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QUARTERLY STATUS REPORT FOR JANUARY 2008
FF/NN LANDFILL
RIPON, WISCONSIN

April 4, 2008

Prepared For:

FF/NN Landfill PRP Group

Prepared By:

GeoTrans, Inc.
175 N. Corporate Drive, Suite 100
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Project No. 1011.005

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Vice-President, Principal Hydrogeologist

Kevin F. Lincicum, P.G.
Project Hydrogeologist

QUARTERLY STATUS REPORT FOR JANUARY 2008

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

CONTRACT SF-92-01

QUARTERLY STATUS REPORT

FOR JANUARY 2008

SITE NAME/ACTIVITY:

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

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

PREPARED BY:

Mr. Michael R. Noel and Mr. Kevin F. Lincicum
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Mr. Bernard Schorle
U S Environmental Protection Agency
SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604

DATE:

April 4, 2008

FIELD ACTIVITIES THIS REPORTING PERIOD

- Groundwater elevations were measured at 26 monitoring wells on January 22 and 26, 2008. The water level in MW-111 was not measured because the cap was frozen and not easily removed. Water levels in Layer 4 wells were measured consecutively to avoid any effects from municipal pumping.

- Three private drinking wells were sampled for VOCs during the January 2008 event. The sampling program followed the plan approved by the WDNR in a letter dated July 26, 2007.

- Landfill gas monitoring in gas probes, monitoring wells and extraction points along with gas sampling at LC-1, LC-2, LC-3, GV-6 and GP-3 was conducted on January 23 , 2007 by Jack Wendler from the City of Ripon. Each gas sample was submitted to the laboratory for VOC analyses.

RESULTS OF FIELD ACTIVITIES

Groundwater Monitoring Event - Groundwater Elevations

The groundwater monitoring wells located at the FF/NN Landfill are grouped into four layers based on well screen elevations to better evaluate groundwater quality at discrete depth intervals. Attachment A contains a table showing the wells for each of the four layers.

On January 22 and 26, 2008, groundwater elevations were measured in all monitoring wells except MW-111 which was inaccessible. These elevations are provided in Table 1 and shown on Figures 1 through 4. Each layer is discussed separately below.

Layer 1 Wells

Layer 1 contains nine wells with screen elevations ranging from 812 feet to 821 feet MSL. All of these well screens intersect the water table. The groundwater elevations are displayed on Figure 1. Compared to the previous sampling event in October 2007, water table elevations decreased in six of the wells ranging from 0.24 feet in MW-107 to 0.49 feet in MW-108. Monitoring well MW-102 showed no change in water level elevation while MW-106 increased slightly (0.08 feet). The water level in MW-111 was not measured because the well cap could not be easily removed.

Historically, the groundwater flow direction in this layer has been to the southwest. During the January 2008 event, the groundwater flow was to the southwest.

Layer 2 Wells

Layer 2 contains eight wells with screen elevations ranging from 774 feet to 792 feet MSL. The groundwater potentiometric surface for this layer is displayed on Figure 2. Compared to the previous sampling event in October 2007, water level elevations decreased in five monitoring wells ranging from 0.16 feet in P-111 to 0.89 feet in P-108. Water level elevations decreased in three wells ranging from 0.02 feet in P-102 to 0.23 feet in P-103.

Historically, the groundwater flow direction in this layer has been to the southwest. During the January 2008 event, flow was to the south-southwest.

Layer 3 Wells

Layer 3 contains seven wells with screen elevations ranging from 634 feet to 704 feet MSL. The groundwater potentiometric surface for this layer is displayed on Figure 3. Compared to the previous sampling event in October 2007, water elevations increased in six monitoring wells ranging from 0.20 feet in MW-3B to 0.39 feet in P-114. The water level decreased slightly (0.08 feet) in P-103D.

Historically, the groundwater flow direction in this layer has been southwesterly and becomes westerly further downgradient. The January 2008 groundwater flow direction is consistent with the historical results.

Layer 4 Wells

Layer 4 contains three wells with screen elevations ranging from 508 feet to 570 feet MSL. The three wells in this grouping are located 375 to 2300 feet downgradient of the landfill. The groundwater potentiometric surface for this layer is displayed on Figure 4. Compared to the previous sampling event in October 2007, water elevations increased in all wells ranging from 0.39 feet in P-107D to 0.49 feet in P-113A.

Historically, the groundwater flow direction in this layer has been to the southeast. Since pumping at the City of Ripon Municipal Well # 9 was terminated in May, 2007 the flow direction has been to the west. During the January 2008 event, flow was to the west.

Groundwater Monitoring Event - Private Drinking Water Well Sampling

Historically, seven private wells have been sampled. Four of these wells (Altnau, Hadel, Miller and Wiese) have either been abandoned or converted to monitoring wells. The remaining three wells (Perry/Watkins, Gaastra and Rohde) were sampled during the January 2008 event and analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. In the past, the samples have been analyzed using Method 524.2 (Safe Drinking Water Act). Due to an oversight this quarter the samples were analyzed using EPA Method 8260B. The samples will be analyzed in the future utilizing Method 524.2. Analytical results and field forms are provided in Attachments C and D, respectively. The VOC analytical results for the private drinking water wells are tabulated in Table 3. No VOC's were detected in any private well during this sampling event.

Interim Landfill Gas Extraction System Performance Monitoring

Results of the gas monitoring are in presented in Tables 3 and 4 and Charts 1-26.

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%. Several balancing modifications to the daily run time cycle were made due to increasing oxygen levels above 5% in one or more extraction wells:

- January 28 the system's daily cycle was decreased from 8 hours on to 4 hours on and 20 hours off based on oxygen levels above 5% in extraction wells LC-1, LC-2 and LC-3.
- January 29 the system's daily cycle was decreased from 4 hours on to 3 hours on and 21 hours off based on oxygen levels above 5% in extraction wells LC-1, LC-2 and LC-3.
- March 5 the system's daily cycle was decreased from 4 hours on to 1 hours on and 23 hours off based on oxygen levels above 5% in extraction wells LC-1, LC-2 and LC-3

The VOC analyses of the gas samples from extraction wells LC-2 and GV-6 show a moderate increase in the total VOC concentration. The gas sample from extraction well LC-3 show a

considerable decrease in the total VOC concentration. No VOC's were detected in the sample from LC-1 and it is suspected that an error occurred during sampling of this extraction well. The level of vinyl chloride that was detected in LC-3 decreased considerably from the last sampling quarter and also from historic sampling events. The gas sample taken from gas probe GP-3 did not contain vinyl chloride and the total VOC concentration declined from the October 2007 sampling.

Monitoring of the gas probes and wells outside the limits of fill indicate that the gas extraction system has continued to control gas migration from the fill area. Gas concentrations in the exterior wells and gas probes have been consistently below the methane LEL during this quarter.

Institutional Control Investigation/Study

In a letter dated October 29, 2007 to the Ripon FF/NN Landfill PRP Group, Bernard Schorle of the U.S. EPA requested that an institutional control investigation/study be submitted within 45 days. A letter of intent to comply with this request dated November 1, 2007 was submitted to the U.S. EPA requesting additional time and accepted/approved examples of similar IC investigation/study submittals. A conference call was also requested to discuss these requirements. In an email dated November 19, 2007 Mr. Schorle indicated he would try to set up a phone call to discuss the IC request and that he had requested an example response that he could send to the Ripon FF/NN Landfill PRP Group but had not been offered one yet.

UPCOMING ACTIVITIES PLANNED

Groundwater sampling, private water well sampling, water level measurements and landfill gas extraction point sampling will be conducted in late April.

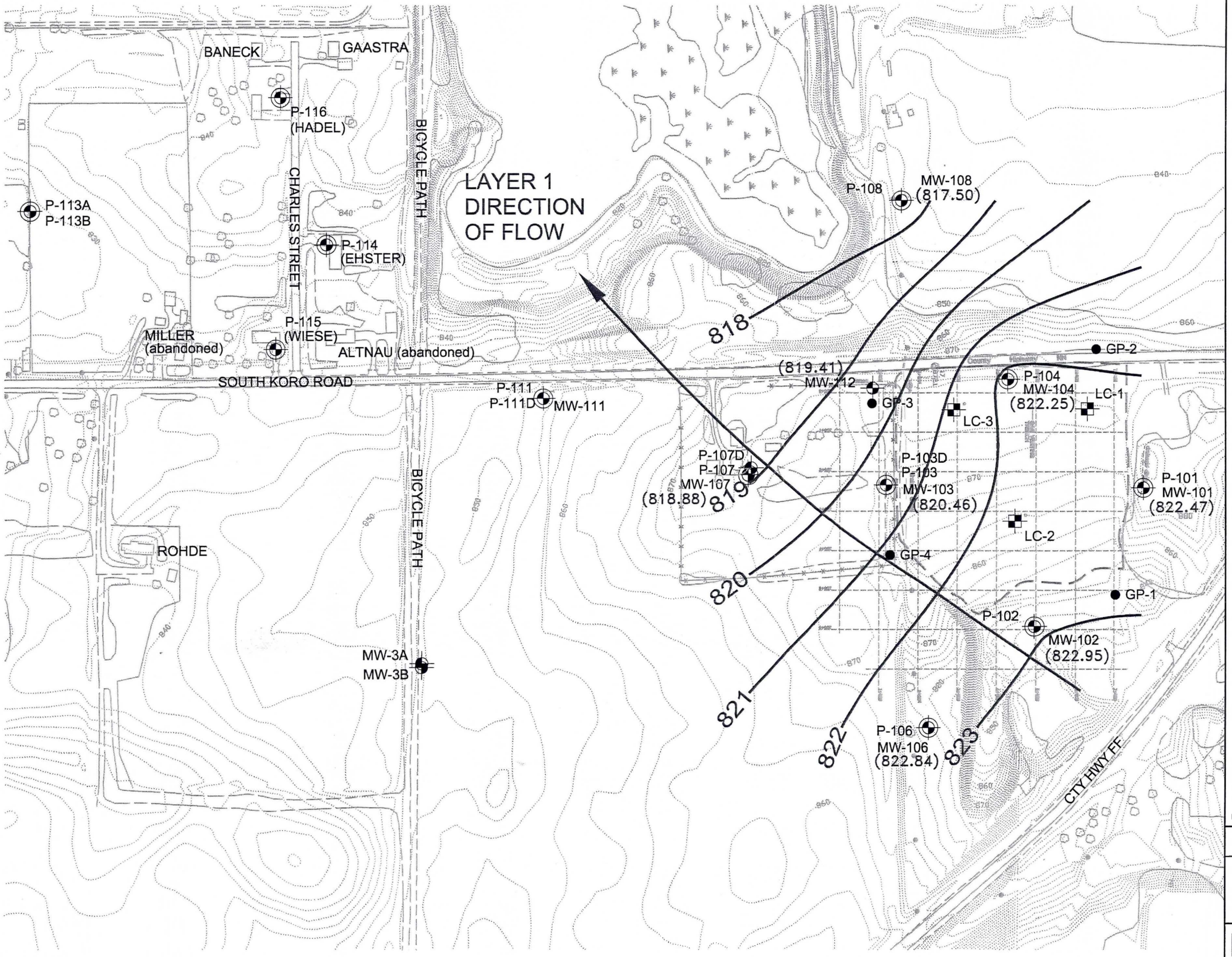
Landfill gas monitoring will be conducted periodically by Jack Wendler from the City of Ripon..

The interim gas extraction system will continue to be monitored for effectiveness throughout this quarter.

PERSONNEL

Mr. Michael Noel is the Project Manager and Principal Hydrogeologist. Mr. Kevin Lincicum is the Project Hydrogeologist who conducted the field activities. The laboratory analyses for the January 2008 groundwater samples and drinking water well samples were completed by PACE laboratories in Green Bay, Wisconsin. The laboratory analyses for the air samples was completed by PACE laboratories in Minneapolis, Minnesota.

FIGURES



EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- (822.47) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

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

FF/NN LANDFILL
RIPON, WISCONSIN

GROUNDWATER ELEVATIONS
LAYER 1 WELLS
JANUARY 2008

DATE:	3/28/08
DESIGNED:	KFL
CHECKED:	KFL
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	1011.006

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Figure 1

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BANECK
GAASTRA
P-116
(HADEL)
BICYCLE PATH
CHARLES STREET
P-113A
P-113B
P-114
(EHSTER)
P-115
(WIESE)
MILLER
(abandoned)
ALTNAU (abandoned)
SOUTH KORO ROAD
(816.85)
P-111
P-111D
MW-111
LAYER 2
DIRECTION
OF FLOW
817
818
819
820
821
822
ROHDE
MW-3A
MW-3B
(820.44)
P-108
MW-108
MW-112
GP-2
(822.44)
P-104
MW-104
GP-3
LC-3
LC-1
P-107D
(818.91) P-107
MW-107
P-103D
P-103 (822.86)
MW-103
(822.43)
P-101
MW-101
LC-2
GP-4
GP-1
P-102
(823.03)
MW-102
823
P-106
(822.75) MW-106
CTY HWY FF

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- (822.43) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

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

FF/NN LANDFILL
RIPON, WISCONSIN

GROUNDWATER ELEVATIONS
LAYER 2 WELLS
JANUARY 2008

DATE:	3/28/08
DESIGNED:	KFL
CHECKED:	KFL
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	1011.006

GeoTrans, Inc. A TETRA TECH COMPANY

Figure 2

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LAYER 3
DIRECTION
OF FLOW

879

818

820

821

BANECK

GAASTRA

BICYCLE PATH

CHARLES STREET

P-116
(HADEL)
(817.76)

P-113A
P-113B
(819.35)

P-114 (819.00)
(EHSTER)

(819.19)
P-115
(WIESE)

MILLER
(abandoned)

ALTNAU (abandoned)

SOUTH KORO ROAD

P-111
P-111D
(820.14)

MW-111

ROHDE

BICYCLE PATH

MW-3A
MW-3B
(821.08)

P-108

MW-108

GP-2

MW-112

GP-3

P-104
MW-104

LC-3

LC-1

P-107D

P-107
MW-107

(821.94)
P-103D
P-103
MW-103

P-101
MW-101

LC-2

GP-4

GP-1

P-102

MW-102

P-106

MW-106

CTY HWY FF

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- ● GP-1 — GAS PROBE LOCATION AND DESIGNATION
- (822.02) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

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

FF/NN LANDFILL RIPON, WISCONSIN	DATE: 3/28/08
	DESIGNED: KFL
GROUNDWATER ELEVATIONS LAYER 3 WELLS JANUARY 2008	CHECKED: KFL
	APPROVED: MRN
	DRAWN: HJW
	PROJ.: 1011.006
GeoTrans, Inc. A TETRA TECH COMPANY	Figure 3

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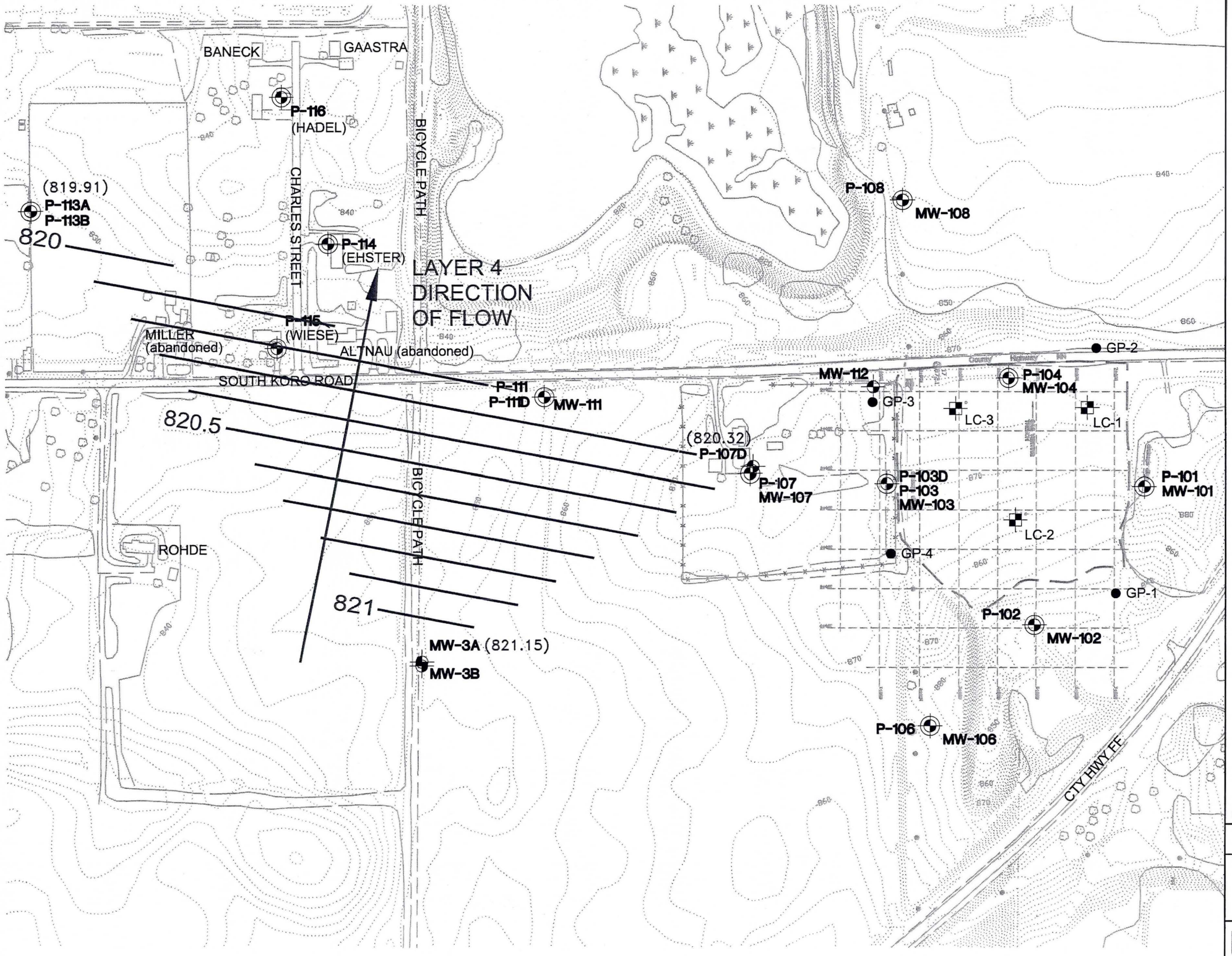

EXPLANATION

- P-104 / MW-104 — MONITOR WELL, PIEZOMETER LOCATION, DESIGNATION
- LC-2 — LEACHATE HEAD WELL LOCATION, DESIGNATION
- OUTLINE OF CLOSED LANDFILL
- GP-1 — GAS PROBE LOCATION AND DESIGNATION
- (821.15) — GROUNDWATER ELEVATION

N

SCALE

0 500

Feet

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

FF/NN LANDFILL
RIPON, WISCONSIN

GROUNDWATER ELEVATIONS
LAYER 4 WELLS
JANUARY 2008

DATE:	3/28/08
DESIGNED:	KFL
CHECKED:	KFL
APPROVED:	MRN
DRAWN:	HJW
PROJ.:	1011.006

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Figure 4

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CHARTS

Chart 1: GV-1 Gas Concentrations

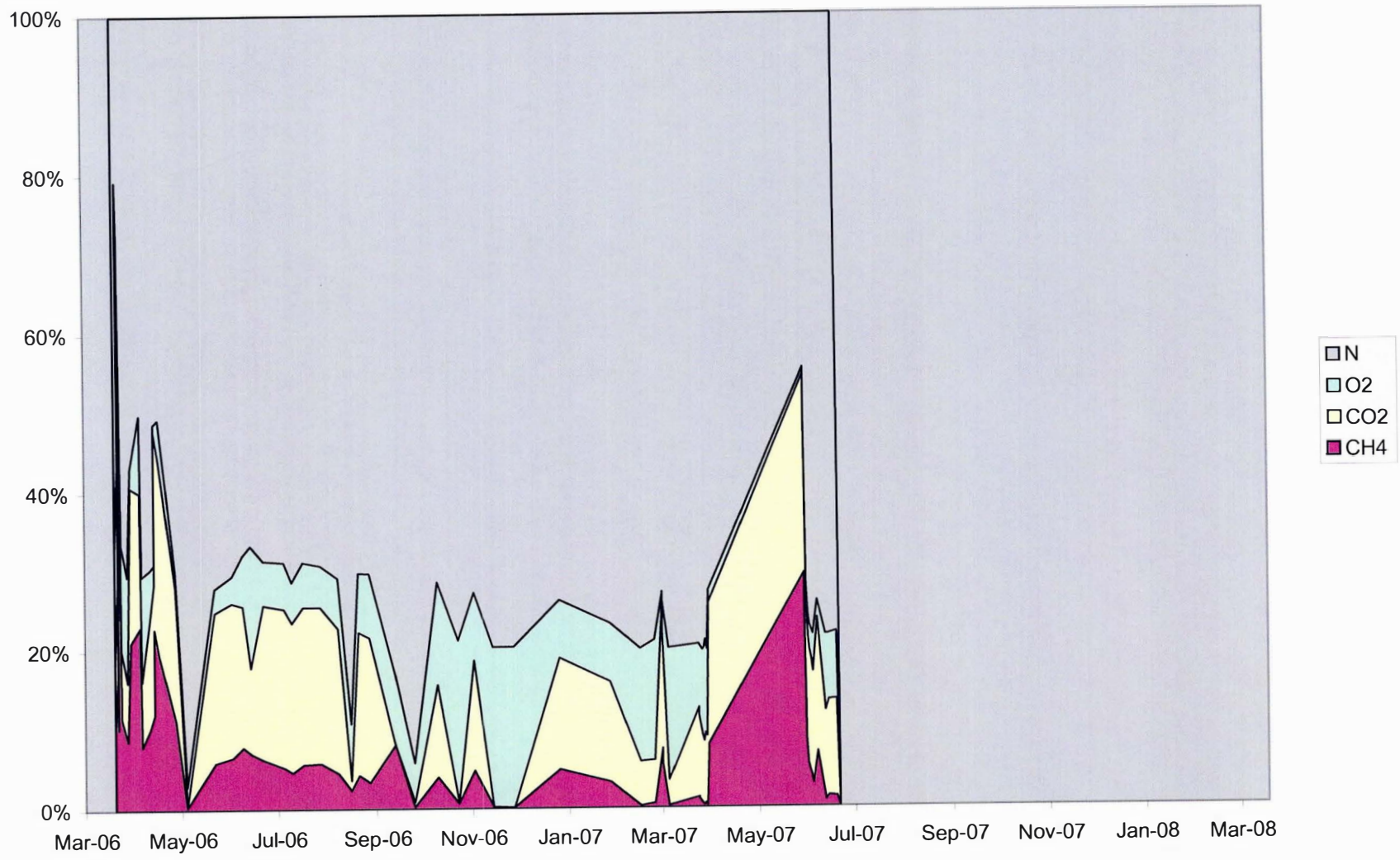

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Chart 2: GV-4 Gas Concentrations

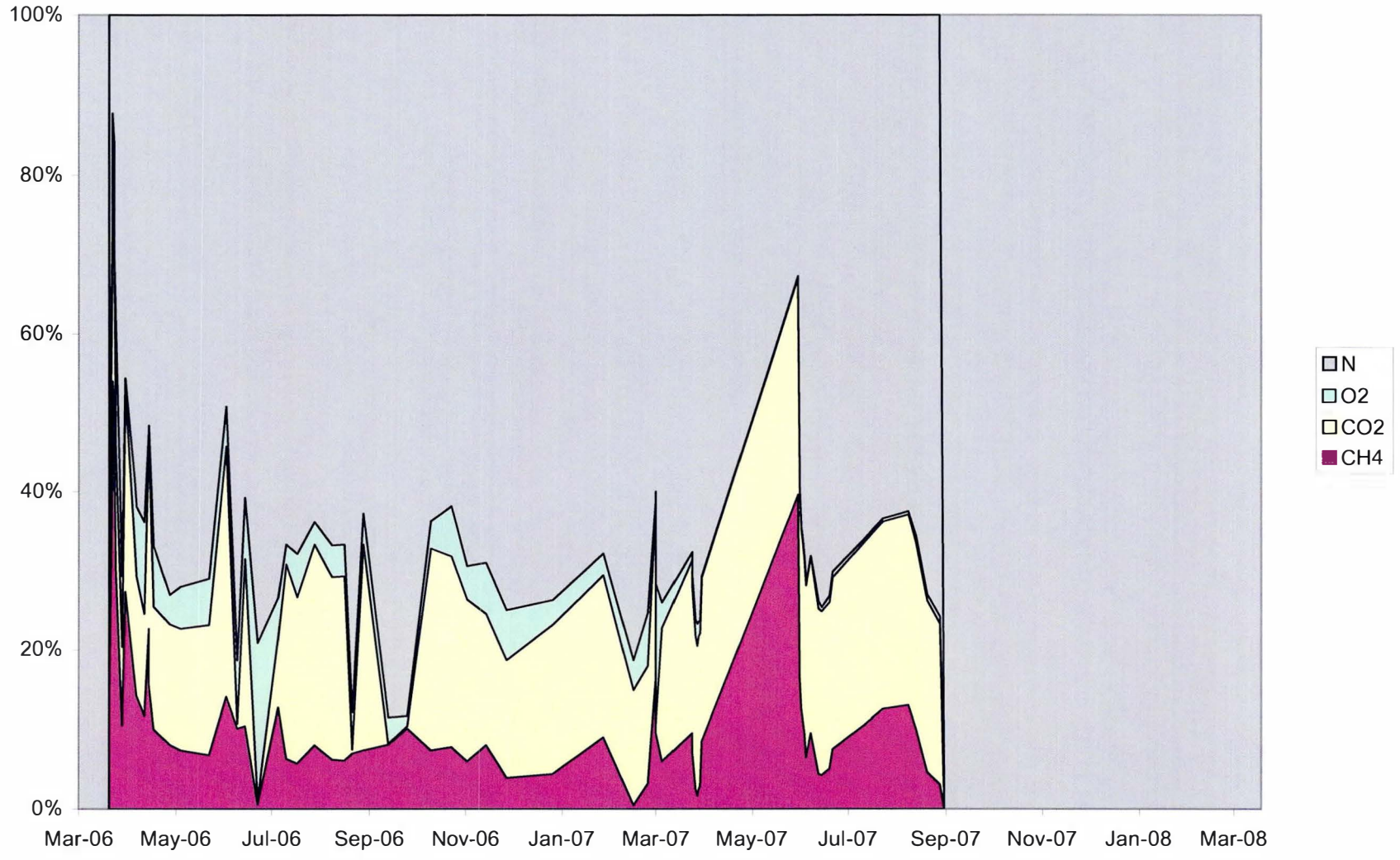

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Chart 3: GV-6 Gas Concentrations

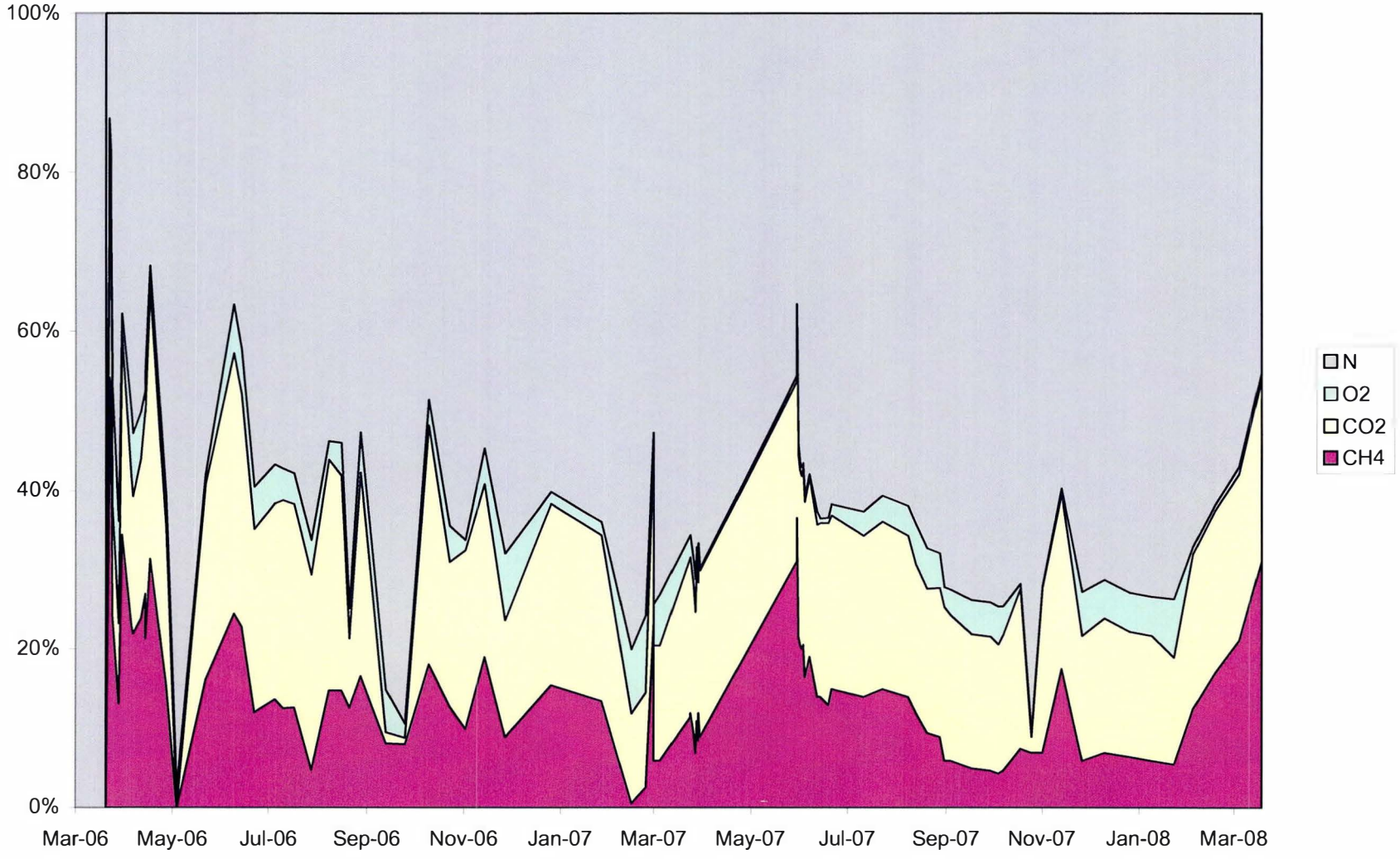

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Chart 4: GV-7 Gas Concentrations

