	ug/L	50	54.3	58.1	109	116	41-148	7	20	
Carbon disulfide	ug/L	50	54.0	55.9	108	112	70-130	3	20	
Carbon tetrachloride	ug/L	50	51.1	54.7	102	109	70-154	7	20	
Chlorobenzene	ug/L	50	52.9	53.8	106	108	70-130	2	20	
Chloroethane	ug/L	50	54.8	56.2	110	112	70-139	3	20	
Chloroform	ug/L	50	49.8	51.3	100	103	70-130	3	20	
Chloromethane	ug/L	50	49.6	50.3	99	101	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	50	45.4	47.1	91	94	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	50	48.2	49.5	96	99	70-136	3	20	
Dibromochloromethane	ug/L	50	50.3	50.7	101	101	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	41.1	42.3	82	85	20-157	3	20	
Ethylbenzene	ug/L	50	54.2	54.8	108	110	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	47.7	48.2	95	96	59-141	1	20	
Methylene Chloride	ug/L	50	53.1	54.3	106	109	70-130	2	20	
Styrene	ug/L	50	53.4	54.2	107	108	70-130	1	20	
Tetrachloroethene	ug/L	50	53.9	54.9	108	110	70-130	2	20	
Toluene	ug/L	50	52.0	52.6	104	105	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	50	50.4	52.8	101	106	70-130	5	20	
trans-1,3-Dichloropropene	ug/L	50	48.0	48.4	96	97	55-135	1	20	
Trichloroethene	ug/L	50	55.3	55.9	111	112	70-130	1	20	
Trichlorofluoromethane	ug/L	50	48.1	50.3	96	101	50-150	4	20	
Vinyl chloride	ug/L	50	53.5	56.1	107	112	61-143	5	20	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

LABORATORY CONTROL SAMPLE & LCSD: 921603 921604

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/L	150	163	167	109	111	70-130	2	20	
4-Bromofluorobenzene (S)	%				107	105	43-137			
Dibromofluoromethane (S)	%				97	99	70-130			
Toluene-d8 (S)	%				101	100	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922843 922844

Parameter	Units	4090906008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	52.2	50.3	104	101	70-136	4	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	52.8	51.5	106	103	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	52.2	49.6	104	99	70-146	5	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	55.9	53.8	112	108	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	46.0	45.7	92	91	46-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	52.1	52.1	104	104	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	50.1	49.6	100	99	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	53.0	52.2	106	104	70-146	2	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	58.6	58.5	117	117	70-136	0	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	48.5	47.8	97	96	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	49.3	48.7	99	97	70-130	1	20	
Benzene	ug/L	<0.50	50	50	51.0	49.2	102	98	70-137	4	20	
Bromodichloromethane	ug/L	<0.45	50	50	56.7	55.4	113	111	70-133	2	20	
Bromoform	ug/L	<0.33	50	50	49.8	47.2	100	94	57-130	5	20	
Bromomethane	ug/L	<0.43	50	50	64.4	63.9	129	128	41-148	1	20	
Carbon disulfide	ug/L	<0.71	50	50	59.8	45.0	120	90	50-152	28	31	
Carbon tetrachloride	ug/L	<0.37	50	50	56.2	52.6	112	105	70-154	7	20	
Chlorobenzene	ug/L	<0.36	50	50	53.2	52.3	106	105	70-130	2	20	
Chloroethane	ug/L	<0.44	50	50	60.7	59.3	121	119	70-140	2	20	
Chloroform	ug/L	<0.69	50	50	51.7	49.6	103	99	70-130	4	20	
Chloromethane	ug/L	<0.39	50	50	60.0	58.3	120	117	45-154	3	20	
cis-1,2-Dichloroethene	ug/L	1.3	50	50	49.3	47.7	96	93	70-130	3	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	49.7	46.6	99	93	70-136	6	20	
Dibromochloromethane	ug/L	<1.9	50	50	49.6	47.8	99	96	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	66.5	64.4	133	129	10-157	3	20	
Ethylbenzene	ug/L	<0.50	50	50	53.6	52.4	107	105	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	49.0	47.9	98	96	59-141	2	20	
Methylene Chloride	ug/L	<0.36	50	50	55.8	53.7	112	107	70-130	4	20	
Styrene	ug/L	<0.35	50	50	38.2	33.7	76	67	35-164	13	20	
Tetrachloroethene	ug/L	<0.47	50	50	54.5	53.7	109	107	70-130	1	20	
Toluene	ug/L	<0.44	50	50	52.3	50.8	105	102	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	53.3	50.1	107	100	70-130	6	20	
trans-1,3-Dichloropropene	ug/L	<0.30	50	50	48.1	45.5	96	91	55-137	5	20	
Trichloroethene	ug/L	<0.36	50	50	56.3	55.4	113	111	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.48	50	50	53.7	52.1	107	104	50-150	3	20	
Vinyl chloride	ug/L	8.2	50	50	73.6	71.0	131	126	59-144	4	20	
Xylene (Total)	ug/L	<1.3	150	150	158	154	105	103	70-130	2	20	
4-Bromofluorobenzene (S)	%						106	105	43-137			

