



# CITY OF RIPON

100 Jackson Street • Ripon, Wisconsin 54971-1396

October 7, 2013



Mr. Gary Edelstein, P.E.  
Wisconsin Department of Natural Resources  
Bureau for Remediation and Redevelopment - RR/5  
P.O. Box 7921  
Madison, WI 53707

Re: Ripon FF/NN Landfill Monitoring Report

Dear Mr. Edelstein,

Enclosed is the status report for the July 2013 sampling event at the FF/NN Landfill prepared by Tetra Tech, Inc. The report reflects the reduction in quarterly reporting requirements we previously discussed.

If you have any questions or concerns please feel free to contact me.

Sincerely,

Lori Rich  
City of Ripon Administrator

Enclosures

cc: Nelson Olavarria  
Mike Noel

**STATUS REPORT  
JULY 2013 SAMPLING EVENT  
FF/NN LANDFILL NPL SITE  
Ripon, Wisconsin**

*Prepared for:*

FF/NN Landfill PRP Group  
600 Travis, Suite 5600  
Houston, Texas 77002

*Prepared by:*



Tetra Tech, Inc.  
175 N. Corporate Drive, Suite 100  
Brookfield, WI 53045

October 3, 2013

A handwritten signature in black ink, appearing to read 'Michael R. Noel'.

---

Michael R. Noel, P.G.  
Principal Hydrogeologist, Project Manager

A handwritten signature in black ink, appearing to read 'Ashley A. Weimer'.

---

Ashley A. Weimer  
Project Geologist

# TABLE OF CONTENTS

---

Section No. and Title .....	Page No.
<b>LIST OF TABLES .....</b>	<b>ii</b>
<b>LIST OF FIGURES .....</b>	<b>ii</b>
<b>LIST OF CHARTS .....</b>	<b>ii</b>
<b>LIST OF ATTACHMENTS.....</b>	<b>ii</b>
<b>1. SITE INFORMATION AND CONTACTS.....</b>	<b>1</b>
<b>2. FIELD ACTIVITIES THIS REPORTING PERIOD .....</b>	<b>2</b>
<b>3. RESULTS OF FIELD ACTIVITIES.....</b>	<b>3</b>
<b>3.1. GROUNDWATER MONITORING EVENT - MONITORING WELL SAMPLING .....</b>	<b>3</b>
<b>3.1.1. Layer 1 Wells.....</b>	<b>3</b>
<b>3.1.2. Layer 2 Wells.....</b>	<b>3</b>
<b>3.1.3. Layer 3 Wells.....</b>	<b>3</b>
<b>3.1.4. Layer 4 Wells.....</b>	<b>4</b>
<b>3.1.5. Natural Attenuation Parameters .....</b>	<b>4</b>
<b>3.2. INTERIM LF GAS EXTRACTION SYSTEM PERFORMANCE MONITORING .....</b>	<b>4</b>
<b>4. UPCOMING ACTIVITIES PLANNED.....</b>	<b>5</b>
<b>5. PERSONNEL.....</b>	<b>6</b>

# *TABLE OF CONTENTS*

---

## **LIST OF TABLES**

Table 1	Groundwater Elevations
Table 2	Groundwater VOC Analytical Results for Monitoring Wells
Table 3	Groundwater Natural Attenuation Results for Wells
Table 6a	Landfill Gas Field Monitoring Results for Active Extraction Wells
Table 6c	Landfill Gas Field Monitoring Results for Gas Probes and Monitor Wells

## **LIST OF FIGURES**

Figure 1	Site Layout
----------	-------------

## **LIST OF CHARTS**

Chart 50	Monitoring Well VOC Concentration, P-107, Layer 2
Chart 54	Monitoring Well VOC Concentration, P-111D, Layer 3
Chart 57	Monitoring Well VOC Concentration, P-114, Layer 3
Chart 58	Monitoring Well VOC Concentration, P-115, Layer 3
Chart 61	Monitoring Well VOC Concentration, P-107D, Layer 4

## **LIST OF ATTACHMENTS**

Attachment B	Laboratory Analytical Results
Attachment C	Groundwater Sampling Field Forms
Attachment D	Landfill Gas Extraction System Monitoring Field Forms

**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

PREPARED BY:

Mr. Michael R. Noel and Miss Ashley A. Weimer  
Tetra Tech, Inc.  
175 N. Corporate Drive, Suite 100  
Brookfield, Wisconsin 53045

Tetra Tech Ref No.: 117-2202.040

PREPARED FOR:

Mr. Nelson Olavarria  
Chairman, FF/NN PRP Group  
600 Travis, Suite 5600  
Houston, TX 77210

Mr. Gary Edelstein, P.E.  
Wisconsin DNR  
P.O. Box 7921  
Madison, WI 53707

Ms. Lori Rich  
City of Ripon Administrator  
100 Jackson St.  
Ripon, WI 54971

Mr. Kevin McKnight  
Wisconsin DNR  
625 E County Road Y, Suite 700  
Oshkosh WI, 54901

Mr. Bernard Schorle  
U S Environmental Protection Agency  
SR-6J  
77 West Jackson Boulevard  
Chicago, IL 60604

DATE:

October 3, 2013

**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 July 2013. 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 July 2013 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 July 2013 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 July 2013 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 during the July 2013 event.

##### 3.1.2. Layer 2 Wells

- No Layer 2 wells were sampled during the July 2013 event.

##### 3.1.3. Layer 3 Wells

- P-103D (Chart 53): 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 6.8 ug/L. 1,2-DCE (1.9 ug/L) and chloroethane (1.9 ug/L) were detected at concentrations below NR 140 standards. The results are similar to past results since 2007.
- MW-3B (Chart 55): No detection of any VOC. VC has not been detected in this well since May 2008.
- P-113B (Chart 56): 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): No detection of VC. VC was last detected in this well April 2013. 1,2-DCE (no detection, 1.3 ug/L duplicate) was detected at a concentration below NR 140 standards.
- P-115 (Chart 58): VC exceeded its ES with a concentration of 1.1 ug/L. This result is similar to past results.

- P-116 (Chart 59): 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 (Chart 60): 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): No detection of any VOC. VC was last detected in this well April 2013.
- P-113A (Chart 62): 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. 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:

- 5/13/2013 – Run time decreased to 16 hours on/8 hours off
- 5/29/2013 – Run time decreased to 12 hours on/12 hours off
- 7/22/2013 – Run time decreased to 10 hours on/14 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%).



**4. UPCOMING ACTIVITIES PLANNED**

- Quarterly groundwater sampling and water level measurements will be conducted in July 2013 in accordance with the monitoring program outlined in the April 18, 2013 conditional approval letter from WDNR.
- The gas extraction system will continue to be monitored for effectiveness throughout this quarter.

**5. 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 July 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.  
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	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)  
NT - Not taken, only measured deep wells  
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)  
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-12	Jul-12	Oct-12	Jan-13	Apr-13	Jul-13
MW-101	884.80	823.33	823.56	821.86	821.99	823.89	NM
P-101	885.26	823.29	823.5	821.82	821.92	823.88	NM
MW-102	843.05	823.8	823.89	822.3	822.43	824.38	NM
P-102	842.99	823.86	823.96	822.41	822.52	824.45	NM
MW-103	872.42	821.24	821.9	820.21	820.09	821.5	NM
P-103	872.92	823.32	823.48	821.9	822.02	823.88	NM
P-103D	873.08	822.47	822.43	821.085	821.275	823.135	823.24
MW-104	875.15	823.22	823.4	821.79	821.87	823.76	NM
P-104	875.48	823.22	823.57	821.96	822.02	823.87	NM
MW-106	878.90	823.73	823.87	822.27	822.43	824.3	NM
P-106	878.91	823.64	825.8	822.18	822.33	824.21	NM
MW-107	871.78	819.77	820.68	818.98	818.73	819.87	NM
P-107	871.38	819.76	820.7	819	818.71	819.88	NM
P-107D	871.98	819.42	818.1	817.78	818.02	820.41	820.56
MW-108	845.25	818.28	818.74	817.63	817.27	818.74	NM
P-108	845.61	821.01	822.09	820.82	820.02	821.52	NM
MW-111	856.46	818.32	819.09	817.61	817.25	818.52	NM
P-111	856.13	817.87	818.67	817.16	816.81	818.07	NM
P-111D	855.79	820.28	820	819.01	819.29	821.07	820.97
MW-112	874.55	820.15	820.8	819.27	819.15	820.39	NM
P-113A	833.09	818.51	817.23	817.23	817.5	819.83	819.92
P-113B	833.10	818.71	818.39	817.96	817.92	820.89	820.02
P-114	839.35	819.06	818.46	818.03	818.27	819.94	820.05
P-115	842.71	819.075	818.805	818.105	818.335	820.025	820.205
P-116	845.34	818.125	817.575	817.115	817.395	818.855	818.825
MW-3A	850.77	818.41	818.23	817.6	817.98	820.07	820.25
MW-3B	851.04	820.27	820.35	819.28	819.48	821.49	821.48
LC1	876.15	843.21	NM	NM	NM	843.36	NM
LC2	866.05	837.87	NM	NM	NM	838.51	NM
LC3	877.34	845.63	NM	NM	NM	845.52	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

Sampling Point	Collection Date	Parameters																										
		Acetone <sup>1</sup>	Benzene	Bromochloroethane	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-103 <sup>2</sup>	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									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									4.7		98 E	
	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		
	04/98*	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	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	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
	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	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	NA
	2/1/2007					6.1 J									10										0.82 J		0.34	
	5/2/2007					1.7									14										1.7		0.75	
	10/18/2007														26										2.8		2.2	
	5/5/2008					0.63 J									15.7										3.4			
	10/2/2008					0.43 J									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				0.73 J						2.4			
	1/26/2011														2.9										2.7			
	4/1/2011														2.7										2.1			
	7/11/2011														4.2				0.74 J						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				

































Table 3. Groundwater Natural Attenuation Parameters  
 FFNN Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO <sub>3</sub> <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	Fe <sup>2+</sup>	SO <sub>4</sub> <sup>2-</sup>	S <sup>2-</sup>	CH <sub>4</sub>					
	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	uS/cm	Units	C
	Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mV	mg/l			
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	1780	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
MW-104	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
MW-107	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-111	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
MW-112	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
	12/5/2002									866	7.15	7.84
	8/8/2007									920	7.45	11.4
	5/5/2008									732	7.45	11.9
P-101	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
	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
P-101	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
	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									822	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/N/L Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
	Detection Range	NO <sub>3</sub> <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	Fe <sup>2+</sup>	SO <sub>4</sub> <sup>2-</sup>	S <sup>2-</sup>	CH <sub>4</sub>	mV	mg/l	uS/cm	Units	C
	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	
P-106	4/24/2013						-6	3.17	764	7.26	9.8	
	12/4/2002	NM	NM	NM	66		0.11	-28.00	0.86	791	7.22	9.40
P-107	4/21/2003				74			37.30	0.76	646	7.43	9.62
	10/21/2003	<0.058						-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	<0.20	<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	
12/5/2002				36			-87	-0.11	1248	6.57	9.84	
12/5/2002				36								
4/22/2003				46								
10/22/2003	<0.058			43								
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	







Table 3. Groundwater Natural Attenuation Parameters  
 FFNS Landfill, Ripon, WI

Well ID	Compound	Nitrate	Nitrite	Iron 2	Sulfate	Sulfide	Methane	ORP**	Dissolved Oxygen	Specific Conductivity	pH	Temperature
		NO <sub>3</sub> <sup>-</sup>	NO <sub>2</sub> <sup>-</sup>	Fe <sup>2+</sup>	SO <sub>4</sub> <sup>2-</sup>	S <sup>2-</sup>	CH <sub>4</sub>					
	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-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
10/29/2009	<0.20	<0.08	>2.5	15.18	<0.2	0.0098	-167	3.00	489	7.55	10.8	
2/26/2010	<0.20			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	<0.20			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

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
LC-1	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	6/13/2007	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	1/8/2009	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
LC-1	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	
	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	69.5	
	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	11:09	3/20/2006	61.9	36.8	1.0	0.3	
	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	
LC-2	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

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments
	11:45	5/30/2007	44.5	27.4	1.9	26.2	target percentages
	13:45	5/30/2007	46.0	28.2	1.5	24.3	restart and run 24 hrs
	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <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	



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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
LC-2	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	
	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	29.9	
	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	
	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments
	11:30	5/30/2007	29.0	22.8	3.0	45.2	target percentages
	13:52	5/30/2007	30.5	22.8	3.2	43.5	restart and run 24 hrs
	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <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	
LC-3	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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
	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	

LC-3

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <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		
16:50	3/24/2007	12.0	19.4	2.8	65.8		

GV-6

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	

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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <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	19.8	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	



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

Active Extraction Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
GV-6	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	
	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
	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

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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		
GP-1	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	7/28/2006	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
GP-1	9:00	2/4/2008	0.1	2.2	14.6	83.1	
	7:30	2/18/2008	0.2	2.0	14.8	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
-------------------	------	------	---------------------------------	---------------------------------	--------------------------	--------------	--------------------------------

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	9:00	3/22/2006	29.5	27.8	0.5	42.2	
	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	
GP-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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-2	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		



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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <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	
GP-3	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	
	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-3	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	9:11	3/22/2006	0.0	1.4	20.4	78.2	
	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	
GP-4	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-4	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	N	Comments
			(%) variable	(%) variable	(%) <5	(%) <40	
	9:13	3/22/2006	0.0	4.4	17.6	78.0	target percentages 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	
GP-5	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	
	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-5	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	7:45	3/22/2006	0.0	6.1	13.9	80.0	
	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	
GP-6	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-6	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	



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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	7:40	3/22/2006	1.0	7.0	13.0	79.0	
	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	
GP-7	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
GP-8	9:03	3/22/2006	0.0	2.4	18.6	79.0	
	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-8	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
GP-10	8:58	3/22/2006	0.0	4.5	15.4	80.1	
	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		

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-10	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	9:09	3/22/2006	0.0	3.5	17.6	78.9	
	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	
GP-11	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-11	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		



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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	9:06	3/22/2006	0.0	5.7	13.0	81.3	
	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	
GP-12	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
GP-12	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	9:24	3/23/2006	2.9	18.1	0.8	78.2	
	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
MW-101	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		

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	14:20	3/23/2006	0.0	0.7	20.5	78.8	
	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	
MW-102	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
MW-102	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	7:49	3/23/2006	0.0	0.2	21.8	78.0	
	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		
MW-103	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	
	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	

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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
MW-103	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		



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

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages pre-startup
	9:29	3/23/2006	12.8	18.5	0.8	67.9	
	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		
MW-104	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	
	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		

Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
MW-104	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	