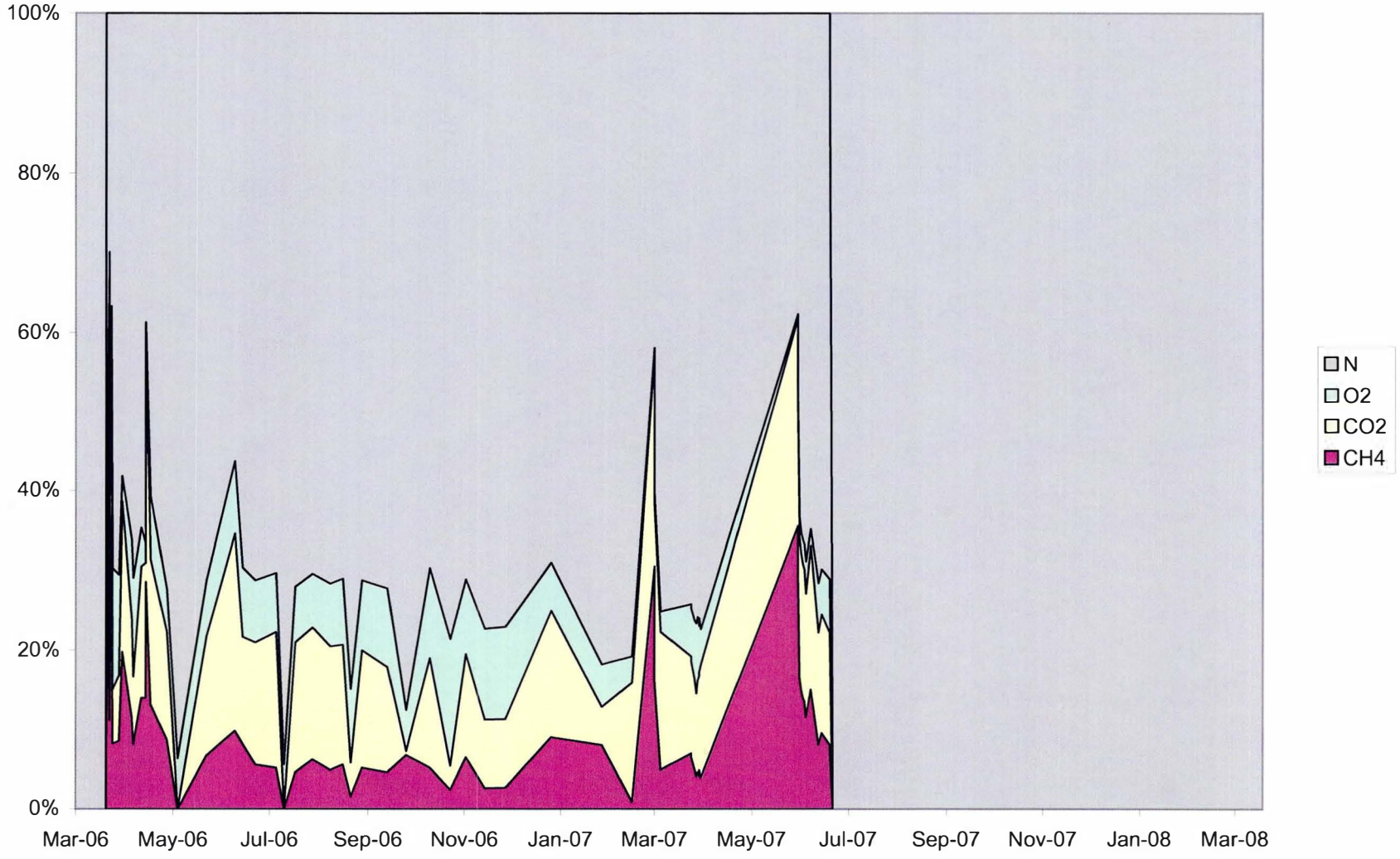

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Chart 5: GV-9 Gas Concentrations

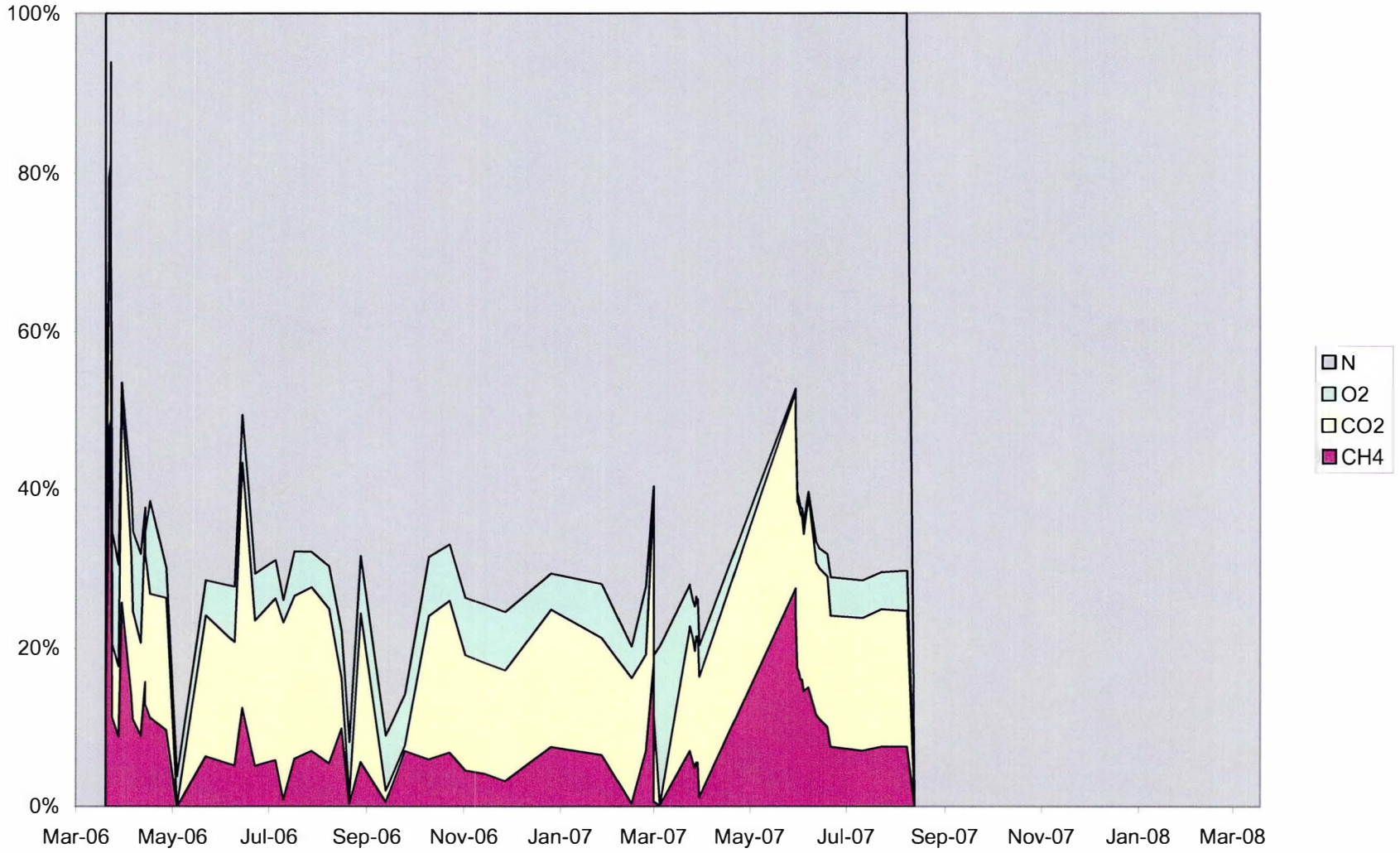

Chart 6: GV-12 Gas Concentrations

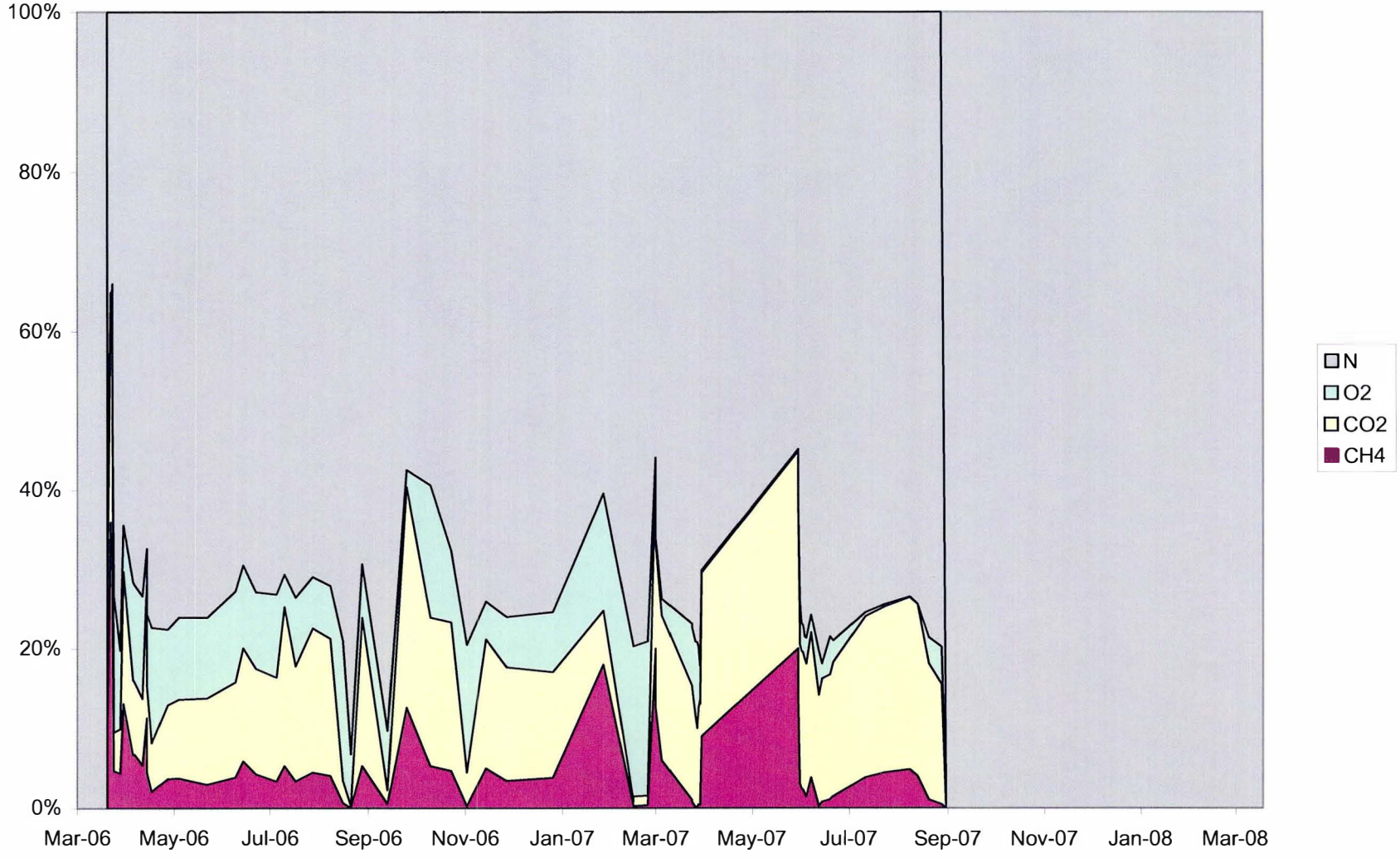

Chart 7: LC-1 Gas Concentrations

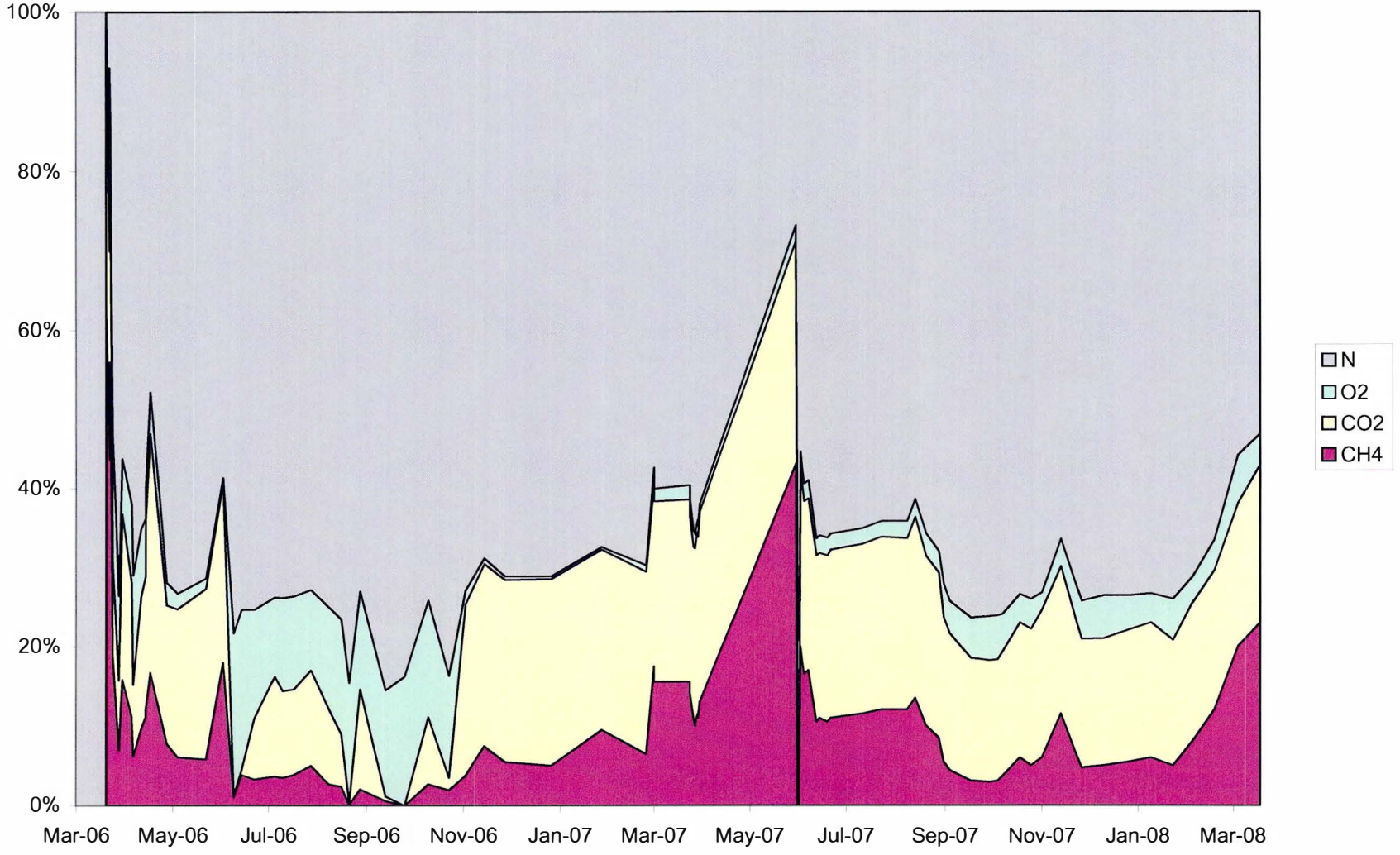

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Chart 8: LC-2 Gas Concentrations

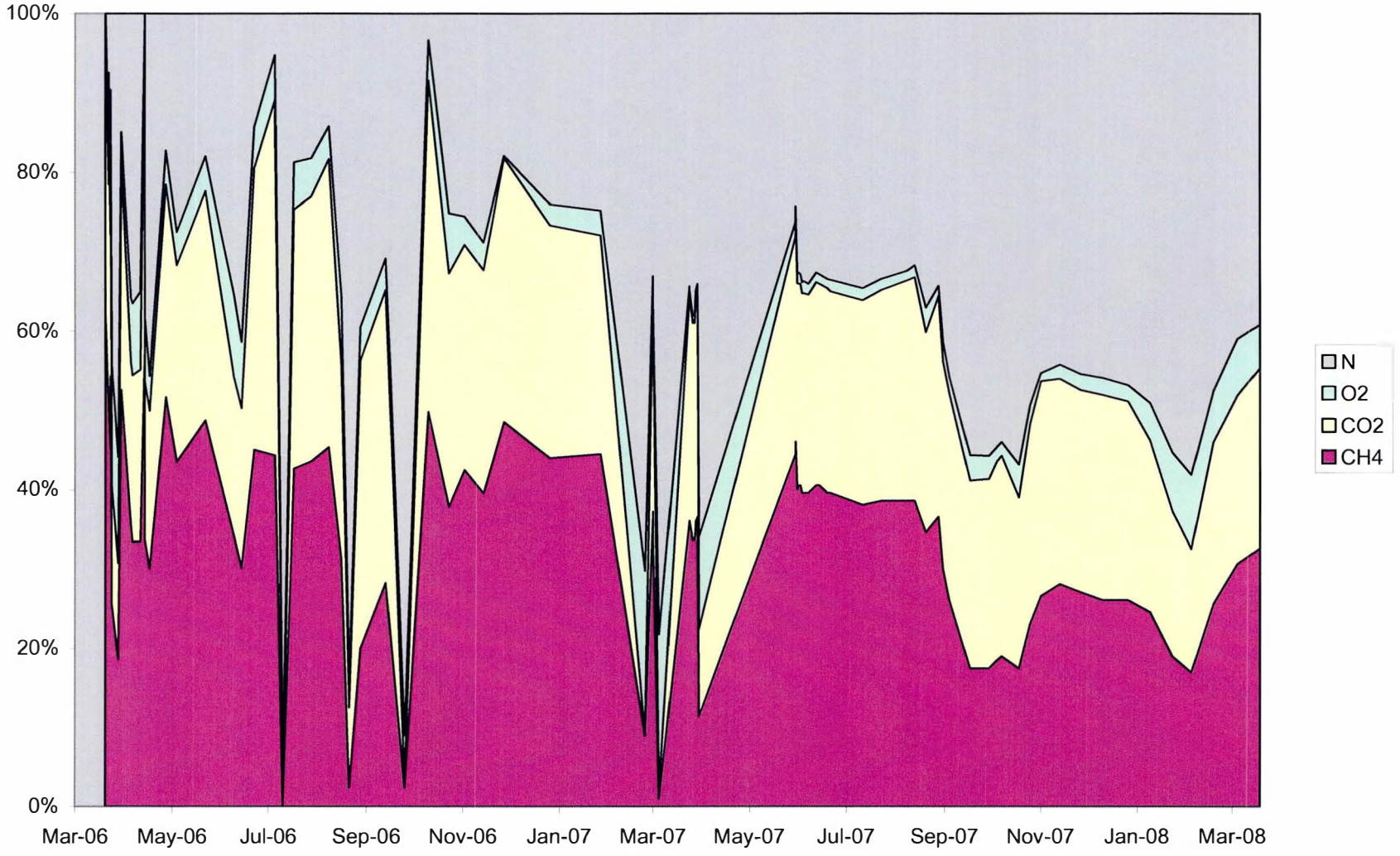

Chart 9: LC-3 Gas Concentrations

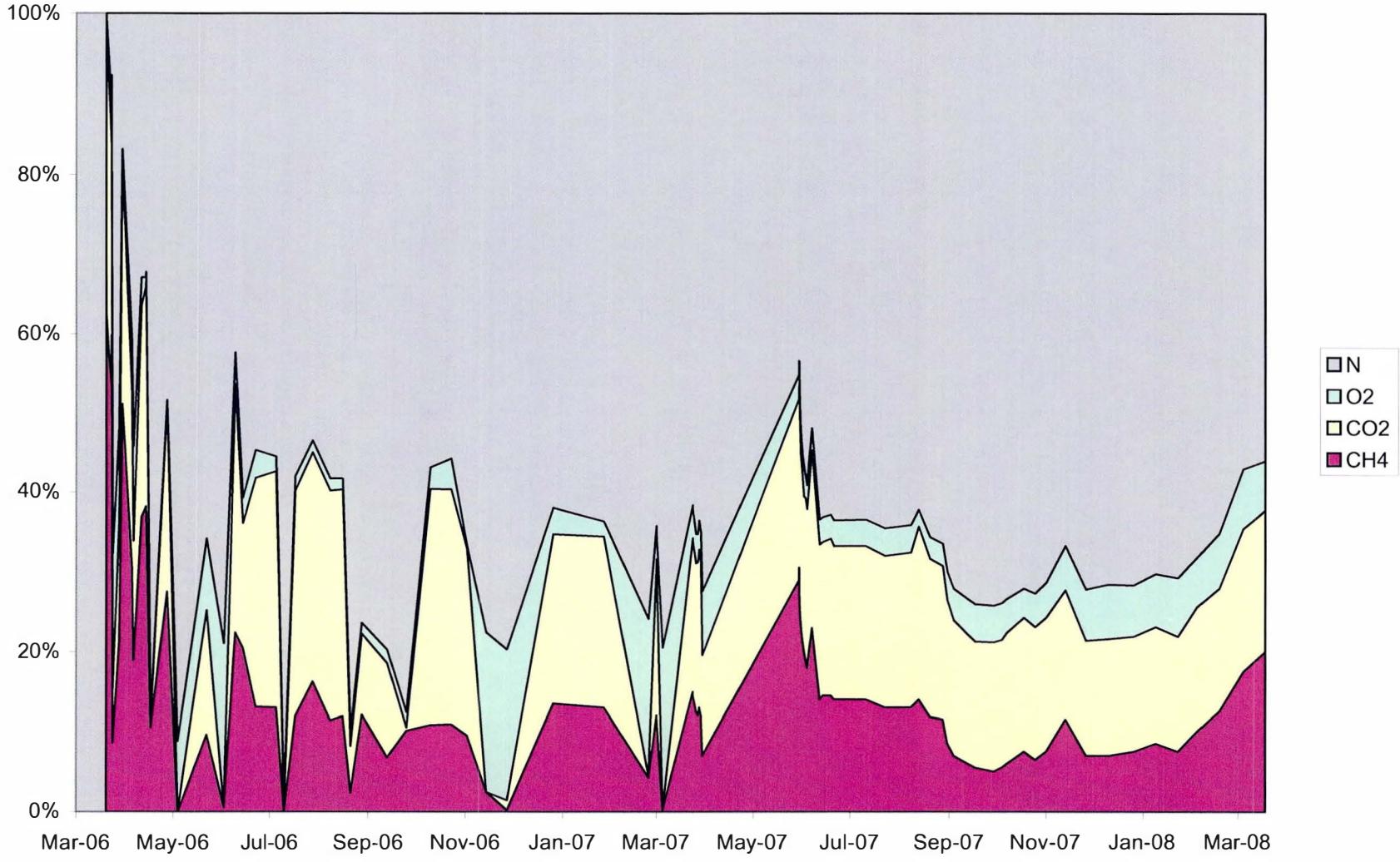

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Chart 10: System Exhaust

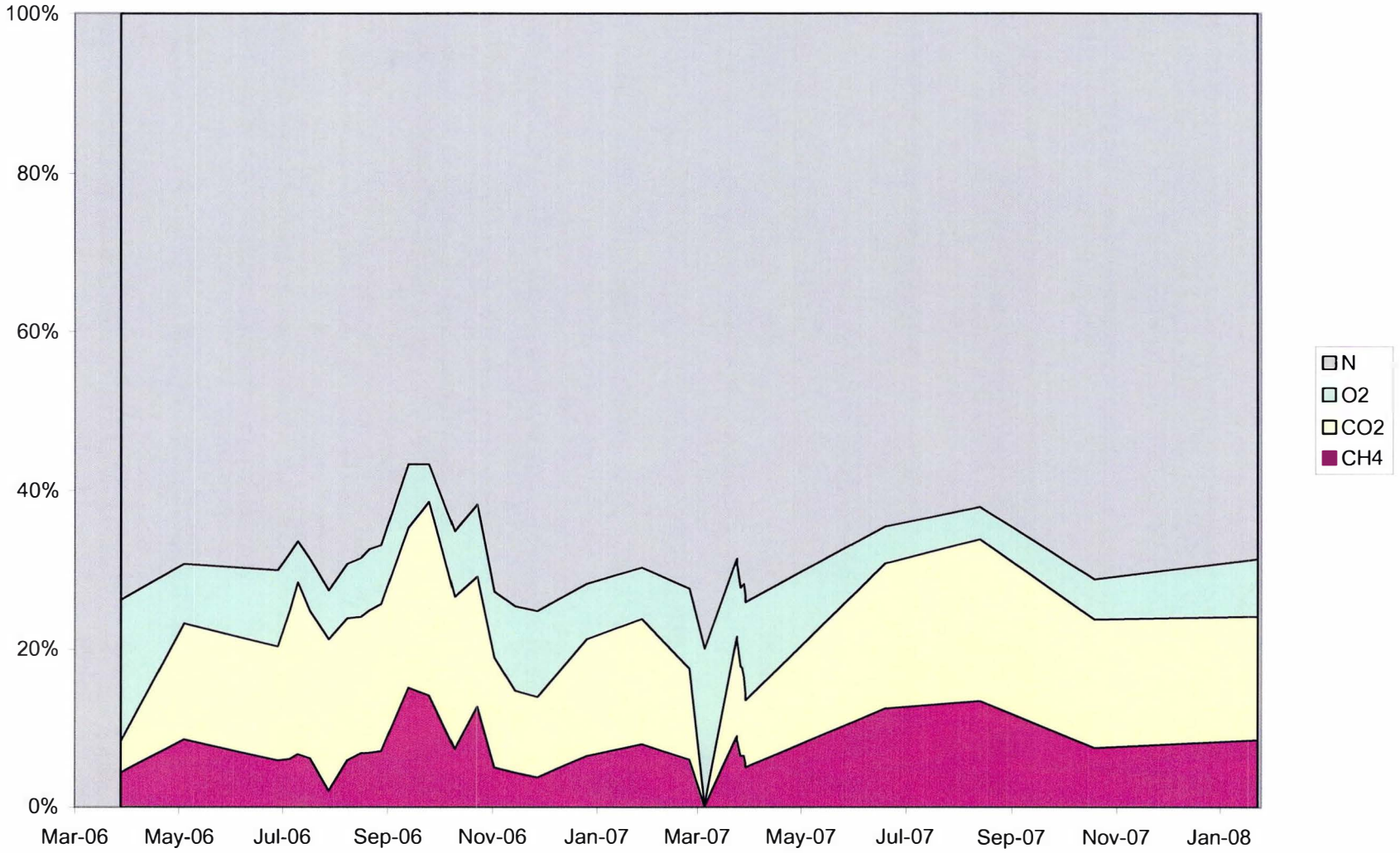

Chart 11: GP-1 Gas Concentrations

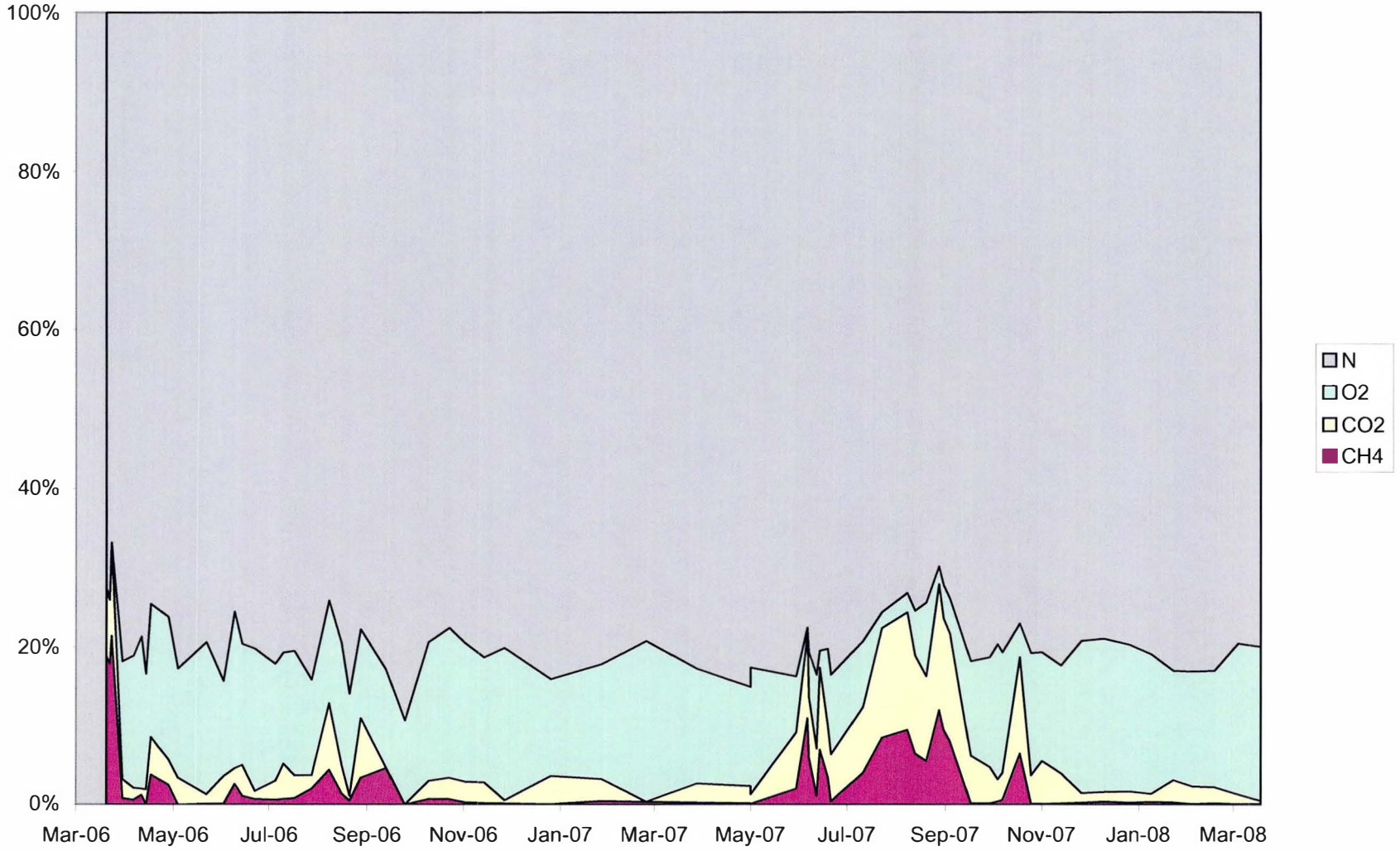

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Chart 12: GP-2 Gas Concentrations