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 922843 922844

Parameter	Units	4090906008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						98	98	70-130			
Toluene-d8 (S)	%						100	100	55-137			

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QUALIFIERS

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 117-2202040.20 RIPON FF/NN LF
Pace Project No.: 4090906

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4090906001	P-111D	EPA 8260	MSV/23000		
4090906002	P-107D	EPA 8260	MSV/23000		
4090906003	P-103D	EPA 8260	MSV/23000		
4090906004	MW-3A	EPA 8260	MSV/23000		
4090906005	MW-3B	EPA 8260	MSV/23000		
4090906006	P-113A	EPA 8260	MSV/23000		
4090906007	P-113B	EPA 8260	MSV/23000		
4090906008	P-114	EPA 8260	MSV/23000		
4090906009	P-114 DUP	EPA 8260	MSV/23000		
4090906010	P-116	EPA 8260	MSV/23000		
4090906011	P-115	EPA8260	MSV/23000		
4090906012	TRIP BLANK	EPA8260	MSV/23000		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of

JBF

4090906

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	TetraTech
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	(262)792-1282
Project Number:	117-2202040.20
Project Name:	Ripon FF/NN Landfill
Project State:	WI
Sampled By (Print):	Ashley Weimer
Sampled By (Sign):	Ashley A. Weimer
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Mike Noel
Mail To Company:	TetraTech
Mail To Address:	175 N. Corporate Dr Suite 100 Brookfield, WI 53045
Invoice To Contact:	
Invoice To Company:	Cooper Industries
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID 2014	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOCs 8260B	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	P-111 D	1-9	0935	GW		N / B	3		3-40mL B	
002	P-107 D		10:20				3			
003	P-103 D		11:05				3			
004	MW-3A		11:45				3			
005	MW-3B		12:10				3			
006	P-113 A		1335				3			
007	P-113 B		1400				3			
008	P-114		1450				3			
009	P-114 Dup		1455				3			
010	P-116		1515				3			
011	P-115		1620	↓			3			
012	TRIP BLANK	—	—	DI			2	Lab prepared	2-40mL B	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Ashley A. Weimer	1-10-14 0800	Mary Fannin	1/10/14 9:51
Mary Fannin	1/10/14 12:15		
CS Logistics	1-11-14 0950		
		Received By:	Date/Time:
		Received By:	Date/Time:

PACE Project No.
4090906
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: **WO# : 4090906**

4090906

Client Name: Tetra Tech

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CSLogistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals Intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 1-11-14
Initials: BK

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): covered		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 1-13-14