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

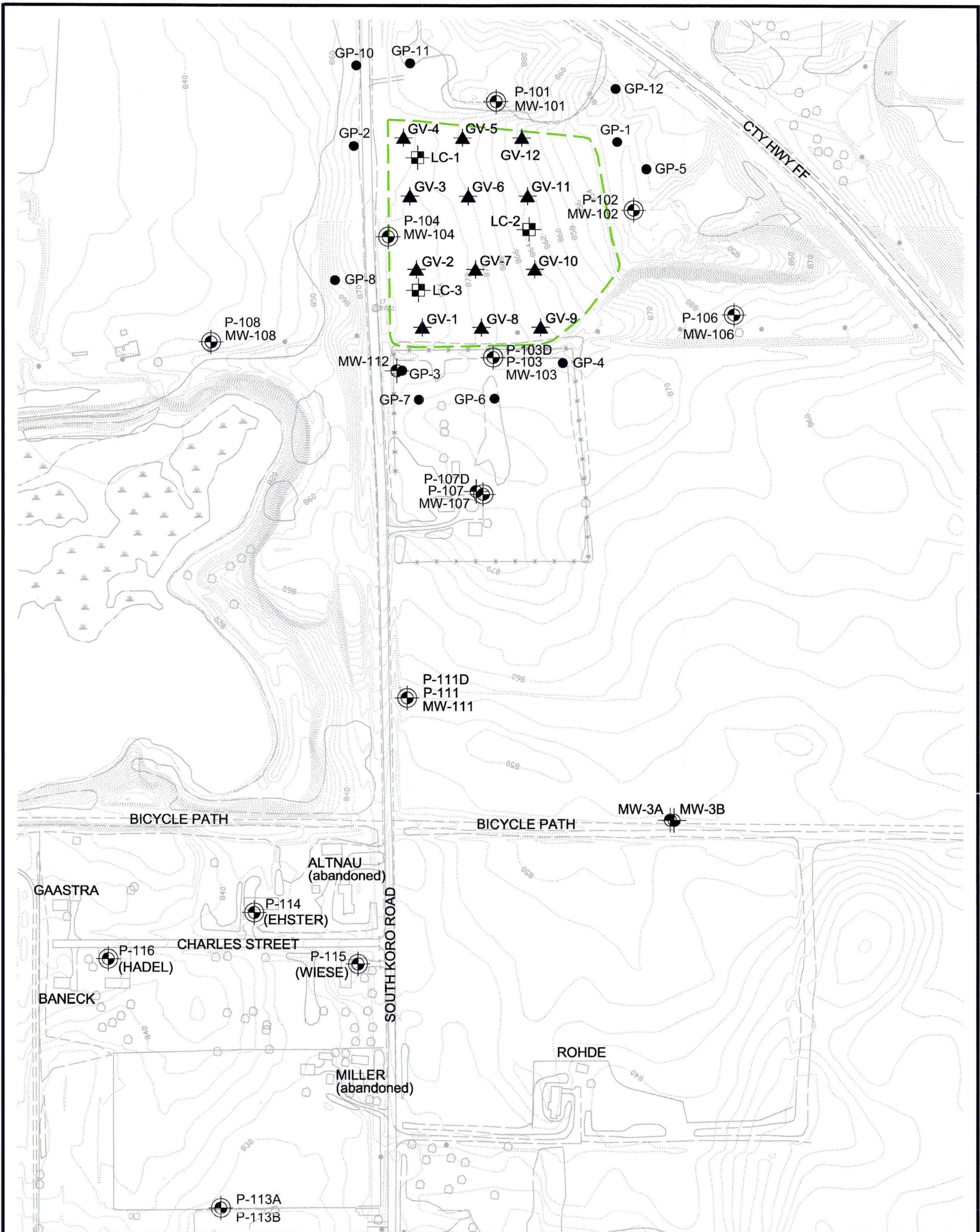
Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	2:00	3/28/2006	4.4	4.0	17.8	73.8	
	12:52	5/4/2006	8.6	14.7	7.4	69.3	
	11:15	6/28/2006	5.9	14.5	9.5	70.1	
	11:45	7/5/2006	6.1	18.7	7.2	68.0	
	11:12	7/10/2006	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	
System Exhaust	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		

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






Monitoring Points	Time	Date	CH <sub>4</sub> (%) variable	CO <sub>2</sub> (%) variable	O <sub>2</sub> (%) <5	N (%) <40	Comments target percentages
	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	
System Exhaust	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	

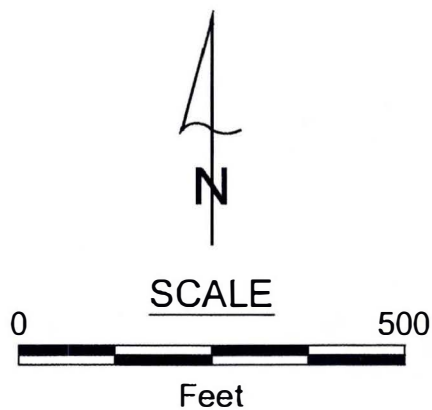
---

## FIGURES




### EXPLANATION

- 
P-104  
MW-104
- 
LC-2
- 
OUTLINE OF CLOSED LANDFILL
- 
GP-1
- 
GV-1



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

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 10/3/13
SITE LAYOUT	DESIGNED: HJW
	CHECKED: MRN
	APPROVED: MRN
	DRAWN: HJW
PROJ.: 117-2202040	
 <b>TETRA TECH</b>	Figure 1

## CHARTS

Chart 50: P-107  
Layer 2 Well

370' Down gradient

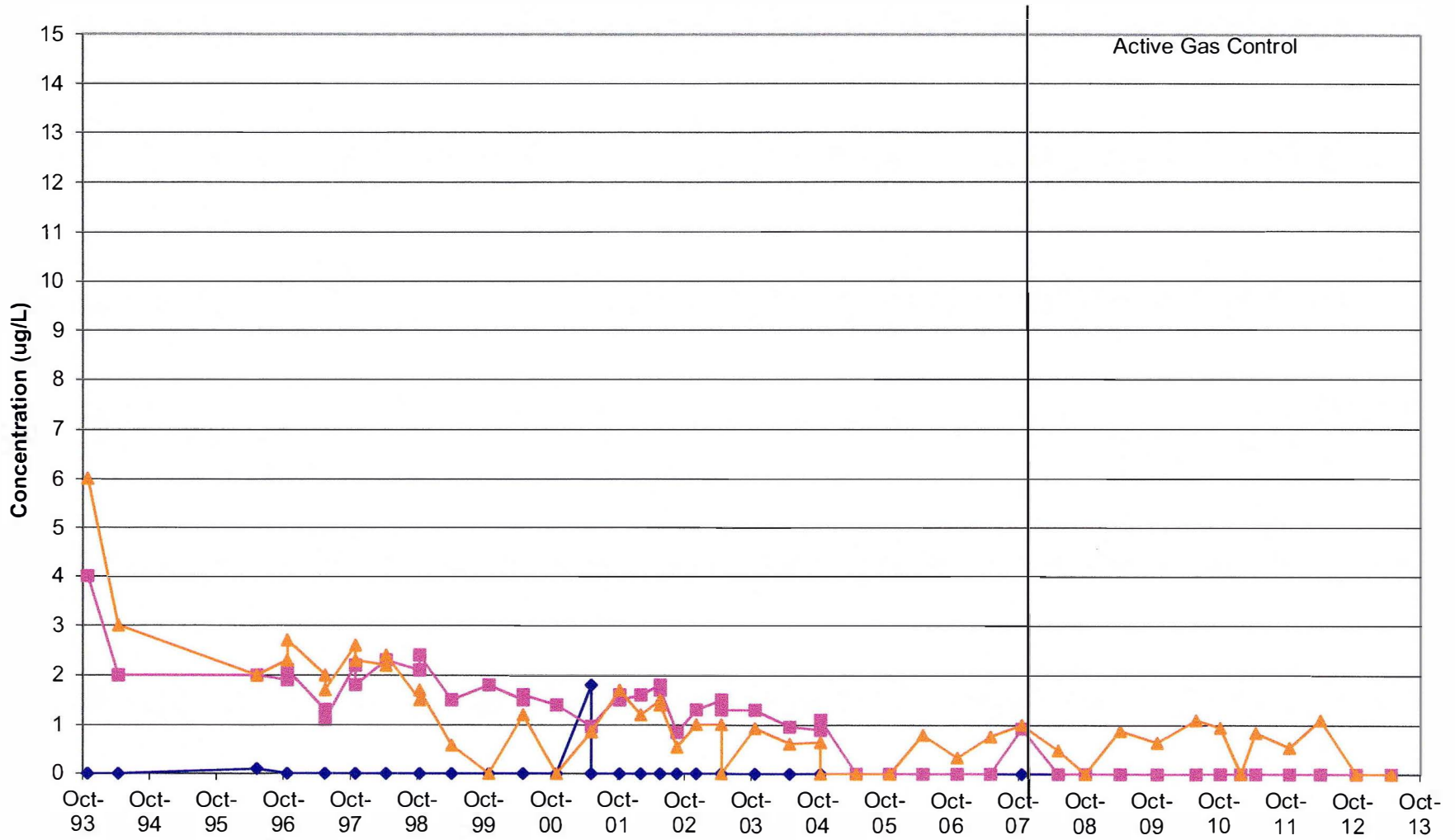
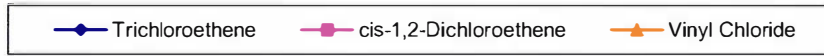