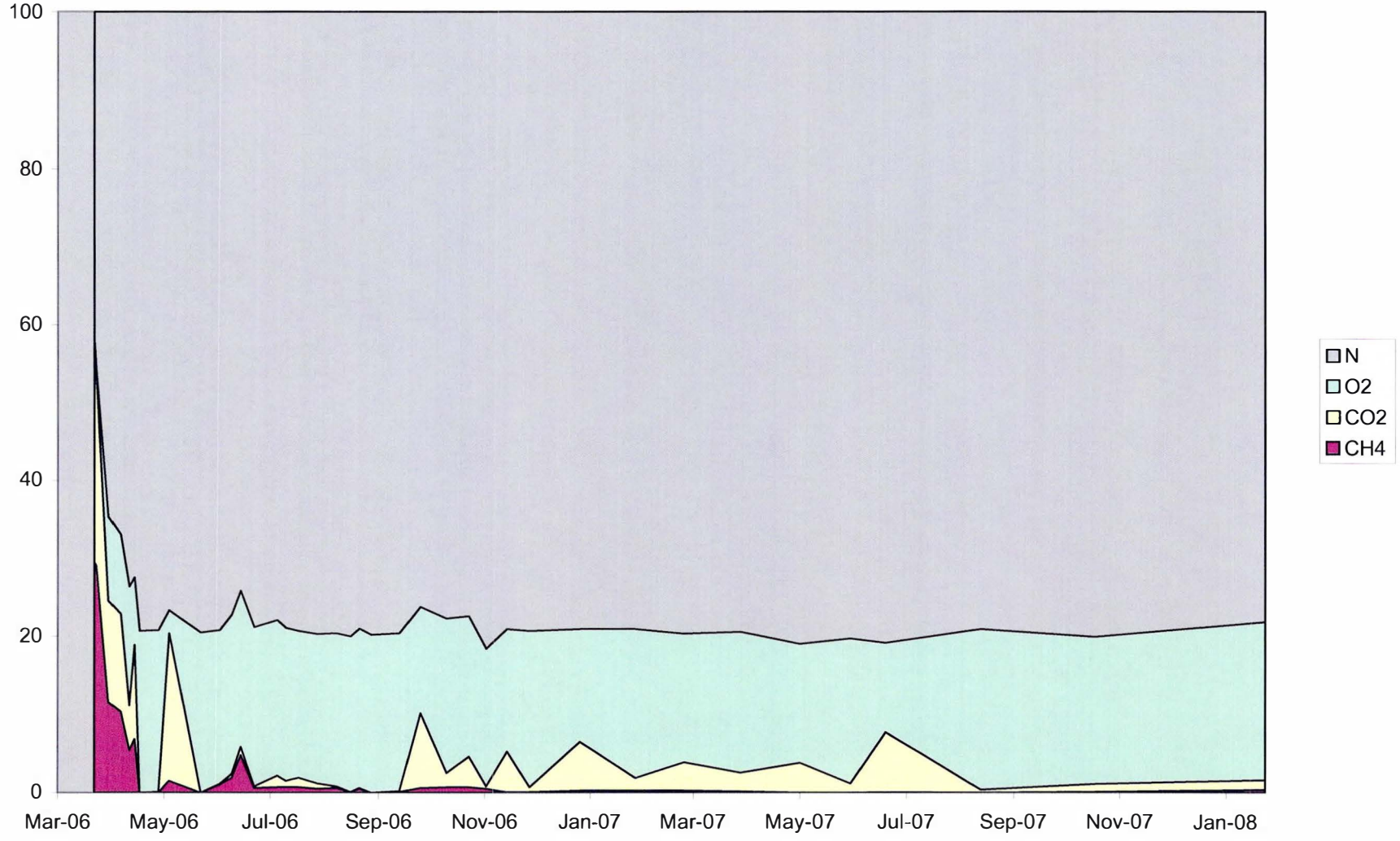

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Chart 13: GP-3 Gas Concentrations

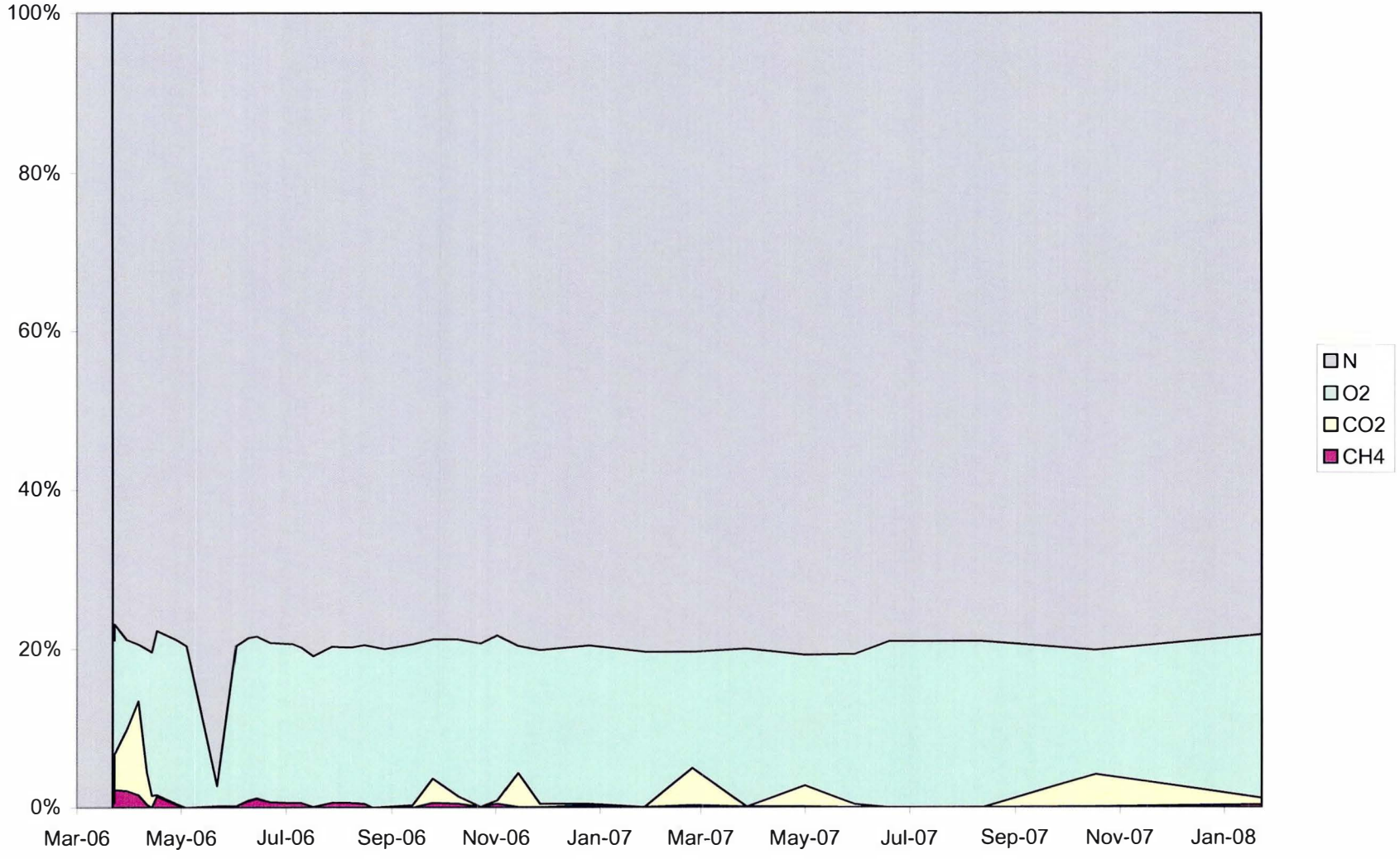

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Chart 14: GP-4 Gas Concentrations

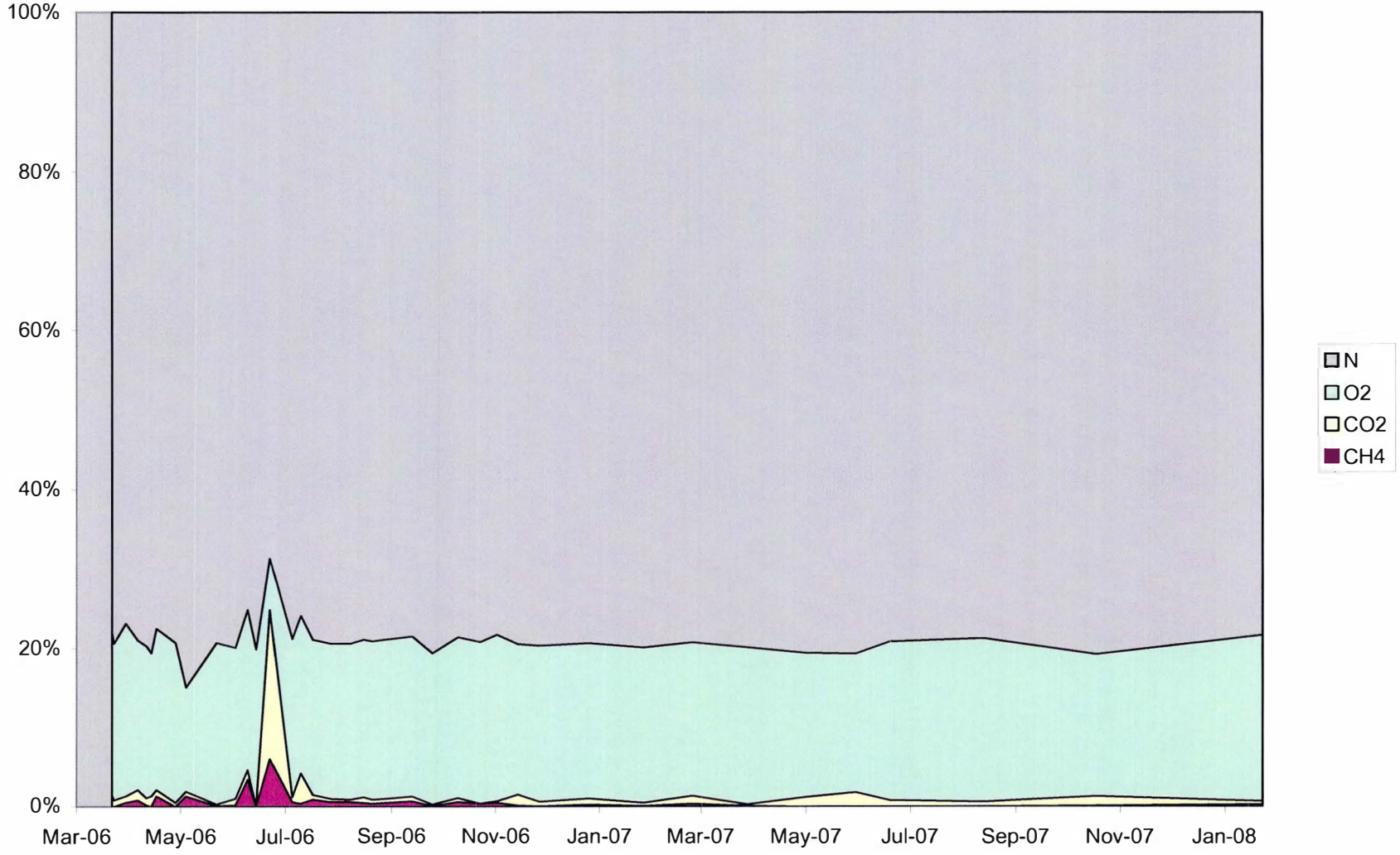

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Chart 15: GP-5 Gas Concentrations

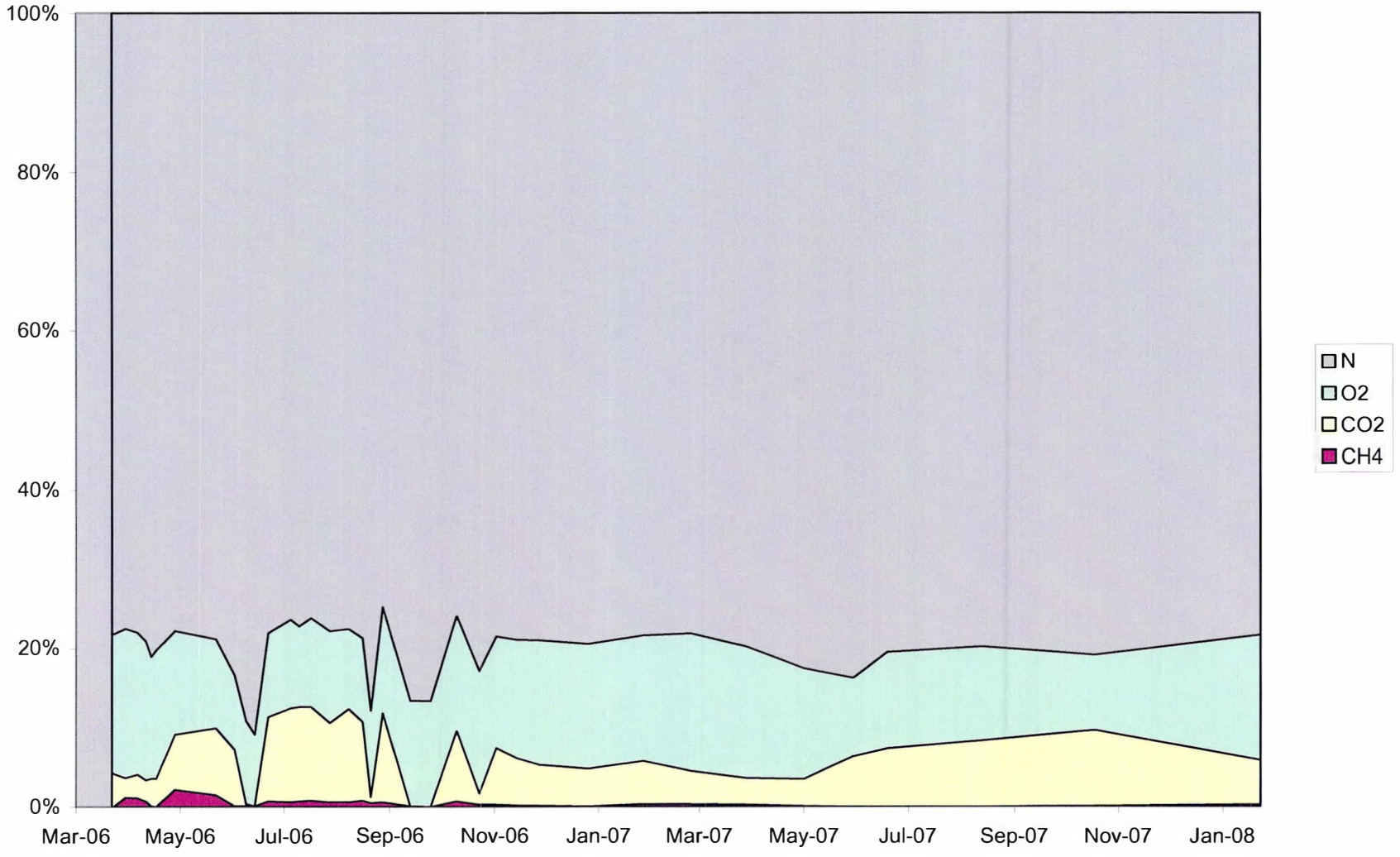

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Chart 16: GP-6 Gas Concentrations

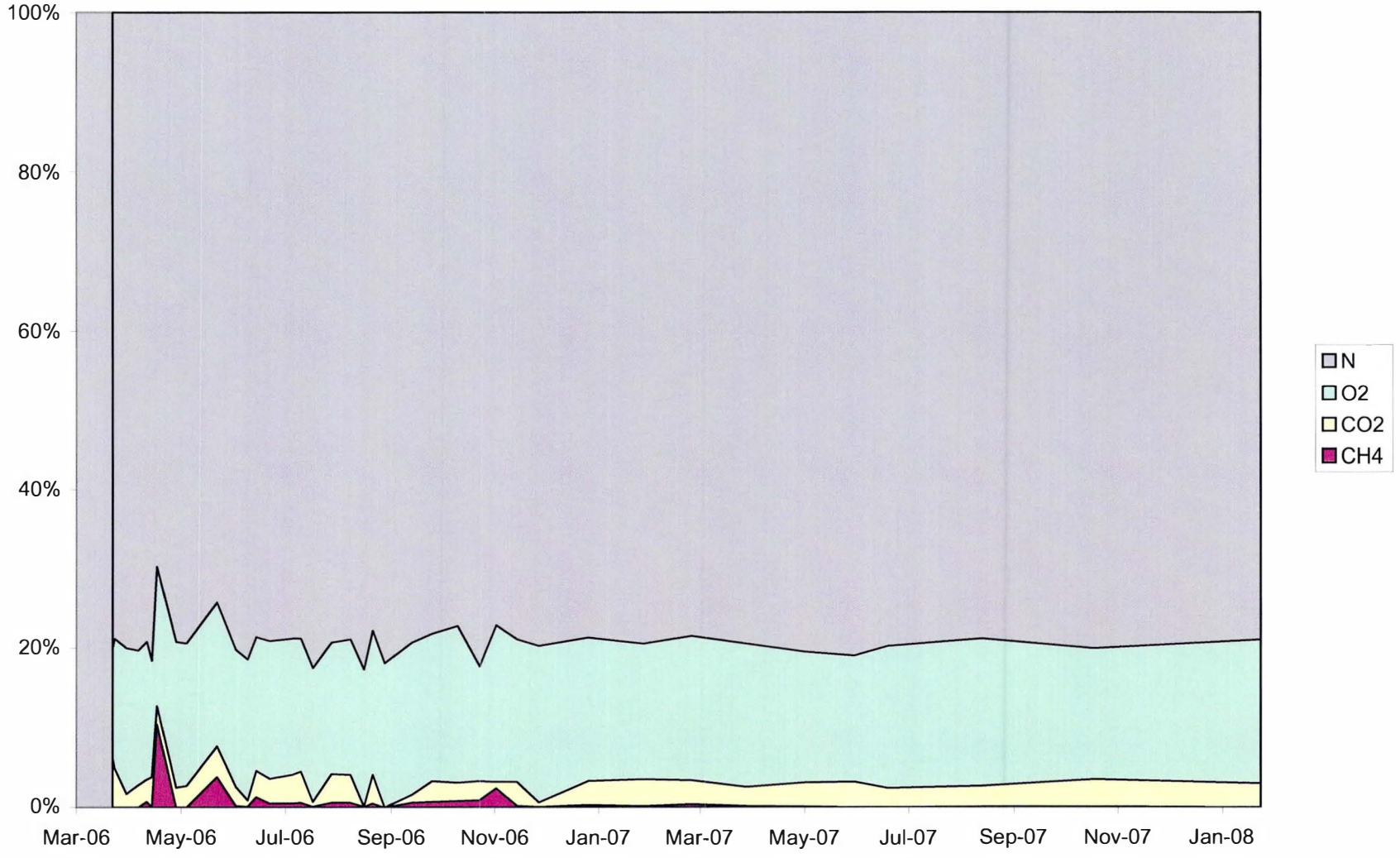

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Chart 17: GP-7 Gas Concentrations

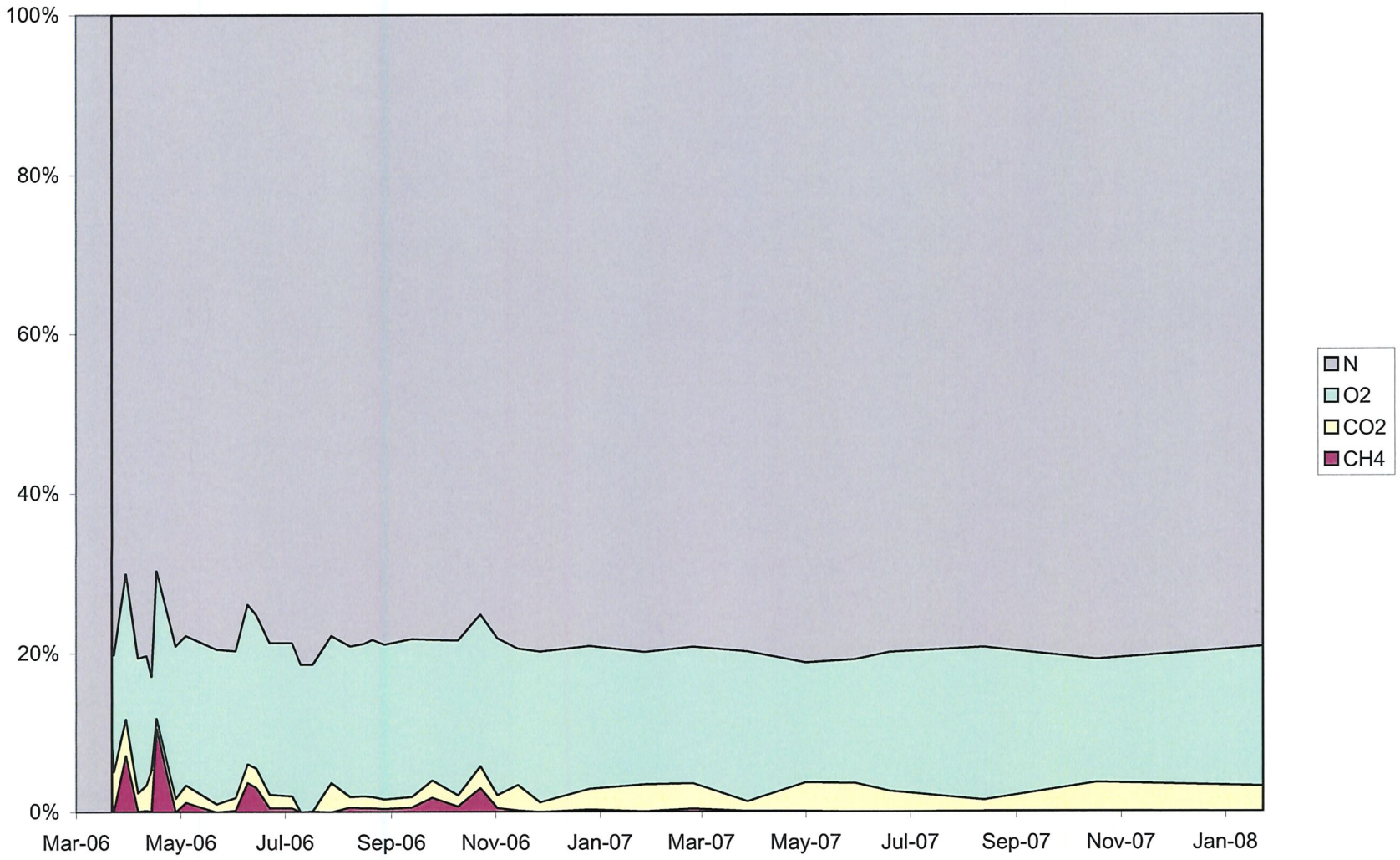

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Chart 18: GP-8 Gas Concentrations

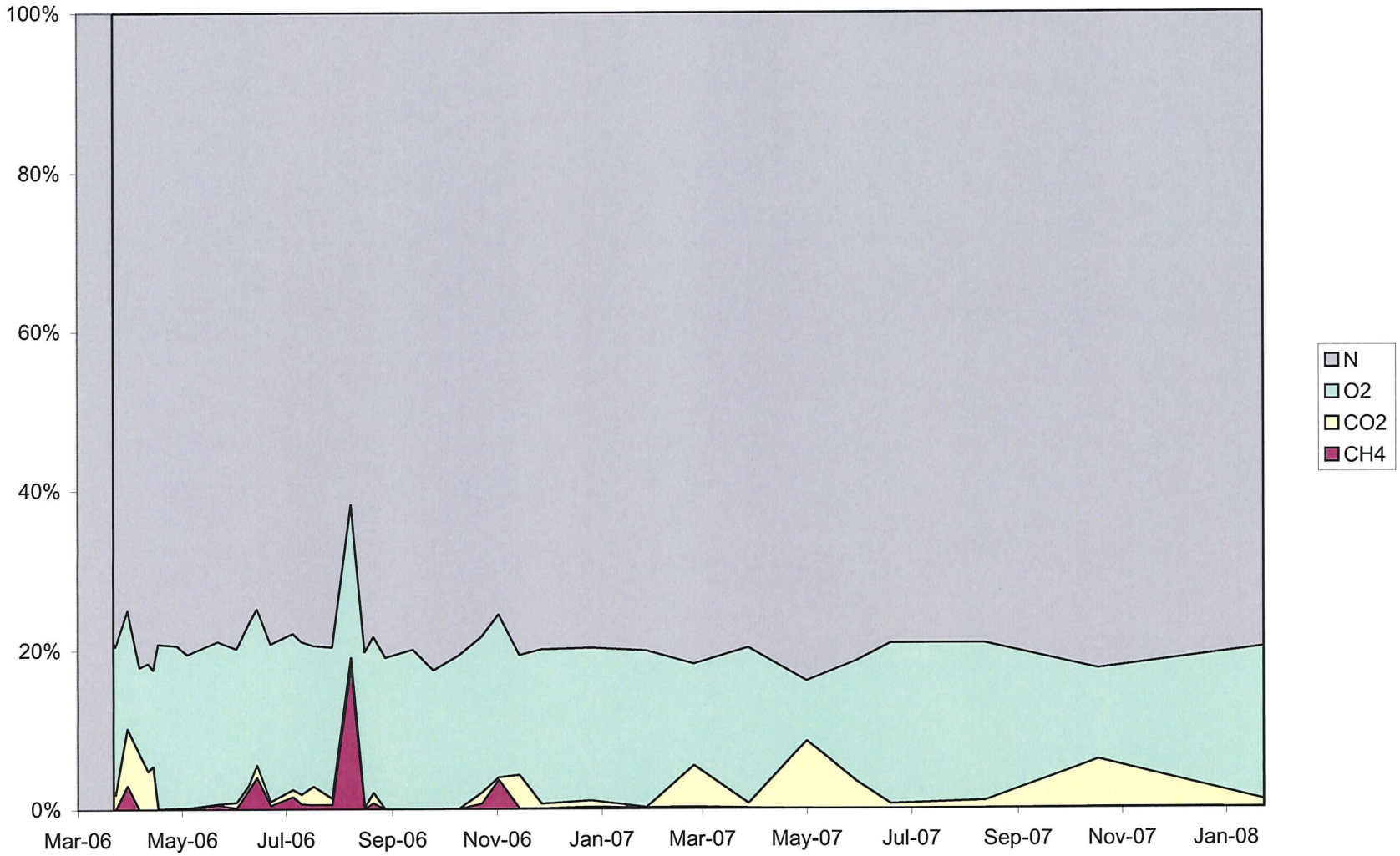

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Chart 19: GP-10 Gas Concentrations

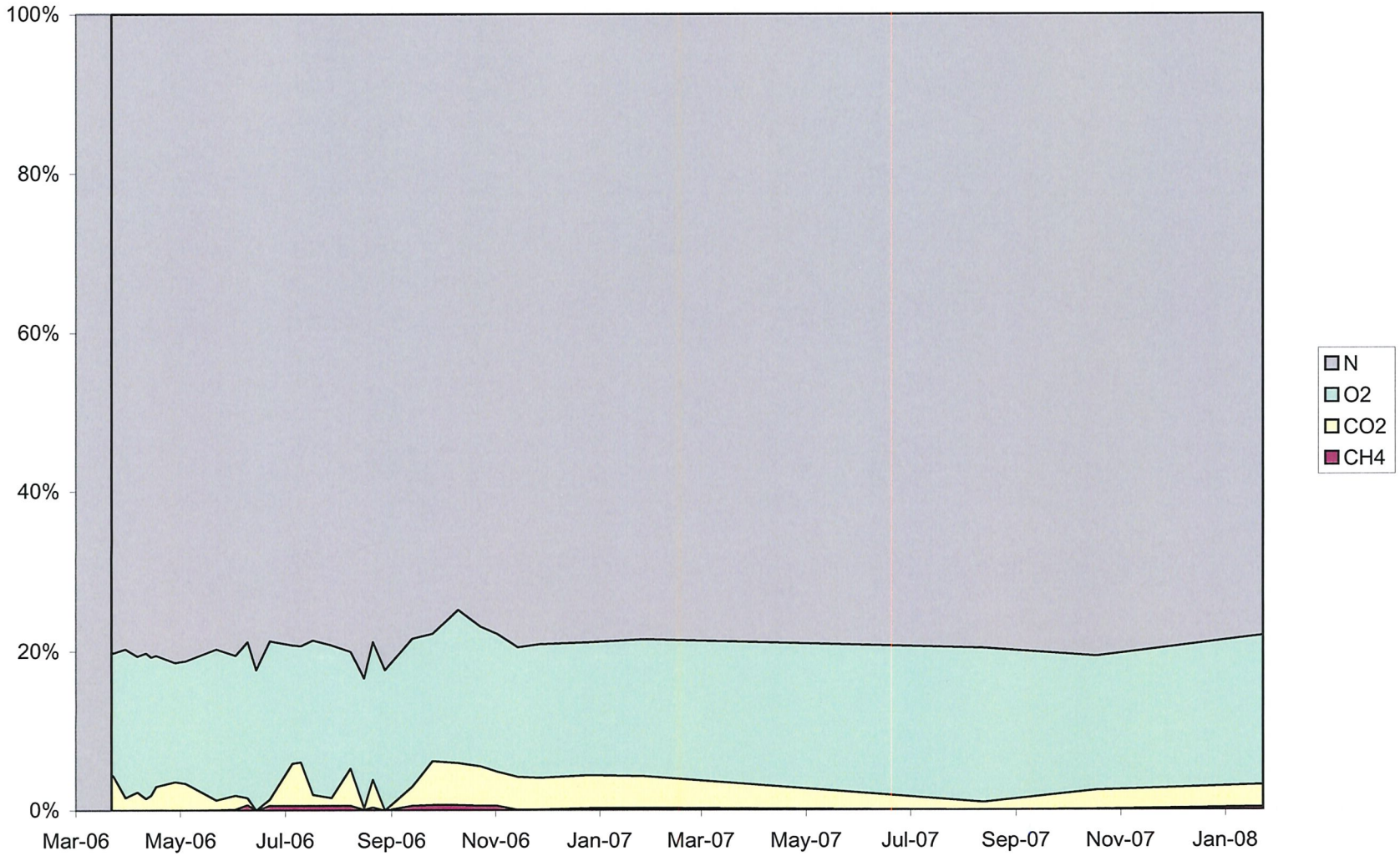

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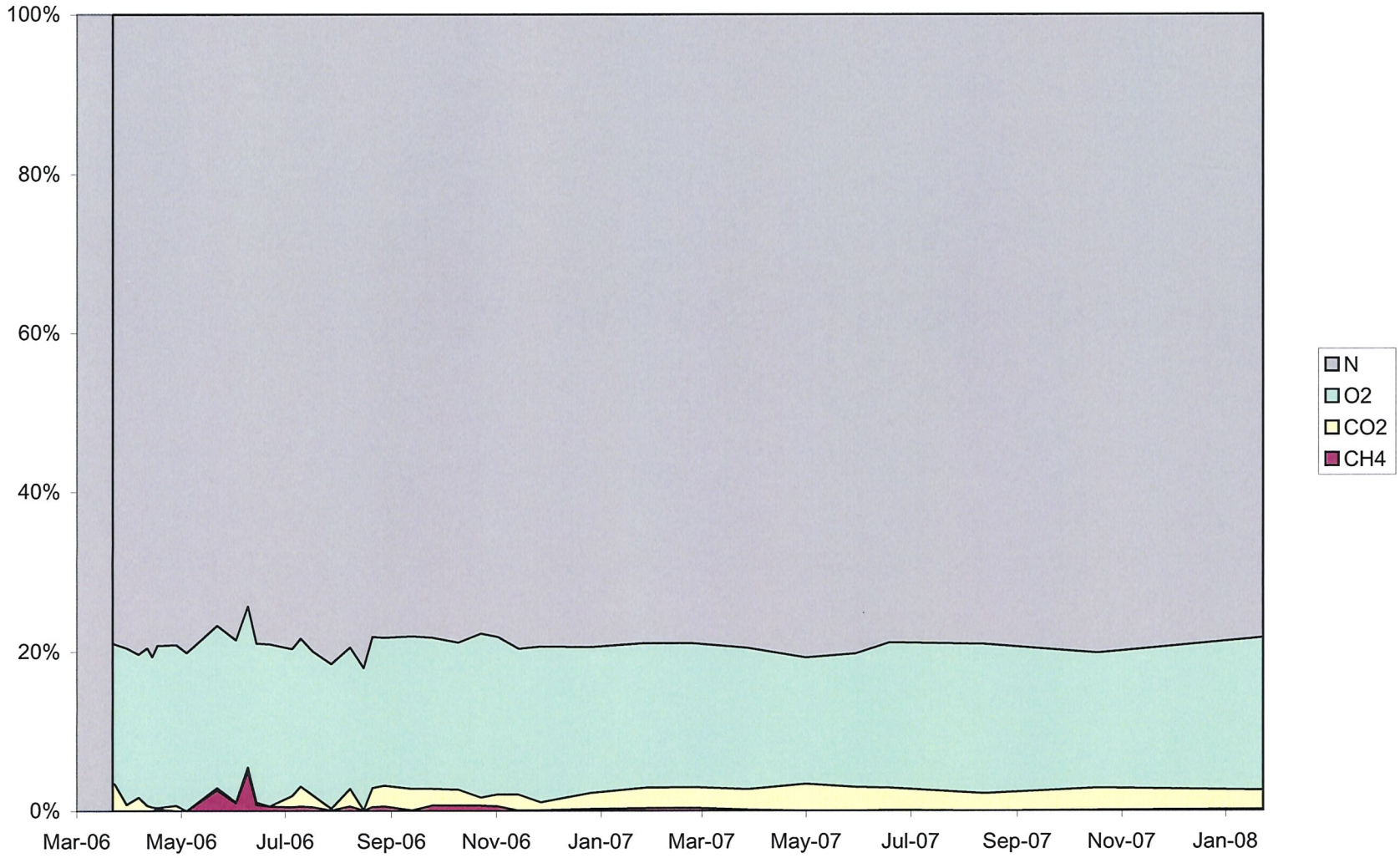
Chart 20: GP-11 Gas Concentrations