F-GB-C-031-Rev.02 (28Oct2013) SCUR Form

APPENDIX C
GROUNDWATER SAMPLING FIELD FORMS

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.20	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	MW-3A			MW-3B			P-113A		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	1-9-14			1-9-14			1-9-14		
STATIC WATER LEVEL (feet)*	32.96			31.80			15.77		
WELL DEPTH (feet)*	280.1			185.72			325.31		
PUMP INLET DEPTH (feet)*	67.5			54.5			73.5		
START PURGE TIME (Military)	11:30			11:50			12:40		
END PURGE TIME (Military)	11:45			12:10			13:35		
PURGE VOLUME (gallons)	0.75			1.0			1.0		
SAMPLE TIME (Military)	11:45			12:10			13:35		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	1:00	2:00	3:00	5:00	6:00	7:00	34:00	36:00	38:00
TEMPERATURE (° C)	7.45	7.48	7.51	8.33	8.34	8.37	6.07	6.06	6.37
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.524	0.523	0.524	0.643	0.642	0.640	0.522	0.522	0.521
DISSOLVED OXYGEN (ppm)	1.00	0.88	0.81	2.01	1.91	1.82	1.91	1.81	1.72
pH	7.47	7.46	7.46	7.56	7.54	7.53	7.51	7.50	7.49
DISSOLVED OXYGEN (% Sat.)	8.4	7.4	6.8	17.2	16.3	15.6	15.4	14.6	14.0
ORP (mV)	12	11	10	11	10	10	0	0	0
COLOR	Clear			Clear			Clear		
ODOR	Weak Rotten Eggs			Weak Rotten Eggs			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.067			0.911			0.582		
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical		
DATE SENT TO LAB	1-10-14			1-10-14			1-10-14		
SAMPLER=S NAME	Ashley A. Weimer			Ashley A. Weimer			Ashley A. Weimer		

*Measured from top of well casing.

TETRA TECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.20	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-113B			P-103D					
WATER TYPE	Groundwater			Groundwater					
DATE (month/day/year)	1-9-14			1-9-14					
STATIC WATER LEVEL (feet)*	15.13			52.23					
WELL DEPTH (feet)*	198.9			192.66					
PUMP INLET DEPTH (feet)*	48.5			87.5					
START PURGE TIME (Military)	13:40			10:45					
END PURGE TIME (Military)	14:00			11:05					
PURGE VOLUME (gallons)	2.5			1.0					
SAMPLE TIME (Military)	14:00			11:05					
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd			
TIME (minutes since initial reading)	8:00	9:00	10:00	5:00	6:00	7:00			
TEMPERATURE (° C)	9.32	9.34	9.43	8.94	8.92	8.88			
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.614	0.615	0.614	0.754	0.755	0.754			
DISSOLVED OXYGEN (ppm)	1.97	1.96	1.93	2.22	2.14	2.03			
pH	7.52	7.51	7.50	6.93	6.91	6.91			
DISSOLVED OXYGEN (% Sat.)	17.2	17.2	17.1	19.2	18.6	17.7			
ORP (mV)	-23	-24	-25	64	63	62			
COLOR	Clear			Clear					
ODOR	None			None					
CLARITY	Clear			Clear					
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No					
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.955			2.645					
NAME OF LABORATORY	Pace Analytical			Pace Analytical					
DATE SENT TO LAB	1-10-14			1-10-14					
SAMPLER=S NAME	Ashley A. Weimer			Ashley A. Weimer					

*Measured from top of well casing.