Chart 54: P-111D  
Layer 3 Well

900' Down gradient

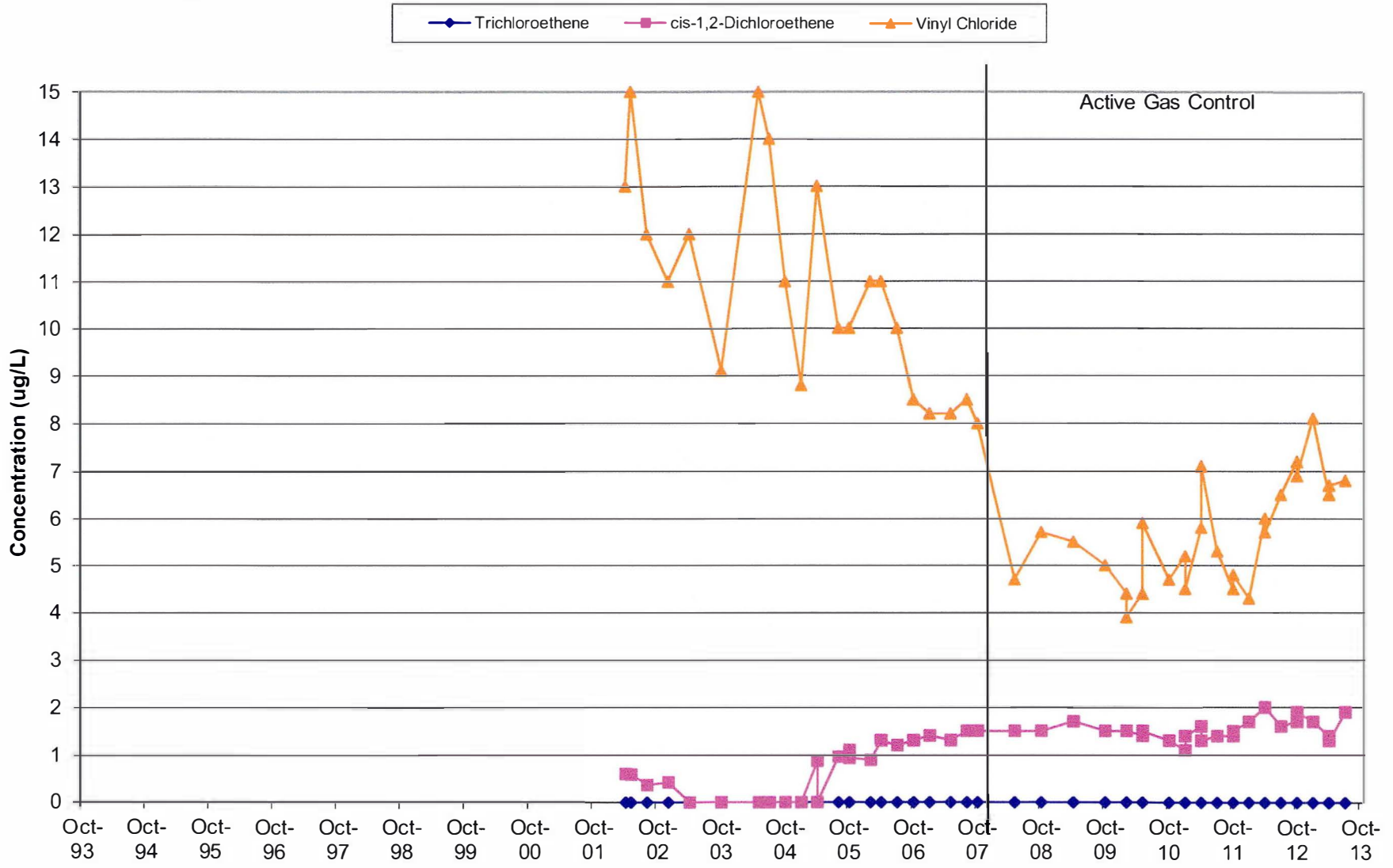


Chart 57: P-114  
Layer 3 Well

1550' Down gradient

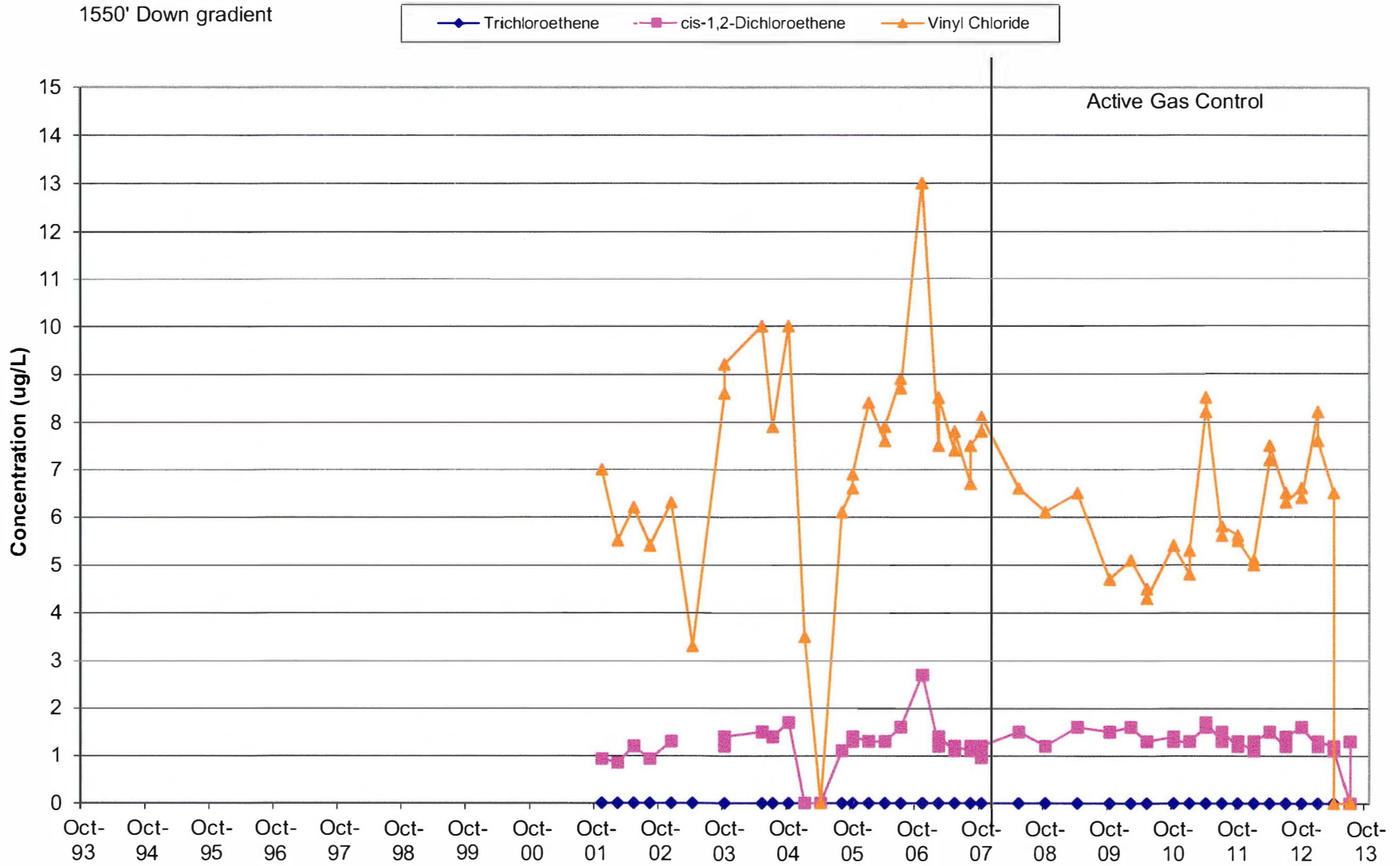


Chart 58: P-115  
Layer 3 Well

1600' Down gradient

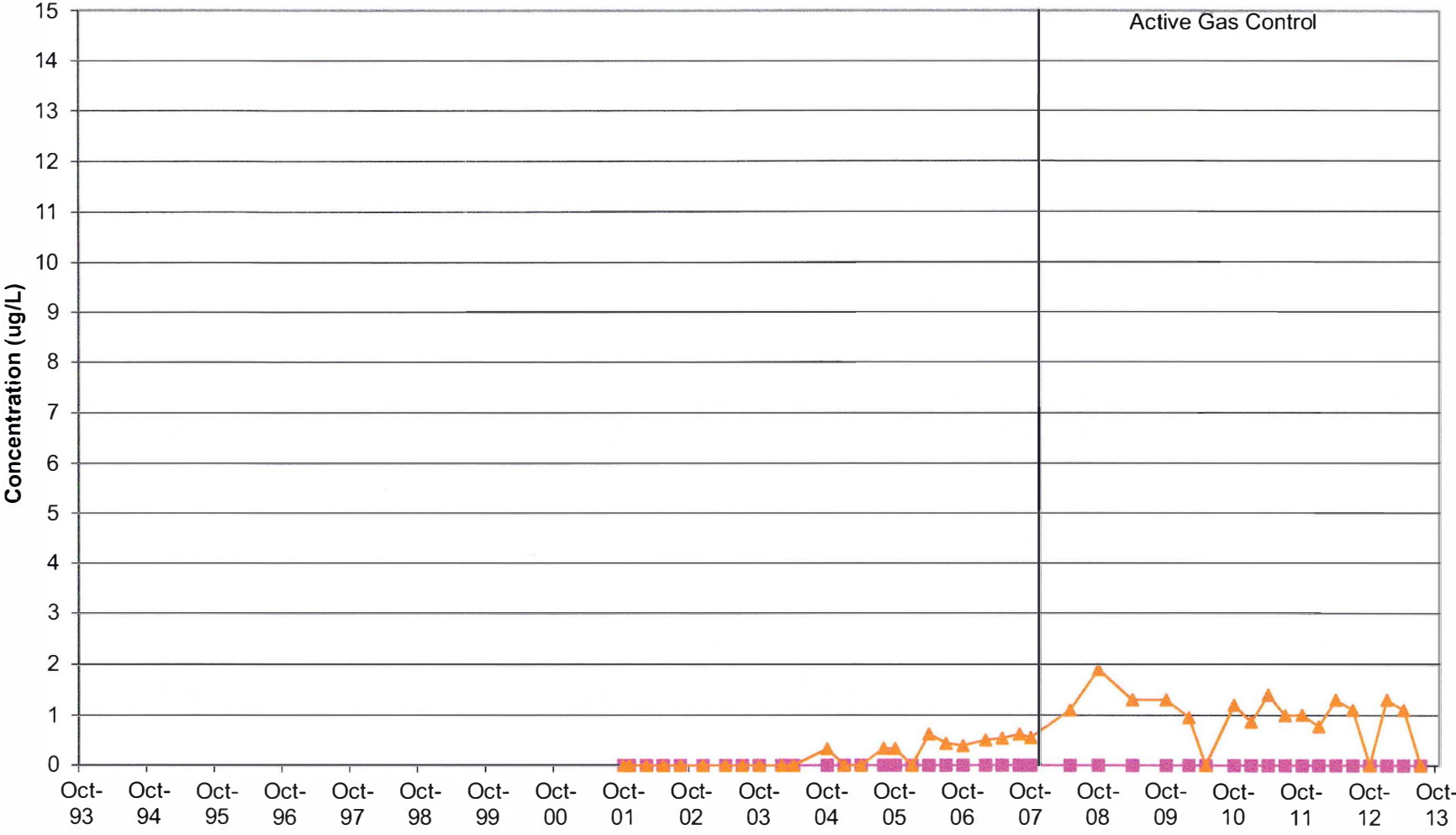
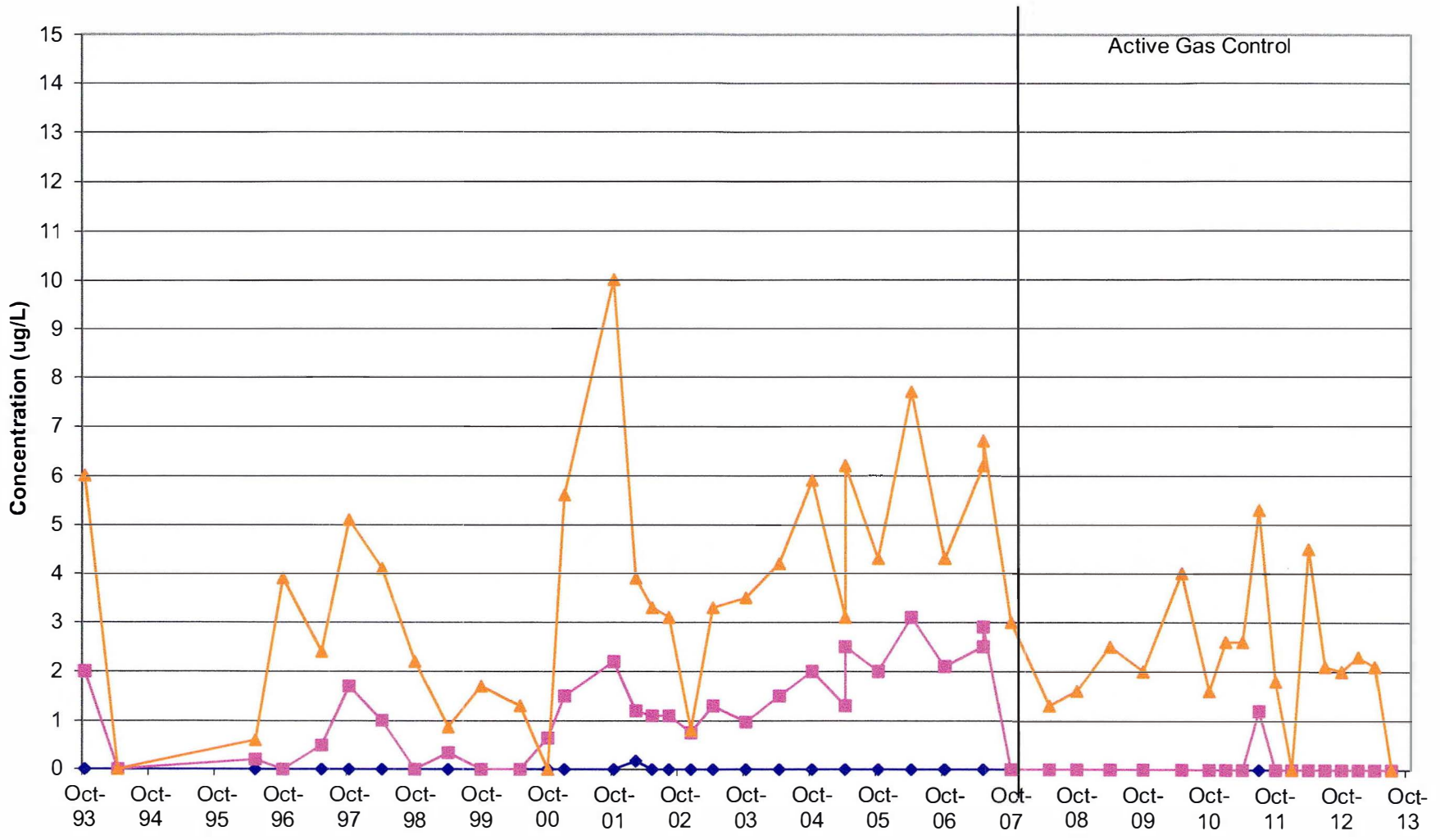
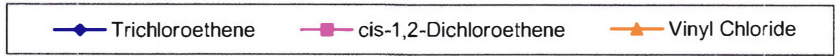


Chart 61: P-107D  
Layer 4 Well

370' Down gradient



## **APPENDICES**

**APPENDIX B**  
**LABORATORY ANALYTICAL RESULTS**

July 18, 2013

Mr. Nelson Olavarria  
Cooper Industries, LLC  
600 Travis Street  
Suite 5600  
Houston, TX 77002

RE: Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

Dear Mr. Olavarria:

Enclosed are the analytical results for sample(s) received by the laboratory on July 03, 2013. 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,



David A. Pichette

david.pichette@pacelabs.com  
Project Manager

Enclosures

cc: Mr. Michael Noel, Geotrans, Inc.



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

---

### 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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



### SAMPLE SUMMARY

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3098112001	P-103D	Water	07/02/13 09:45	07/03/13 14:50
3098112002	P-107D	Water	07/02/13 10:25	07/03/13 14:50
3098112003	P-111D	Water	07/02/13 11:10	07/03/13 14:50
3098112004	MW-3A	Water	07/02/13 11:50	07/03/13 14:50
3098112005	MW-3B	Water	07/02/13 12:20	07/03/13 14:50
3098112006	P-113A	Water	07/02/13 13:50	07/03/13 14:50
3098112007	P-113B	Water	07/02/13 14:35	07/03/13 14:50
3098112008	P-116	Water	07/02/13 15:20	07/03/13 14:50
3098112009	P-114	Water	07/02/13 15:50	07/03/13 14:50
3098112010	P-114 DUP	Water	07/02/13 15:55	07/03/13 14:50
3098112011	P-115	Water	07/02/13 16:25	07/03/13 14:50
3098112012	TRIP BLANK	Water	07/02/13 00:01	07/03/13 14:50

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### SAMPLE ANALYTE COUNT

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3098112001	P-103D	EPA 8260	HNW	45	PASI-G
3098112002	P-107D	EPA 8260	HNW	45	PASI-G
3098112003	P-111D	EPA 8260	HNW	45	PASI-G
3098112004	MW-3A	EPA 8260	HNW	45	PASI-G
3098112005	MW-3B	EPA 8260	HNW	45	PASI-G
3098112006	P-113A	EPA 8260	HNW	45	PASI-G
3098112007	P-113B	EPA 8260	HNW	45	PASI-G
3098112008	P-116	EPA 8260	SMT	45	PASI-G
3098112009	P-114	EPA 8260	HNW	45	PASI-G
3098112010	P-114 DUP	EPA 8260	HNW	45	PASI-G
3098112011	P-115	EPA 8260	HNW	45	PASI-G
3098112012	TRIP BLANK	EPA 8260	HNW	45	PASI-G