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[redacted]

Chart 21: GP-12 Gas Concentrations

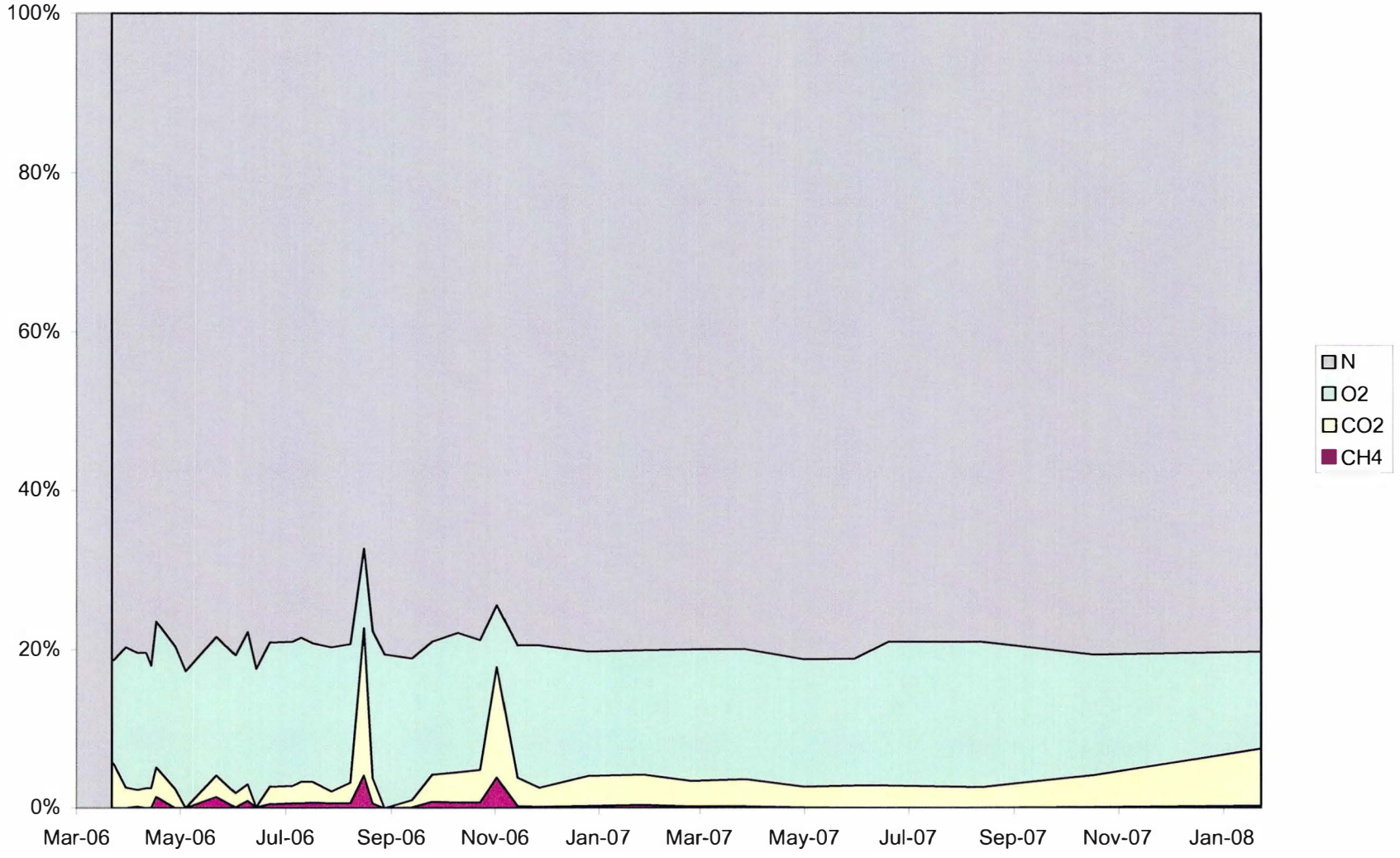

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Chart 22: MW-101 Gas Concentrations

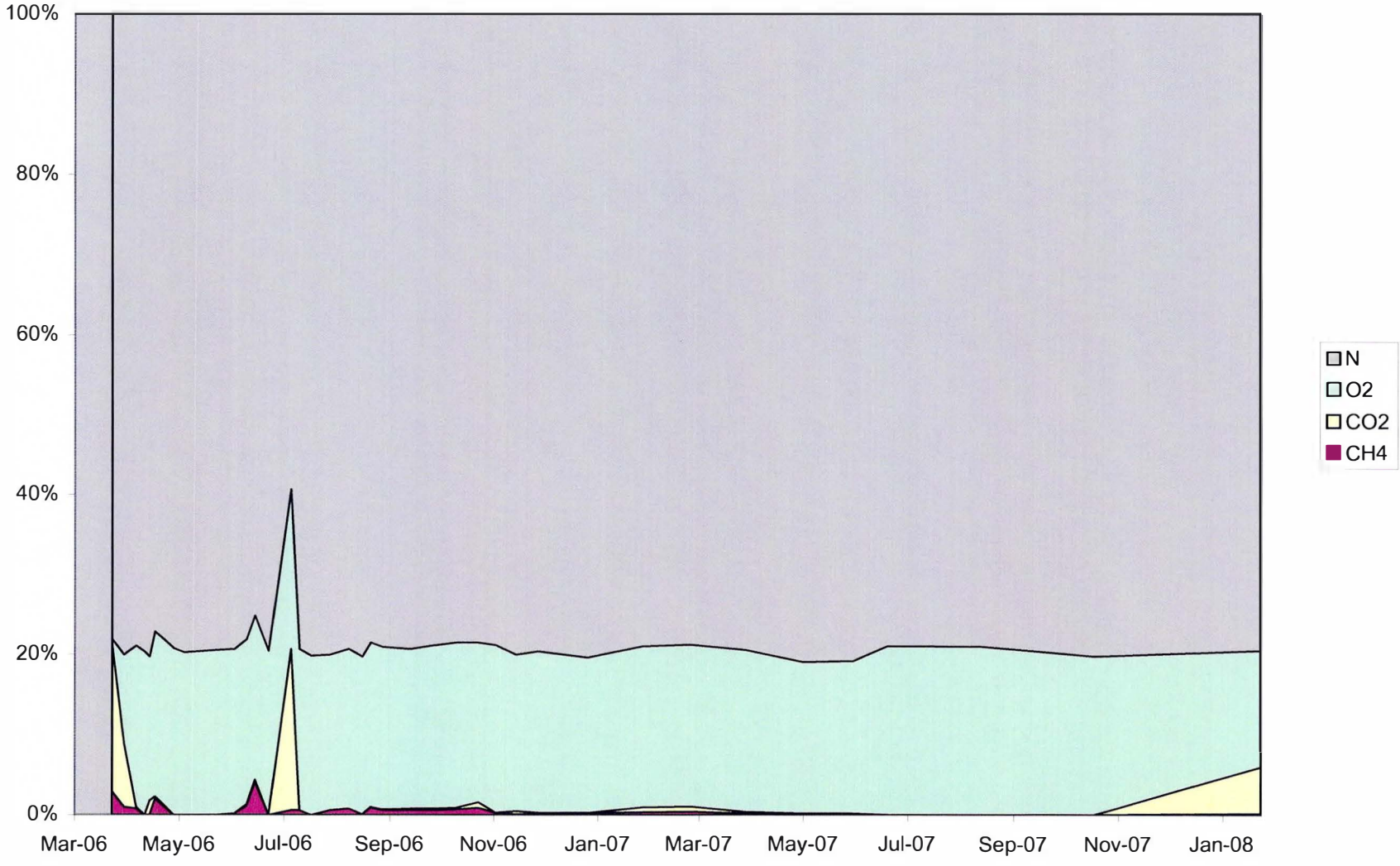

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Chart 23: MW-102 Gas Concentrations

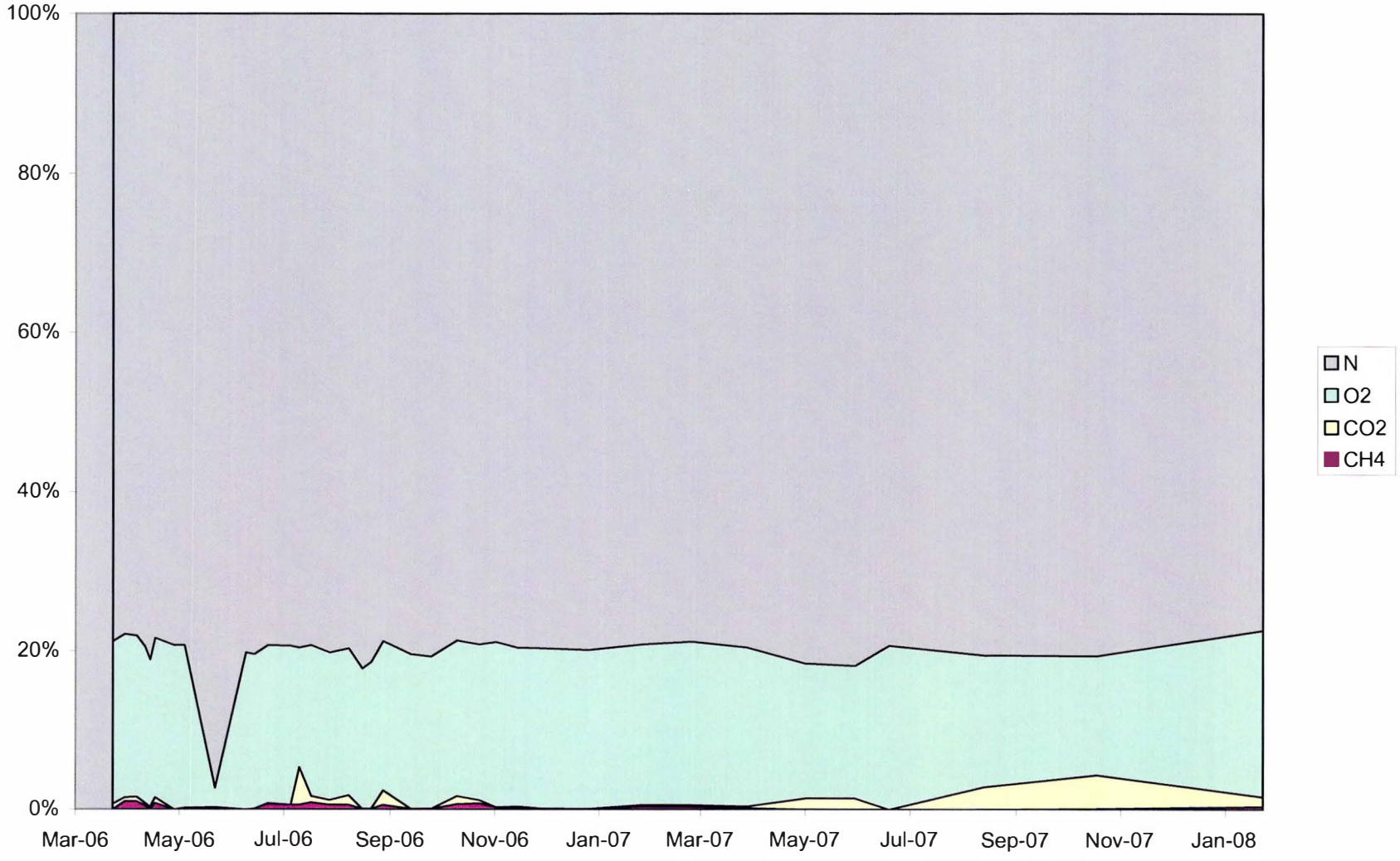

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Chart 24: MW-103 Gas Concentrations

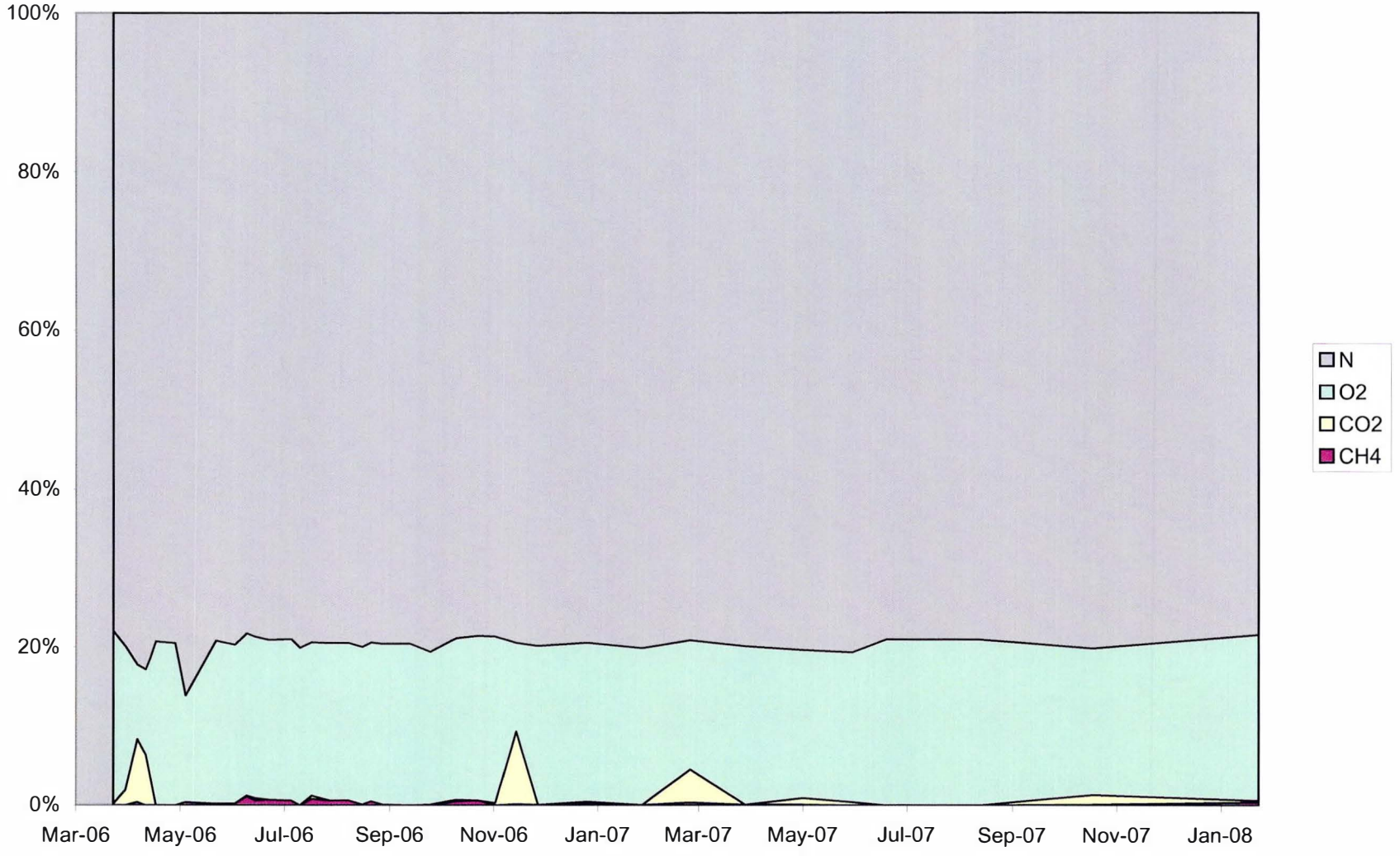

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Chart 25: MW-104 Gas Concentrations

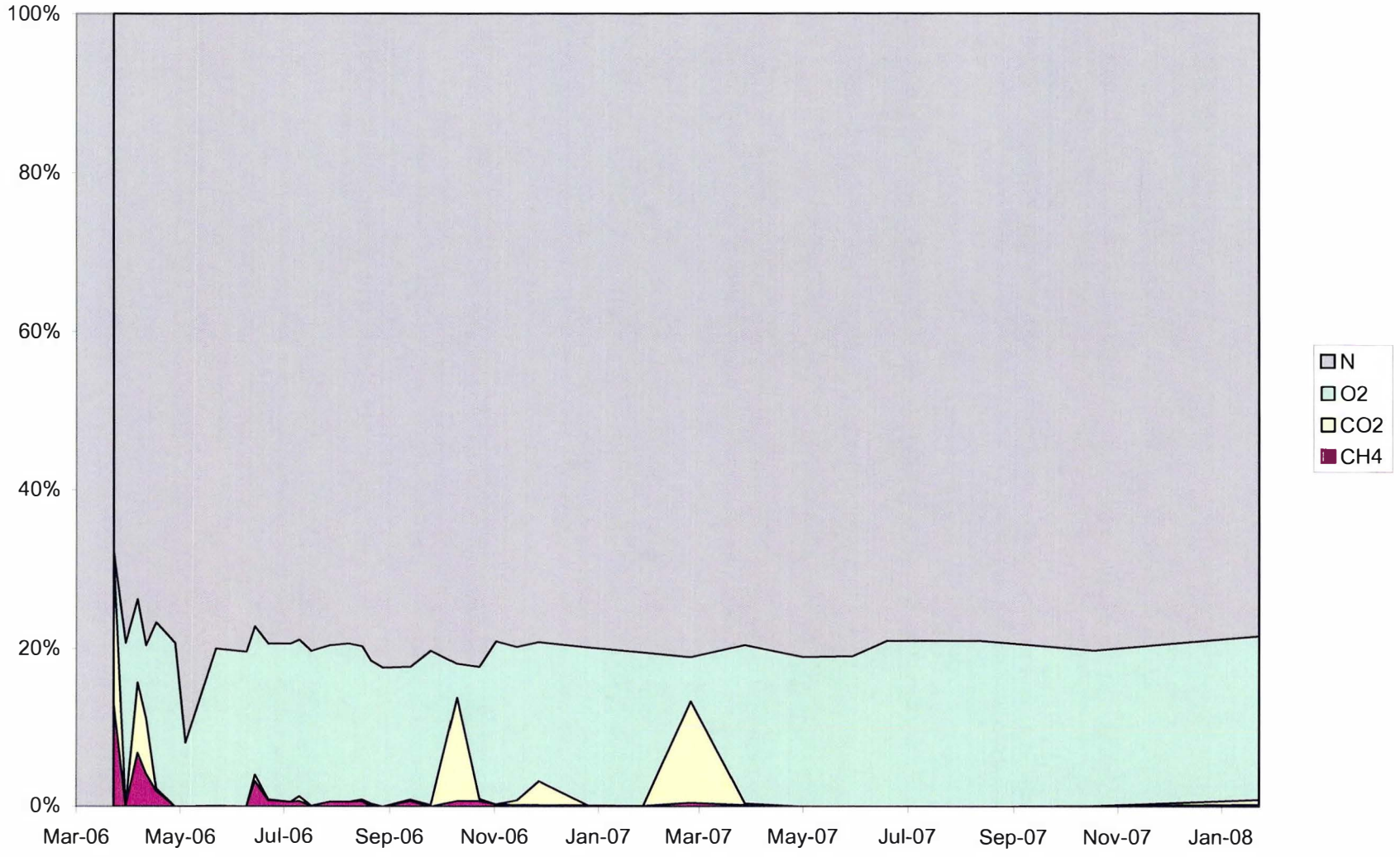

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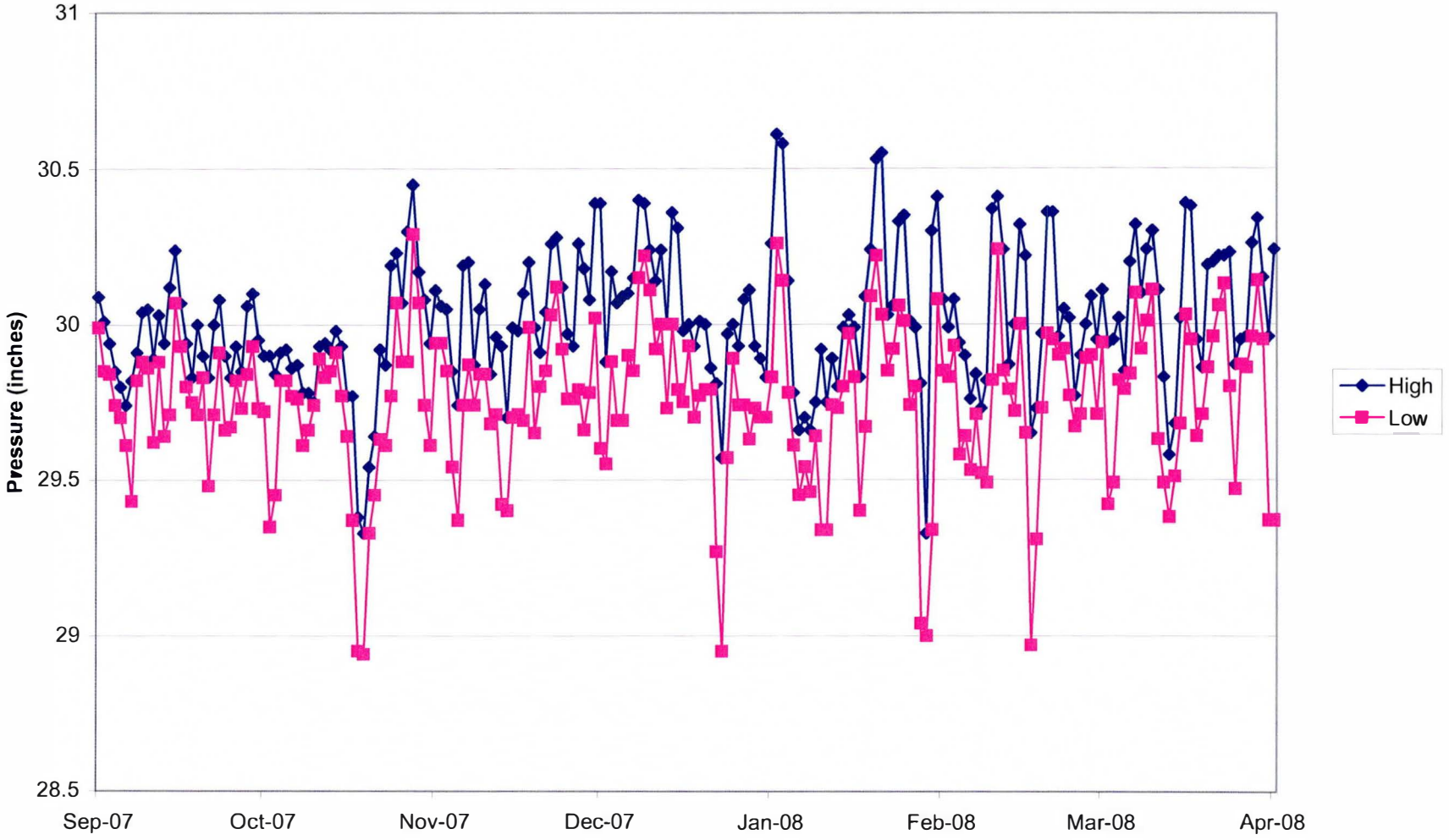
Chart 26: Barometric Pressure
(Weather Station: Ripon, WI)



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TABLES

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

(Table 1 - groundwater elevations - title found in Header so don't print this block)

Well Name	TOC Elevation	Jun-93	Oct-93	Apr-94	Oct-96	May-97	Oct-97	Apr-98	Oct-98	Oct-99	May-00	Oct-00	May-01	Oct-01	Feb-02	May-02	Aug-02	Oct-02	Dec-02	Apr-03	Oct-03	Feb-04	Apr-04
MW-101	884.80	826.56	824.20	824.04	823.41	824.34			822.08	823.17			823.13	824.17	823.18	DRY	DRY	NT	DRY	DRY	821.24	NM	822.87
P-101	885.26	826.52	824.24	824.02	823.38	824.33	823.00	820.24	822.04	823.16	822.73	822.66	823.06	824.16	823.19	800.47	814.42	NT	818.91	820.46	821.16	NM	822.86
MW-102	843.05	826.83	825.35	824.29	823.57	824.67	823.26			823.52	823.17	823.19		824.38	823.53	818.93	DRY	NT	DRY	820.95	821.57	NM	823.34
P-102	842.99	826.89	824.40	824.35	823.64	824.75	823.38	820.77	822.47	823.63	823.25		823.39	824.49	823.69	799.84	814.94	NT	819.47	821.08	821.66	NM	823.42
MW-103	872.42	823.08	821.77	819.49	820.56			819.22						821.63	>51.32	819.28	819.34	NT	DRY	DRY	819.61	NM	821.06
P-103	872.92	826.29	826.88	823.88	817.43	824.16	822.89	820.25	821.96	823.11	822.70	822.60	823.02	823.87	823.00	801.70	814.74	NT	819.01	820.52	821.12	NM	822.77
P-103D	873.08	(Installed December 2003)																				820.64	821.89
MW-104	875.15	826.32	824.12	824.02	823.14	824.13		820.13	823.87					823.88	>51.28	DRY	DRY	NT	DRY	820.37	820.85	NM	822.75
P-104	875.48	826.47	824.25	824.12	823.26	824.24	822.92	820.25	822.06	823.18	822.70	822.64	823.10	824.03	823.12	802.51	814.82	NT	819.05	820.50	821.43	NM	822.82
MW-106	878.90	826.67	824.21	824.24	820.96	824.61	823.23		822.42	823.45	823.10	822.96	823.34	Dry	823.50	DRY	DRY	NT	DRY	DRY	821.58	NM	823.25
P-106	878.91	826.63	824.09	824.07	823.42	824.51	823.16	820.40	822.33	823.38	823.02	822.89	823.26	824.25	823.39	800.31	814.52	NT	819.18	820.80	821.49	NM	823.17
MW-107	871.78	821.02	820.52	818.76	819.17	819.22		817.04	818.70	819.68			819.36	820.12	>52.5	816.72	DRY	DRY	DRY	817.73	818.35	NM	819.63
P-107	871.38	820.86	820.37	818.78	819.07	819.24	818.38	817.14	818.72	819.71	818.62	818.62	819.35	820.12	818.86	809.86	813.29	NT	816.65	817.74	818.39	NM	819.71
P-107D	871.98			819.13	817.47	819.52	818.29	816.77	817.56	817.78	817.34	818.10	819.04	816.61	817.70	811.80	815.35	816.43	816.68	817.26	816.72	NM	818.68
MW-108	845.25		819.00	817.85	818.17	818.31				818.48	817.49		818.32	818.62	>27.7	815.44	815.45	NT	815.79	816.20	816.68	NM	817.86
P-108	845.61		822.03	821.09	821.29	821.52	820.55	818.77	820.25	821.18	820.25	820.45	820.97	822.08	820.66	811.84	815.19	NT	817.83	818.57	819.26	NM	820.52
MW-111	856.46			817.58	817.93	818.10	817.29	816.29	817.33	818.30	817.28	817.32	818.15	818.74	817.51	813.43	813.59	NT	815.42	816.14	816.71	NM	818.03
P-111	856.13			817.09	817.43	817.60	816.78	815.75	816.85	817.83	816.79	816.83	817.68	818.26	817.04	812.54	812.90	NT	814.90	815.68	816.27	NM	817.59
P-111D	855.79	(Installed April 2002)														807.70	815.16	816.73	816.22	818.17	817.95	NM	819.55
MW-112	874.55				819.46	819.92	819.02		819.15	820.02	819.20	819.21	819.87	820.52	822.87	814.38	814.47	NT	816.75	817.87	818.54	NM	819.89
P-113A	833.09	(Installed September 2002)																816.09	816.39	816.93	816.20	NM	817.91
P-113B	833.10	(Installed September 2002)																816.68	816.93	817.25	816.58	816.61	818.30
P-114	839.35	(Private well converted to monitoring well in 2003)																		817.17	816.93	NM	818.55
P-115	842.71	(Private well converted to monitoring well in 2004)																				NM	818.61
P-116	845.34	(Private well converted to monitoring well in 2004)																				NM	817.54
MW-3A	850.77	(Water levels taken beginning February 2002)													817.24	810.74	815.18	816.11	815.99	816.63	815.67	NM	818.03
MW-3B	851.04	(Water levels taken beginning February 2002)													819.32	807.37	815.34	817.07	817.54	818.31	817.92	NM	819.79
LC1	876.15				849.02	847.87	846.99	846.82	846.56		846.27		846.30	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM	NM	846.45
LC2	866.05				847.25	842.91	841.20	840.61	838.31	839.29	839.17	839.28	839.03	838.92	838.97	838.83	838.98	NT	838.75	839.17	NM	NM	839.27
LC3	877.34					845.69					845.82		845.80	Dry	Dry	DRY	DRY	NT	DRY	DRY	NM	NM	DRY