TETRA TECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.20	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-111D			P-107D					
WATER TYPE	Groundwater			Groundwater					
DATE (month/day/year)	1-9-14			1-9-14					
STATIC WATER LEVEL (feet)*	36.94			54.18					
WELL DEPTH (feet)*	151.0			327.95					
PUMP INLET DEPTH (feet)*	151.0			76.5					
START PURGE TIME (Military)	09:20			09:55					
END PURGE TIME (Military)	09:35			10:20					
PURGE VOLUME (gallons)	1.5			1.25					
SAMPLE TIME (Military)	09:35			10:20					
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd			
TIME (minutes since initial reading)	2:00	3:00	4:00	2:00	3:00	4:00			
TEMPERATURE (° C)	9.02	9.03	9.03	7.87	7.96	7.97			
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.789	0.790	0.790	0.570	0.567	0.561			
DISSOLVED OXYGEN (ppm)	3.07	2.94	2.90	2.65	2.73	2.60			
pH	6.48	6.50	6.54	7.22	7.25	7.24			
DISSOLVED OXYGEN (% Sat.)	26.7	25.7	25.2	22.4	23.2	22.0			
ORP (mV)	94	91	88	59	57	55			
COLOR	Clear			Clear					
ODOR	None			None					
CLARITY	Clear			Clear					
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No					
Vacu-Vials Iron 2- Wait 1, then wait 5 min	1.451			0.071					
NAME OF LABORATORY	Pace Analytical			Pace Analytical					
DATE SENT TO LAB	1-10-14			1-10-14					
SAMPLER=S NAME	Ashley A. Weimer			Ashley A. Weimer					

*Measured from top of well casing.

TETRA TECH

TETRA TECH MULTI-LEVEL MONITOR WELL WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	FF/NN Landfill	Temp. & pH	MP-20 Flow Cell
PROJECT NO.	117-2202040.20	Conductivity	MP-20 Flow Cell
LOCATION	Ripon, WI	ORP	MP-20 Flow Cell
PERSONNEL	Ashley A. Weimer	DO	MP-20 Flow Cell

MONITOR WELL ID	P-114/Dup			P-115			P-116		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	1-9-14			1-9-14			1-9-14		
STATIC WATER LEVEL (feet)*	21.42			24.82			28.42		
WELL DEPTH (feet)*	181.72			179.57			163.19		
PUMP INLET DEPTH (feet)*	53.5			53.5			163		
START PURGE TIME (Military)	14:30			16:00			15:15		
END PURGE TIME (Military)	14:50			16:20			15:45		
PURGE VOLUME (gallons)	1.5			1.0			1.0		
SAMPLE TIME (Military)	14:50/14:55			16:20			15:45		
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes since initial reading)	0:00	1:00	2:00	3:00	4:00	5:00	12:00	14:00	16:00
TEMPERATURE (° C)	9.19	9.18	9.18	9.69	9.67	9.68	9.00	8.93	8.92
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.692	0.693	0.694	0.568	0.567	0.567	0.496	0.496	0.495
DISSOLVED OXYGEN (ppm)	1.26	1.23	1.18	1.86	1.74	1.69	1.31	1.24	1.19
pH	7.58	7.57	7.58	7.77	7.73	7.71	7.87	7.85	7.88
DISSOLVED OXYGEN (% Sat.)	11.0	10.7	10.3	16.4	15.4	14.9	11.4	10.7	10.4
ORP (mV)	-20	-21	-21	-14	-15	-15	-9	-9	-9
COLOR	Clear			Clear			Pinkish		
ODOR	None			None			None		
CLARITY	Clear			Clear			Clear		
SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)								
VOCs (EPA Method SW 8260B)	3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No			3 – 40 ml; G; HCl – L; No		
Vacu-Vials Iron 2- Wait 1, then wait 5 min	0.640			Under Range			Under Range		
	**TOOK DUP AT 14:55 **								
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical		
DATE SENT TO LAB	1-10-14			1-10-14			1-10-14		
SAMPLER=S NAME	Ashley A. Weimer			Ashley A. Weimer			Ashley A. Weimer		

*Measured from top of well casing.