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Sample Project No.: 3098112

Sample: P-103D Lab ID: 3098112001 Collected: 07/02/13 09:45 Received: 07/03/13 14:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	2.6	1		07/08/13 10:24	67-64-1	
Benzene	ND ug/L		1.0	0.50	1		07/08/13 10:24	71-43-2	
Bromodichloromethane	ND ug/L		1.0	0.45	1		07/08/13 10:24	75-27-4	
Bromoform	ND ug/L		1.0	0.23	1		07/08/13 10:24	75-25-2	
Bromomethane	ND ug/L		5.0	0.43	1		07/08/13 10:24	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	2.7	1		07/08/13 10:24	78-93-3	
Carbon disulfide	ND ug/L		5.0	0.71	1		07/08/13 10:24	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	0.37	1		07/08/13 10:24	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.36	1		07/08/13 10:24	108-90-7	
Chloroethane	ND ug/L		1.0	0.44	1		07/08/13 10:24	75-00-3	
Chloroform	ND ug/L		5.0	0.69	1		07/08/13 10:24	67-66-3	
Chloromethane	ND ug/L		1.0	0.39	1		07/08/13 10:24	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1.5	1		07/08/13 10:24	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1.9	1		07/08/13 10:24	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.38	1		07/08/13 10:24	106-93-4	
Dibromomethane	ND ug/L		1.0	0.48	1		07/08/13 10:24	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.44	1		07/08/13 10:24	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.45	1		07/08/13 10:24	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.43	1		07/08/13 10:24	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		07/08/13 10:24	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.28	1		07/08/13 10:24	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.48	1		07/08/13 10:24	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.43	1		07/08/13 10:24	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.42	1		07/08/13 10:24	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.37	1		07/08/13 10:24	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.50	1		07/08/13 10:24	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.29	1		07/08/13 10:24	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		07/08/13 10:24	10061-02-6	
Ethylbenzene	ND ug/L		1.0	0.50	1		07/08/13 10:24	100-41-4	
Methylene Chloride	ND ug/L		1.0	0.36	1		07/08/13 10:24	75-09-2	
Methyl-tert-butyl ether	ND ug/L		1.0	0.49	1		07/08/13 10:24	1634-04-4	
Naphthalene	ND ug/L		5.0	2.5	1		07/08/13 10:24	91-20-3	
Styrene	ND ug/L		1.0	0.35	1		07/08/13 10:24	100-42-5	
Tetrachloroethene	ND ug/L		1.0	0.47	1		07/08/13 10:24	127-18-4	
Tetrahydrofuran	ND ug/L		5.0	1.5	1		07/08/13 10:24	109-99-9	
Toluene	ND ug/L		1.0	0.44	1		07/08/13 10:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	0.44	1		07/08/13 10:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.39	1		07/08/13 10:24	79-00-5	
Trichloroethene	ND ug/L		1.0	0.43	1		07/08/13 10:24	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.48	1		07/08/13 10:24	75-69-4	
Vinyl chloride	ND ug/L		1.0	0.18	1		07/08/13 10:24	75-01-4	
Xylene (Total)	ND ug/L		3.0	1.3	1		07/08/13 10:24	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		07/08/13 10:24	460-00-4	
Dibromofluoromethane (S)	101 %		70-130		1		07/08/13 10:24	1868-53-7	
Toluene-d8 (S)	101 %		55-137		1		07/08/13 10:24	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: P-107D      Lab ID: 3098112002      Collected: 07/02/13 10:25      Received: 07/03/13 14:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	2.6	1		07/08/13 10:46	67-64-1	
Benzene	ND ug/L		1.0	0.50	1		07/08/13 10:46	71-43-2	
Bromodichloromethane	ND ug/L		1.0	0.45	1		07/08/13 10:46	75-27-4	
Bromoform	ND ug/L		1.0	0.23	1		07/08/13 10:46	75-25-2	
Bromomethane	ND ug/L		5.0	0.43	1		07/08/13 10:46	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	2.7	1		07/08/13 10:46	78-93-3	
Carbon disulfide	ND ug/L		5.0	0.71	1		07/08/13 10:46	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	0.37	1		07/08/13 10:46	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.36	1		07/08/13 10:46	108-90-7	
Chloroethane	ND ug/L		1.0	0.44	1		07/08/13 10:46	75-00-3	
Chloroform	ND ug/L		5.0	0.69	1		07/08/13 10:46	67-66-3	
Chloromethane	ND ug/L		1.0	0.39	1		07/08/13 10:46	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1.5	1		07/08/13 10:46	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1.9	1		07/08/13 10:46	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.38	1		07/08/13 10:46	106-93-4	
Dibromomethane	ND ug/L		1.0	0.48	1		07/08/13 10:46	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.44	1		07/08/13 10:46	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.45	1		07/08/13 10:46	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.43	1		07/08/13 10:46	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		07/08/13 10:46	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.28	1		07/08/13 10:46	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.48	1		07/08/13 10:46	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.43	1		07/08/13 10:46	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.42	1		07/08/13 10:46	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.37	1		07/08/13 10:46	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.50	1		07/08/13 10:46	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.29	1		07/08/13 10:46	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		07/08/13 10:46	10061-02-6	
Ethylbenzene	ND ug/L		1.0	0.50	1		07/08/13 10:46	100-41-4	
Methylene Chloride	ND ug/L		1.0	0.36	1		07/08/13 10:46	75-09-2	
Methyl-tert-butyl ether	ND ug/L		1.0	0.49	1		07/08/13 10:46	1634-04-4	
Naphthalene	ND ug/L		5.0	2.5	1		07/08/13 10:46	91-20-3	
Styrene	ND ug/L		1.0	0.35	1		07/08/13 10:46	100-42-5	
Tetrachloroethene	ND ug/L		1.0	0.47	1		07/08/13 10:46	127-18-4	
Tetrahydrofuran	ND ug/L		5.0	1.5	1		07/08/13 10:46	109-99-9	
Toluene	ND ug/L		1.0	0.44	1		07/08/13 10:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	0.44	1		07/08/13 10:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.39	1		07/08/13 10:46	79-00-5	
Trichloroethene	ND ug/L		1.0	0.43	1		07/08/13 10:46	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.48	1		07/08/13 10:46	75-69-4	
Vinyl chloride	ND ug/L		1.0	0.18	1		07/08/13 10:46	75-01-4	
Xylene (Total)	ND ug/L		3.0	1.3	1		07/08/13 10:46	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91 %		43-137		1		07/08/13 10:46	460-00-4	
Dibromofluoromethane (S)	98 %		70-130		1		07/08/13 10:46	1868-53-7	
Toluene-d8 (S)	100 %		55-137		1		07/08/13 10:46	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: P-111D      Lab ID: 3098112003      Collected: 07/02/13 11:10      Received: 07/03/13 14:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	2.6	1		07/08/13 11:08	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		07/08/13 11:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		07/08/13 11:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		07/08/13 11:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		07/08/13 11:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		07/08/13 11:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		07/08/13 11:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		07/08/13 11:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		07/08/13 11:08	108-90-7	
Chloroethane	1.9	ug/L	1.0	0.44	1		07/08/13 11:08	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		07/08/13 11:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/08/13 11:08	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		07/08/13 11:08	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		07/08/13 11:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		07/08/13 11:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		07/08/13 11:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		07/08/13 11:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		07/08/13 11:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		07/08/13 11:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		07/08/13 11:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		07/08/13 11:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		07/08/13 11:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 11:08	75-35-4	
cis-1,2-Dichloroethene	1.9	ug/L	1.0	0.42	1		07/08/13 11:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		07/08/13 11:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		07/08/13 11:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		07/08/13 11:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/08/13 11:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		07/08/13 11:08	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		07/08/13 11:08	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		07/08/13 11:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		07/08/13 11:08	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		07/08/13 11:08	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		07/08/13 11:08	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		07/08/13 11:08	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		07/08/13 11:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		07/08/13 11:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		07/08/13 11:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 11:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		07/08/13 11:08	75-69-4	
Vinyl chloride	6.8	ug/L	1.0	0.18	1		07/08/13 11:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		07/08/13 11:08	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96 %		43-137		1		07/08/13 11:08	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		07/08/13 11:08	1868-53-7	
Toluene-d8 (S)	98 %		55-137		1		07/08/13 11:08	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: MW-3A		Lab ID: 3098112004	Collected: 07/02/13 11:50	Received: 07/03/13 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	2.6	1		07/08/13 11:30	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		07/08/13 11:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		07/08/13 11:30	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		07/08/13 11:30	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		07/08/13 11:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		07/08/13 11:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		07/08/13 11:30	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		07/08/13 11:30	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		07/08/13 11:30	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		07/08/13 11:30	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		07/08/13 11:30	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/08/13 11:30	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		07/08/13 11:30	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		07/08/13 11:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		07/08/13 11:30	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		07/08/13 11:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		07/08/13 11:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		07/08/13 11:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		07/08/13 11:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		07/08/13 11:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		07/08/13 11:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		07/08/13 11:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 11:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		07/08/13 11:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		07/08/13 11:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		07/08/13 11:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		07/08/13 11:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/08/13 11:30	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		07/08/13 11:30	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		07/08/13 11:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		07/08/13 11:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		07/08/13 11:30	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		07/08/13 11:30	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		07/08/13 11:30	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		07/08/13 11:30	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		07/08/13 11:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		07/08/13 11:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		07/08/13 11:30	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 11:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		07/08/13 11:30	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		07/08/13 11:30	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		07/08/13 11:30	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91 %		43-137		1		07/08/13 11:30	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		07/08/13 11:30	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		07/08/13 11:30	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

Sample: MW-3B Lab ID: 3098112005 Collected: 07/02/13 12:20 Received: 07/03/13 14:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	2.6	1		07/08/13 11:53	67-64-1	
Benzene	ND ug/L		1.0	0.50	1		07/08/13 11:53	71-43-2	
Bromodichloromethane	ND ug/L		1.0	0.45	1		07/08/13 11:53	75-27-4	
Bromoform	ND ug/L		1.0	0.23	1		07/08/13 11:53	75-25-2	
Bromomethane	ND ug/L		5.0	0.43	1		07/08/13 11:53	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	2.7	1		07/08/13 11:53	78-93-3	
Carbon disulfide	ND ug/L		5.0	0.71	1		07/08/13 11:53	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	0.37	1		07/08/13 11:53	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.36	1		07/08/13 11:53	108-90-7	
Chloroethane	ND ug/L		1.0	0.44	1		07/08/13 11:53	75-00-3	
Chloroform	ND ug/L		5.0	0.69	1		07/08/13 11:53	67-66-3	
Chloromethane	ND ug/L		1.0	0.39	1		07/08/13 11:53	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1.5	1		07/08/13 11:53	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1.9	1		07/08/13 11:53	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.38	1		07/08/13 11:53	106-93-4	
Dibromomethane	ND ug/L		1.0	0.48	1		07/08/13 11:53	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.44	1		07/08/13 11:53	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.45	1		07/08/13 11:53	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.43	1		07/08/13 11:53	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		07/08/13 11:53	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.28	1		07/08/13 11:53	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.48	1		07/08/13 11:53	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.43	1		07/08/13 11:53	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.42	1		07/08/13 11:53	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.37	1		07/08/13 11:53	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.50	1		07/08/13 11:53	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.29	1		07/08/13 11:53	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		07/08/13 11:53	10061-02-6	
Ethylbenzene	ND ug/L		1.0	0.50	1		07/08/13 11:53	100-41-4	
Methylene Chloride	ND ug/L		1.0	0.36	1		07/08/13 11:53	75-09-2	
Methyl-tert-butyl ether	ND ug/L		1.0	0.49	1		07/08/13 11:53	1634-04-4	
Naphthalene	ND ug/L		5.0	2.5	1		07/08/13 11:53	91-20-3	
Styrene	ND ug/L		1.0	0.35	1		07/08/13 11:53	100-42-5	
Tetrachloroethene	ND ug/L		1.0	0.47	1		07/08/13 11:53	127-18-4	
Tetrahydrofuran	ND ug/L		5.0	1.5	1		07/08/13 11:53	109-99-9	
Toluene	ND ug/L		1.0	0.44	1		07/08/13 11:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	0.44	1		07/08/13 11:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.39	1		07/08/13 11:53	79-00-5	
Trichloroethene	ND ug/L		1.0	0.43	1		07/08/13 11:53	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.48	1		07/08/13 11:53	75-69-4	
Vinyl chloride	ND ug/L		1.0	0.18	1		07/08/13 11:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1.3	1		07/08/13 11:53	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95 %		43-137		1		07/08/13 11:53	460-00-4	
Dibromofluoromethane (S)	98 %		70-130		1		07/08/13 11:53	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		07/08/13 11:53	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: P-113A      Lab ID: 3098112006      Collected: 07/02/13 13:50      Received: 07/03/13 14:50      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	2.6	1		07/08/13 12:15	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		07/08/13 12:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		07/08/13 12:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		07/08/13 12:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		07/08/13 12:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		07/08/13 12:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		07/08/13 12:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		07/08/13 12:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		07/08/13 12:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		07/08/13 12:15	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		07/08/13 12:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/08/13 12:15	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		07/08/13 12:15	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		07/08/13 12:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		07/08/13 12:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		07/08/13 12:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		07/08/13 12:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		07/08/13 12:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		07/08/13 12:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		07/08/13 12:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		07/08/13 12:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		07/08/13 12:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 12:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		07/08/13 12:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		07/08/13 12:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		07/08/13 12:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		07/08/13 12:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/08/13 12:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		07/08/13 12:15	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		07/08/13 12:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		07/08/13 12:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		07/08/13 12:15	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		07/08/13 12:15	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		07/08/13 12:15	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		07/08/13 12:15	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		07/08/13 12:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		07/08/13 12:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		07/08/13 12:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 12:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		07/08/13 12:15	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		07/08/13 12:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		07/08/13 12:15	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93 %		43-137		1		07/08/13 12:15	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		07/08/13 12:15	1868-53-7	
Toluene-d8 (S)	100 %		55-137		1		07/08/13 12:15	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



### ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

Sample: P-113B Lab ID: 3098112007 Collected: 07/02/13 14:35 Received: 07/03/13 14:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	2.6	1		07/08/13 12:37	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		07/08/13 12:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		07/08/13 12:37	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		07/08/13 12:37	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		07/08/13 12:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		07/08/13 12:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		07/08/13 12:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		07/08/13 12:37	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		07/08/13 12:37	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		07/08/13 12:37	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		07/08/13 12:37	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/08/13 12:37	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		07/08/13 12:37	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		07/08/13 12:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		07/08/13 12:37	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		07/08/13 12:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		07/08/13 12:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		07/08/13 12:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		07/08/13 12:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		07/08/13 12:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		07/08/13 12:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		07/08/13 12:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 12:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		07/08/13 12:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		07/08/13 12:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		07/08/13 12:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		07/08/13 12:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/08/13 12:37	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		07/08/13 12:37	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		07/08/13 12:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		07/08/13 12:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		07/08/13 12:37	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		07/08/13 12:37	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		07/08/13 12:37	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		07/08/13 12:37	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		07/08/13 12:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		07/08/13 12:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		07/08/13 12:37	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 12:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		07/08/13 12:37	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		07/08/13 12:37	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		07/08/13 12:37	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		07/08/13 12:37	460-00-4	
Dibromofluoromethane (S)	101 %		70-130		1		07/08/13 12:37	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		07/08/13 12:37	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: P-116		Lab ID: 3098112008	Collected: 07/02/13 15:20	Received: 07/03/13 14:50	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Acetone	ND	ug/L	20.0	2.6	1		07/10/13 11:09	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		07/10/13 11:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		07/10/13 11:09	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		07/10/13 11:09	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		07/10/13 11:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		07/10/13 11:09	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		07/10/13 11:09	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		07/10/13 11:09	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		07/10/13 11:09	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		07/10/13 11:09	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		07/10/13 11:09	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/10/13 11:09	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		07/10/13 11:09	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		07/10/13 11:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		07/10/13 11:09	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		07/10/13 11:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		07/10/13 11:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		07/10/13 11:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		07/10/13 11:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		07/10/13 11:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		07/10/13 11:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		07/10/13 11:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		07/10/13 11:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.42	1		07/10/13 11:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		07/10/13 11:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		07/10/13 11:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		07/10/13 11:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/10/13 11:09	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		07/10/13 11:09	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		07/10/13 11:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		07/10/13 11:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		07/10/13 11:09	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		07/10/13 11:09	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		07/10/13 11:09	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		07/10/13 11:09	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		07/10/13 11:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		07/10/13 11:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		07/10/13 11:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		07/10/13 11:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		07/10/13 11:09	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		07/10/13 11:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		07/10/13 11:09	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96 %		43-137		1		07/10/13 11:09	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		07/10/13 11:09	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		07/10/13 11:09	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: P-114 Lab ID: 3098112009 Collected: 07/02/13 15:50 Received: 07/03/13 14:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	2.6	1		07/08/13 12:59	67-64-1	
Benzene	ND ug/L		1.0	0.50	1		07/08/13 12:59	71-43-2	
Bromodichloromethane	ND ug/L		1.0	0.45	1		07/08/13 12:59	75-27-4	
Bromoform	ND ug/L		1.0	0.23	1		07/08/13 12:59	75-25-2	
Bromomethane	ND ug/L		5.0	0.43	1		07/08/13 12:59	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	2.7	1		07/08/13 12:59	78-93-3	
Carbon disulfide	ND ug/L		5.0	0.71	1		07/08/13 12:59	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	0.37	1		07/08/13 12:59	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.36	1		07/08/13 12:59	108-90-7	
Chloroethane	ND ug/L		1.0	0.44	1		07/08/13 12:59	75-00-3	
Chloroform	ND ug/L		5.0	0.69	1		07/08/13 12:59	67-66-3	
Chloromethane	ND ug/L		1.0	0.39	1		07/08/13 12:59	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1.5	1		07/08/13 12:59	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1.9	1		07/08/13 12:59	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.38	1		07/08/13 12:59	106-93-4	
Dibromomethane	ND ug/L		1.0	0.48	1		07/08/13 12:59	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.44	1		07/08/13 12:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.45	1		07/08/13 12:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.43	1		07/08/13 12:59	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		07/08/13 12:59	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.28	1		07/08/13 12:59	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.48	1		07/08/13 12:59	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.43	1		07/08/13 12:59	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.42	1		07/08/13 12:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.37	1		07/08/13 12:59	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.50	1		07/08/13 12:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.29	1		07/08/13 12:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		07/08/13 12:59	10061-02-6	
Ethylbenzene	ND ug/L		1.0	0.50	1		07/08/13 12:59	100-41-4	
Methylene Chloride	ND ug/L		1.0	0.36	1		07/08/13 12:59	75-09-2	
Methyl-tert-butyl ether	ND ug/L		1.0	0.49	1		07/08/13 12:59	1634-04-4	
Naphthalene	ND ug/L		5.0	2.5	1		07/08/13 12:59	91-20-3	
Styrene	ND ug/L		1.0	0.35	1		07/08/13 12:59	100-42-5	
Tetrachloroethene	ND ug/L		1.0	0.47	1		07/08/13 12:59	127-18-4	
Tetrahydrofuran	ND ug/L		5.0	1.5	1		07/08/13 12:59	109-99-9	
Toluene	ND ug/L		1.0	0.44	1		07/08/13 12:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	0.44	1		07/08/13 12:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.39	1		07/08/13 12:59	79-00-5	
Trichloroethene	ND ug/L		1.0	0.43	1		07/08/13 12:59	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.48	1		07/08/13 12:59	75-69-4	
Vinyl chloride	ND ug/L		1.0	0.18	1		07/08/13 12:59	75-01-4	
Xylene (Total)	ND ug/L		3.0	1.3	1		07/08/13 12:59	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91 %		43-137		1		07/08/13 12:59	460-00-4	
Dibromofluoromethane (S)	101 %		70-130		1		07/08/13 12:59	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		07/08/13 12:59	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: P-114 DUP									
Lab ID: 3098112010									
Collected: 07/02/13 15:55									
Received: 07/03/13 14:50									
Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	20.0	2.6	1		07/08/13 16:18	67-64-1	
Benzene	ND	ug/L	1.0	0.50	1		07/08/13 16:18	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	0.45	1		07/08/13 16:18	75-27-4	
Bromoform	ND	ug/L	1.0	0.23	1		07/08/13 16:18	75-25-2	
Bromomethane	ND	ug/L	5.0	0.43	1		07/08/13 16:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	20.0	2.7	1		07/08/13 16:18	78-93-3	
Carbon disulfide	ND	ug/L	5.0	0.71	1		07/08/13 16:18	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.37	1		07/08/13 16:18	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.36	1		07/08/13 16:18	108-90-7	
Chloroethane	ND	ug/L	1.0	0.44	1		07/08/13 16:18	75-00-3	
Chloroform	ND	ug/L	5.0	0.69	1		07/08/13 16:18	67-66-3	
Chloromethane	ND	ug/L	1.0	0.39	1		07/08/13 16:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1.5	1		07/08/13 16:18	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.9	1		07/08/13 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.38	1		07/08/13 16:18	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.48	1		07/08/13 16:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.44	1		07/08/13 16:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		07/08/13 16:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.43	1		07/08/13 16:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.40	1		07/08/13 16:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.28	1		07/08/13 16:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.48	1		07/08/13 16:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 16:18	75-35-4	
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.42	1		07/08/13 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.37	1		07/08/13 16:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.50	1		07/08/13 16:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		07/08/13 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		07/08/13 16:18	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.50	1		07/08/13 16:18	100-41-4	
Methylene Chloride	ND	ug/L	1.0	0.36	1		07/08/13 16:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.49	1		07/08/13 16:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.5	1		07/08/13 16:18	91-20-3	
Styrene	ND	ug/L	1.0	0.35	1		07/08/13 16:18	100-42-5	
Tetrachloroethene	ND	ug/L	1.0	0.47	1		07/08/13 16:18	127-18-4	
Tetrahydrofuran	ND	ug/L	5.0	1.5	1		07/08/13 16:18	109-99-9	
Toluene	ND	ug/L	1.0	0.44	1		07/08/13 16:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.44	1		07/08/13 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.39	1		07/08/13 16:18	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.43	1		07/08/13 16:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.48	1		07/08/13 16:18	75-69-4	
Vinyl chloride	ND	ug/L	1.0	0.18	1		07/08/13 16:18	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.3	1		07/08/13 16:18	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		07/08/13 16:18	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		07/08/13 16:18	1868-53-7	
Toluene-d8 (S)	101 %		55-137		1		07/08/13 16:18	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

Sample: P-115 Lab ID: 3098112011 Collected: 07/02/13 16:25 Received: 07/03/13 14:50 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	2.6	1		07/08/13 13:21	67-64-1	
Benzene	ND ug/L		1.0	0.50	1		07/08/13 13:21	71-43-2	
Bromodichloromethane	ND ug/L		1.0	0.45	1		07/08/13 13:21	75-27-4	
Bromoform	ND ug/L		1.0	0.23	1		07/08/13 13:21	75-25-2	
Bromomethane	ND ug/L		5.0	0.43	1		07/08/13 13:21	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	2.7	1		07/08/13 13:21	78-93-3	
Carbon disulfide	ND ug/L		5.0	0.71	1		07/08/13 13:21	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	0.37	1		07/08/13 13:21	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.36	1		07/08/13 13:21	108-90-7	
Chloroethane	ND ug/L		1.0	0.44	1		07/08/13 13:21	75-00-3	
Chloroform	ND ug/L		5.0	0.69	1		07/08/13 13:21	67-66-3	
Chloromethane	ND ug/L		1.0	0.39	1		07/08/13 13:21	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1.5	1		07/08/13 13:21	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1.9	1		07/08/13 13:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.38	1		07/08/13 13:21	106-93-4	
Dibromomethane	ND ug/L		1.0	0.48	1		07/08/13 13:21	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.44	1		07/08/13 13:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.45	1		07/08/13 13:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.43	1		07/08/13 13:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		07/08/13 13:21	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.28	1		07/08/13 13:21	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.48	1		07/08/13 13:21	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.43	1		07/08/13 13:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.42	1		07/08/13 13:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.37	1		07/08/13 13:21	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.50	1		07/08/13 13:21	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.29	1		07/08/13 13:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		07/08/13 13:21	10061-02-6	
Ethylbenzene	ND ug/L		1.0	0.50	1		07/08/13 13:21	100-41-4	
Methylene Chloride	ND ug/L		1.0	0.36	1		07/08/13 13:21	75-09-2	
Methyl-tert-butyl ether	ND ug/L		1.0	0.49	1		07/08/13 13:21	1634-04-4	
Naphthalene	ND ug/L		5.0	2.5	1		07/08/13 13:21	91-20-3	
Styrene	ND ug/L		1.0	0.35	1		07/08/13 13:21	100-42-5	
Tetrachloroethene	ND ug/L		1.0	0.47	1		07/08/13 13:21	127-18-4	
Tetrahydrofuran	ND ug/L		5.0	1.5	1		07/08/13 13:21	109-99-9	
Toluene	ND ug/L		1.0	0.44	1		07/08/13 13:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	0.44	1		07/08/13 13:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.39	1		07/08/13 13:21	79-00-5	
Trichloroethene	ND ug/L		1.0	0.43	1		07/08/13 13:21	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.48	1		07/08/13 13:21	75-69-4	
Vinyl chloride	ND ug/L		1.0	0.18	1		07/08/13 13:21	75-01-4	
Xylene (Total)	ND ug/L		3.0	1.3	1		07/08/13 13:21	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92 %		43-137		1		07/08/13 13:21	460-00-4	
Dibromofluoromethane (S)	100 %		70-130		1		07/08/13 13:21	1868-53-7	
Toluene-d8 (S)	100 %		55-137		1		07/08/13 13:21	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Sample: TRIP BLANK      Lab ID: 3098112012      Collected: 07/02/13 00:01      Received: 07/03/13 14:50      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Acetone	ND ug/L		20.0	2.6	1		07/08/13 13:43	67-64-1	
Benzene	ND ug/L		1.0	0.50	1		07/08/13 13:43	71-43-2	
Bromodichloromethane	ND ug/L		1.0	0.45	1		07/08/13 13:43	75-27-4	
Bromoform	ND ug/L		1.0	0.23	1		07/08/13 13:43	75-25-2	
Bromomethane	ND ug/L		5.0	0.43	1		07/08/13 13:43	74-83-9	
2-Butanone (MEK)	ND ug/L		20.0	2.7	1		07/08/13 13:43	78-93-3	
Carbon disulfide	ND ug/L		5.0	0.71	1		07/08/13 13:43	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	0.37	1		07/08/13 13:43	56-23-5	
Chlorobenzene	ND ug/L		1.0	0.36	1		07/08/13 13:43	108-90-7	
Chloroethane	ND ug/L		1.0	0.44	1		07/08/13 13:43	75-00-3	
Chloroform	ND ug/L		5.0	0.69	1		07/08/13 13:43	67-66-3	
Chloromethane	ND ug/L		1.0	0.39	1		07/08/13 13:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1.5	1		07/08/13 13:43	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1.9	1		07/08/13 13:43	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	0.38	1		07/08/13 13:43	106-93-4	
Dibromomethane	ND ug/L		1.0	0.48	1		07/08/13 13:43	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	0.44	1		07/08/13 13:43	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	0.45	1		07/08/13 13:43	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	0.43	1		07/08/13 13:43	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	0.40	1		07/08/13 13:43	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	0.28	1		07/08/13 13:43	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	0.48	1		07/08/13 13:43	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	0.43	1		07/08/13 13:43	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	0.42	1		07/08/13 13:43	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	0.37	1		07/08/13 13:43	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	0.50	1		07/08/13 13:43	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	0.29	1		07/08/13 13:43	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	0.26	1		07/08/13 13:43	10061-02-6	
Ethylbenzene	ND ug/L		1.0	0.50	1		07/08/13 13:43	100-41-4	
Methylene Chloride	ND ug/L		1.0	0.36	1		07/08/13 13:43	75-09-2	
Methyl-tert-butyl ether	ND ug/L		1.0	0.49	1		07/08/13 13:43	1634-04-4	
Naphthalene	ND ug/L		5.0	2.5	1		07/08/13 13:43	91-20-3	
Styrene	ND ug/L		1.0	0.35	1		07/08/13 13:43	100-42-5	
Tetrachloroethene	ND ug/L		1.0	0.47	1		07/08/13 13:43	127-18-4	
Tetrahydrofuran	ND ug/L		5.0	1.5	1		07/08/13 13:43	109-99-9	
Toluene	ND ug/L		1.0	0.44	1		07/08/13 13:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	0.44	1		07/08/13 13:43	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	0.39	1		07/08/13 13:43	79-00-5	
Trichloroethene	ND ug/L		1.0	0.43	1		07/08/13 13:43	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	0.48	1		07/08/13 13:43	75-69-4	
Vinyl chloride	ND ug/L		1.0	0.18	1		07/08/13 13:43	75-01-4	
Xylene (Total)	ND ug/L		3.0	1.3	1		07/08/13 13:43	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94 %		43-137		1		07/08/13 13:43	460-00-4	
Dibromofluoromethane (S)	103 %		70-130		1		07/08/13 13:43	1868-53-7	
Toluene-d8 (S)	99 %		55-137		1		07/08/13 13:43	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

QC Batch: MSV/20390 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 3098112001, 3098112002, 3098112003, 3098112004, 3098112005, 3098112006, 3098112007, 3098112009, 3098112010, 3098112011, 3098112012

METHOD BLANK: 819050 Matrix: Water  
 Associated Lab Samples: 3098112001, 3098112002, 3098112003, 3098112004, 3098112005, 3098112006, 3098112007, 3098112009, 3098112010, 3098112011, 3098112012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/08/13 07:04	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/08/13 07:04	
1,1-Dichloroethane	ug/L	ND	1.0	07/08/13 07:04	
1,1-Dichloroethene	ug/L	ND	1.0	07/08/13 07:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	07/08/13 07:04	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/08/13 07:04	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/08/13 07:04	
1,2-Dichloroethane	ug/L	ND	1.0	07/08/13 07:04	
1,2-Dichloropropane	ug/L	ND	1.0	07/08/13 07:04	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/08/13 07:04	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/08/13 07:04	
2-Butanone (MEK)	ug/L	ND	20.0	07/08/13 07:04	
Acetone	ug/L	ND	20.0	07/08/13 07:04	
Benzene	ug/L	ND	1.0	07/08/13 07:04	
Bromodichloromethane	ug/L	ND	1.0	07/08/13 07:04	
Bromoform	ug/L	ND	1.0	07/08/13 07:04	
Bromomethane	ug/L	ND	5.0	07/08/13 07:04	
Carbon disulfide	ug/L	ND	5.0	07/08/13 07:04	
Carbon tetrachloride	ug/L	ND	1.0	07/08/13 07:04	
Chlorobenzene	ug/L	ND	1.0	07/08/13 07:04	
Chloroethane	ug/L	ND	1.0	07/08/13 07:04	
Chloroform	ug/L	ND	5.0	07/08/13 07:04	
Chloromethane	ug/L	ND	1.0	07/08/13 07:04	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/08/13 07:04	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/08/13 07:04	
Dibromochloromethane	ug/L	ND	5.0	07/08/13 07:04	
Dibromomethane	ug/L	ND	1.0	07/08/13 07:04	
Dichlorodifluoromethane	ug/L	ND	1.0	07/08/13 07:04	
Ethylbenzene	ug/L	ND	1.0	07/08/13 07:04	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/08/13 07:04	
Methylene Chloride	ug/L	ND	1.0	07/08/13 07:04	
Naphthalene	ug/L	ND	5.0	07/08/13 07:04	
Styrene	ug/L	ND	1.0	07/08/13 07:04	
Tetrachloroethene	ug/L	ND	1.0	07/08/13 07:04	
Tetrahydrofuran	ug/L	ND	5.0	07/08/13 07:04	
Toluene	ug/L	ND	1.0	07/08/13 07:04	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/08/13 07:04	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/08/13 07:04	
Trichloroethene	ug/L	ND	1.0	07/08/13 07:04	
Trichlorofluoromethane	ug/L	ND	1.0	07/08/13 07:04	
Vinyl chloride	ug/L	ND	1.0	07/08/13 07:04	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

METHOD BLANK: 819050

Matrix: Water

Associated Lab Samples: 3098112001, 3098112002, 3098112003, 3098112004, 3098112005, 3098112006, 3098112007, 3098112009, 3098112010, 3098112011, 3098112012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ug/L	ND	3.0	07/08/13 07:04	
4-Bromofluorobenzene (S)	%	92	43-137	07/08/13 07:04	
Dibromofluoromethane (S)	%	96	70-130	07/08/13 07:04	
Toluene-d8 (S)	%	101	55-137	07/08/13 07:04	