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

(Table 1 - groundwater elev

Well Name	TOC Elevation	Jul-04	Oct-04	Jan-05	Apr-05	Jul-05	Oct-05	Jan-06	Mar-06	Apr-06	Jul-06	Oct-06	Jan-07	May-07	Aug-07	Oct-07	Jan-08
MW-101	884.80	825.76	823.36	822.85	823.27	821.11	DRY	820.81	NM	821.41	821.29	820.71	821.43	822.37	822.22	822.74	822.47
P-101	885.26	825.76	823.35	822.84	823.26	821.07	820.23	820.75	NM	821.37	821.22	820.69	821.34	822.32	822.18	822.68	822.43
MW-102	843.05	826.08	823.71	823.34	823.66	821.70	820.65	821.33	NM	821.91	821.75	821.15	821.73	822.85	822.55	822.95	822.95
P-102	842.99	826.17	823.79	823.38	823.75	821.48	820.72	821.41	NM	822.06	821.80	821.25	821.82	822.90	822.63	823.01	823.03
MW-103	872.42	824.54	822.24	820.52	821.60	819.70	819.25	819.24	NM	819.36	819.82	818.82	819.47	820.39	820.45	820.78	820.46
P-103	872.92	825.58	823.23	822.78	823.14	821.09	820.26	820.92	NM	821.42	821.33	820.70	821.39	822.31	822.17	822.63	822.86
P-103D	873.08	824.39	822.21	821.89	822.08	820.26	819.23	820.24	NM	820.54	820.43	819.88	820.52	821.56	821.495	822.015	821.935
MW-104	875.15	825.49	823.27	822.75	823.16	821.09	820.34	820.65	NM	821.35	821.16	820.61	821.11	822.17	822.06	822.56	822.25
P-104	875.48	825.61	823.36	822.82	823.21	821.20	820.40	820.79	NM	821.45	821.33	820.76	821.29	822.29	822.27	822.75	822.44
MW-106	878.90	826.07	823.60	823.20	823.61	821.42	DRY	821.24	NM	821.85	821.77	821.10	821.78	822.78	822.51	822.76	822.84
P-106	878.91	825.99	823.50	823.10	823.54	821.31	820.50	821.16	NM	821.72	821.67	820.99	821.62	822.71	822.44	822.7	822.75
MW-107	871.78	823.41	821.20	819.89	820.18	818.69	817.85	817.81	NM	818.03	DRY	817.90	818.29	818.87	818.97	819.12	818.88
P-107	871.38	823.34	821.20	820.91	820.20	818.72	817.84	817.80	NM	818.19	818.59	817.89	818.23	818.88	819.01	819.08	818.91
P-107D	871.98	819.78	817.72	817.65	818.77	815.90	814.85	816.33	816.45	816.89	816.83	816.24	817.05	818.27	818.79	819.93	820.32
MW-108	845.25	820.27	819.00	818.17	818.41	816.95	816.27	816.31	NM	816.70	816.88	816.39	816.64	817.39	817.96	817.99	817.5
P-108	845.61	823.39	821.94	820.84	821.05	819.76	819.13	819.04	NM	819.40	819.65	819.41	819.40	820.14	821.45	821.33	820.44
MW-111	856.46	821.40	819.60	817.39	818.69	817.32	816.51	816.31	NM	816.74	817.14	816.58	816.72	817.40	817.44	817.51	
P-111	856.13	821.01	819.16	816.92	818.19	816.82	816.03	815.84	NM	816.24	816.74	816.09	816.23	816.92	816.95	817.01	816.85
P-111D	855.79	821.82	819.77	819.55	819.55	818.11	817.37	818.40	NM	818.62	818.54	818.26	818.48	819.84	819.44	819.92	820.14
MW-112	874.55	823.17	821.14	820.15	820.50	818.82	818.14	818.31	NM	818.66	818.88	818.20	818.52	819.24	819.39	819.73	819.41
P-113A	833.09	818.17	817.32	817.28	818.35	815.50	814.36	816.40	816.04	816.39	816.54	815.81	817.29	817.78	818.13	819.42	819.91
P-113B	833.10	820.16	818.25	818.13	818.36	816.74	815.47	816.90	NM	817.01	817.57	816.81	816.70	818.11	818.26	819.09	819.35
P-114	839.35	820.44	818.71	818.50	818.76	817.02	816.34	817.28	NM	817.38	817.36	816.86	817.36	818.48	818.14	818.61	819
P-115	842.71	820.51	818.71	818.55	818.62	817.05	816.05	817.44	NM	817.56	817.50	817.12	817.62	818.72	818.375	818.815	819.185
P-116	845.34	819.31	817.80	817.47	817.74	816.45	815.48	816.02	NM	816.48	816.34	816.00	816.38	817.47	816.905	817.475	817.755
MW-3A	850.77	819.73	817.00	817.15	816.84	816.05	814.87	817.98	815.81	816.29	817.51	816.34	817.49	817.68	819.68	820.7	821.15
MW-3B	851.04	822.01	819.66	819.60	819.45	818.44	817.28	819.15	NM	818.86	819.18	818.27	818.88	819.62	820.24	820.88	821.08
LC1	876.15	NM	DRY	DRY	846.39	DRY	NM	NM	NM	843.40	847.60	847.66	NM	846.41	NM	876.15	NM
LC2	866.05	NM	838.89	DRY	839.05	838.89	838.91	839.01	NM	839.47	839.52	838.45	NM	838.63	NM	866.05	NM
LC3	877.34	NM	DRY	DRY	DRY	DRY	NM	NM	NM	845.89	845.87	844.68	NM	846.12	NM	877.34	NM

Table 2 - Groundwater VOC Analytical Results for Private Drinking Water Wells
FF/NN Landfill, Ripon, WI

		Parameters										
		VOC's							Inorganic			
Private Well ID	Sampling Date	Carbon disulfide *	Methyl ethyl ketone *	Chloromethane	cis-1,2-Dichloroethene	Napthalene	Toluene	Vinyl Chloride	Alkalinity	COD	Chloride	Hardness
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
Regularly Monitored Wells												
Baneck, Perry/Watkins	5/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 [1]	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/5/2002	NA	NA	ND	ND	ND	ND	ND	280	3.2	ND	280
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	300	ND	ND	290
	5/22/2002 Dup	NA	NA	ND	ND	ND	ND	ND	300	ND	ND	290
	8/19/2002	ND	ND	ND	ND	ND	ND	ND	300	[3.0]	ND	290
	12/3/2002	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	0.071 QB	ND	ND	NA	NA	NA	NA
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	01/31/06	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/27/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/8/2007 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	0.75 Q	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Gaastra	5/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 [1]	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/5/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	280
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	270
	8/19/2002	ND	ND	0.24Q	ND	ND	ND	ND	300	ND	ND	280
	12/3/2002	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2003 dup	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/04	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	0.071 QB	ND	ND	ND	ND	ND	ND
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	01/31/06	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/27/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/1/2007 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	0.99 Q	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

Table 2 - Groundwater VOC Analytical Results for Private Drinking Water Wells
FF/NN Landfill, Ripon, WI

		Parameters										
		VOC's							Inorganic			
Private Well ID	Sampling Date	Carbon disulfide *	Methyl ethyl ketone *	Chloromethane	cis-1,2-Dichloroethene	Napthalene	Toluene	Vinyl Chloride	Alkalinity	COD	Chloride	Hardness
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L
Rohde	10/9/2001	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	11/19/2001 [1]	NA	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/4/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	300
	5/22/2002	NA	NA	ND	ND	ND	ND	ND	290	ND	ND	290
	8/20/2002	ND	ND	ND	ND	ND	ND	ND	300	ND	ND	290
	4/22/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/23/2003	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/23/2003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	07/22/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/12/2004	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/28/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/27/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/2/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/26/2005	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/1/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	4/28/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	7/28/2006 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/31/2006	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	2/8/2007 [1]	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	5/1/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	8/9/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	10/22/2007	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
	1/25/2008	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA

Underline values indicate PAL exceedance
Bold values indicate ES exceedance
Q = detected at less than quantitation limit
B= detected in trip blank
ND= not detected above the level of detection
NA = not analyzed
NR = not required to analyze

PAL = Preventive Action Limit
ES = Enforcement Standard

[1] Methylene Chloride was detected and is assumed to be a laboratory artifact
Monitoring began in 1993. See prior report submittals to WDNR for results prior to 2001.
See Table 2 for monitoring wells for Ehster, Hadel and Wiese data
*Began analyzing using method 542.2 with August 2002 event

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
Extraction Points			variable	variable	<5	<40			target percentages
GV-1	11:33	3/20/2006	10.2	8.1	14.9	66.8			pre-startup
	10:08	3/22/2006	17.2	11.7	14.8	56.3			
	11:33	3/22/2006	10.2	8.1	14.9	66.8			
	15:38	3/22/2006	48.6	29.2	1.4	20.8			
	8:39	3/23/2006	43.2	26.9	1.0	28.9			
	16:40	3/23/2006	41.1	21.9	2.4	34.6			
	15:00	3/24/2006	11.5	8.6	13.4	68.5			
	14:50	3/28/2006	8.7	7.4	13.4	70.5			
	19:02	3/30/2006	21.1	19.6	2.4	56.9	8	1	
	13:20	4/5/2006	23.0	17.0	9.8	50.2			
	13:15	4/6/2006	8.0	8.2	13.3	70.5			
	13:30	4/11/2006	10.2	13.4	6.7	69.7			
	10:51	4/14/2006	12.1	16.6	2.3	69.0	0	0	
	15:32	4/14/2006	22.8	24.9	1.0	51.3	430	34	
	10:15	4/17/2006	19.6	24.6	5.0	50.8			
	19:36	4/27/2006	11.3	16.8	1.9	70.0	315	25	
	13:22	5/4/2006	0.4	0.1	2.5	97.0			
	10:30	5/22/2006	5.9	19.0	3.0	72.1			
	14:32	6/2/2006	6.6	19.5	3.4	70.5			
	8:35	6/9/2006	7.9	17.8	6.4	67.9			
	12:04	6/14/2006	7.1	10.8	15.4	66.7			
	10:57	6/22/2006	6.3	19.5	5.6	68.6			
	11:31	7/5/2006	5.3	20.0	5.9	68.8			
	10:45	7/10/2006	4.7	18.8	5.2	71.3			
	10:11	7/17/2006	5.7	19.8	5.7	68.8			
	14:11	7/28/2006	5.8	19.7	5.3	69.2			
	10:04	8/8/2006	4.6	18.2	6.4	70.8			
	9:16	8/16/2006	2.4	1.3	7.1	89.2			
	8:33	8/21/2006	4.3	18.0	7.5	70.2			
	2:18	8/28/2006	3.4	18.2	8.1	70.3			
	11:31	9/13/2006	8.1	0.0	8.9	83.0			
	11:29	9/25/2006	0.3	0.6	4.9	94.2			
	8:29	10/10/2006	4.0	11.6	13.0	71.4			
	8:35	10/23/2006	0.7	0.1	20.4	78.8			
	14:16	11/2/2006	4.9	13.8	8.6	72.8			
	15:04	11/14/2006	0.3	0.0	20.1	79.7			
	11:31	11/27/2006	0.2	0.0	20.2	79.7			
	13:19	12/26/2006	4.9	14.0	7.3	73.8			
	12:58	1/27/2007	3.3	12.6	7.4	76.7			
	9:28	2/15/2007	0.3	5.6	14.2	80.0			
	11:45	2/24/2007	0.6	5.4	15.1	78.9			
	9:38	3/1/2007	7.5	18.6	0.9	73.0			
	10:07	3/1/2007	6.5	18.0	1.7	73.8	60	5	
	11:11	3/1/2007	7.0	18.0	2.1	72.9			
	12:20	3/1/2007	6.5	18.4	2.2	72.9			
	13:40	3/1/2007	5.5	17.8	3.2	73.5	80	6	
	13:42	3/1/2007	6.0	17.4	3.8	72.8	100	8	
	14:36	3/1/2007	5.5	16.4	4.2	73.9	20	2	
	7:45	3/5/2007	0.3	3.2	16.6	79.9			adjust blower time, 12 on, 12 off
	7:45	3/24/2007	1.4	11.2	8.0	79.5			
	16:32	3/24/2007	1.1	10.4	9.0	79.5			
	16:45	3/26/2007	0.5	8.6	10.7	80.2			
	7:05	3/27/2007	0.4	8.0	11.8	79.9			
	16:50	3/28/2007	0.6	8.8	11.7	78.9			
	7:35	3/29/2007	0.3	9.0	10.6	80.1			
	16:38	3/29/2007	0.4	8.6	11.2	79.8			
	7:35	3/30/2007	8.0	17.8	1.6	72.6			blower off
	10:42	5/30/2007	29.5	25.0	0.8	44.7	110	9	restart and run 24 hrs
	13:50	5/30/2007	23.5	23.6	1.2	51.7			
	10:05	5/31/2007	8.5	17.4	2.3	71.8			reduce to 12 on 12 off
	16:05	6/1/2007	5.5	15.8	3.0	75.7			
	15:10	6/2/2007	4.8	15.0	3.2	77.1			
	15:40	6/3/2007	4.0	14.6	3.6	77.8			
	13:50	6/4/2007	3.0	14.0	4.7	78.3			reduce to 6 on 18 off
	14:23	6/7/2007	7.0	16.8	2.2	74.0			
	16:05	6/12/2007	0.9	11.2	9.6	78.3	112	9	
	13:45	6/14/2007	1.5	12.0	8.3	78.3	59	5	
	13:45	6/19/2007	1.4	12.2	8.5	78.0	96	8	
		6/21/2007							vent closed

	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Velocity feet/min	Extraction CFM*	Comments
GV-4	11:23	3/20/2006	15.6	15.9	9.1	59.4			pre-startup
	10:04	3/22/2006	45.0	26.7	2.7	25.6			
	15:30	3/22/2006	54.0	32.9	0.9	12.2			
	8:33	3/23/2006	50.6	32.3	0.9	16.2			
	16:32	3/23/2006	42.4	26.0	0.8	30.8			
	14:56	3/24/2006	30.0	15.7	16.0	38.3			
	14:20	3/28/2006	10.5	9.9	8.9	70.7			
	19:25	3/30/2006	27.4	25.4	1.6	45.6	270	21	
	13:15	4/5/2006	16.0	16.9	8.2	58.9			
	12:45	4/6/2006	14.2	15.1	8.8	61.9			
	13:05	4/11/2006	11.7	12.9	11.5	63.9			
	10:47	4/14/2006	22.7	23.6	1.6	52.1	330	26	
	15:24	4/14/2006	15.5	30.4	2.5	51.6	435	34	
	9:55	4/17/2006	10.0	15.5	7.6	66.9			
	19:25	4/27/2006	8.1	15.2	3.7	73.0	400	31	
	13:07	5/4/2006	7.4	15.3	5.3	72.0			
	10:15	5/22/2006	6.8	16.4	5.8	71.0			
	14:45	6/2/2006	14.1	31.6	5.1	49.2			
	8:18	6/9/2006	10.1	0.6	8.0	81.3			
	12:32	6/14/2006	10.4	21.1	7.7	60.8			
	11:30	6/22/2006	0.6	0.4	19.9	79.1			
	12:04	7/5/2006	12.7	8.8	5.1	73.4			
	11:28	7/10/2006	6.3	24.5	2.5	66.7			
	10:48	7/17/2006	5.7	21.0	5.4	67.9			
	13:58	7/28/2006	8.0	25.3	2.8	63.9			
	9:44	8/8/2006	6.2	23.0	4.0	66.8			
	9:03	8/16/2006	6.1	23.2	4.0	66.7			
	8:17	8/21/2006	7.0	0.5	4.6	87.9			
	2:06	8/28/2006	7.4	25.9	3.9	62.8			
	11:20	9/13/2006	8.1	0.1	3.3	88.5			
	11:17	9/25/2006	10.1	0.3	1.3	88.3			
	8:17	10/10/2006	7.4	25.4	3.4	63.8			
	8:17	10/23/2006	7.8	24.0	6.3	61.9			
	13:45	11/2/2006	6.0	20.4	4.2	69.4			
	14:51	11/14/2006	8.0	16.6	6.4	69.0			
	11:25	11/27/2006	4.0	14.8	6.3	75.0			
	12:50	12/26/2006	4.4	18.8	3.1	73.7			
	13:42	1/27/2007	9.0	20.4	2.7	67.9			
	9:26	2/15/2007	0.5	14.4	3.8	81.3			
	11:18	2/24/2007	3.2	14.8	6.7	75.3			
	9:32	3/1/2007	16.5	22.2	0.2	61.1			
	9:50	3/1/2007	16.5	22.6	0.8	60.1	60	5	
	11:05	3/1/2007	12.0	19.8	1.2	67.0			
	12:13	3/1/2007	12.0	19.2	1.2	67.6			
	13:15	3/1/2007	10.5	19.0	1.2	69.3	90	7	
	13:17	3/1/2007	10.5	19.2	1.0	69.3	120	9	
	14:25	3/1/2007	9.5	1.2	17.6	71.7	20	2	
	8:15	3/5/2007	6.0	16.8	3.2	74.0			adjust blower time, 12 on, 12 off
	8:15	3/24/2007	9.5	21.8	1.0	67.7			
	17:00	3/24/2007	7.0	20.8	1.3	70.9			
	17:14	3/26/2007	2.6	19.2	2.1	76.1			
	7:33	3/27/2007	1.7	18.8	2.8	76.7			
	16:24	3/28/2007	2.5	19.2	1.9	76.4			
	8:08	3/29/2007	2.9	19.2	1.5	76.4			
	17:04	3/29/2007	3.3	19.2	1.7	75.9			
	8:08	3/30/2007	8.5	20.6	0.2	70.7			blower off
	10:54	5/30/2007	39.5	27.4	0.2	32.9	130	10	restart and run 24 hrs
	13:34	5/30/2007	37.5	26.8	0.2	35.5			
	10:35	5/31/2007	16.5	23.8	0.2	59.5			reduce to 12 on 12 off
	16:36	6/1/2007	12.5	22.5	0.4	64.6			
	15:33	6/2/2007	11.0	22.4	0.4	66.2			
	16:13	6/3/2007	9.5	21.8	0.3	68.4			
	14:15	6/4/2007	6.5	21.6	0.4	71.5			reduce to 6 on 18 off
	14:59	6/7/2007	9.5	22.2	0.1	68.2			
	17:25	6/12/2007	4.4	20.8	1.0	73.8	47	4	
	14:40	6/14/2007	4.3	20.6	0.5	74.7	35	3	
	14:50	6/19/2007	5.0	21.0	0.8	73.2	73	6	
	14:50	6/21/2007	7.5	21.6	0.7	70.2	89	7	
	14:40	7/11/2007	10.5	23.0	0.4	66.1	33	3	
	14:08	7/23/2007	12.5	23.6	0.4	63.5	85	7	
	14:06	8/8/2007	13.0	24.0	0.4	62.6			
	13:40	8/13/2007	10.0	23.4	0.9	65.7	79	6	
	13:50	8/20/2007	4.6	21.6	0.8	73.0	122	10	
	14:35	8/28/2007	3.1	20.2	0.9	75.8	242	19	
		8/31/2007							vent closed

	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Velocity feet/min	Extraction CFM*	Comments
GV-6	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	295	23	
	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	305	24	
	15:53	4/14/2006	21.3	28.5	5.4	44.8	225	13	
	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	215	17	
	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	40	3	
	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	80	6	
	14:00	3/1/2007	7.0	15.5	4.2	73.3	120	9	
	14:40	3/1/2007	6.0	14.4	5.2	74.4	20	2	
	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			
	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	80	6	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	147	11	
	15:00	6/14/2007	14.0	21.8	0.6	63.6	122	10	
	14:30	6/19/2007	13.0	22.8	0.7	63.5	71	6	
	14:30	6/21/2007	15.0	21.8	1.4	61.8	93	7	
	14:20	7/11/2007	14.0	20.2	3.1	62.7	118	9	
	14:20	7/23/2007	15.0	21.0	3.3	60.7	98	8	
	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	41	3	
	14:20	8/20/2007	9.5	18.0	5.1	67.4	81	6	
	14:15	8/28/2007	9.0	18.6	4.4	68.0	150	12	
	15:50	8/31/2007	6.0	19.2	2.5	72.3	65	5	
	14:45	9/4/2007	6.0	18.2	3.2	72.6	54	4	
	13:15	9/17/2007	5.0	16.8	4.3	73.9	73	6	
	9:35	9/29/2007	4.7	16.8	4.3	74.2	85	7	
	8:35	10/4/2007	4.4	16.2	4.7	74.8	57	4	
	9:35	10/7/2007	4.7	17.0	3.6	74.7	71	6	
	9:40	10/18/2007	7.5	20.0	0.6	71.9	65	5	
	9:10	10/25/2007	7.0	2.0	0.5	90.5	47	4	
	9:10	11/1/2007	7.0	20.6	0.2	72.2	31	2	
	10:05	11/13/2007	17.5	22.0	0.7	59.8	61	5	
	11:20	11/26/2007	6.0	15.6	5.5	72.9	54	4	reduce to 12 on 12 off
	10:50	12/10/2007	7.0	16.8	4.8	71.4	37	3	reduce to 10 on 14 off
	11:40	12/26/2007	6.5	15.6	4.9	73.0	49	4	reduce to 8 on 16 off
GV-6	10:05	1/9/2008	6.0	15.6	4.9	73.5	47	4	

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
	12:05	1/23/2008	5.5	13.4	7.3	73.8	31	2	
	9:10	2/4/2008	12.5	19.4	0.9	67.2	57	4	
	7:40	2/18/2008	17.0	20.4	0.7	61.9	47	4	
	7:20	3/4/2008	21.0	21.0	0.9	57.1	73	6	
	8:35	3/18/2008	31.0	22.8	0.8	45.4	71	6	

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GV-7	11:17	3/20/2006	9.3	6.8	15.8	68.1			pre-startup
	9:58	3/22/2006	44.0	24.8	1.3	29.9			
	15:46	3/22/2006	11.1	24.5	1.3	63.1			
	8:44	3/23/2006	36.7	25.0	1.6	36.7			
	14:40	3/24/2006	8.2	6.8	15.3	69.7			
	14:40	3/28/2006	8.5	8.3	12.7	70.5			
	19:13	3/30/2006	19.8	18.8	3.2	58.2	311	24	
	13:30	4/5/2006	11.5	12.5	9.8	66.2			
	13:00	4/6/2006	8.1	8.5	12.5	70.9			
	13:15	4/11/2006	13.9	16.6	4.8	64.7			
	10:55	4/14/2006	13.9	17.1	2.3	66.7	340	27	
	15:39	4/14/2006	28.6	29.2	3.5	38.7	280	22	
	10:05	4/17/2006	13.1	18.3	7.9	60.7			
	19:45	4/27/2006	8.7	13.6	5.4	72.3	226	18	
	13:17	5/4/2006	0.0	0.0	6.3	93.7			
	10:23	5/22/2006	6.7	15.1	7.0	71.2			
	8:26	6/9/2006	9.8	24.8	9.1	56.3			
	12:40	6/14/2006	8.2	13.5	8.7	69.6			
	10:48	6/22/2006	5.6	15.4	7.8	71.2			
	12:14	7/5/2006	5.2	17.1	7.4	70.3			
	11:35	7/10/2006	0.0	0.0	5.6	94.4			
	11:00	7/17/2006	4.6	16.4	7.0	72.0			
	14:07	7/28/2006	6.2	16.7	6.7	70.4			
	9:59	8/8/2006	4.9	15.6	7.9	71.6			
	9:08	8/16/2006	5.6	15.1	8.3	71.0			
	8:25	8/21/2006	1.6	4.2	9.3	64.9			
	2:12	8/28/2006	5.2	14.8	8.8	71.2			
	11:25	9/13/2006	4.6	13.3	9.9	72.2			
	11:23	9/25/2006	6.8	0.5	5.1	87.6			
	8:22	10/10/2006	5.2	13.8	11.3	69.7			
	8:24	10/23/2006	2.4	3.0	16.0	78.6			
	14:10	11/2/2006	6.5	13.0	9.4	71.1			
	14:59	11/14/2006	2.6	8.6	11.5	77.3			
	11:30	11/27/2006	2.7	8.6	11.7	77.1			
	13:05	12/26/2006	9.0	16.0	6.0	69.0			
	14:12	1/27/2007	8.0	4.8	5.4	81.8			
	9:33	2/15/2007	0.9	15.0	3.3	80.8			
	11:30	2/24/2007	sampling port clogged with ice						
	9:43	3/1/2007	30.5	27.2	0.3	42.0			
	10:20	3/1/2007	18.5	23.4	0.7	57.4	60	5	
	11:17	3/1/2007	20.5	24.2	0.4	54.9			
	12:24	3/1/2007	17.0	23.0	0.4	59.6			
	14:04	3/1/2007	17.5	23.0	0.8	58.7	130	10	
	14:42	3/1/2007	16.0	22.0	1.5	60.5	20	2	
	7:55	3/5/2007	4.9	17.4	2.6	75.1			adjust blower time, 12 on, 12 off
	7:55	3/24/2007	7.0	12.2	6.6	74.2			
	16:37	3/24/2007	6.5	12.0	6.7	74.8			
	16:56	3/26/2007	5.0	11.4	7.4	76.2			
	7:14	3/27/2007	4.1	10.4	8.9	76.6			
	16:38	3/28/2007	4.6	11.6	8.0	75.8			
	7:45	3/29/2007	4.2	12.6	6.3	77.0			
	16:47	3/29/2007	4.9	12.4	6.8	76.0			
	7:40	3/30/2007	4.0	14.2	4.5	77.4			blower off
	10:50	5/30/2007	35.5	26.2	0.5	37.8	70	5	restart and run 24 hrs
	13:42	5/30/2007	28.5	21.4	1.4	48.7			
	10:15	5/31/2007	16.5	17.4	2.7	63.4			reduce to 12 on 12 off
	16:15	6/1/2007	15.0	17.0	2.7	65.3			
	15:17	6/2/2007	14.0	16.8	3.0	66.2			
	15:48	6/3/2007	13.5	16.6	3.1	66.8			
	13:54	6/4/2007	11.5	15.6	4.0	68.9			reduce to 6 on 18 off
	14:32	6/7/2007	15.0	18.0	2.1	64.9			
	16:25	6/12/2007	8.0	14.2	6.2	71.6	41	3	
	14:05	6/14/2007	9.5	15.0	5.6	69.9	47	4	
	13:45	6/19/2007	8.0	14.2	6.7	71.1	126	10	
		6/21/2007							vent closed

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GV-9	11:13	3/20/2006	16.8	14.0	9.7	59.5			pre-startup
	9:56	3/22/2006	42.7	27.8	0.8	28.7			
	15:42	3/22/2006	47.8	30.5	1.3	20.4			
	8:42	3/23/2006	49.0	31.4	1.0	18.6			
	16:43	3/23/2006	56.4	36.6	0.9	6.1			
	16:48	3/23/2006	38.0	28.3	1.7	32.0			
	15:10	3/24/2006	11.2	9.3	14.0	65.5			
	15:00	3/28/2006	8.8	8.9	12.8	69.5			
	19:05	3/30/2006	25.8	26.3	1.5	46.4	236	18	
	13:40	4/5/2006	14.1	17.7	7.8	60.4			
	13:20	4/6/2006	11.0	13.7	10.0	65.3			
	13:25	4/11/2006	8.9	11.8	11.2	68.1			
	10:53	4/14/2006	15.7	20.6	1.4	62.3	270	21	
	15:36	4/14/2006	12.8	19.0	2.9	65.3	390	30	
	10:20	4/17/2006	11.2	15.7	11.6	61.5			
	19:40	4/27/2006	9.6	16.8	3.7	69.9	311	24	
	13:24	5/4/2006	0.0	0.1	3.7	96.2			
	10:33	5/22/2006	6.3	17.9	4.4	71.4			
	8:38	6/9/2006	5.2	15.6	7.0	72.2			
	13:00	6/14/2006	12.4	31.0	6.1	50.5			
	11:01	6/22/2006	5.1	18.4	5.9	70.6			
	11:35	7/5/2006	5.8	20.5	4.8	68.9			
	10:48	7/10/2006	0.9	22.4	2.8	73.9			
	10:14	7/17/2006	6.0	20.6	5.6	67.8			
	14:12	7/28/2006	7.0	20.7	4.4	67.9			
	10:06	8/8/2006	5.4	19.6	5.3	69.7			
	9:25	8/16/2006	9.8	6.4	6.0	77.8			
	8:35	8/21/2006	0.4	0.8	6.9	91.9			
	2:20	8/28/2006	5.6	18.8	7.2	68.4			
	11:34	9/13/2006	0.6	1.4	6.9	91.1			
	11:31	9/25/2006	7.0	0.7	6.4	85.9			
	8:30	10/10/2006	5.9	18.2	7.4	68.5			
	8:39	10/23/2006	6.8	19.2	7.0	67.0			
	14:18	11/2/2006	4.6	14.6	7.2	73.7			
	15:13	11/14/2006	4.2	14.0	7.4	74.5			
	11:35	11/27/2006	3.2	14.0	7.4	75.4			
	13:25	12/26/2006	7.5	17.4	4.5	70.6			
	13:05	1/27/2007	6.5	14.8	6.8	71.9			
	9:30	2/15/2007	0.4	15.8	4.0	79.8			
	11:50	2/24/2007	7.0	12.2	8.6	72.2			
	9:36	3/1/2007	18.0	22.0	0.3	59.7			
	10:03	3/1/2007	11.5	18.2	2.1	68.2	60	5	
	11:09	3/1/2007	6.0	14.5	4.9	74.6			
	11:24	3/1/2007	5.5	14.4	5.3	74.8			
	12:18	3/1/2007	5.0	13.8	5.4	75.8			
	13:25	3/1/2007	2.6	12.6	6.7	78.1	70	5	
	13:35	3/1/2007	2.2	6.8	12.6	78.5	20	2	
	14:34	3/1/2007	0.7	10.6	7.9	80.9			
	7:40	3/5/2007	0.2	0.0	20.1	79.8			adjust blower time, 12 on, 12 off
	8:25	3/24/2007	7.0	15.6	5.4	72.0			
	17:15	3/24/2007	7.0	15.8	4.9	72.3			
	17:35	3/26/2007	5.5	15.6	4.8	74.1			
	7:45	3/27/2007	4.9	14.8	5.6	74.8			
	17:05	3/28/2007	5.5	16.0	5.0	73.5			
	8:22	3/29/2007	4.9	15.8	4.6	74.7			
	17:25	3/29/2007	5.5	16.0	4.7	73.8			
	8:20	3/30/2007	1.2	15.2	4.0	79.7			blower off
	10:27	5/30/2007	27.5	24.8	0.4	47.3	110	9	restart and run 24 hrs
	13:48	5/30/2007	23.5	24.0	0.4	52.1			
	10:00	5/31/2007	17.5	20.8	1.2	60.5			reduce to 12 on 12 off
	16:20	6/1/2007	17.0	20.8	1.0	61.2			
	15:45	6/2/2007	16.0	20.8	0.9	62.3			
	15:55	6/3/2007	16.0	20.4	1.1	62.5			
	13:58	6/4/2007	14.5	19.8	1.5	64.2			reduce to 6 on 18 off
	14:37	6/7/2007	15.0	24.0	0.6	60.4			
	16:35	6/12/2007	11.5	19.2	2.6	66.7	148	12	
	14:14	6/14/2007	11.0	19.0	2.5	67.5	33	3	
	14:05	6/19/2007	10.0	19.0	2.8	68.2	138	11	
	13:50	6/21/2007	7.5	16.6	4.8	71.1	94	7	
	13:40	7/11/2007	7.0	16.8	4.7	71.5	106	8	
	13:20	7/23/2007	7.5	17.4	4.6	70.5	120	9	
	14:15	8/8/2007	7.5	17.2	5.0	70.3			
		8/13/2007							vent closed