TETRA TECH

APPENDIX D

LANDFILL GAS EXTRACTION SYSTEM MONITORING

TETRA TECH GEO

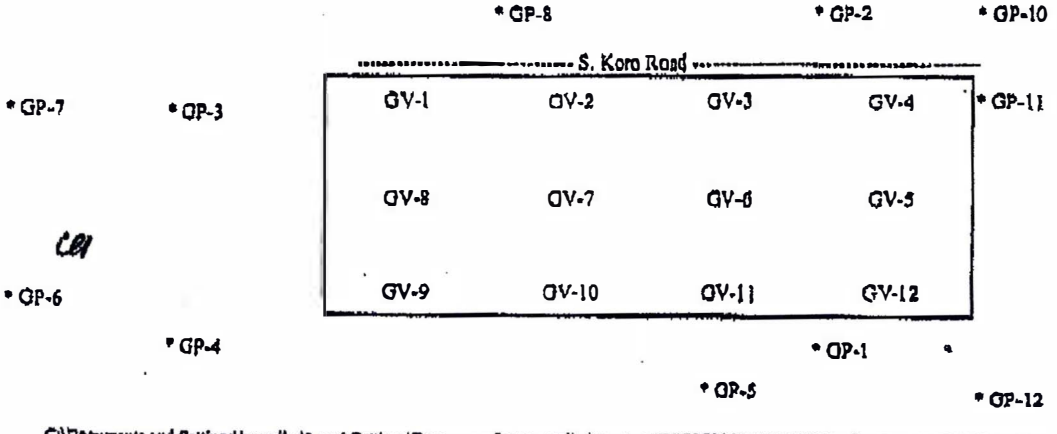
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wandler
Water level in buried knockout tank _____"

Barometric Pressure: 29.2 Hg
Temperature (ambient): 20. F
Measuring Device: Eagle 2
In Trailer Vacuum Gage _____ "Hg

* LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
11-19-13	0745	Background	0*	0.0	20.9	
	0810	LC-1	34.0	22.2	6.1	
	0825	LC-2	32.5	22.8	5.9	
	0817	LC-3	31.0	21.8	7.4	
	0805	GV-6	15.0	18.0	5.8	
	0748	GP-1	0*	4.2	15.2	
	0850	GP-1	0*	0.6	20.9	2nd Reading
	0755	Exhaust	8.5	7.4	15.5	



TETRA TECH GEO

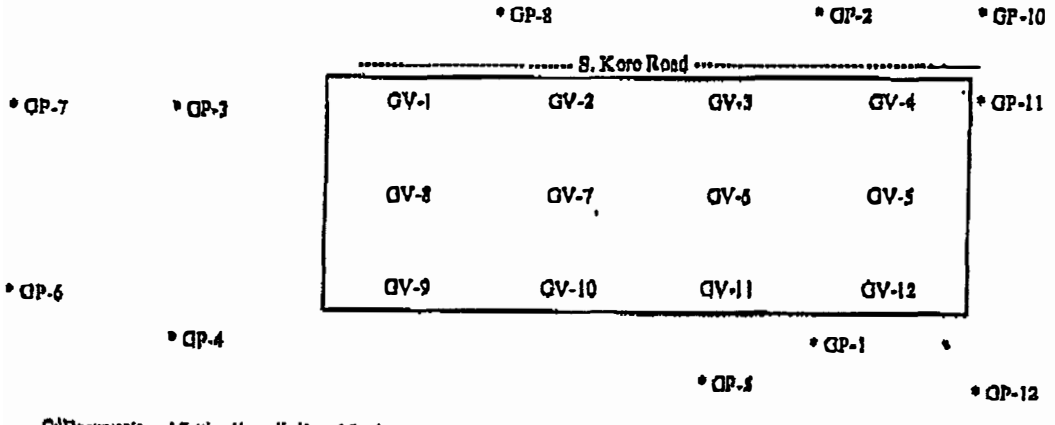
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____ "

Barometric Pressure: 28.8 Hg
Temperature (ambient): 20° F
Measuring Device: Eagle
In Trailer Vacuum Gage 30 "Hg

LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
1.30.14	0700	Background	0	0.0	20.9	
	0720	LC-1	50.0	28.6	0.9	
	0740	LC-2	49.5	30.0	1.3	
	0730	LC-3	37.0	26.6	4.2	
	0715	GV-6	39.5	24.0	0.3	
	0705	GP-1	0	0.0	20.9	
	0800	GP-1	0	0.0	20.9	2nd Reading
		Exhaust	14.5	19.4	14.0	



TETRA TECH GEO

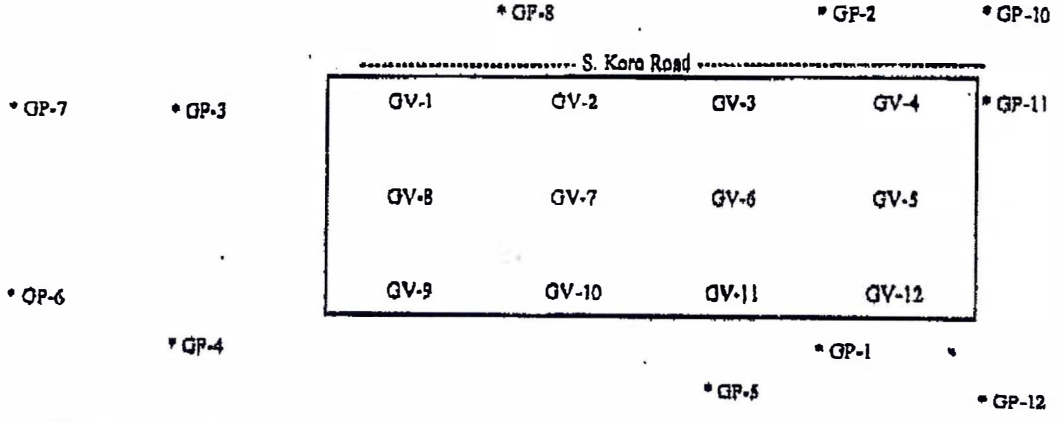
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Joe Wendler
Water level in buried knockout tank _____"

Barometric Pressure: 29.0 Hg
Temperature (ambient): 26° F
Measuring Device: Eagle 2
In Trailer Vacuum Gage _____ "Hg

* LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
12.2.13	0715	Background	0*	0.0	20.9	
	0735	LC-1	38.0	23.8	5.0	
	0750	LC-2	37.5	24.8	5.0	
	0740	LC-3	32.0	22.8	6.6	
	0730	GV-6	41.5	25.6	1.4	
	0720	GP-1	0*	5.0	12.2	
	0815	GP-1	0*	0.2	20.9	2nd Reading @
	0723	Exhaust	11.5	7.8	15.1	



TETRA TECH GEO

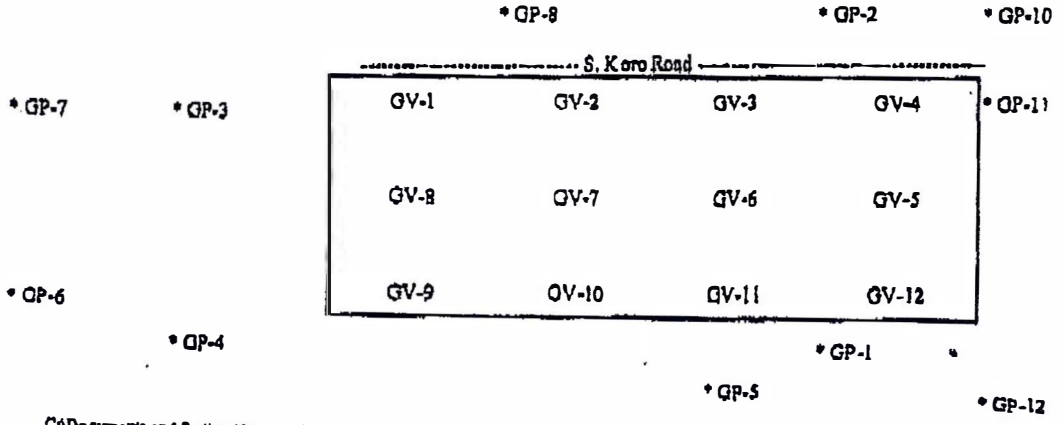
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler
Water level in buried knockout tank _____"