LABORATORY CONTROL SAMPLE & LCSD: 819051

819052

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	53.3	52.9	107	106	70-136	1	20	
1,1,2-Trichloroethane	ug/L	50	50.0	49.6	100	99	70-130	1	20	
1,1-Dichloroethane	ug/L	50	49.6	50.4	99	101	70-146	2	20	
1,1-Dichloroethene	ug/L	50	50.2	51.9	100	104	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	44.1	43.9	88	88	46-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.7	51.1	103	102	70-130	1	20	
1,2-Dichlorobenzene	ug/L	50	49.3	49.0	99	98	70-130	1	20	
1,2-Dichloroethane	ug/L	50	49.5	48.5	99	97	70-144	2	20	
1,2-Dichloropropane	ug/L	50	51.5	50.5	103	101	70-136	2	20	
1,3-Dichlorobenzene	ug/L	50	49.1	47.6	98	95	70-130	3	20	
1,4-Dichlorobenzene	ug/L	50	47.5	47.5	95	95	70-130	0	20	
Benzene	ug/L	50	50.3	51.3	101	103	70-137	2	20	
Bromodichloromethane	ug/L	50	52.7	53.2	105	106	70-133	1	20	
Bromoform	ug/L	50	51.9	51.2	104	102	59-130	1	20	
Bromomethane	ug/L	50	39.2	41.0	78	82	41-148	4	20	
Carbon disulfide	ug/L	50	49.9	52.2	100	104	70-130	4	20	
Carbon tetrachloride	ug/L	50	55.1	54.5	110	109	70-154	1	20	
Chlorobenzene	ug/L	50	51.2	51.4	102	103	70-130	0	20	
Chloroethane	ug/L	50	44.9	47.1	90	94	70-139	5	20	
Chloroform	ug/L	50	49.9	49.8	100	100	70-130	0	20	
Chloromethane	ug/L	50	41.0	42.7	82	85	45-154	4	20	
cis-1,2-Dichloroethene	ug/L	50	48.8	50.7	98	101	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	50	47.0	47.2	94	94	70-136	1	20	
Dibromochloromethane	ug/L	50	52.0	50.8	104	102	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	42.1	43.8	84	88	20-157	4	20	
Ethylbenzene	ug/L	50	53.6	53.1	107	106	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	47.1	47.1	94	94	59-141	0	20	
Methylene Chloride	ug/L	50	47.7	47.0	95	94	70-130	1	20	
Styrene	ug/L	50	54.3	54.9	109	110	70-130	1	20	
Tetrachloroethene	ug/L	50	52.6	52.1	105	104	70-130	1	20	
Toluene	ug/L	50	53.6	52.2	107	104	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	50	50.0	48.4	100	97	70-130	3	20	
trans-1,3-Dichloropropene	ug/L	50	53.5	55.0	107	110	55-135	3	20	
Trichloroethene	ug/L	50	51.5	52.8	103	106	70-130	3	20	
Trichlorofluoromethane	ug/L	50	49.7	51.6	99	103	50-150	4	20	
Vinyl chloride	ug/L	50	47.9	49.9	96	100	61-143	4	20	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

LABORATORY CONTROL SAMPLE & LCSD:		819051		819052							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Xylene (Total)	ug/L	150	165	166	110	111	70-130	0	20		
4-Bromofluorobenzene (S)	%				102	100	43-137				
Dibromofluoromethane (S)	%				98	97	70-130				
Toluene-d8 (S)	%				101	99	55-137				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		819053		819054									
Parameter	Units	4080684001		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	57.0	60.4	114	121	70-136	6	20
1,1,2-Trichloroethane	ug/L	<0.39	50	50	53.9	57.5	108	115	70-130	6	20		
1,1-Dichloroethane	ug/L	<0.28	50	50	53.1	57.2	106	114	70-146	7	20		
1,1-Dichloroethene	ug/L	<0.43	50	50	56.9	59.4	114	119	70-130	4	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	45.2	52.7	90	105	46-150	15	20		
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	54.4	58.7	109	117	70-130	8	20		
1,2-Dichlorobenzene	ug/L	<0.44	50	50	51.5	56.2	103	112	70-130	9	20		
1,2-Dichloroethane	ug/L	<0.48	50	50	52.8	54.7	106	109	70-146	4	20		
1,2-Dichloropropane	ug/L	<0.50	50	50	52.0	59.2	104	118	70-136	13	20		
1,3-Dichlorobenzene	ug/L	<0.45	50	50	51.0	57.1	101	114	70-130	11	20		
1,4-Dichlorobenzene	ug/L	0.46J	50	50	50.8	56.3	101	112	70-130	10	20		
Benzene	ug/L	<0.50	50	50	53.9	57.7	108	115	70-137	7	20		
Bromodichloromethane	ug/L	<0.45	50	50	56.3	60.6	113	121	70-133	7	20		
Bromoform	ug/L	<0.23	50	50	54.6	58.8	109	118	57-130	7	20		
Bromomethane	ug/L	<0.43	50	50	46.3	51.0	93	102	41-148	10	20		
Carbon disulfide	ug/L	<0.71	50	50	57.9	60.7	114	120	50-152	5	31		
Carbon tetrachloride	ug/L	<0.37	50	50	58.8	62.0	118	124	70-154	5	20		
Chlorobenzene	ug/L	<0.36	50	50	54.1	59.9	108	120	70-130	10	20		
Chloroethane	ug/L	<0.44	50	50	51.6	54.1	103	108	70-140	5	20		
Chloroform	ug/L	<0.69	50	50	53.9	55.8	108	112	70-130	3	20		
Chloromethane	ug/L	<0.39	50	50	51.8	54.7	104	109	45-154	5	20		
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	54.5	57.0	109	114	70-130	5	20		
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	49.5	51.4	99	103	70-136	4	20		
Dibromochloromethane	ug/L	<1.9	50	50	54.1	60.1	108	120	70-130	11	20		
Dichlorodifluoromethane	ug/L	<0.40	50	50	62.1	64.5	124	129	10-157	4	20		
Ethylbenzene	ug/L	<0.50	50	50	56.9	62.0	114	124	70-130	9	20		
Methyl-tert-butyl ether	ug/L	<0.49	50	50	49.5	52.2	99	104	59-141	5	20		
Methylene Chloride	ug/L	<0.36	50	50	52.1	54.2	104	108	70-130	4	20		
Styrene	ug/L	<0.35	50	50	57.6	64.4	115	129	35-164	11	20		
Tetrachloroethene	ug/L	<0.47	50	50	55.6	63.0	111	126	70-130	13	20		
Toluene	ug/L	<0.44	50	50	56.1	62.0	112	124	70-130	10	20		
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	52.9	55.9	106	112	70-130	6	20		
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	58.4	63.9	117	128	55-137	9	20		
Trichloroethene	ug/L	<0.43	50	50	55.4	59.7	111	119	70-130	7	20		
Trichlorofluoromethane	ug/L	<0.48	50	50	56.9	60.8	114	122	50-150	7	20		
Vinyl chloride	ug/L	<0.18	50	50	58.5	61.9	117	124	59-144	6	20		
Xylene (Total)	ug/L	<1.3	150	150	176	192	117	128	70-130	9	20		
4-Bromofluorobenzene (S)	%						100	107	43-137				

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		819053		819054									
Parameter	Units	4080684001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Dibromofluoromethane (S)	%						98	97	70-130				
Toluene-d8 (S)	%						98	103	55-137				

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

QC Batch: MSV/20418 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 3098112008

METHOD BLANK: 820192 Matrix: Water  
Associated Lab Samples: 3098112008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/10/13 07:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/10/13 07:06	
1,1-Dichloroethane	ug/L	ND	1.0	07/10/13 07:06	
1,1-Dichloroethene	ug/L	ND	1.0	07/10/13 07:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	07/10/13 07:06	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/10/13 07:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/10/13 07:06	
1,2-Dichloroethane	ug/L	ND	1.0	07/10/13 07:06	
1,2-Dichloropropane	ug/L	ND	1.0	07/10/13 07:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/10/13 07:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/10/13 07:06	
2-Butanone (MEK)	ug/L	ND	20.0	07/10/13 07:06	
Acetone	ug/L	ND	20.0	07/10/13 07:06	
Benzene	ug/L	ND	1.0	07/10/13 07:06	
Bromodichloromethane	ug/L	ND	1.0	07/10/13 07:06	
Bromoform	ug/L	ND	1.0	07/10/13 07:06	
Bromomethane	ug/L	ND	5.0	07/10/13 07:06	
Carbon disulfide	ug/L	ND	5.0	07/10/13 07:06	
Carbon tetrachloride	ug/L	ND	1.0	07/10/13 07:06	
Chlorobenzene	ug/L	ND	1.0	07/10/13 07:06	
Chloroethane	ug/L	ND	1.0	07/10/13 07:06	
Chloroform	ug/L	ND	5.0	07/10/13 07:06	
Chloromethane	ug/L	ND	1.0	07/10/13 07:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/10/13 07:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/10/13 07:06	
Dibromochloromethane	ug/L	ND	5.0	07/10/13 07:06	
Dibromomethane	ug/L	ND	1.0	07/10/13 07:06	
Dichlorodifluoromethane	ug/L	ND	1.0	07/10/13 07:06	
Ethylbenzene	ug/L	ND	1.0	07/10/13 07:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/10/13 07:06	
Methylene Chloride	ug/L	ND	1.0	07/10/13 07:06	
Naphthalene	ug/L	ND	5.0	07/10/13 07:06	
Styrene	ug/L	ND	1.0	07/10/13 07:06	
Tetrachloroethene	ug/L	ND	1.0	07/10/13 07:06	
Tetrahydrofuran	ug/L	ND	5.0	07/10/13 07:06	
Toluene	ug/L	ND	1.0	07/10/13 07:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/10/13 07:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/10/13 07:06	
Trichloroethene	ug/L	ND	1.0	07/10/13 07:06	
Trichlorofluoromethane	ug/L	ND	1.0	07/10/13 07:06	
Vinyl chloride	ug/L	ND	1.0	07/10/13 07:06	
Xylene (Total)	ug/L	ND	3.0	07/10/13 07:06	
4-Bromofluorobenzene (S)	%	91	43-137	07/10/13 07:06	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

METHOD BLANK: 820192

Matrix: Water

Associated Lab Samples: 3098112008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromofluoromethane (S)	%	97	70-130	07/10/13 07:06	
Toluene-d8 (S)	%	101	55-137	07/10/13 07:06	

LABORATORY CONTROL SAMPLE & LCSD: 820193

820194

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	50.0	48.1	100	96	70-136	4	20	
1,1,2-Trichloroethane	ug/L	50	48.4	46.6	97	93	70-130	4	20	
1,1-Dichloroethane	ug/L	50	47.4	45.8	95	92	70-146	3	20	
1,1-Dichloroethene	ug/L	50	49.8	48.4	100	97	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	39.0	39.6	78	79	46-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	50	50.5	47.5	101	95	70-130	6	20	
1,2-Dichlorobenzene	ug/L	50	46.9	47.0	94	94	70-130	0	20	
1,2-Dichloroethane	ug/L	50	46.1	45.9	92	92	70-144	0	20	
1,2-Dichloropropane	ug/L	50	48.3	47.2	97	94	70-136	2	20	
1,3-Dichlorobenzene	ug/L	50	45.2	45.1	90	90	70-130	0	20	
1,4-Dichlorobenzene	ug/L	50	46.1	46.3	92	93	70-130	0	20	
Benzene	ug/L	50	47.4	46.1	95	92	70-137	3	20	
Bromodichloromethane	ug/L	50	50.2	49.5	100	99	70-133	1	20	
Bromoform	ug/L	50	47.9	46.2	96	92	59-130	4	20	
Bromomethane	ug/L	50	38.5	39.9	77	80	41-148	4	20	
Carbon disulfide	ug/L	50	48.1	48.0	96	96	70-130	0	20	
Carbon tetrachloride	ug/L	50	53.5	52.6	107	105	70-154	2	20	
Chlorobenzene	ug/L	50	50.5	48.8	101	98	70-130	3	20	
Chloroethane	ug/L	50	42.7	45.1	85	90	70-139	5	20	
Chloroform	ug/L	50	46.4	45.6	93	91	70-130	2	20	
Chloromethane	ug/L	50	41.3	44.7	83	89	45-154	8	20	
cis-1,2-Dichloroethene	ug/L	50	47.3	46.9	95	94	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	42.9	42.6	86	85	70-136	1	20	
Dibromochloromethane	ug/L	50	50.0	48.6	100	97	70-130	3	20	
Dichlorodifluoromethane	ug/L	50	48.2	49.8	96	100	20-157	3	20	
Ethylbenzene	ug/L	50	51.6	50.4	103	101	70-130	2	20	
Methyl-tert-butyl ether	ug/L	50	41.5	40.2	83	80	59-141	3	20	
Methylene Chloride	ug/L	50	44.2	45.1	88	90	70-130	2	20	
Styrene	ug/L	50	54.1	51.1	108	102	70-130	6	20	
Tetrachloroethene	ug/L	50	53.5	49.6	107	99	70-130	8	20	
Toluene	ug/L	50	51.2	50.4	102	101	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	50	46.4	44.6	93	89	70-130	4	20	
trans-1,3-Dichloropropene	ug/L	50	51.3	51.0	103	102	55-135	1	20	
Trichloroethene	ug/L	50	50.5	48.4	101	97	70-130	4	20	
Trichlorofluoromethane	ug/L	50	50.4	50.2	101	100	50-150	0	20	
Vinyl chloride	ug/L	50	47.5	48.4	95	97	61-143	2	20	
Xylene (Total)	ug/L	150	164	158	109	105	70-130	4	20	
4-Bromofluorobenzene (S)	%				109	102	43-137			
Dibromofluoromethane (S)	%				98	95	70-130			