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GV-12	11:05	3/20/2006	11.5	17.7	5.4	65.4			pre-startup
	9:50	3/22/2006	36.0	26.8	2.1	35.1			
	10:16	3/22/2006	34.8	24.3	1.9	39.0			
	15:28	3/22/2006	34.4	26.0	0.8	38.8			
	8:25	3/23/2006	32.9	31.0	2.1	34.0			
	16:30	3/23/2006	24.1	20.2	2.7	53.0			
	14:20	3/24/2006	4.7	4.8	17.1	73.4			
	14:10	3/28/2006	4.4	5.5	9.9	80.2			
	19:28	3/30/2006	13.1	16.7	5.8	64.4	630	49	
	13:10	4/5/2006	6.7	9.4	12.4	71.5			
	12:40	4/6/2006	6.8	9.0	12.3	71.9			
	13:00	4/11/2006	5.4	8.3	13.0	73.3			
	10:42	4/14/2006	11.3	17.8	3.6	67.3	720	56	
	15:19	4/14/2006	4.5	10.7	9.2	75.6	378	30	
	9:50	4/17/2006	2.1	6.1	14.5	77.3			
	19:16	4/27/2006	3.7	9.2	9.6	77.5			
	13:04	5/4/2006	3.8	9.8	10.4	76.0			
	10:12	5/22/2006	3.0	10.8	10.2	76.0			
	8:15	6/9/2006	3.9	11.9	11.5	72.7			
	12:29	6/14/2006	5.9	14.2	10.5	69.4			
	10:36	6/22/2006	4.3	13.2	9.7	72.8			
	12:01	7/5/2006	3.4	13.0	10.5	73.1			
	11:25	7/10/2006	5.3	20.0	4.1	70.6			
	10:45	7/17/2006	3.4	14.4	8.7	73.5			
	13:55	7/28/2006	4.5	18.1	6.5	70.9			
	9:40	8/8/2006	4.1	17.2	6.7	72.0			
	9:35	8/16/2006	0.7	2.8	17.5	79.0			
	8:14	8/21/2006	0.1	0.2	6.5	93.2			
	2:05	8/28/2006	5.3	18.7	6.7	69.3			
	11:16	9/13/2006	0.6	1.7	7.4	90.3			
	11:15	9/25/2006	12.6	27.8	2.1	57.5			
	8:15	10/10/2006	5.3	18.7	16.6	59.4			
	8:15	10/23/2006	4.7	18.7	9.0	67.6			
	14:44	11/2/2006	0.3	4.2	16.0	79.5			
	13:48	11/14/2006	5.0	16.2	4.8	74.0			
	11:22	11/27/2006	3.5	14.2	6.4	76.0			
	12:45	12/26/2006	3.9	13.2	7.6	75.4			
	13:23	1/27/2007	18.0	6.8	14.7	60.5			
	9:25	2/15/2007	0.3	0.6	19.5	79.7			
	9:37	2/15/2007	0.3	1.2	18.8	79.7			
	11:05	2/24/2007	0.4	1.2	19.3	79.1			
	9:34	3/1/2007	20.0	23.6	0.4	56.0			
	9:56	3/1/2007	19.0	23.4	0.2	57.4	60	5	
	11:07	3/1/2007	17.0	22.6	0.3	60.1			
	12:16	3/1/2007	14.5	21.4	0.2	63.9			
	13:19	3/1/2007	13.5	21.8	0.2	64.5	80	6	
	13:20	3/1/2007	15.0	22.6	0.3	62.1	120	9	
	14:27	3/1/2007	12.5	20.8	0.5	66.2	20	2	
	8:20	3/5/2007	6.0	18.2	2.1	73.7			adjust blower time, 12 on, 12 off
	8:15	3/24/2007	1.1	14.2	7.9	76.9			
	17:05	3/24/2007	0.8	14.2	7.6	77.4			
	17:20	3/26/2007	0.2	11.4	9.3	79.1			
	7:36	3/27/2007	0.2	9.8	10.8	79.2			
	17:45	3/28/2007	0.5	12.0	7.7	79.8			
	8:15	3/29/2007	0.4	13.2	4.2	82.2			
	17:10	3/29/2007	0.4	12.6	6.3	80.7			
	8:15	3/30/2007	9.0	20.6	0.3	70.1			blower off
	11:07	5/30/2007	20.0	24.8	0.2	55.0	110	9	restart and run 24 hrs
	13:32	5/30/2007	13.0	24.0	0.4	62.6			
	10:40	5/31/2007	3.1	17.4	5.4	74.1			reduce to 12 on 12 off
	16:40	6/1/2007	2.5	17.2	3.6	76.7			
	15:37	6/2/2007	2.3	17.2	3.4	77.1			
	16:15	6/3/2007	1.9	16.8	2.8	78.5			
	14:20	6/4/2007	1.5	16.6	3.3	78.7			reduce to 6 on 18 off
	14:53	6/7/2007	3.9	18.2	2.2	75.8			
	17:08	6/12/2007	0.3	13.8	5.6	80.3	38	3	
	14:30	6/14/2007	0.8	15.4	1.9	81.9	87	7	
	14:20	6/19/2007	1.1	15.6	4.8	78.5	91	7	
	14:20	6/21/2007	1.5	16.8	2.7	79.0	53	4	
	14:10	7/11/2007	3.9	20.2	0.5	75.5	73	6	
	13:45	7/23/2007	4.5	20.8	0.3	74.5	61	5	
	14:21	8/8/2007	4.9	21.6	0.1	73.5			
	14:10	8/13/2007	4.1	21.6	0.0	74.4	81	6	
	13:40	8/20/2007	1.1	17.0	3.3	78.6	85	7	
	14:05	8/28/2007	0.5	15.0	4.7	79.8	96	8	
		8/31/2007							vent closed

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
LC-1	11:31	3/20/2006	61.5	37.7	0.7	0.1			pre-startup
	10:02	3/22/2006	43.6	26.3	6.4	23.7			
	15:32	3/22/2006	56.0	33.3	3.8	6.9			
	8:29	3/23/2006	50.1	29.5	4.3	16.1			
	16:35	3/23/2006	44.2	24.6	4.9	26.3			
	15:40	3/24/2006	18.8	11.8	15.9	53.5			
	14:25	3/28/2006	7.0	8.7	10.8	73.5			
	18:58	3/30/2006	15.8	21.0	6.9	56.3	4	0	
	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	2	0	
	15:26	4/14/2006	12.2	24.1	4.0	59.7	30	2	
	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	35	3	
	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	41	3	
	8:20	6/9/2006	1.1	0.2	20.4	78.3			
	12:34	6/14/2006	3.9	0.6	20.2	75.3			
	10:41	6/22/2006	3.3	7.6	13.8	75.3			
	12:06	7/5/2006	3.7	12.5	10.1	73.7			
	11:31	7/10/2006	3.5	10.9	11.8	73.8			
	10:49	7/17/2006	3.9	10.7	11.8	73.6			
	14:00	7/28/2006	5.0	12.0	10.2	72.8			
	9:46	8/8/2006	2.7	9.5	12.9	74.9			
	7:20	8/16/2006	2.4	6.6	14.5	76.5			
	7:12	8/21/2006	0.1	0.2	15.1	84.6			
	14:07	8/28/2006	2.1	12.5	12.4	73.0			
	11:21	9/13/2006	0.6	0.6	13.3	85.5			
	11:19	9/25/2006	0.0	0.0	16.2	83.8			
	8:18	10/10/2006	2.7	8.4	14.8	74.1			
	8:19	10/23/2006	2.0	1.5	12.8	83.7			
	14:00	11/2/2006	3.8	21.6	1.7	72.9			
	14:54	11/14/2006	7.5	23.0	0.7	68.8			
	11:26	11/27/2006	5.5	23.0	0.4	71.1			
	12:57	12/26/2006	5.0	23.6	0.3	71.1			
	13:57	1/27/2007	9.5	22.8	0.3	67.4			
	11:20	2/24/2007	6.5	23.0	0.8	69.7			
	11:20	3/1/2007	17.5	23.2	1.8	57.5			
	12:28	3/1/2007	16.5	23.2	1.8	58.5	40	3	
	14:30	3/1/2007	15.5	22.8	1.6	60.1			
	8:10	3/5/2007	sampling port clogged with ice						adjust blower time, 12 on, 12 off
	8:10	3/24/2007	15.5	23.0	1.8	59.7			
	16:55	3/24/2007	14.0	22.2	2.2	61.6			
	17:10	3/26/2007	11.0	21.6	2.2	65.2			
	7:28	3/27/2007	10.0	22.4	1.7	65.9			
	16:27	3/28/2007	11.0	22.8	1.5	64.7			
	8:04	3/29/2007	11.5	23.0	1.5	64.0			
	17:00	3/29/2007	11.0	22.8	1.5	64.7			
	8:04	3/30/2007	13.0	24.0	1.0	62.0			blower off
	11:34	5/30/2007	43.0	28.0	2.0	27.0	250	12	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	978	48	
	14:49	6/14/2007	11.0	20.8	2.2	66.0	1224	60	
	14:40	6/19/2007	10.5	21.0	2.2	66.3	1071	53	
	14:40	6/21/2007	11.0	21.2	2.0	65.8	1014	50	
	14:30	7/11/2007	11.5	21.4	2.0	65.1	1730	85	
	14:00	7/23/2007	12.0	21.8	2.0	64.2	902	44	
	14:07	8/8/2007	12.0	21.6	2.2	64.2			
	13:30	8/13/2007	13.5	22.8	2.2	61.5	740	36	
	14:10	8/20/2007	10.0	21.4	2.8	65.8	1425	70	
	14:25	8/28/2007	8.5	20.8	2.7	68.0	972	48	
	15:55	8/31/2007	5.5	18.2	4.2	72.1	1224	60	
	14:55	9/4/2007	4.5	17.2	4.1	74.3	1026	50	
	13:25	9/17/2007	3.2	15.4	5.1	76.4	1164	57	
	9:50	9/29/2007	3.0	15.2	5.6	76.2	903	44	
	8:45	10/4/2007	3.1	15.2	5.6	76.1	850	42	
	9:45	10/7/2007	3.7	15.6	4.8	75.9	1045	51	
	9:50	10/18/2007	6.0	17.0	3.6	73.4	1024	50	
	9:00	10/25/2007	5.0	17.2	3.8	74.0	677	33	
	9:20	11/1/2007	6.0	18.6	2.2	73.2	541	27	
	10:25	11/13/2007	11.5	18.6	3.4	66.5	951	47	
	11:30	11/26/2007	4.8	16.2	4.8	74.3	941	46	
	11:00	12/10/2007	5.0	16.0	5.4	73.6	1071	53	
	11:50	12/26/2007	5.5	16.6	4.3	73.6	648	32	
	10:15	1/9/2008	6.0	17.0	3.7	73.3	764	37	
	12:10	1/23/2008	5.0	15.8	5.2	74.0	463	23	
	9:20	2/4/2008	8.0	17.4	3.3	71.3	472	23	
	7:50	2/18/2008	12.0	17.6	3.8	66.6	733	36	
	7:30	3/4/2008	20.0	18.0	6.0	56.0	701	34	
	8:50	3/18/2008	23.0	19.8	3.9	53.3	185	9	

	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Velocity feet/min	Extraction CFM*	Comments
LC-2	11:09	3/20/2006	61.9	36.8	1.0	0.3			pre-startup
	9:52	3/22/2006	50.2	28.3	4.9	16.6			
	15:51	3/22/2006	49.9	35.2	7.4	7.5			
	8:52	3/23/2006	45.2	27.1	6.8	20.9			
	16:52	3/23/2006	54.3	32.5	3.5	9.7			
	15:20	3/24/2006	25.5	14.8	15.3	44.4			
	15:10	3/28/2006	18.7	12.0	13.5	55.8			
	19:09	3/30/2006	52.6	28.7	3.7	15.0	20	2	
	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	10	1	
	15:56	4/14/2006	33.6	20.0	7.9	38.5	10	1	
	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	14	1	
	13:28	5/4/2006	43.6	24.8	4.2	27.4			
	12:00	5/22/2006	48.8	28.9	4.3	18.0			
	8:41	6/9/2006	34.2	20.0	10.5	35.3			
	13:05	6/14/2006	30.1	20.2	8.3	41.4			
	11:05	6/22/2006	45.1	35.4	5.1	14.4			
	12:09	7/5/2006	44.4	44.5	5.8	5.3			
	10:50	7/10/2006	0.1	0.2	5.4	94.3			
	10:15	7/17/2006	42.7	32.7	5.8	18.8			
	14:15	7/28/2006	43.6	33.4	4.7	18.3			
	9:51	8/8/2006	45.4	36.2	4.1	14.3			
	9:30	8/16/2006	31.2	24.6	8.6	35.6			
	8:38	8/21/2006	2.4	10.2	3.7	83.7			
	14:22	8/28/2006	20.0	36.2	4.2	39.6			
	11:36	9/13/2006	28.2	37.0	4.0	30.8			
	11:34	9/25/2006	2.4	0.8	5.9	90.9			
	8:32	10/10/2006	49.8	41.7	5.1	3.4			
	8:42	10/23/2006	37.8	29.5	7.6	25.1			
	14:20	11/2/2006	42.5	28.4	3.6	25.5			
	15:16	11/14/2006	39.5	28.2	3.5	28.8			
	11:40	11/27/2006	48.5	33.2	0.3	18.0			
	13:30	12/26/2006	44.0	29.4	2.6	24.0			
	14:10	1/27/2007	44.5	27.6	3.1	24.8			
	11:28	2/24/2007	9.0	0.2	20.5	70.3			
	11:02	3/1/2007	37.2	28.2	1.5	33.1			
	12:26	3/1/2007	36.0	29.0	1.5	33.5	150	12	
	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
	11:45	5/30/2007	44.5	27.4	1.9	26.2	310	15	restart and run 24 hrs
	13:45	5/30/2007	46.0	28.2	1.5	24.3			
	10:20	5/31/2007	40.0	26.0	1.3	32.7			reduce to 12 on 12 off
	16:25	6/1/2007	40.5	25.4	1.4	32.7			
	15:20	6/2/2007	40.5	25.4	1.2	32.9			
	16:00	6/3/2007	39.5	25.2	1.4	33.9			
	14:04	6/4/2007	39.5	25.2	1.5	33.8			reduce to 6 on 18 off
	14:43	6/7/2007	39.5	25.0	1.4	34.1			
	16:46	6/12/2007	40.5	25.6	1.2	32.7	1552	76	
	14:20	6/14/2007	40.5	25.4	1.2	32.9	1035	51	
	13:55	6/19/2007	39.5	25.8	1.2	33.5	854	42	
	14:00	6/21/2007	39.5	25.4	1.5	33.6	1053	52	
	13:50	7/11/2007	38.0	25.8	1.5	34.7	785	39	
	13:30	7/23/2007	38.5	26.6	1.4	33.5	1024	50	
	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	1077	53	
	13:20	8/20/2007	34.5	25.2	3.1	37.2	852	42	
	13:45	8/28/2007	36.5	27.8	1.3	34.4	1921	94	
	15:30	8/31/2007	30.0	26.0	2.5	41.5	2198	108	
	14:25	9/4/2007	26.0	26.0	2.0	46.0	1294	63	
	12:55	9/17/2007	17.5	23.6	3.2	55.7	972	48	
	9:15	9/29/2007	17.5	23.8	2.9	55.8	1378	68	
	8:15	10/4/2007	18.5	25.0	1.8	54.7	626	31	
	9:15	10/7/2007	19.0	25.2	1.7	54.1	844	41	
	9:30	10/18/2007	17.5	21.4	4.2	56.9	1049	51	
	8:35	10/25/2007	23.0	25.2	2.3	49.5	835	41	
	8:50	11/1/2007	26.5	27.0	1.0	45.5	742	36	
	9:55	11/13/2007	28.0	25.8	1.8	44.4	1094	54	
	11:05	11/26/2007	27.0	25.4	2.0	45.6	702	34	
	10:30	12/10/2007	26.0	25.8	2.1	46.1	555	27	
	11:15	12/26/2007	26.0	25.0	2.0	47.0	872	43	
	9:40	1/9/2008	24.5	21.6	4.7	49.2	728	36	
	11:58	1/23/2008	19.0	18.2	7.4	55.4	1321	65	
	8:50	2/4/2008	17.0	15.4	9.4	58.2	1158	57	
	7:20	2/18/2008	25.5	20.4	6.3	47.8	654	32	
	7:15	3/4/2008	30.5	21.2	7.1	41.2	1291	63	
	8:25	3/18/2008	32.5	22.6	5.5	39.4	913	45	

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
LC-3	11:31	3/20/2006	62.3	36.3	0.5	0.9			pre-startup
	10:06	3/22/2006	55.9	33.2	3.5	7.4			
	8:37	3/23/2006	53.5	30.5	3.4	12.6			
	16:30	3/23/2006	59.9	30.5	2.0	7.6			
	14:30	3/24/2006	8.6	6.7	17.0	67.7			
	14:45	3/28/2006	21.1	14.8	12.0	52.1			
	19:21	3/30/2006	51.2	30.4	1.6	16.8	73	6	
	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	20	2	
	15:30	4/14/2006	37.7	28.8	1.2	32.3	30	2	
	10:10	4/17/2006	10.5	0.8	0.8	88.1			
	19:38	4/27/2006	27.6	23.6	0.5	48.3	37	3	
	13:20	5/4/2006	0.0	0.0	8.8	91.2			
	10:25	5/22/2006	9.8	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			
	8:28	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	290	23	
	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			
	18:43	3/29/2007	12.0	19.2	3.8	65.0			
	7:45	3/30/2007	7.0	12.6	8.0	72.4			blower off
	11:30	5/30/2007	29.0	22.8	3.0	45.2	1400	109	restart and run 24 hrs
	13:52	5/30/2007	30.5	22.8	3.2	43.5			
	10:10	5/31/2007	23.5	21.2	2.9	52.4			reduce to 12 on 12 off
	16:10	6/1/2007	21.5	20.8	2.8	54.9			
	15:13	6/2/2007	20.0	19.4	3.6	57.0			
	15:44	6/3/2007	19.0	20.2	2.8	58.0			
	13:45	6/4/2007	18.0	19.8	3.0	59.2			reduce to 6 on 18 off
	14:27	6/7/2007	23.0	22.2	2.8	52.0			
	16:15	6/12/2007	14.0	19.4	3.1	63.5	866	68	
	13:58	6/14/2007	14.5	19.2	3.1	63.2	1265	99	
	13:35	6/19/2007	14.5	19.6	3.0	62.9	1044	82	
	13:40	6/21/2007	14.0	19.2	3.2	63.6	1146	90	
	13:20	7/11/2007	14.0	19.2	3.3	63.5	858	67	
	13:10	7/23/2007	13.0	19.0	3.4	64.6	1033	81	
	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	1315	103	
	13:10	8/20/2007	11.8	19.8	2.7	65.7	945	74	
	13:35	8/28/2007	11.5	19.2	2.8	66.5	1378	108	
	15:20	8/31/2007	8.5	18.0	3.5	70.0	1283	100	
	14:15	9/4/2007	7.0	17.0	3.9	72.1	1412	110	
	12:45	9/17/2007	5.5	15.8	4.7	74.0	1198	94	
	9:05	9/29/2007	5.0	16.2	4.6	74.2	1181	92	
	8:05	10/4/2007	5.5	16.0	4.6	73.9	1140	89	
	9:05	10/7/2007	6.0	16.4	4.2	73.4	1049	82	
	9:20	10/18/2007	7.5	16.8	3.6	72.1	1768	138	
	8:25	10/25/2007	6.5	16.6	4.2	72.7	997	78	
	8:40	11/1/2007	7.5	16.8	4.3	71.4	957	75	
	9:45	11/13/2007	11.5	16.2	5.5	66.8	1272	99	
	10:55	11/26/2007	7.0	14.4	6.4	72.2	1154	90	
	10:20	12/10/2007	7.0	14.6	6.8	71.6	1008	79	
	11:05	12/26/2007	7.5	14.4	6.4	71.7	1279	100	
	9:30	1/9/2008	8.5	14.6	6.6	70.3	684	53	
	11:50	1/23/2008	7.5	14.4	7.3	70.8	782	61	
	8:40	2/4/2008	10.0	15.6	6.1	68.3	652	51	
	7:10	2/18/2008	12.5	15.4	6.8	65.3	1033	81	
	7:40	3/4/2008	17.5	17.8	7.5	57.2	768	60	
	8:15	3/18/2008	20.0	17.6	6.2	56.2	980	77	