Barometric Pressure: 29.1 Hg
Temperature (ambient): -10 F
Measuring Device: Eagle
In Trailer Vacuum Gage 2 "Hg

NO LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Comments
12-16-13	0700	Background	0 *	0.0	20.9	
	0715	LC-1	19.0	12.4	12.2	
	0725	LC-2	22.0	15.6	11.3	
	0720	LC-3	20.5	16.0	11.1	
	0710	GV-6	22.5	20.0	3.2	
	0702	GP-1	0 *	5.4	12.7	
	0745	GP1	0 *	0.3	20.0	
	0705	Exhaust	9.5	7.2	15.3	



TETRATECH GEO

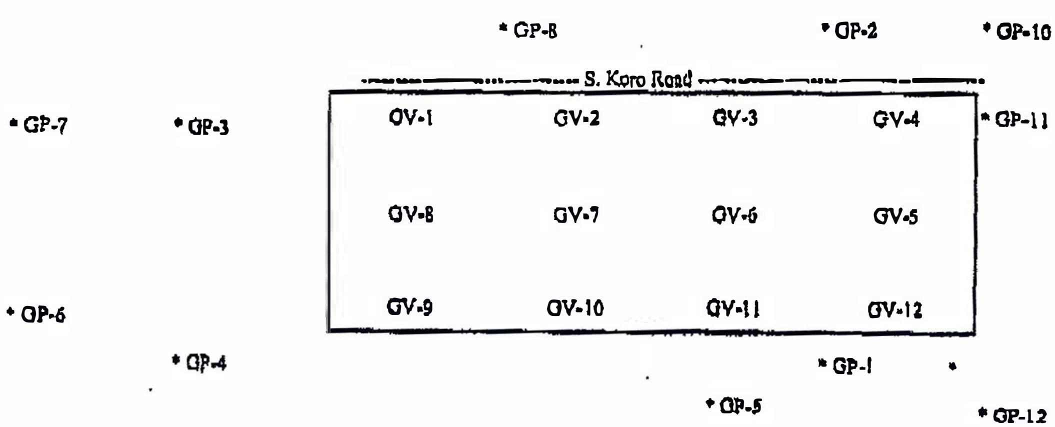
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Lurndler
Water level in buried knockout tank ________ "

Barometric Pressure: 29.2 Hg
Temperature (ambient): -10 F
Measuring Device: Eagle
In Trailer Vacuum Gage ________ "Hg

*LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Comments
12.27.13	0655	Background	0*	0.0	20.9	
	0706	LC-1	*48.5	28.0	2.9	
	0713	LC-2	44.5	29.2	1.9	
	0710	LC-3	34.5	25.2	[redacted]	
	0705	GV-6	39.5	24.6	0.6	
	0700	GP-1	[redacted]	4.6	14.0	
	0730	GP-1	[redacted]	6.6	13.3	2nd Reading
		Exhaust	Blower		Off	
		*				



BLOWER ON 07:00 TO 07:20

TETRA TECH GEO

GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jac Liebendorfer
Water level in buried knockout tank _____"

Barometric Pressure: 28.6 Hg
Temperature (ambient): 28 F
Measuring Device: Eagle
In Trailer Vacuum Gage 2 "Hg

All LEL

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments
1.13.14	0700	Background	0	0.0	20.9	
	0708	LC-1	54.5	28.6	0.7	
	0716	LC-2	45.5	29.0	1.0	
	0712	LC-3	39.5	26.4	3.6	
	0705	GV-6	45.5	24.6	0.4	
	0701	GP-1	0*	1.2	17.6	
	0800	GP-1	0*	0.0	20.9	Exit Reading
	0702	Exhaust	10.5	7.8	14.4	

Note: 15 min new cycles