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

LABORATORY CONTROL SAMPLE & LCSD: 820193		820194								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%				99	98	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 820199		820200											
Parameter	Units	4080769001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.44	50	50	51.1	49.1	102	98	70-136	4	20		
1,1,2-Trichloroethane	ug/L	<0.39	50	50	47.7	47.6	95	95	70-130	0	20		
1,1-Dichloroethane	ug/L	<0.28	50	50	47.8	46.6	96	93	70-146	3	20		
1,1-Dichloroethene	ug/L	<0.43	50	50	51.0	49.5	102	99	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	40.6	40.8	81	82	46-150	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	50.4	49.1	101	98	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.44	50	50	48.5	47.6	97	95	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.48	50	50	47.6	47.1	95	94	70-146	1	20		
1,2-Dichloropropane	ug/L	<0.50	50	50	48.0	47.3	96	95	70-136	1	20		
1,3-Dichlorobenzene	ug/L	<0.45	50	50	47.3	46.4	95	93	70-130	2	20		
1,4-Dichlorobenzene	ug/L	0.55J	50	50	47.4	47.0	94	93	70-130	1	20		
Benzene	ug/L	<0.50	50	50	48.5	46.9	97	94	70-137	3	20		
Bromodichloromethane	ug/L	1.4	50	50	52.2	52.5	102	102	70-133	0	20		
Bromoform	ug/L	<0.23	50	50	49.0	49.0	98	98	57-130	0	20		
Bromomethane	ug/L	<0.43	50	50	40.4	41.0	80	81	41-148	1	20		
Carbon disulfide	ug/L	<0.71	50	50	49.7	48.8	98	96	50-152	2	31		
Carbon tetrachloride	ug/L	<0.37	50	50	53.4	52.9	107	106	70-154	1	20		
Chlorobenzene	ug/L	<0.36	50	50	50.2	50.7	100	101	70-130	1	20		
Chloroethane	ug/L	<0.44	50	50	45.4	43.1	91	86	70-140	5	20		
Chloroform	ug/L	4.3J	50	50	51.7	51.6	95	95	70-130	0	20		
Chloromethane	ug/L	<0.39	50	50	42.5	43.0	85	86	45-154	1	20		
cis-1,2-Dichloroethene	ug/L	<0.42	50	50	46.9	47.3	94	95	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	43.3	43.9	87	88	70-136	1	20		
Dibromochloromethane	ug/L	<1.9	50	50	50.1	50.4	99	100	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.40	50	50	48.6	47.7	97	95	10-157	2	20		
Ethylbenzene	ug/L	<0.50	50	50	52.4	51.5	105	103	70-130	2	20		
Methyl-tert-butyl ether	ug/L	<0.49	50	50	41.3	40.7	83	81	59-141	2	20		
Methylene Chloride	ug/L	0.36J	50	50	46.2	44.4	92	88	70-130	4	20		
Styrene	ug/L	<0.35	50	50	53.7	52.1	107	104	35-164	3	20		
Tetrachloroethene	ug/L	<0.47	50	50	53.1	52.0	106	104	70-130	2	20		
Toluene	ug/L	<0.44	50	50	50.3	50.9	101	102	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	<0.37	50	50	46.3	46.5	93	93	70-130	0	20		
trans-1,3-Dichloropropene	ug/L	<0.26	50	50	51.1	51.5	102	103	55-137	1	20		
Trichloroethene	ug/L	<0.43	50	50	50.5	50.5	100	100	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.48	50	50	52.2	50.2	104	100	50-150	4	20		
Vinyl chloride	ug/L	<0.18	50	50	47.9	47.7	96	95	59-144	1	20		
Xylene (Total)	ug/L	<1.3	150	150	163	160	108	107	70-130	1	20		
4-Bromofluorobenzene (S)	%						103	105	43-137				
Dibromofluoromethane (S)	%						97	95	70-130				
Toluene-d8 (S)	%						97	100	55-137				

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## QUALIFIERS

Project: Ripon FF/NN Landfill  
Pace Project No.: 3098112

---

### 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.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Ripon FF/NN Landfill

Pace Project No.: 3098112

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3098112001	P-103D	EPA 8260	MSV/20390		
3098112002	P-107D	EPA 8260	MSV/20390		
3098112003	P-111D	EPA 8260	MSV/20390		
3098112004	MW-3A	EPA 8260	MSV/20390		
3098112005	MW-3B	EPA 8260	MSV/20390		
3098112006	P-113A	EPA 8260	MSV/20390		
3098112007	P-113B	EPA 8260	MSV/20390		
3098112008	P-116	EPA 8260	MSV/20418		
3098112009	P-114	EPA 8260	MSV/20390		
3098112010	P-114 DUP	EPA 8260	MSV/20390		
3098112011	P-115	EPA 8260	MSV/20390		
3098112012	TRIP BLANK	EPA 8260	MSV/20390		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of 1

MN: 612-607-1700 WI: 920-469-2436



Company Name: **Tetra Tech**  
 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 A. Weimer**  
 Sampled By (Sign): **Ashley A. Weimer**  
 PO #: \_\_\_\_\_ Regulatory Program: \_\_\_\_\_

### 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

Filtered? (YES/NO)	Y/N	Pick Letter	Analysis Requested
	N	B	VDCS 8260 B

Quote #: **4080674**  
 Mail To Contact: **Mike Noel**  
 Mail To Company: **Tetra Tech**  
 Mail To Address: **175 N. Corporate Dr. Suite 100 Brookfield, WI 53045**  
 Invoice To Contact: **SA**  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: **309 8112**  
 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 W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	Profile #
		DATE	TIME			
001	P-103 D	7-2	09:45	6W	3	001
002	P-107 D		10:25		3	002
003	P-111 D		11:10		3	003
004	MW-3A		11:50		3	004
005	MW-3B		12:20		3	005
006	P-113 A		13:50		3	006
007	P-113 B		14:35		3	007
008	P-116		15:20		3	008
009	P-114		15:50		3	009
010	P-114 Dup		15:55		3	010
011	P-115	↓	16:25	↓	3	011
012	TRIP Blank	-	-	DI	1	012

**CLIENT COMMENTS**  
LAB PREPARED

**LAB COMMENTS (Lab Use Only)**  
3-40 mL B

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

Relinquished By: <b>Ashley A. Weimer</b> Date/Time: <b>7-3-13 0800</b>	Received By: <b>Mary Fannin</b> Date/Time: <b>7/3/13 11:31</b>	<b>PACE Project No.</b> 4080674 <b>Receipt Temp = 70L °C</b> <b>Sample Receipt pH</b> OK / Adjusted <b>Cooler Custody Seal</b> Present / Not Present <b>Intact / Not Intact</b>
Relinquished By: <b>Mary Fannin</b> Date/Time: <b>7/3/13 1300</b>	Received By: <b>[Signature]</b> Date/Time: <b>7/3/13 1700</b>	
Relinquished By: <b>[Signature]</b> Date/Time: <b>7/3/13 1450</b>	Received By: <b>[Signature]</b> Date/Time: <b>7/3/13 1450</b>	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

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





**Sample Condition Upon Receipt**

Client Name: Tetra Tech Project # 4080674

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_  
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: 701 / Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes  no

Temp Blank Present:  yes  no  no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:  
Date: 7/3/13  
Initials: BK

**Comments:**

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≥ 2, NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, Coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>8mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>297</u>		

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

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature] Date: 7-5-13

# Chain of Custody



Workorder: 3098112

Workorder Name: Ripon FF/NN Landfill

Owner Received Date: 7/3/2013

Results Requested By: 7/18/2013

Report To		Subcontract To				Requested Analysis																		
David A. Pichette Pace Analytical Services, Inc. 1638 Roseytown Road Greensburg, PA 15601 Phone (724)850-5600 Fax (999)999-9999		Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436																						
						Preserved Containers																		
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HNO3																		LAB USE ONLY
1	P-103D	PS	7/2/2013 09:45	3098112001	Water	1																		
2	P-107D	PS	7/2/2013 10:25	3098112002	Water	1																		
3	P-111D	PS	7/2/2013 11:10	3098112003	Water	1																		
4	MW-3A	PS	7/2/2013 11:50	3098112004	Water	1																		
5	MW-3B	PS	7/2/2013 12:20	3098112005	Water	1																		
6	P-113A	PS	7/2/2013 13:50	3098112006	Water	1																		
7	P-113B	PS	7/2/2013 14:35	3098112007	Water	1																		
8	P-116	PS	7/2/2013 15:20	3098112008	Water	1																		
9	P-114	PS	7/2/2013 15:50	3098112009	Water	1																		
10	P-114 DUP	PS	7/2/2013 15:55	3098112010	Water	1																		
11	P-115	PS	7/2/2013 16:25	3098112011	Water	1																		
12	TRIP BLANK	PS	7/2/2013 00:01	3098112012	Water	1																		
																				Comments				
Transfers		Released By			Date/Time		Received By				Date/Time													
1																								
2																								
3																								
Cooler Temperature on Receipt			°C	Custody Seal Y or N					Received on Ice Y or N					Samples Intact Y or N										

**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)	7- 2 -13			7- 2 -13			7- 2 -13			
STATIC WATER LEVEL (feet)*	30.52			29.56			13.17			
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			12:00			13:15			
END PURGE TIME (Military)	11:45			12:15			13:45			
PURGE VOLUME (gallons)	1.0			1.0			0.75			
SAMPLE TIME (Military)	11:50			12:20			13:50			
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	
TIME (minutes since initial reading)	2 :00	3 :00	4 :00	0 :00	1 :00	2 :00	12 :00	14 :00	16 :00	
TEMPERATURE (° C)	10.94	10.91	10.90	9.86	9.89	9.86	14.68	14.72	13.64	
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.582	0.582	0.582	0.712	0.710	0.707	0.584	0.578	0.578	
DISSOLVED OXYGEN (ppm)	1.40	1.31	1.27	0.39	0.37	0.35	0.99	1.16	1.04	
pH	7.28	7.27	7.26	7.37	7.35	7.34	7.49	7.45	7.45	
DISSOLVED OXYGEN (% Sat.)	12.7	11.9	11.5	3.5	3.3	3.1	9.8	13.1	10.0	
ORP (mV)	-126	-127	-126	-96	-93	-91	-114	-123	-127	
COLOR	clear			clear			clear			
ODOR	Rotten eggs			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 <u>Iron 2-</u> Wait 1, then wait 5 min	0.127			0.804			0.514			
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical			
DATE SENT TO LAB	7- 3 -13			7- 3 -13			7- 3 -13			
SAMPLER-S NAME	Ashley A. Weimer			Ashley A. Weimer			Ashley A. Weimer			

\*Measured from top of well casing.

**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		
<b>MONITOR WELL ID</b>	<b>P-113B</b>			<b>P-103D</b>			
WATER TYPE	Groundwater			Groundwater			
DATE (month/day/year)	7- 2 -13			7- 2 -13			
STATIC WATER LEVEL (feet)*	13.08			49.84			
WELL DEPTH (feet)*	198.9			192.66			
PUMP INLET DEPTH (feet)*	48.5			87.5			
START PURGE TIME (Military)	13:55			09:20			
END PURGE TIME (Military)	14:30			09:40			
PURGE VOLUME (gallons)	4.0			2.0			
SAMPLE TIME (Military)	14:35			09:45			
<b>STABILIZED INDICATOR PARAMETERS READINGS</b>	1st	2nd	3rd	1st	2nd	3rd	
TIME (minutes since initial reading)	25:00	26:00	27:00	0:00	1:00	2:00	
TEMPERATURE (° C)	10.66	10.67	10.68	10.75	10.69	10.66	
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.680	0.680	0.679	0.839	0.840	0.839	
DISSOLVED OXYGEN (ppm)	0.99	0.81	1.01	0.61	0.60	0.57	
pH	7.37	7.39	7.41	6.50	6.53	6.56	
DISSOLVED OXYGEN (% Sat.)	9.0	7.3	9.2	5.6	5.4	5.2	
ORP (mV)	-76	-78	-80	18	12	6	
COLOR	clear			clear			
ODOR	none			none			
CLARITY	clear			clear			
<b>SAMPLING PARAMETERS</b>	<b># OF CONTAINERS &amp; VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)</b>						
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	1.081			OVER RANGE			
NAME OF LABORATORY	Pace Analytical			Pace Analytical			
DATE SENT TO LAB	7- 3 -13			7- 3 -13			
SAMPLER-S NAME	Ashley A. Weimer			Ashley A. Weimer			

\*Measured from top of well casing.

**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)	7-2-13			7-2-13			
STATIC WATER LEVEL (feet)*	34.82			51.42			
WELL DEPTH (feet)*	151.0			327.95			
PUMP INLET DEPTH (feet)*	151.0			76.5			
START PURGE TIME (Military)	10:50			10:05			
END PURGE TIME (Military)	11:05			10:25			
PURGE VOLUME (gallons)	1.5			2.0			
SAMPLE TIME (Military)	11:10			10:25			
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	
TIME (minutes since initial reading)	0:00	1:00	2:00	13:00	14:00	15:00	
TEMPERATURE (° C)	10.54	10.51	10.50	11.16	11.42	11.60	
ELECTRICAL CONDUCTANCE at 25° C (ms/cm)	0.868	0.869	0.870	0.607	0.605	0.606	
DISSOLVED OXYGEN (ppm)	1.57	1.47	1.38	1.93	2.00	1.92	
pH	7.29	7.28	7.27	7.17	7.15	7.15	
DISSOLVED OXYGEN (% Sat.)	14.2	13.3	12.5	17.8	18.3	17.7	
ORP (mV)	-45	-50	-53	-72	-74	-75	
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	1.505			0.123			
NAME OF LABORATORY	Pace Analytical			Pace Analytical			
DATE SENT TO LAB	7-3-13			7-3-13			
SAMPLER-S NAME	Ashley A. Weimer			Ashley A. Weimer			

\*Measured from top of well casing.

**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)	7- 2 -13			7- 2 -13			7- 2 -13			
STATIC WATER LEVEL (feet)*	19.30			22.50			26.51			
WELL DEPTH (feet)*	181.72			179.57			163.19			
PUMP INLET DEPTH (feet)*	53.5			53.5			163			
START PURGE TIME (Military)	15:35			16:10			15:00			
END PURGE TIME (Military)	15:50			16:25			15:20			
PURGE VOLUME (gallons)	1.5			1.5			1.0			
SAMPLE TIME (Military)	15:50 / 15:55			16:25			15:20			
STABILIZED INDICATOR PARAMETERS READINGS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd	
TIME (minutes since initial reading)	0 :00	1 :00	2 :00	2 :00	3 :00	4 :00	0 :00	2 :00	4 :00	
TEMPERATURE (° C)	10.46	10.46	10.52	10.69	10.63	10.59	11.42	11.41	11.40	
ELECTRICAL CONDUCTANCE at 25° C (mc/cm)	0.769	0.767	0.766	0.625	0.627	0.626	0.552	0.552	0.552	
DISSOLVED OXYGEN (ppm)	0.38	0.36	0.34	0.63	0.53	0.48	0.43	0.40	0.39	
pH	7.49	7.47	7.47	7.63	7.59	7.57	7.57	7.56	7.56	
DISSOLVED OXYGEN (% Sat.)	3.5	3.3	3.1	5.7	4.8	4.3	4.0	3.7	3.6	
ORP (mV)	-96	-92	-88	-94	-91	-89	-13	-14	-14	
COLOR	clear			clear			clear			
ODOR	none			none			none			
CLARITY	clear			clear			pinkish			
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	0.721			0.911			0.336			
	**TOOK DUP AT 15:55**									
NAME OF LABORATORY	Pace Analytical			Pace Analytical			Pace Analytical			
DATE SENT TO LAB	7- 3 -13			7- 3 -13			7- 3 -13			
SAMPLER-S NAME	Ashley A. Weimer			Ashley A. Weimer			Ashley A. Weimer			

\*Measured from top of well casing.