	Time	Date	CH_4 (%)	CO_2 (%)	O_2 (%)	N (%)	Velocity feet/min	Extraction CFM*	Comments
Monitoring Points									
GP-1	11:03	3/20/2006	**18.8**	8.1	0.4	72.7			pre-startup
	15:25	3/22/2006	**17.9**	8.0	0.4	73.7			
	14:10	3/23/2006	**21.4**	11.5	0.2	66.9			
	14:00	3/30/2006	0.8	2.4	15.0	81.8			
	13:45	4/6/2006	0.6	1.5	16.8	81.1			
	13:40	4/11/2006	1.2	0.8	19.3	78.7			
	11:33	4/14/2006	0.0	1.9	14.7	83.4			
	10:28	4/17/2006	3.8	4.8	16.8	74.6			
	7:15	4/28/2006	2.5	3.2	18.1	76.2			
	13:30	5/4/2006	0.0	3.4	13.9	82.7			
	10:45	5/22/2006	0.1	1.2	19.3	79.4			
	12:23	6/2/2006	0.1	3.5	12.1	84.3			
	8:02	6/9/2006	2.6	2.0	19.8	75.6			
	12:49	6/14/2006	1.1	3.9	15.4	79.6			
	11:10	6/22/2006	0.7	1.0	18.1	80.2			
	11:47	7/5/2006	0.6	2.4	14.9	82.1			
	11:15	7/10/2006	0.7	4.5	14.1	80.7			
	10:35	7/17/2006	0.8	2.9	15.8	80.5			
	13:42	7/28/2006	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	60.2			
	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	6/20/2007	**5.5**	10.8	9.2	74.5			
	13:55	8/28/2007	**12.0**	15.8	2.2	70.0			
	15:40	8/31/2007	**9.5**	14.0	4.2	72.3			
	14:35	9/4/2007	**8.0**	13.6	4.4	74.0			
	13:05	9/17/2007	0.2	6.0	12.0	81.8			
	9:25	9/29/2007	0.2	4.6	13.9	81.4			
	8:25	10/4/2007	0.4	2.8	17.1	79.7			
	9:25	10/7/2007	0.6	3.4	15.3	80.7			
	10:15	10/18/2007	**6.5**	12.2	4.2	77.1			
	8:45	10/25/2007	0.1	3.6	15.5	80.8			
	9:00	11/1/2007	0.1	5.4	13.8	80.7			
	9:40	11/13/2007	0.2	3.8	13.7	82.4			
	11:10	11/26/2007	0.3	1.2	19.3	79.3			
	10:40	12/10/2007	0.4	1.2	19.4	79.0			
	11:25	12/26/2007	0.3	1.4	18.6	79.8			
	13:00	1/23/2008	0.3	2.8	13.9	83.0			
	9:55	1/9/2008	0.4	1.0	17.7	81.0			
	13:00	1/23/2006	0.3	2.8	13.9	83.0			
	9:00	2/4/2008	0.1	2.2	14.6	83.1			
	7:30	2/18/2008	0.2	2.0	14.8	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			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-2	9:00	3/22/2006	29.5	27.8	0.5	42.2			pre-startup
	14:40	3/23/2006	29.1	24.5	0.8	45.6			
	14:20	3/30/2006	11.5	13.1	10.7	64.7			
	14:05	4/6/2006	10.3	12.6	10.2	66.9			
	14:15	4/11/2006	5.4	5.7	15.3	73.6			
	11:56	4/14/2006	6.8	12.1	8.7	72.4			
	11:00	4/17/2006	0.0	0.0	20.7	79.3			
	9:55	4/28/2006	0.0	0.1	20.7	79.2			
	14:15	5/4/2006	1.5	18.9	3.0	76.6			
	11:15	5/22/2006	0.0	0.0	20.5	79.5			
	12:49	6/2/2006	1.0	0.1	19.7	79.2			
	9:00	6/9/2006	1.9	0.5	20.4	77.2			
	13:20	6/14/2006	4.8	1.0	20.1	74.1			
	10:00	6/22/2006	0.6	0.2	20.4	78.8			
	12:34	7/5/2006	0.7	1.5	19.9	77.9			
	11:48	7/10/2006	0.7	0.8	19.6	78.9			
	11:15	7/17/2006	0.7	1.2	18.8	79.3			
	13:05	7/28/2006	0.5	0.7	19.1	79.7			
	10:50	8/8/2006	0.6	0.2	19.6	79.6			
	7:53	8/16/2006	0.1	0.0	19.9	80.0			
	7:40	8/21/2006	0.5	0.1	20.4	79.0			
	13:40	8/28/2006	0.0	0.0	20.2	79.8			
	10:50	9/13/2006	0.1	0.1	20.2	79.6			
	10:10	9/25/2006	0.6	9.5	13.7	76.2			
	7:45	10/10/2006	0.7	1.8	19.8	77.7			
	7:46	10/23/2006	0.7	3.9	18.0	77.4			
	13:24	11/2/2006	0.5	0.3	17.6	81.6			
	12:38	11/14/2006	0.1	5.2	15.7	79.1			
	10:51	11/27/2006	0.1	0.6	20.0	79.3			
	13:55	12/26/2006	0.3	6.2	14.5	79.1			
	12:25	1/27/2007	0.3	1.6	19.1	79.1			
	12:15	2/24/2007	0.3	3.6	16.5	79.7			
	16:05	3/28/2007	0.2	2.4	18.0	79.5			
	11:07	5/1/2007	0.0	3.8	15.2	81.0			
	12:17	5/30/2007	0.0	1.2	18.5	80.3			
	13:20	6/19/2007	0.1	7.6	11.5	80.9			
	11:20	8/13/2007	0.0	0.4	20.5	79.1			
	10:54	10/18/2007	0.1	1.0	18.8	80.1			
	13:10	1/23/2008	0.4	1.2	20.2	78.2			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-3	7:49	3/22/2006	1.4	1.9	19.9	76.6			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	78.6			
	14:30	4/6/2006	1.6	11.8	7.2	79.4			
	14:40	4/11/2006	0.4	4.0	15.6	80.0			
	12:11	4/14/2006	0.0	1.5	18.1	80.4			
	11:20	4/17/2006	1.4	0.2	20.7	77.7			
	10:50	4/28/2006	0.4	0.1	20.7	78.8			
	15:00	5/4/2006	0.0	0.0	20.4	79.6			
	11:38	5/22/2006	0.2	0.0	2.5	97.3			
	13:18	6/2/2006	0.2	0.0	20.2	79.6			
	9:09	6/9/2006	0.8	0.1	20.5	78.6			
	13:45	6/14/2006	1.1	0.1	20.4	78.4			
	11:25	6/22/2006	0.7	0.0	20.1	79.2			
	11:19	7/5/2006	0.6	0.0	20.0	79.4			
	10:37	7/10/2006	0.6	0.0	19.6	79.8			
	0:57	7/17/2006	0.1	0.0	19.0	80.9			
	12:25	7/28/2006	0.6	0.0	19.7	79.7			
	11:32	8/8/2006	0.6	0.0	19.6	79.8			
	7:35	8/16/2006	0.5	0.0	20.0	79.5			
	7:24	8/21/2006	0.0	0.0	20.3	79.7			
	13:26	8/28/2006	0.1	0.0	19.9	80.0			
	10:31	9/13/2006	0.0	0.3	20.3	79.4			
	9:58	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			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-4	9:11	3/22/2006	0.0	1.4	20.4	78.2			pre-startup
	15:35	3/23/2006	0.0	0.8	19.8	79.4			
	15:40	3/30/2006	0.5	0.8	21.8	76.9			
	14:40	4/6/2006	0.8	1.3	18.9	79.0			
	14:35	4/11/2006	0.2	0.9	19.2	79.7			
	12:18	4/14/2006	0.0	1.3	18.1	80.6			
	11:35	4/17/2006	1.3	0.8	20.4	77.5			
	10:40	4/28/2006	0.0	0.5	20.2	79.3			
	15:10	5/4/2006	1.3	0.6	13.2	84.9			
	11:50	5/22/2006	0.1	0.2	20.4	79.3			
	13:10	6/2/2006	0.2	0.8	19.1	79.9			
	9:12	6/9/2006	3.4	1.2	20.2	75.2			
	14:00	6/14/2006	0.0	0.0	19.9	80.1			
	10:39	6/22/2006	6.0	18.8	6.4	68.8			
	11:26	7/5/2006	0.6	0.6	20.0	78.8			
	10:43	7/10/2006	0.4	3.8	19.9	75.9			
	10:08	7/17/2006	0.9	0.6	19.6	78.9			
	12:34	7/28/2006	0.6	0.4	19.6	79.4			
	9:21	8/8/2006	0.6	0.3	19.7	79.4			
	7:42	8/16/2006	0.5	0.7	19.9	78.9			
	7:28	8/21/2006	0.4	0.5	20.0	79.1			
	13:31	8/28/2006	0.5	0.5	20.1	78.9			
	10:35	9/13/2006	0.7	0.6	20.2	78.5			
	9:59	9/25/2006	0.1	0.2	19.1	80.6			
	7:24	10/10/2006	0.6	0.5	20.3	78.6			
	7:40	10/23/2006	0.4	0.0	20.4	79.2			
	13:17	11/2/2006	0.5	0.2	21.0	78.3			
	13:11	11/14/2006	0.2	1.4	19.0	79.5			
	10:42	11/27/2006	0.1	0.6	19.7	79.7			
	14:04	12/26/2006	0.3	0.8	19.6	79.4			
	12:09	1/27/2007	0.1	0.4	19.6	79.9			
	12:38	2/24/2007	0.4	1.0	19.4	79.3			
	15:40	3/28/2007	0.1	0.2	19.8	79.9			
	10:50	5/1/2007	0.0	1.2	18.2	80.6			
	12:37	5/30/2007	0.0	1.8	17.5	80.7			
	13:40	6/19/2007	0.0	0.8	20.0	79.2			
	11:05	8/13/2007	0.0	0.6	20.6	78.8			
	10:10	10/18/2007	0.1	1.2	17.9	80.8			
	13:25	1/23/2008	0.3	0.4	20.9	78.4			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-5	9:13	3/22/2006	0.0	4.4	17.6	78.0			pre-startup
	14:15	3/23/2006	0.0	4.2	17.6	78.2			
	14:05	3/30/2006	1.2	2.5	18.8	77.5			
	13:40	4/6/2006	1.1	3.0	17.9	78.0			
	13:45	4/11/2006	0.7	2.7	17.5	79.1			
	12:50	4/14/2006	0.1	3.5	15.4	81.0			
	10:30	4/17/2006	0.0	3.6	16.2	80.2			
	10:35	4/28/2006	2.2	7.0	13.0	77.8			
	10:40	5/22/2006	1.5	8.5	11.2	78.8			
	12:25	6/2/2006	0.1	7.2	9.4	83.3			
	8:45	6/9/2006	0.1	0.3	10.5	89.1			
	12:18	6/14/2006	0.1	0.0	9.1	90.8			
	11:18	6/22/2006	0.7	10.7	10.5	78.1			
	11:51	7/5/2006	0.6	11.9	11.1	76.4			
	11:17	7/10/2006	0.7	12.0	10.1	77.2			
	10:22	7/17/2006	0.8	11.9	11.1	76.2			
	8:24	7/28/2006	0.6	10.1	11.5	77.8			
	10:16	8/8/2006	0.6	11.8	10.1	77.5			
	8:35	8/16/2006	0.8	10.0	10.5	78.7			
	8:02	8/21/2006	0.5	0.8	10.9	87.8			
	13:54	8/28/2006	0.6	11.3	13.3	74.8			
	11:07	9/13/2006	0.1	0.0	13.4	86.5			
	10:26	9/25/2006	0.0	0.0	13.4	86.6			
	8:52	10/10/2006	0.7	8.9	14.4	76.0			
	8:00	10/23/2006	0.3	1.4	15.5	82.8			
	14:37	11/2/2006	0.3	7.2	14.0	78.5			
	13:25	11/14/2006	0.2	6.0	14.9	78.9			
	11:10	11/27/2006	0.2	5.2	15.7	79.0			
	12:35	12/26/2006	0.1	4.8	15.7	79.5			
	13:09	1/27/2007	0.4	5.4	15.8	78.4			
	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			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-6	7:45	3/22/2006	0.0	6.1	13.9	80.0			pre-startup
	15:55	3/23/2006	0.0	4.9	16.3	78.8			
	15:15	3/30/2006	0.0	1.7	18.3	80.0			
	14:25	4/6/2006	0.0	2.8	16.9	80.3			
	14:30	4/11/2006	0.7	2.8	17.3	79.2			
	12:04	4/14/2006	0.0	3.8	14.6	81.6			
	11:15	4/17/2006	10.4	2.3	17.6	69.7			
	10:30	4/28/2006	0.0	2.5	18.3	79.2			
	14:30	5/4/2006	0.0	2.7	17.9	79.4			
	11:30	5/22/2006	3.8	3.9	18.1	74.2			
	13:04	6/2/2006	0.2	2.4	17.2	80.2			
	9:25	6/9/2006	0.1	0.8	17.7	81.4			
	14:10	6/14/2006	1.3	3.3	16.8	78.6			
	9:50	6/22/2006	0.5	3.1	17.3	79.1			
	11:13	7/5/2006	0.5	3.6	17.1	78.8			
	10:34	7/10/2006	0.6	3.9	16.7	78.8			
	9:58	7/17/2006	0.1	0.6	16.8	82.5			
	12:10	7/28/2006	0.6	3.6	16.5	79.3			
	9:05	8/8/2006	0.6	3.5	17.0	78.9			
	7:29	8/16/2006	0.1	0.0	17.2	82.7			
	7:18	8/21/2006	0.5	3.6	18.1	77.8			
	13:21	8/28/2006	0.0	0.0	18.1	81.9			
	10:20	9/13/2006	0.6	1.0	19.1	79.3			
	11:05	9/25/2006	0.7	2.6	18.5	78.2			
	7:30	10/10/2006	0.8	2.3	19.7	77.2			
	7:34	10/23/2006	0.9	2.4	14.4	82.3			
	13:05	11/2/2006	2.4	0.8	19.7	77.1			
	13:14	11/14/2006	0.2	3.0	17.9	78.9			
	10:35	11/27/2006	0.1	0.6	19.6	79.8			
	14:20	12/26/2006	0.3	3.0	18.0	78.7			
	13:45	1/27/2007	0.2	3.4	17.0	79.5			
	12:45	2/24/2007	0.4	3.0	18.1	78.5			
	16:00	3/28/2007	0.2	2.4	18.0	79.5			
	10:45	5/1/2007	0.1	3.0	16.4	80.5			
	12:23	5/30/2007	0.0	3.2	15.8	81.0			
	16:15	6/19/2007	0.0	2.4	17.8	79.8			
	10:54	8/13/2007	0.1	2.6	18.5	78.9			
	11:14	10/18/2007	0.1	3.4	16.4	80.1			
	11:28	1/23/2008	0.0	3.0	18.0	79.0			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-7	7:40	3/22/2006	1.0	7.0	13.0	79.0			pre-startup
	15:50	3/23/2006	0.1	5.0	14.7	80.2			
	15:00	3/30/2006	7.1	4.6	18.2	70.1			
	14:20	4/6/2006	0.1	2.3	17.0	80.6			
	14:25	4/11/2006	0.2	3.2	16.3	80.3			
	12:07	4/14/2006	0.1	5.2	11.8	82.9			
	10:15	4/17/2006	10.5	1.3	18.5	69.7			
	10:25	4/28/2006	0.0	1.7	19.2	79.1			
	14:25	5/4/2006	1.2	2.2	18.8	77.8			
	11:22	5/22/2006	0.0	1.0	19.5	79.5			
	13:00	6/2/2006	0.2	1.6	18.5	79.7			
	9:20	6/9/2006	3.7	2.4	20.0	73.9			
	14:05	6/14/2006	3.1	2.5	19.2	75.2			
	9:45	6/22/2006	0.5	1.7	19.1	78.7			
	11:10	7/5/2006	0.5	1.5	19.3	78.7			
	10:30	7/10/2006	0.0	0.0	18.6	81.4			
	9:55	7/17/2006	0.1	0.0	18.5	81.4			
	12:05	7/28/2006	0.0	3.7	18.5	77.8			
	9:00	8/8/2006	0.6	1.3	19.0	79.1			
	7:25	8/16/2006	0.5	1.5	19.2	78.8			
	7:16	8/21/2006	0.5	1.4	19.8	78.3			
	13:19	8/28/2006	0.4	1.2	19.5	78.9			
	10:19	9/13/2006	0.6	1.3	19.9	78.2			
	11:03	9/25/2006	1.8	2.2	17.7	78.3			
	7:28	10/10/2006	0.7	1.4	19.5	78.4			
	7:32	10/23/2006	3.0	2.8	19.0	75.2			
	13:00	11/2/2006	0.5	1.6	19.8	78.1			
	13:18	11/14/2006	0.2	3.2	17.2	79.4			
	10:30	11/27/2006	0.0	1.2	19.0	79.8			
	14:15	12/26/2006	0.3	2.6	18.0	79.1			
	13:40	1/27/2007	0.1	3.4	16.7	79.9			
	12:40	2/24/2007	0.4	3.2	17.2	79.2			
	15:55	3/28/2007	0.1	1.2	18.9	79.8			
	10:43	5/1/2007	0.1	3.6	15.1	81.2			
	12:26	5/30/2007	0.0	3.6	15.6	80.8			
	16:20	6/19/2007	0.0	2.6	17.5	79.9			
	10:50	8/13/2007	0.1	1.4	19.3	79.3			
	11:10	10/18/2007	0.1	3.6	15.5	80.8			
	11:24	1/23/2008	0.0	3.2	17.6	79.2			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-8	9:03	3/22/2006	0.0	2.4	18.6	79.0			pre-startup
	14:50	3/23/2006	0.0	1.9	18.6	79.5			
	14:55	3/30/2006	3.0	7.2	14.8	75.0			
	14:10	4/6/2006	0.0	7.0	10.9	82.1			
	14:20	4/11/2006	0.0	4.8	13.6	81.6			
	12:25	4/14/2006	0.0	5.4	12.2	82.4			
	11:10	4/17/2006	0.0	0.1	20.7	79.2			
	10:00	4/28/2006	0.0	0.2	20.4	79.4			
	14:20	5/4/2006	0.0	0.2	19.3	80.5			
	11:18	5/22/2006	0.6	0.1	20.4	78.9			
	12:55	6/2/2006	0.2	0.7	19.3	79.8			
	9:03	6/9/2006	2.4	0.6	20.3	76.7			
	13:37	6/14/2006	4.0	1.6	19.6	74.8			
	9:55	6/22/2006	0.5	0.5	19.8	79.2			
	12:27	7/5/2006	1.6	0.9	19.6	77.9			
	11:45	7/10/2006	0.7	1.2	19.2	78.9			
	11:10	7/17/2006	0.6	2.3	17.7	79.4			
	12:45	7/28/2006	0.6	0.8	19.0	79.6			
	10:58	8/8/2006	17.8	1.3	19.1	61.8			
	7:47	8/16/2006	0.1	0.2	19.5	80.2			
	7:33	8/21/2006	0.8	1.3	19.6	78.3			
	13:35	8/28/2006	0.0	0.0	19.1	80.9			
	10:47	9/13/2006	0.0	0.0	20.1	79.9			
	10:06	9/25/2006	0.0	0.0	17.5	82.5			
	7:26	10/10/2006	0.1	0.0	19.3	80.6			
	7:44	10/23/2006	0.7	1.4	19.6	78.3			
	13:20	11/2/2006	3.7	0.3	20.5	75.5			
	13:04	11/14/2006	0.1	4.2	15.1	80.6			
	10:45	11/27/2006	0.1	0.6	19.4	79.9			
	14:09	12/26/2006	0.3	0.8	19.2	79.7			
	12:15	1/27/2007	0.2	0.0	19.7	80.1			
	12:20	2/24/2007	0.3	5.2	12.8	81.8			
	15:47	3/28/2007	0.1	0.6	19.6	79.7			
	11:00	5/1/2007	0.0	8.5	7.6	83.9			
	12:20	5/30/2007	0.0	3.4	15.2	81.4			
	13:25	6/19/2007	0.0	0.6	20.2	79.2			
	11:10	8/13/2007	0.0	1.0	19.8	79.2			
	11:05	10/18/2007	0.1	6.0	11.5	82.4			
	11:38	1/23/2008	0.1	1.0	19.2	79.8			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-10	8:58	3/22/2006	0.0	4.5	15.4	80.1			pre-startup
	14:42	3/23/2006	0.0	4.3	15.5	80.2			
	14:50	3/30/2006	0.0	1.6	18.7	79.7			
	14:15	4/6/2006	0.0	2.3	17.1	80.6			
	13:55	4/11/2006	0.0	1.5	18.3	80.2			
	11:54	4/14/2006	0.0	1.9	17.4	80.7			
	10:50	4/17/2006	0.0	3.0	16.5	80.5			
	9:50	4/28/2006	0.0	3.6	15.0	81.4			
	14:00	5/4/2006	0.0	3.4	15.4	81.2			
	11:04	5/22/2006	0.0	1.3	19.0	79.7			
	12:45	6/2/2006	0.1	1.8	17.6	80.5			
	8:55	6/9/2006	0.7	0.9	19.6	78.8			
	13:15	6/14/2006	0.0	0.0	17.7	82.3			
	10:05	6/22/2006	0.6	0.8	19.9	78.7			
	12:38	7/5/2006	0.6	5.3	14.9	79.2			
	11:50	7/10/2006	0.6	5.5	14.6	79.3			
	11:19	7/17/2006	0.6	1.4	19.4	78.6			
	13:09	7/28/2006	0.6	1.0	19.2	79.2			
	11:11	8/8/2006	0.6	4.7	14.7	80.0			
	7:58	8/16/2006	0.1	0.2	16.4	83.3			
	7:44	8/21/2006	0.4	3.5	17.3	78.8			
	13:42	8/28/2006	0.0	0.0	17.7	82.3			
	10:53	9/13/2006	0.6	2.4	18.6	78.4			
	10:12	9/25/2006	0.7	5.5	16.0	77.8			
	7:48	10/10/2006	0.7	5.3	19.2	74.8			
	7:48	10/23/2006	0.6	5.0	17.5	76.9			
	13:31	11/2/2006	0.6	4.3	17.3	77.8			
	12:35	11/14/2006	0.1	4.2	16.3	79.5			
	10:55	11/27/2006	0.1	4.0	16.8	79.1			
	13:50	12/26/2006	0.3	4.2	16.7	78.9			
	12:35	11/27/2007	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			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-11	9:09	3/22/2006	0.0	3.5	17.6	78.9			pre-startup
	14:27	3/23/2006	0.0	3.4	17.6	79.0			
	14:40	3/30/2006	0.0	0.8	19.7	79.5			
	13:55	4/6/2006	0.0	1.7	18.0	80.3			
	14:00	4/11/2006	0.0	0.7	19.8	79.5			
	11:43	4/14/2006	0.0	0.5	18.9	80.6			
	10:55	4/17/2006	0.3	0.1	20.4	79.2			
	7:30	4/28/2006	0.0	0.7	20.2	79.1			
	14:05	5/4/2006	0.0	0.0	19.9	80.1			
	11:07	5/22/2006	2.6	0.3	20.4	76.7			
	12:34	6/2/2006	1.0	0.1	20.4	78.5			
	9:45	6/9/2006	4.9	0.6	20.2	74.3			
	13:23	6/14/2006	0.8	0.3	20.0	78.9			
	10:10	6/22/2006	0.6	0.0	20.4	79.0			
	12:41	7/5/2006	0.5	1.4	18.5	79.6			
	11:55	7/10/2006	0.6	2.5	18.6	78.3			
	11:21	7/17/2006	0.5	1.5	18.1	79.9			
	13:15	7/28/2006	0.1	0.2	18.2	81.5			
	10:36	8/8/2006	0.6	2.2	17.8	79.4			
	8:01	8/16/2006	0.1	0.0	17.9	82.0			
	7:46	8/21/2006	0.5	2.4	19.0	78.1			
	13:45	8/28/2006	0.6	2.6	18.6	78.2			
	10:55	9/13/2006	0.1	2.7	19.2	78.0			
	10:14	9/25/2006	0.7	2.1	19.0	78.2			
	8:00	10/10/2006	0.7	2.0	18.5	78.8			
	7:52	10/23/2006	0.7	1.0	20.6	77.7			
	13:34	11/2/2006	0.6	1.5	19.8	78.1			
	12:44	11/14/2006	0.1	2.0	18.4	79.6			
	10:58	11/27/2006	0.1	1.0	19.6	79.3			
	13:40	12/26/2006	0.3	2.0	18.4	79.4			
	12:41	1/27/2007	0.4	2.6	18.2	78.9			
	11:10	2/24/2007	0.4	2.6	18.1	78.9			
	16:14	3/28/2007	0.2	2.6	17.8	79.5			
	11:15	5/1/2007	0.0	3.4	15.9	80.7			
	12:06	5/30/2007	0.0	3.0	16.8	80.2			
	13:05	6/19/2007	0.1	2.8	18.3	78.8			
	11:27	8/13/2007	0.0	2.2	18.8	79.0			
	10:34	10/18/2007	0.1	2.8	17.0	80.1			
	12:10	1/23/2008	0.2	2.4	19.2	78.2			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
GP-12	9:06	3/22/2006	0.0	5.7	13.0	81.3			pre-startup
	14:22	3/23/2006	0.0	5.5	13.2	81.3			
	14:20	3/30/2006	0.0	2.6	17.7	79.7			
	13:50	4/6/2006	0.2	2.1	17.3	80.4			
	13:50	4/11/2006	0.0	2.5	17.1	80.4			
	11:40	4/14/2006	0.0	2.5	15.5	82.0			
	10:45	4/17/2006	1.4	3.7	18.4	76.5			
	12:20	4/28/2006	0.0	2.4	18.0	79.6			
	13:54	5/4/2006	0.0	0.0	17.3	82.7			
	11:00	5/22/2006	1.4	2.7	17.5	78.4			
	12:28	6/2/2006	0.1	1.8	17.4	80.7			
	8:50	6/9/2006	0.9	2.1	19.2	77.8			
	13:10	6/14/2006	0.1	0.0	17.5	82.4			
	10:20	6/22/2006	0.5	2.2	18.2	79.1			
	11:57	7/5/2006	0.6	2.2	18.2	79.0			
	11:22	7/10/2006	0.6	2.7	18.2	78.5			
	10:39	7/17/2006	0.7	2.6	17.5	79.2			
	13:28	7/28/2006	0.6	1.5	18.2	79.7			
	11:22	8/8/2006	0.6	2.6	17.5	79.3			
	8:58	8/16/2006	4.1	18.6	10.0	67.3			
	8:44	8/21/2006	0.6	3.2	18.5	77.7			
	14:26	8/28/2006	0.0	0.0	19.4	80.6			
	11:42	9/13/2006	0.1	0.9	17.9	81.1			
	11:40	9/25/2006	0.8	3.4	16.8	79.0			
	8:47	10/10/2006	0.7	3.8	17.6	77.9			
	8:50	10/23/2006	0.7	4.1	16.4	78.8			
	14:55	11/2/2006	3.9	14.0	7.7	74.5			
	15:30	11/14/2006	0.3	3.6	16.7	79.5			
	11:05	11/27/2006	0.2	2.4	18.0	79.5			
	13:35	12/26/2006	0.3	3.8	15.7	80.3			
	13:18	1/27/2007	0.4	3.8	15.7	80.1			
	12:00	2/24/2007	0.2	3.2	16.6	80.0			
	17:40	3/28/2007	0.2	3.4	16.4	80.0			
	10:30	5/1/2007	0.1	2.6	16.1	81.3			
	12:02	5/30/2007	0.0	2.8	16.0	81.2			
	16:30	6/19/2007	0.0	2.8	18.1	79.1			
	11:35	8/13/2007	0.0	2.6	18.3	79.1			
	10:26	10/18/2007	0.1	4.0	15.2	80.7			
	13:08	1/23/2008	0.3	7.2	12.2	80.3			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
MW-101	9:24	3/23/2006	2.9	18.1	0.8	78.2			pre-startup
	14:25	3/30/2006	1.0	8.0	10.9	80.1			
	14:00	4/6/2006	0.8	0.2	20.0	79.0			
	14:05	4/11/2006	0.0	0.0	20.3	79.7			
	11:50	4/14/2006	0.0	1.8	17.9	80.3			
	10:58	4/17/2006	2.0	0.3	20.5	77.2			
	7:35	4/28/2006	0.0	0.0	20.7	79.3			
	14:10	5/4/2006	0.0	0.0	20.2	79.8			
	11:10	5/22/2006	0.0	0.0	20.5	79.5			
	12:38	6/2/2006	0.2	0.0	20.4	79.4			
	9:50	6/9/2008	1.1	0.2	20.5	78.2			
	13:48	8/14/2006	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			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
MW-102	14:20	3/23/2006	0.0	0.7	20.5	78.8			pre-startup
	14:15	3/30/2006	1.0	0.5	20.6	77.9			
	13:35	4/6/2006	1.0	0.6	20.3	78.1			
	13:43	4/11/2006	0.5	0.3	19.7	79.5			
	11:50	4/14/2006	0.0	0.3	18.6	81.1			
	10:34	4/17/2006	0.8	0.7	20.1	78.4			
	14:00	4/28/2006	0.0	0.0	20.7	79.3			
	13:35	5/4/2006	0.0	0.2	20.5	79.3			
	10:42	5/22/2008	0.2	0.1	2.4	97.3			
	8:48	6/9/2006	0.0	0.0	19.8	60.2			
	12:20	6/14/2008	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	8/26/2006	0.6	1.8	18.8	76.8			
	11:05	9/13/2006	0.1	0.0	19.5	80.4			
	10:25	9/25/2006	0.1	0.0	19.2	80.7			
	8:44	10/10/2006	0.7	1.0	19.6	78.7			
	8:05	10/23/2006	0.8	0.4	19.6	79.2			
	14:42	11/2/2006	0.3	0.0	20.8	78.9			
	13:30	11/14/2006	0.2	0.2	20.0	79.6			
	11:12	11/27/2006	0.2	0.0	20.2	79.7			
	12:39	12/26/2006	0.1	0.0	20.0	79.9			
	13:10	1/27/2007	0.4	0.2	20.2	79.2			
	11:00	2/24/2007	0.4	0.2	20.6	78.9			
	17:35	3/28/2007	0.2	0.2	20.0	79.6			
	10:24	5/1/2007	0.0	1.4	17.0	81.6			
	11:57	5/30/2007	0.0	1.4	16.7	81.9			
	16:00	6/19/2007	0.0	0.0	20.6	79.4			
	11:42	8/13/2007	0.0	2.8	16.6	80.6			
	10:24	10/18/2007	0.1	4.2	15.0	80.7			
	14:05	1/23/2008	0.4	1.2	20.9	77.5			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
MW-103	7:49	3/23/2006	0.0	0.2	21.8	78.0			pre-startup
	15:30	3/30/2006	0.0	1.9	18.2	79.9			
	14:35	4/6/2006	0.4	8.0	9.4	82.2			
	14:40	4/11/2006	0.0	6.4	10.8	82.8			
	12:15	4/14/2006	0.0	3.2	15.6	81.2			
	11:30	4/17/2006	0.0	0.0	20.7	79.3			
	10:45	4/28/2006	0.0	0.0	20.5	79.5			
	15:05	5/4/2006	0.4	0.0	13.5	86.1			
	11:42	5/22/2006	0.2	0.0	20.6	79.2			
	13:14	6/2/2006	0.2	0.0	20.1	79.7			
	9:10	6/9/2006	1.1	0.1	20.5	78.3			
	13:30	6/14/2006	0.6	0.3	20.4	78.7			
	11:28	6/22/2006	0.7	0.0	20.2	79.1			
	11:27	7/5/2006	0.6	0.0	20.4	79.0			
	10:40	7/10/2006	0.0	0.0	19.9	80.1			
	10:06	7/17/2006	0.8	0.4	19.4	79.4			
	12:30	7/28/2006	0.6	0.0	19.9	79.5			
	9:17	8/8/2006	0.6	0.0	19.9	79.5			
	7:34	8/16/2006	0.1	0.0	19.9	80.0			
	7:25	8/21/2006	0.5	0.0	20.1	79.4			
	13:29	8/28/2006	0.1	0.0	20.3	79.6			
	10:34	9/13/2006	0.0	0.0	20.4	79.6			
	9:57	9/25/2006	0.0	0.1	19.3	80.6			
	7:22	10/10/2006	0.5	0.2	20.4	78.9			
	7:38	10/23/2006	0.6	0.0	20.8	78.6			
	13:14	11/2/2006	0.0	0.3	21.0	78.7			
	13:08	11/14/2006	0.2	9.2	11.2	79.5			
	10:40	11/27/2006	0.1	0.0	20.1	79.9			
	14:00	12/26/2006	0.3	0.2	20.1	79.5			
	12:05	1/27/2007	0.1	0.0	19.8	80.2			
	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			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
MW-104	9:29	3/23/2006	12.8	18.5	0.8	67.9			pre-startup
	15:45	3/30/2006	0.0	0.0	20.7	79.3			
	13:10	4/6/2006	6.8	8.9	10.5	73.8			
	14:50	4/11/2006	4.1	7.1	9.2	79.6			
	11:40	4/17/2006	2.0	0.3	21.0	76.7			
	14:10	4/28/2006	0.0	0.0	20.7	79.3			
	15:40	5/4/2006	0.0	0.0	8.1	91.9			
	10:27	5/22/2006	0.0	0.1	19.9	80.0			
	8:32	6/9/2006	0.0	0.0	19.6	80.4			
	12:45	6/14/2006	3.2	0.8	18.8	77.2			
	10:54	6/22/2006	0.8	0.1	19.7	79.4			
	12:19	7/5/2006	0.6	0.0	20.0	79.4			
	11:40	7/10/2006	0.7	0.6	19.8	78.9			
	11:05	7/17/2006	0.1	0.0	19.6	80.3			
	12:38	7/28/2006	0.6	0.0	19.8	79.6			
	9:49	8/8/2006	0.6	0.0	20.0	79.4			
	9:14	8/16/2006	0.7	0.2	19.4	79.7			
	8:30	8/21/2006	0.1	0.3	18.1	81.5			
	14:16	8/28/2006	0.0	0.0	17.6	82.4			
	11:29	9/13/2006	0.7	0.2	16.8	82.3			
	11:27	9/25/2006	0.0	0.2	19.5	80.3			
	8:27	10/10/2006	0.7	13.1	4.3	81.9			
	8:30	10/23/2006	0.7	0.3	16.7	82.3			
	14:14	11/2/2006	0.3	0.0	20.6	79.1			
	15:06	11/14/2006	0.2	0.6	19.4	79.8			
	12:04	11/27/2006	0.2	3.0	17.6	79.2			
	13:15	12/26/2006	0.2	0.0	20.0	79.9			
	14:16	1/27/2007	0.1	0.0	19.4	80.5			
	11:35	2/24/2007	0.5	12.8	5.8	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	20.8	78.5			

	Time	Date	CH_4	CO_2	O_2	N	Velocity	Extraction	Comments
			(%)	(%)	(%)	(%)	feet/min	CFM*	
System Exhaust	2:00	3/28/2006	4.4	4.0	17.8	73.8			
	12:52	5/4/2006	8.6	14.7	7.4	69.3			
	11:15	6/28/2006	5.9	14.5	9.5	70.1			
	11:45	7/5/2006	6.1	18.7	7.2	68.0			
	11:12	7/10/2006	6.7	21.7	5.1	66.5			
	10:31	7/17/2006	6.2	18.6	6.5	68.7			
	14:24	7/28/2006	2.1	19.2	6.1	72.6			
	10:23	8/8/2006	5.9	18.0	6.8	69.3			
	8:30	8/16/2006	6.8	17.3	7.3	68.6			
	8:07	8/21/2006	6.9	18.0	7.6	67.5			
	14:00	8/28/2006	7.1	18.6	7.3	67.0			
	11:13	9/13/2006	15.2	20.0	8.1	56.7			
	11:37	9/25/2006	14.2	24.3	4.8	56.7			
	8:09	10/10/2006	7.4	19.2	8.2	65.2			
	8:13	10/23/2006	12.8	16.3	9.1	61.8			
	9:00	11/2/2006	5.0	14.0	8.2	72.8			
	13:43	11/14/2006	4.4	10.4	10.6	74.6			
	11:19	11/27/2006	3.8	10.2	10.8	75.2			
	12:31	12/26/2006	6.5	14.8	6.9	71.8			
	13:30	1/27/2007	8.0	15.8	6.4	69.8			
	10:45	2/24/2007	6.0	11.6	10.0	72.4			
	7:35	3/5/2007	0.1	0.2	19.8	79.9			
	8:20	3/24/2007	9.0	12.6	9.7	68.7			
	17:10	3/24/2007	8.5	12.6	9.4	69.5			
	17:25	3/26/2007	6.5	11.4	9.8	72.3			
	7:39	3/27/2007	6.5	11.2	10.2	72.1			
	17:25	3/28/2007	6.5	10	11.6	71.9			
	8:16	3/29/2007	5.5	8.8	12.3	73.4			
	17:15	3/29/2007	5	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	71.3			
	12:50	1/23/2008	8.5	15.6	7.1	68.8			