## TETRA TECH EQUIPMENT CALIBRATION FORM

<b>Equipment Make</b>		QED MicroPurge Water Quality Meter		
<b>Equipment Model</b>		MP20		
<b>Tetra Tech ID Number</b>		Cooper Meter		
DATE	TIME	CALIBRATION MEDIA	RESULTS	COMMENTS
7-1-13	13:08	1,413 $\mu\text{s/cm}$ conductivity solution	Calibration successful.	Specific conductance sensor calibration.
<del>8</del> 7-1-13	13:05	pH 7.0 and pH 4.0 solution	Calibration successful.	pH sensor calibration.
7-1-13	13:15	Distilled water up to o-ring on DO sensor for 100% DO saturation calibration.	Calibration successful.	Dissolved oxygen (DO) sensor calibration.
7-1-13	13:12	240 mV ORP solution	Calibration successful.	ORP sensor calibration.





**APPENDIX D**

**LANDFILL GAS EXTRACTION SYSTEM MONITORING**

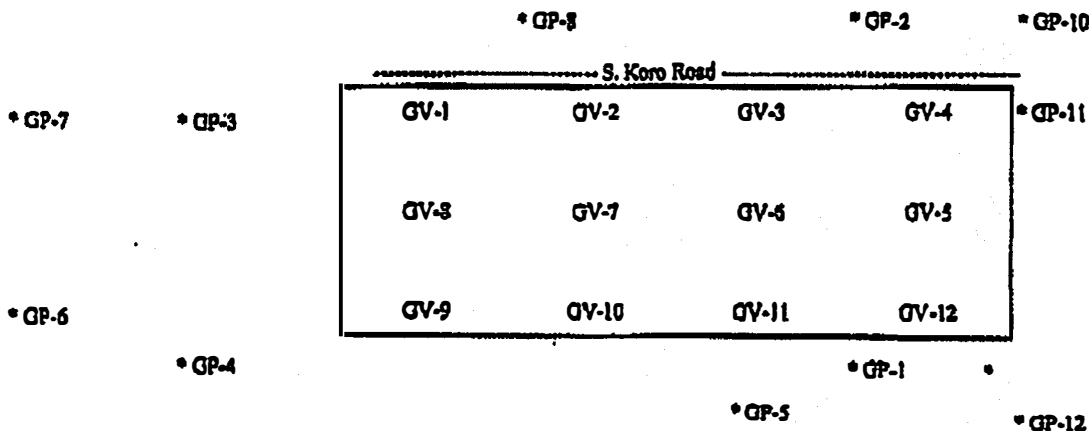


**GAS PROBE DATA MONITORING POINTS**

Project: FF/NN Landfill Barometric Pressure: 29.1 Hg  
 Location: Ripon, Wisconsin Temperature (ambient): 42° F  
 Personnel: Jack Wendler Measuring Device: Engle  
 Water level in buried knockout tank \_\_\_\_\_ " In Trailer Vacuum Gage 2 "Hg

\*LEL

Date	Time	Measurement Point	% CH <sub>4</sub>	% CO <sub>2</sub>	% O <sub>2</sub>	Comments
5.13.13	0815	Background	0	0.0	20.9	
	0834	LC-1	8.0	20.0	0.7	
	0845	LC-2	38.0	27.4	1.2	
	0837	LC-3	16.5	19.0	4.9	
	0830	GV-6	67*	11.6	7.4	
	0820	GP-1	0*	1.2	18.8	
	0940	GP-1	0	0.0	20.9	2nd Reading
	0822	Exhaust	60*	4.4	16.6	





GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill

Barometric Pressure: 28.9 Hg

Location: Ripon, Wisconsin

Temperature (ambient): F

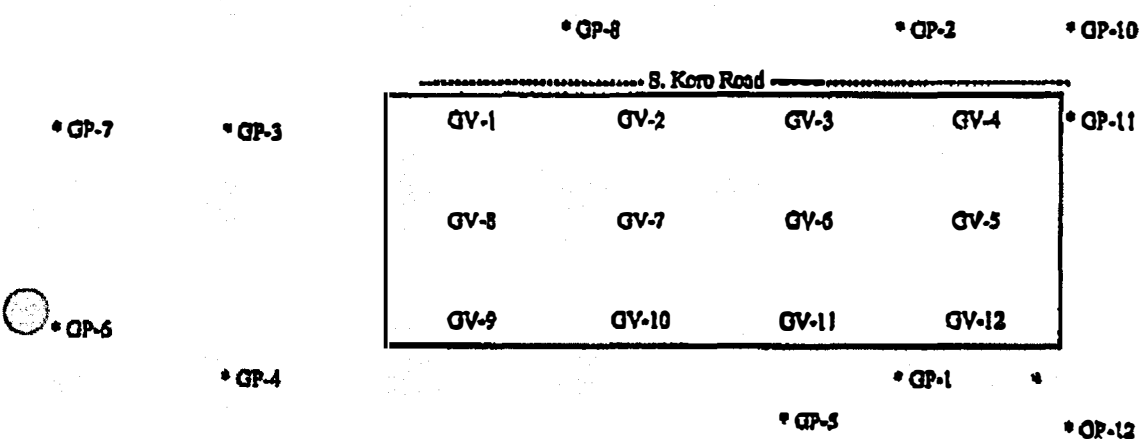
Personnel: Jack Wondlar

Measuring Device: Eagle 2

Water level in buried knockout tank " In Trailer Vacuum Gage "Hg

LEL

Table with columns: Date, Time, Measurement Point, % CH4, % CO2, % O2, Comments. Includes rows for Background, LC-1, LC-2, LC-3, GV-6, GP-1, and Exhaust.





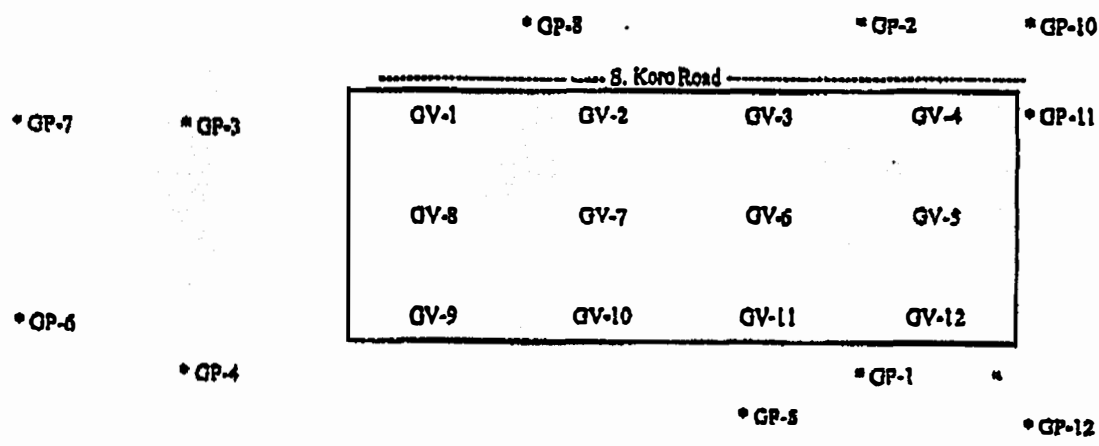
GAS PROBE DATA MONITORING POINTS

Project: FF/NN Landfill  
 Location: Ripon, Wisconsin  
 Personnel: Jackie Decker  
 Water level in buried knockout tank \_\_\_\_\_ "

Barometric Pressure: 29.0 Hg  
 Temperature (ambient): 54° F  
 Measuring Device: Sage  
 In Trailer Vacuum Gage: 2 "Hg

PLEL

Date	Time	Measurement Point	% CH <sub>4</sub>	% CO <sub>2</sub>	% O <sub>2</sub>	Comments
6.7.13	0830	Background	0*	0.0	20.9	
	0850	LC-1	8.5	19.4	1.1	
	0900	LC-2	31.5	25.4	2.1	
	0906	LC-3	17.0	19.0	4.5	
	0845	GV-6	77*	13.0	6.1	
			—	3.85 L	5 OK	
	0835	GP-1	0*	4.8	11.7	
	0940	GP-1	0*	2.26	17.0	2 <sup>nd</sup> Reading
				6.0	9.5	
	0839	Exhaust	90*	6.6	14.3	





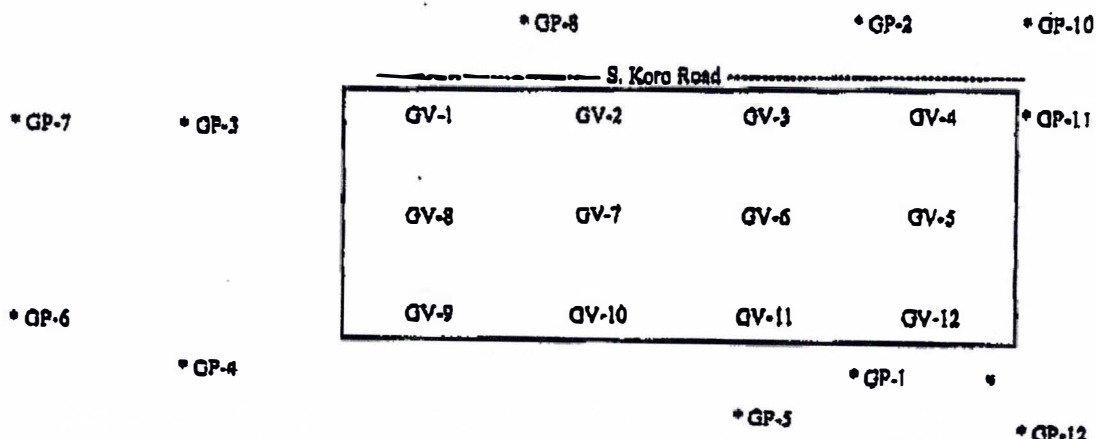
**GAS PROBE DATA MONITORING POINTS**

Project: FF/NN Landfill  
 Location: Ripon, Wisconsin  
 Personnel: Jacob Wendler  
 Water level in buried knockout tank \_\_\_\_\_ "

Barometric Pressure: 29.1 Hg  
 Temperature (ambient): 64 F  
 Measuring Device: Zangle  
 In Trailer Vacuum Gage: 2 "Hg

*LEL*

Date	Time	Measurement Point	% CH <sub>4</sub>	% CO <sub>2</sub>	% O <sub>2</sub>	Comments
6-21-13	0800	Background	0.0	0.0	20.9	
	0817	LC-1	8.0	18.8	1.5	
	0830	LC-2	30.5	25.4	1.7	
	0825	LC-3	16.0	18.4	4.5	
	0812	GV-6	0.5	15.4	4.8	
	0805	GP-1	0.4	6.0	10.7	
		GP-1	0.4	3.8	11.4	2 <sup>nd</sup> Reading
	0809	Exhaust	5.5	8.4	12.7	





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:

Temperature (ambient):

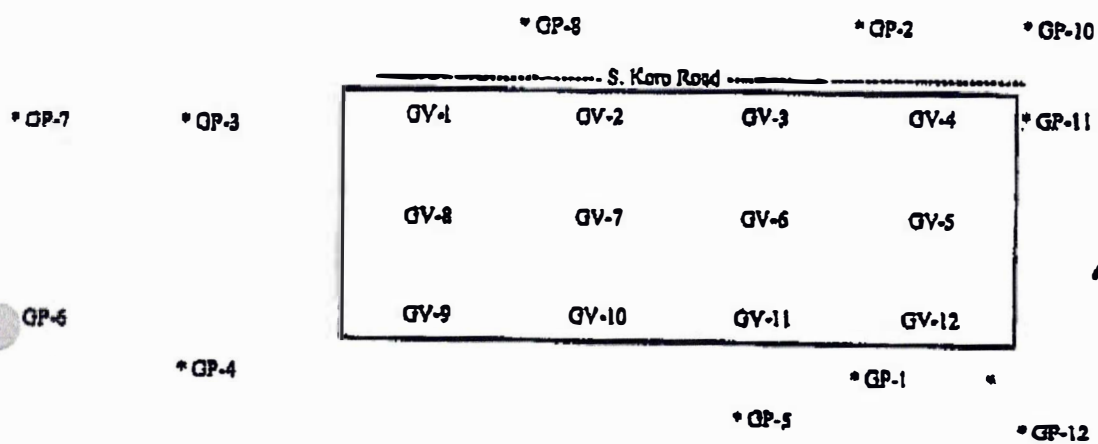
Measuring Device:

In Trailer Vacuum Gage

29.1 Hg  
74 F  
Eagle  
2 "Hg

\*LEL

Date	Time	Measurement Point	% CH <sub>4</sub>	% CO <sub>2</sub>	% O <sub>2</sub>	Comments
7-5-13	0830	Background	0.0	0.0	20.9	
	0850	LC-1	7.0	18.8	1.5	
	0900	LC-2	29.5	24.8	1.8	
	0855	LC-3	15.5	18.2	4.5	
						PER JW via email
	0845	GV-6	72*	13.0	6.2	
	0950	GV-6	74*	12.2	7.0	2nd Reading
	0835	GP-1	0*	3.4	9.2	
	0940	GP-1	0*	10.6	2.6	2nd Reading
	0840	Exhaust	95*	<del>17.0</del> 7.8	19.9	



Note: A 2nd reading was done on GV-6 also JW



GAS PROBE DATA

Project: FF/NN Landfill  
 Location: Ripon, Wisconsin  
 Personnel: J. H. Warden

Barometric Pressure: 28.9 Hg  
 Temperature (ambient): 62 F  
 Measuring Device: Sage

PHL

Gauge 3

Date	Time	Measurement Point	% CH <sub>4</sub>	% CO <sub>2</sub>	% O <sub>2</sub>	Comments
7.22.13	0730	Background	0	0.0	20.9	
	0752	LC-1	8.0	19.4	1.6	
	0805	LC-2	29.5	25.8	1.5	
	0800	LC-3	16.0	19.0	4.3	
	0845	MW-101	0.4	20.0	20.9	
	0811	MW-102	0.5	2.2	14.3	
	0915	MW-103	0.8	0.6	20.7	
	0755	MW-104	0.4	5.0	14.2	
		GV-1				
	0904	GV-4 GV-6	5.0	14.8	5.0	2 <sup>nd</sup> Reading
	0748	GV-6	5.0	15.2	4.7	
		GV-7				
		GV-9				
	0900	GV-12 GP-1	31 *	14.4	0.0	2 <sup>nd</sup> Reading
	0740	GP-1	1 *	5.8	11.7	
	0935	GP-2	0.4	2.4	18.0	
	0912	GP-3	0.4	2.0	18.3	
	0920	GP-4	0.4	2.2	17.4	
	0815	GP-5	0.4	9.2	7.4	
	0946	GP-6	0.4	3.0	16.7	
	0952	GP-7	0.4	2.6	17.6	
	0930	GP-8	0.4	3.0	16.5	
	0833	GP-10	0.4	4.8	13.5	
	0840	GP-11	0.4	2.4	18.5	
	0824	GP-12	0.4	3.2	16.8	
	0852	Leg 1	7.5	18.8	1.9	
	0853	Leg 2	8.0	15.8	5.2	
	8854	Leg 3	15.5	18.4	4.7	
	0744	Exhaust	5.5	8.6	12.4	