Table 4. Landfill Gas Analytical Results

Sampling Point ID	Date	Benzene	Chlorobenzene	Chloroethane	Chloromethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Dichlorotetrafluoroethane	Ethylbenzene	Methylene Chloride	1,1,2,2-Tetrachloroethane	Styrene	Tetrachloroethene	Total Hydrocarbons as gas	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,1,2-Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Total Xylenes
GP-3	9/29/04	102.0		689.0				909.0			110.0	6,660.0	229.0	131.0									205.0					25,400.0	
	1/28/05			450.0				590.0				4,500.0								4,800								12,600.0	
	6/2/06											464.0			105.0					10,900	708.0							72.9	85.8
	11/2/06			5.9								28.7			19.0					1,360	122.0								50.1
	5/30/07	1.3	3.0				2.4	2.0				7.1			9.0				0.9	2,800	7.4		1.0			1.9	3.1		25.0
	8/9/07																			2,770									
	10/22/2007											135									33							24.4	
	1/23/2008							3.4				7.3											2.2						
GV-6	7/28/2006	172.0	117.0	373				1,070.0	42.6			19.0		281	323.0					27,500	107.0	27.9		38				3,590.0	649.5
	11/2/2006	50.2	50.4	73.5				166.0	35.8					70.4	246.0					29,300	155.0					45	33.7	84.9	666.0
	2/23/2007							111.0	24.4					44.3			7.4			2,780	7.0	33.5		17.6					
	5/30/2007	32.0		190				160.0	21			19.0		120	73.0					17,400	56.0							150.0	151.0
	8/9/2007	75.8	127.0	255			27.6	119.0	35			22.4		72.5	543.0					57,300	84.6					98.9	88	54.5	1,123.0
	10/22/2007			32				82.0	68.9			33.9		23	16.3					3,320	41.1	29.9		42.3					29.0
	1/23/2008			87.6				375.0	64.8			16.0		69.5								40		41.4					
LC-1	9/29/04			9.1				70.8						9.5															
	1/28/05							553.0				1,080.0		178						10,400								130.0	
	7/28/2006	117.0						71.6						168	149.0					23,600	118.0								563.0
	11/2/2006	92.6	16.4	54.3				62.4	27.7			1010		30.5	636.0				22.1	35,400	3,010.0		46.9			38.1	29.8		1,954.0
	2/23/2007	48.0						129.0						14.6	64.2		21			13,300	40.8								175.2
	5/30/2007	160.0		270				180.0	24						380.0	500				34,800	270.0					57	43		1,140.0
	8/9/2007	76.4	21.8	108				118.0	17.4					34.8	216.0	106				16,800	46.1					32.3	21		489.8
	10/22/2007	51.1	150	86.9				170.0	49.3					38	328.0	15.9				22,100	38.7					47.5	39.4		546.7
	1/23/2008																												
LC-2	7/28/2006	447.0	404.0	265				1,060.0				3,850.0	48.7	408	2,790.0	88.6			81	98,200	8,920.0		238			191	143	166.0	13,006.0
	11/2/2006	221.0	96.9	216				1,130.0						263	378.0					47,000	43.2					79.4	56		8,532.0
	2/23/2007	186.0	182.0	148			16.2	309.0						176	449.0		194			73,800	83.7					173	157		7,088.5
	5/30/2007	1.2		4.4				7.7				1.8		7.4	1.2					290	3.3							2.4	2.7
	8/9/2007	24.9		75.9				75.6						40.6	17.3					3,580	25.9								38.0
	10/22/2007	236.0	112.0	344					14.3			16.4		90.5	335.0					22,000				14.8		38.2	27.3		1,744.1
	1/23/2008	282.0	54.7	426				956.0	19.1					274	200.0						80.0			82		77.7	24.1	18.4	1,549.9
LC-3	7/28/2006											516.0									1,070.0								1,340.0
	11/2/2006	1,110.0	95.4				33.4	740.0	98.5		254	5,840.0	228	115	526.0	1430		22.6	209	122,000	5,030.0		912	184		158	85.1	1600	3,310.0
	2/23/2007	434.0						2,810.0	81.6		166	43,400.0		231	185.0	1440	21.1		63.2	219,000	10,000.0		573 J	1210				11900	632.0
	5/30/2007	610.0	110				71	5,200.0	64		460	137,000.0		260	18,400.0	2700			260	560,000	146,000.0		3200	270		260	150	172000	47,400.0
	8/9/2007	28.8						258.0	58.6			4,960.0		25.9		197				4,630	328.0		64.1	19.3				4680	
	10/22/2007	162.0						447.0	21.6			38,300.0	91.3	66.4	179.0	1370			20.7	26,700	16,800.0		1770	45.4				10700	362.7
	1/23/2008	4.5						44.2	1		10.4	1,820.0		14.2		69.1					37.9		14.5	2.1				1220	

Values in ppbv (parts per billion by volume)
Analyzed using EPA Method TO-14A

ATTACHMENT A

STRATIGRAPHIC LAYERS OF WELLS

Stratigraphic Groupings of Monitoring Wells
FF/NN Landfill, Ripon, WI

Layer	Well ID	Well Screen Elevation (ft msl)	Lithology at Well Screen
Layer 1 Wells	MW-106	821.0	sand
	MW-101	820.4	sand
	MW-104	819.3	sand & gravel
	MW-102	818.9	sand & gravel
	MW-103	818.7	sand
	MW-107	816.5	sand
	MW-108	814.9	sand
	MW-112	814.1	sand
	MW-111	812.3	sand
Layer 2 Wells	P-106	791.7	sand
	P-101	790.0	sand
	P-103	789.9	silt
	P-107	785.6	sand
	P-108	783.5	sand
	P-104	782.0	sand
	P-102	781.3	sand
	P-111	774.2	sand
Layer 3 Wells	P-111D	704.0	sand and gravel
	P-103D	682.08	sandstone
	MW-3B	665.0	sandstone
	P-113B	634.2	sandstone
	P-114	654.4	sandstone
	P-115	662.7	sandstone
	P-116	681.3	sandstone
Layer 4 wells	MW-3A	570.0	sandstone
	P-107D	544.0	granite
	P-113A	507.8	sandstone

ATTACHMENT B

GROUNDWATER MONITORING SCHEDULE

Groundwater Monitoring Schedule
FF/NN Landfill, Ripon, WI

Sampling Point:	Monitoring Schedule	Jan[1]	Apr	Jul[1]	Oct	Equipment Type
MW-3A	SA		✓		✓	QED
MW-3B	SA		✓		✓	QED
MW-101	A		✓			Bailer
P-101	A		✓			Bailer
MW-102	A		✓			Bailer
P-102	SA		✓		✓	Bailer
MW-103	SA		✓		✓	QED/bailer*
P-103	SA		✓		✓	QED
P-103D	SA		✓		✓	QED
MW-104	SA		✓		✓	QED/bailer*
P-104	A		✓			QED
MW-106	A		✓			Bailer
P-106	SA		✓		✓	QED
MW-107	SA		✓		✓	Bailer
P-107	SA		✓		✓	QED
P-107D	SA		✓		✓	QED
MW-108	SA		✓		✓	QED/bailer*
P-108	A		✓			Bailer
MW-111	A		✓			Bailer
P-111	A		✓			QED
P-111D	SA		✓		✓	QED
MW-112	SA		✓		✓	QED/bailer*
P-113A	A		✓			QED
P-113B	SA		✓		✓	QED
P-114	SA		✓		✓	QED
P-115	SA		✓		✓	QED
P-116	SA		✓		✓	QED
Baneck	Q	✓	✓	✓	✓	Spigot
Gaastra	Q	✓	✓	✓	✓	Spigot
Rohde	Q	✓	✓	✓	✓	Spigot
Leachate wells	A		✓			Disposable bailers
Landfill gas monitoring	Q	✓	✓	✓	✓	
Cap Inspection	SA		✓		✓	

* Well often doesn't have sufficient water to use existing QED. A bailer is then used to purge and sample.

[1]Take water level in each well

ATTACHMENT C

LABORATORY ANALYTICAL RESULTS

Pace Analytical®

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 892908

Client: PACE ANALYTICAL SERVICES, INC.
Lab Contact: Eric Wied

Project Name: FF/NN LANDFILL

Project Number: 1011.005

Lab Sample Number	Field ID	Matrix	Collection Date
892908-001	PERRY/WATKINS	WATER	01/25/08 07:20
892908-002	GAASTRA	WATER	01/25/08 07:50
892908-003	ROHDE	WATER	01/25/08 10:40
892908-004	TRIP BLANK	WATER	01/25/08

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

E Wied

Approval Signature

02.01.08

Date

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 892908

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : FF/NN LANDFILL
Project Number : 1011.005
Field ID : PERRY/WATKINS

Matrix Type : WATER
Collection Date : 01/25/08
Report Date : 01/31/08
Lab Sample Number : 892908-001

VOLATILES - WI NR507 APP III LIST

Prep Date/Time: 01/30/08 4:01 PM **Anl By:** JJS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
2-Butanone	< 4.3	4.3	14		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Acetone	< 2.2	2.2	7.3		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Carbon Disulfide	< 0.66	0.66	2.2		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 1.7	1.7	5.7		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 2.6	2.6	8.7		1	ug/L		01/30/08 4:01 PM	SW846 5030B	SW846 8260B
Surrogate		**LCL**	**UCL**							
4-Bromofluorobenzene	84	64	132		1	%		01/30/08	SW846 5030B	SW846 8260B
Toluene-d8	102	73	127		1	%		01/30/08	SW846 5030B	SW846 8260B
Dibromofluoromethane	113	68	122		1	%		01/30/08	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 892908

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : FF/NN LANDFILL
Project Number : 1011.005
Field ID : GAASTRA

Matrix Type : WATER
Collection Date : 01/25/08
Report Date : 01/31/08
Lab Sample Number : 892908-002

VOLATILES - WI NR507 APP III LIST

Prep Date/Time: 01/30/08 4:25 PM Anl By: JJS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
2-Butanone	< 4.3	4.3	14		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Acetone	< 2.2	2.2	7.3		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Carbon Disulfide	< 0.66	0.66	2.2		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 1.7	1.7	5.7		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 2.6	2.6	8.7		1	ug/L		01/30/08 4:25 PM	SW846 5030B	SW846 8260B
Surrogate		**LCL**	**UCL**							
4-Bromofluorobenzene	84	64	132		1	%		01/30/08	SW846 5030B	SW846 8260B
Toluene-d8	103	73	127		1	%		01/30/08	SW846 5030B	SW846 8260B
Dibromofluoromethane	115	68	122		1	%		01/30/08	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 892908

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : FF/NN LANDFILL
Project Number : 1011.005
Field ID : ROHDE

Matrix Type : WATER
Collection Date : 01/25/08
Report Date : 01/31/08
Lab Sample Number : 892908-003

VOLATILES - WI NR507 APP III LIST

Prep Date/Time: 01/30/08 4:48 PM **Anl By:** JJS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
2-Butanone	< 4.3	4.3	14		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Acetone	< 2.2	2.2	7.3		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Bromodichloromethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Carbon Disulfide	< 0.66	0.66	2.2		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Chlorodibromomethane	< 0.81	0.81	2.7		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Chloroform	< 0.37	0.37	1.2		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Methylene Chloride	< 0.43	0.43	1.4		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 1.7	1.7	5.7		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 2.6	2.6	8.7		1	ug/L		01/30/08 4:48 PM	SW846 5030B	SW846 8260B
Surrogate		**LCL**	**UCL**							
4-Bromofluorobenzene	86	64	132		1	%		01/30/08	SW846 5030B	SW846 8260B
Toluene-d8	102	73	127		1	%		01/30/08	SW846 5030B	SW846 8260B
Dibromofluoromethane	120	68	122		1	%		01/30/08	SW846 5030B	SW846 8260B

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Analytical Report Number: 892908

Client : PACE ANALYTICAL SERVICES, INC.
Project Name : FF/NN LANDFILL
Project Number : 1011.005
Field ID : TRIP BLANK

Matrix Type : WATER
Collection Date : 01/25/08
Report Date : 01/31/08
Lab Sample Number : 892908-004

VOLATILES - WI NR507 APP III LIST

Prep Date/Time: 01/30/08 5:12 PM **Anl By:** JJS

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date/Time	Prep Method	Anl Method
1,1,1-Trichloroethane	< 0.90	0.90	3.0		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,1,2-Trichloroethane	< 0.42	0.42	1.4		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethane	< 0.75	0.75	2.5		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,1-Dichloroethene	< 0.57	0.57	1.9		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,2-Dibromo-3-chloropropane	< 0.87	0.87	2.9		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,2-Dibromoethane	< 0.56	0.56	1.9		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,2-Dichlorobenzene	< 0.83	0.83	2.8		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,2-Dichloroethane	< 0.36	0.36	1.2		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,2-Dichloropropane	< 0.46	0.46	1.5		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,3-Dichlorobenzene	< 0.87	0.87	2.9		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
1,4-Dichlorobenzene	< 0.95	0.95	3.2		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
2-Butanone	< 4.3	4.3	14		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Acetone	< 2.2	2.2	7.3		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Benzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Bromodichloromethane	3.0	0.56	1.9		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Bromoform	< 0.94	0.94	3.1		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Bromomethane	< 0.91	0.91	3.0		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Carbon Disulfide	< 0.66	0.66	2.2		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Carbon Tetrachloride	< 0.49	0.49	1.6		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Chlorobenzene	< 0.41	0.41	1.4		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Chlorodibromomethane	1.8	0.81	2.7		1	ug/L	Q	01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Chloroethane	< 0.97	0.97	3.2		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Chloroform	6.0	0.37	1.2		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Chloromethane	< 0.24	0.24	0.80		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
cis-1,2-Dichloroethene	< 0.83	0.83	2.8		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
cis-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Dibromomethane	< 0.60	0.60	2.0		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Dichlorodifluoromethane	< 0.99	0.99	3.3		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Ethylbenzene	< 0.54	0.54	1.8		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Fluorotrichloromethane	< 0.79	0.79	2.6		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Methylene Chloride	0.90	0.43	1.4		1	ug/L	Q	01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Methyl-tert-butyl-ether	< 0.61	0.61	2.0		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Naphthalene	< 0.74	0.74	2.5		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Styrene	< 0.86	0.86	2.9		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Tetrachloroethene	< 0.45	0.45	1.5		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Tetrahydrofuran	< 1.7	1.7	5.7		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Toluene	< 0.67	0.67	2.2		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
trans-1,2-Dichloroethene	< 0.89	0.89	3.0		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
trans-1,3-Dichloropropene	< 0.19	0.19	0.63		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Trichloroethene	< 0.48	0.48	1.6		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Vinyl Chloride	< 0.18	0.18	0.60		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B
Xylene, Total	< 2.6	2.6	8.7		1	ug/L		01/30/08 5:12 PM	SW846 5030B	SW846 8260B

Surrogate		LCL	UCL					
4-Bromofluorobenzene	86	64	132	1	%		01/30/08	SW846 5030B SW846 8260B
Toluene-d8	103	73	127	1	%		01/30/08	SW846 5030B SW846 8260B
Dibromofluoromethane	119	68	122	1	%		01/30/08	SW846 5030B SW846 8260B

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the CCV standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level: therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
8	Inorganic	Sample was received unpreserved. Sample was preserved either at the time of receipt or at the time of sample preparation.
9	Inorganic	Sample was received with insufficient preservation. Acid was added either at the time of receipt or at the time of sample preparation.

Test Group Name	892908-001	892908-002	892908-003	892908-004
VOLATILES - WI NR507 APP III LIST	G	G	G	G

Code	WI Certification
G	405132750

Pace Analytical Services, Inc.

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

QC Summary

Batch: 892908
Lab Section: VOA
QC Batch Number: 28512
Prep Method: SW846 5030B
Analytical Method: SW846 8260B

QC Type	Client Sample ID	Lab Sample ID
MB	vog2399-60MB	vog2399-60MB
LCS	vog2399-60LCS	vog2399-60LCS
LCSD	vog2399-60LCSD	vog2399-60LCSD
MS	892918-001MS	892918-001MS
MSD	892918-001MSD	892918-001MSD

Client Sample ID	Lab Sample ID	MB ID
PERRY/WATKINS	892908-001	MB
ROHDE	892908-003	MB

Client Sample ID	Lab Sample ID	MB ID
GAASTRA	892908-002	MB
TRIP BLANK	892908-004	MB

Test Name	Method Blank Result	Conc	LCS Spiked Conc	LCS Recovery Conc	%	C	LCSD Spiked Conc	LCSD Recovery Conc	%	C	LCS/LCSD RPD %	C	LCS/LCSD Control Limits LCL %	UCL %	RPD %	Parent Sample Number	Parent Result	Conc	MS Spiked Conc	MS Recovery Conc	%	C	MSD Spiked Conc	MSD Recovery Conc	%	C	MS/MSD RPD %	C	MS/MSD Control Limits LCL %	UCL %	RPD %
1,2-Dibromo-3-chloropropan	<	0.87	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
1,2-Dibromoethane	<	0.56	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
1,2-Dichlorobenzene	<	0.83	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
1,3-Dichlorobenzene	<	0.87	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
1,4-Dichlorobenzene	<	0.95	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
Dibromomethane	<	0.6	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
Dichlorodifluoromethane	<	0.99	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
Fluorotrichloromethane	<	0.79	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
Methyl-tert-butyl-ether	<	0.61	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
Naphthalene	<	0.74	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
Tetrahydrofuran	<	1.7	0	—	—		—	—	—		—		—	—	—	—		—	—	—	—		—	—	—		—		—	—	—
1,1,1-Trichloroethane	<	0.9	50.0	52.4	105		50.0	58.7	117		11.4		75	128	20	892918-001	<	0.9	50.0	53.5	107		50.0	57.4	115		6.9		70	130	30
1,1,2-Trichloroethane	<	0.42	50.0	51.2	102		50.0	48.4	97		5.6		75	125	20	892918-001	<	0.42	50.0	50.9	102		50.0	49.6	99		2.6		70	130	30
1,1-Dichloroethane	<	0.75	50.0	55.8	112		50.0	61.7	123		10.0		71	130	20	892918-001	<	0.75	50.0	56.2	112		50.0	60	120		6.5		70	130	30
1,1-Dichloroethene	<	0.57	50.0	58	116		50.0	61.4	123		5.8		75	125	20	892918-001	<	0.57	50.0	58.4	117		50.0	60.5	121		3.5		70	135	30
1,2-Dichloroethane	<	0.36	50.0	52.3	105		50.0	54	108		3.3		71	132	20	892918-001	<	0.36	50.0	51.9	104		50.0	53.9	108		3.9		70	130	30
1,2-Dichloropropane	<	0.46	50.0	52.5	105		50.0	56.7	113		7.7		73	125	20	892918-001	<	0.46	50.0	53.5	107		50.0	54.5	109		1.8		70	130	30
2-Butanone	<	4.3	50.0	48.4	97		50.0	44.1	88		9.4		59	130	20	892918-001		0.00	50.0	46.2	92		50.0	45.7	91		1.0		51	130	30
Acetone	<	2.3	50.0	47.2	94		50.0	49.9	100		5.6		31	150	20	892918-001		0.00	50.0	50.6	101		50.0	48.1	96		5.1		42	132	30
Benzene	<	0.41	50.0	55.8	112		50.0	58.7	117		5.1		75	125	20	892918-001	<	0.41	50.0	56.2	112		50.0	58.5	117		4.0		70	130	30
Bromodichloromethane	<	0.56	50.0	50.3	101		50.0	53.7	107		6.5		75	125	20	892918-001	<	0.56	50.0	50.8	102		50.0	52.7	105		3.6		70	130	30
Bromoform	<	0.94	50.0	47.9	96		50.0	45.3	91		5.5		75	125	20	892918-001	<	0.94	50.0	48.8	98		50.0	46.8	94		4.2		70	130	30

Conc = ug/L unless otherwise noted
C = QC Code, see Qualifer Sheet
Parent Result is reported down to MDL in order to allow Validation of this worksheet
The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 1/31/2008
QC Batch Number: 28512

Pace Analytical Services, Inc.

QC Summary

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436
Fax: 920-469-8827

Test Name		Method Blank Result Conc	LCS Spiked Conc	LCS Recovery Conc	%	C	LCSD Spiked Conc	LCSD Recovery Conc	%	C	LCS/LCSD RPD %	C	LCS/LCSD Control Limits LCL %	UCL %	RPD %	Parent Sample Number		Parent Result Conc	MS Spiked Conc	MS Recovery Conc	%	C	MSD Spiked Conc	MSD Recovery Conc	%	C	MS/MSD RPD %	C	MS/MSD Control Limits LCL %	UCL %	RPD %
Bromome ne	<	0.91	50.0	53.4	107		50.0	57.1	114		6.8		66	125	20	892918-001	<	0.91	50.0	57.2	114		50.0	58.6	117		2.4		63	147	30
C on Disulfide	<	0.66	50.0	59.6	119		50.0	58.7	117		1.5		71	128	20	892918-001		0.00	50.0	59.8	120		50.0	59.2	118		1.1		56	142	30
Carbon Tetrachloride	<	0.49	50.0	53.3	107		50.0	60.5	121		12.6		75	125	20	892918-001	<	0.49	50.0	55.4	111		50.0	59.5	119		7.2		70	131	30
Chloroben ene	<	0.41	50.0	51.5	103		50.0	52.5	105		1.8		75	125	20	892918-001	<	0.41	50.0	51.6	103		50.0	51.6	103		0.2		70	130	30
Chlorodibromomethane	<	0.81	50.0	48.9	98		50.0	48.3	97		1.1		75	125	20	892918-001	<	0.81	50.0	50.6	101		50.0	49.1	98		2.9		70	130	30
Chlo oeth ne	<	0.97	50.0	55.1	110		50.0	57.1	114		3.5		72	126	20	892918-001	<	0.97	50.0	55.1	110		50.0	56	112		1.7		67	138	30
Chloroform	<	0.37	50.0	53.2	106		50.0	57.7	115		8.1		75	125	20	892918-001	<	0.37	50.0	54.2	108		50.0	57.1	114		5.2		70	130	30
Chlorometh ne	<	0.24	50.0	49.2	98		50.0	58.3	117		17.0		46	143	20	892918-001	<	0.24	50.0	47.9	96		50.0	52.8	106		9.7		43	150	30
cis-1,2-Dichloroethene	<	0.83	50.0	53.8	108		50.0	56.7	113		5.3		75	125	20	892918-001	<	0.83	50.0	54.6	109		50.0	58	116		5.9		70	130	30
cis-1,3-Dichloropropene	<	0.19	50.0	49	98		50.0	49.8	100		1.7		75	125	20	892918-001	<	0.19	50.0	50	100		50.0	50.1	100		0.2		70	130	30
Ethylbenzene	<	0.54	50.0	52.5	105		50.0	54.1	108		3.1		75	125	20	892918-001	<	0.54	50.0	53.2	106		50.0	53.3	107		0.2		70	136	30
Methylene Chlo ide	<	0.43	50.0	52.7	105		50.0	52.5	105		0.5		75	125	20	892918-001	<	0.43	50.0	53.8	108		50.0	53.3	107		1.0		70	130	30
Styrene	<	0.86	50.0	52.2	104		50.0	53.5	107		2.4		75	125	20	892918-001	<	0.86	50.0	52.2	104		50.0	54	108		3.6		70	130	30
Tetrachloroethene	<	0.45	50.0	50.5	101		50.0	50	100		0.8		75	130	20	892918-001		5.21	50.0	57.2	104		50.0	55.1	100		3.6		70	130	30
Toluene	<	0.67	50.0	53.1	106		50.0	53.3	107		0.3		75	125	20	892918-001	<	0.67	50.0	53.6	107		50.0	53.1	106		1.0		70	130	30
tr ns-1,2-Dichloroethene	<	0.89	50.0	53.6	107		50.0	58.6	117		8.9		75	125	20	892918-001	<	0.89	50.0	55.1	110		50.0	57.8	116		4.7		70	130	30
trans-1,3-Dichloropropene	<	0.19	50.0	47.6	95		50.0	46.1	92		3.1		75	125	20	892918-001	<	0.19	50.0	49	98		50.0	47.6	95		2.9		70	130	30
Trichloroethene	<	0.48	50.0	52.6	105		50.0	57.5	115		8.9		75	125	20	892918-001	<	0.48	50.0	54.2	108		50.0	56.8	114		4.8		70	130	30
Vinyl Chlo ide	<	0.18	50.0	48.7	97		50.0	47.3	95		2.8		65	130	20	892918-001	<	0.18	50.0	49	98		50.0	48.4	97		1.2		62	138	30
Xylene, Tot l	<	2.6	150.0	159.5	106		150.0	164.7	110		3.2		75	125	20	892918-001		0.000	150.0	160.1	107		150.0	162.4	108		1.4		70	130	30
4-Bromofluorobenzene		87%	—	—	94		—	—	95		—		64	132	—	892918-001		92%	—	—	93		—	—	95		—		64	132	—
Toluene-d8		102%	—	—	107		—	—	105		—		73	127	—	892918-001		101%	—	—	106		—	—	105		—		73	127	—
Dibromofluoromethane		109%	—	—	104		—	—	112		—		68	122	—	892918-001		114%	—	—	103		—	—	110		—		68	122	—

Conc = ug/L unless otherwise noted

C = QC Code, see Qualifer Sheet

Parent Result is reported down to MDL in order to allow Validation of this worksheet

The %R and RPD results are calculated from raw data values with more significant figures than are reported on this form.

Report Date: 1/31/2008

QC Batch Number: 28512

Sample Condition Upon Receipt

Pace Analytical

Client Name: GeoTrans Pace Pitt Project # 892908

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

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

Optional: Proj. Due Date: Proj. Name:

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

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

Cooler Temperature ROI : Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C Comments: ABV

Date and Initials of person examining contents: 1-29-08 cg

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: GW		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	15. 1-40ml Trip Blank @ #004
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 01-29-08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

(Please Print Clearly)

Company Name:	GeoTrans
Branch/Location:	Brookfield, WI
Project Contact:	Mike Noel
Phone:	262-792-1282
Project Number:	1011.005
Project Name:	FF/NN Landfill
Project State:	WI
Sampled By (Print):	Jack Wendler
Sampled By (Sign):	Jack Wendler
PO #:	Regulatory Program:

Pace Analytical®
www.pacelabs.com

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

Page 1 of =

COC No. 031210

CHAIN OF CUSTODY

Ab

*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

Quote #:	
Mail To Contact:	M. Noel / N. Olavarria
Mail To Company:	GeoTrans / Cooper
Mail To Address:	Brookfield WI / Houston TX
Invoice To Contact:	Nelson Olarvvia *
Invoice To Company:	Cooper Industries
Invoice To Address:	Houston TX
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, Sl = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC's	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Perry/Watkins	1-25	0720	GW		X		3-40mlB	need VOC LOD	
002	Gaastra	1-25	0750	GW		X		↓	< 0.2	
003	Rohde	1-25	1040	GW		X		↓		
004	Trip Blank					X		2-40mlB		
	*invoiced through Pace - Pittsburgh									

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

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Jack Wendler	1-28-08 1330		
FedEx	1-29-08 10:10	Pace	1-29-08 10:10

PACE Project No. 892908

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / (Not Present) Intact / Not Intact

Version 6.0 06/14/06

ORIGIN [redacted]

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

February 07, 2008

Client Services
Pace Analytical Pittsburgh
5203 Triangle Lane
Export, PA 15632

RE: Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Dear Client Services:
Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Colin Schuft

Colin Schuft

colin.schuft@pacelabs.com
Project Manager

Florida (Nelap) Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Minnesota Certification #: 027-053-137
Wisconsin Certification #: 999407970

Enclosures

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1066963001	LC-1	Air	01/23/08 07:45	01/24/08 09:55
1066963002	LC-2	Air	01/23/08 07:31	01/24/08 09:55
1066963003	LC-3	Air	01/23/08 07:25	01/24/08 09:55
1066963004	GV-6	Air	01/23/08 07:38	01/24/08 09:55
1066963005	GP-3	Air	01/23/08 07:55	01/24/08 09:55

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Lab ID	Sample ID	Method	Analysts	Analytes Reported
1066963001	LC-1	TO-14 Ambient Air	LCW	39
1066963002	LC-2	TO-14 Ambient Air	LCW	39
1066963003	LC-3	TO-14 Ambient Air	LCW	39
1066963004	GV-6	TO-14 Ambient Air	LCW	39
1066963005	GP-3	TO-14 Ambient Air	LCW	39

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ANALYTICAL RESULTS

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Sample: LC-1 **Lab ID: 1066963001** Collected: 01/23/08 07:45 Received: 01/24/08 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	ND	ppbv	0.62	1.25		01/29/08 19:29	71-43-2	
Bromomethane	ND	ppbv	0.62	1.25		01/29/08 19:29	74-83-9	
Carbon tetrachloride	ND	ppbv	0.62	1.25		01/29/08 19:29	56-23-5	
Chlorobenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	108-90-7	
Chloroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	75-00-3	
Chloroform	ND	ppbv	0.62	1.25		01/29/08 19:29	67-66-3	
Chloromethane	ND	ppbv	0.62	1.25		01/29/08 19:29	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.62	1.25		01/29/08 19:29	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	106-46-7	
Dichlorodifluoromethane	ND	ppbv	0.62	1.25		01/29/08 19:29	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.62	1.25		01/29/08 19:29	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	0.62	1.25		01/29/08 19:29	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.62	1.25		01/29/08 19:29	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.62	1.25		01/29/08 19:29	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.62	1.25		01/29/08 19:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.62	1.25		01/29/08 19:29	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	76-14-2	
Ethylbenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.62	1.25		01/29/08 19:29	87-68-3	
Methylene Chloride	ND	ppbv	0.62	1.25		01/29/08 19:29	75-09-2	
Styrene	ND	ppbv	0.62	1.25		01/29/08 19:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	79-34-5	
Tetrachloroethene	ND	ppbv	0.62	1.25		01/29/08 19:29	127-18-4	
Toluene	ND	ppbv	0.62	1.25		01/29/08 19:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	79-00-5	
Trichloroethene	ND	ppbv	0.62	1.25		01/29/08 19:29	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.62	1.25		01/29/08 19:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.62	1.25		01/29/08 19:29	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	0.62	1.25		01/29/08 19:29	108-67-8	
Vinyl chloride	ND	ppbv	0.62	1.25		01/29/08 19:29	75-01-4	
m&p-Xylene	ND	ppbv	1.2	1.25		01/29/08 19:29	1330-20-7	
o-Xylene	ND	ppbv	0.62	1.25		01/29/08 19:29	95-47-6	

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ANALYTICAL RESULTS

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Sample: LC-2 **Lab ID: 1066963002** Collected: 01/23/08 07:31 Received: 01/24/08 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSVAIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	**282**	ppbv	13.8	27.6		01/31/08 23:20	71-43-2	
Bromomethane	ND	ppbv	13.8	27.6		01/31/08 23:20	74-83-9	
Carbon tetrachloride	ND	ppbv	13.8	27.6		01/31/08 23:20	56-23-5	
Chlorobenzene	**54.7**	ppbv	13.8	27.6		01/31/08 23:20	108-90-7	
Chloroethane	**426**	ppbv	13.8	27.6		01/31/08 23:20	75-00-3	
Chloroform	ND	ppbv	13.8	27.6		01/31/08 23:20	67-66-3	
Chloromethane	ND	ppbv	13.8	27.6		01/31/08 23:20	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	13.8	27.6		01/31/08 23:20	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	13.8	27.6		01/31/08 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	13.8	27.6		01/31/08 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	13.8	27.6		01/31/08 23:20	106-46-7	
Dichlorodifluoromethane	**956**	ppbv	442	883.2		02/05/08 00:23	75-71-8	A3
1,1-Dichloroethane	**19.1**	ppbv	13.8	27.6		01/31/08 23:20	75-34-3	
1,2-Dichloroethane	ND	ppbv	13.8	27.6		01/31/08 23:20	107-06-2	
1,1-Dichloroethene	ND	ppbv	13.8	27.6		01/31/08 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ppbv	13.8	27.6		01/31/08 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	13.8	27.6		01/31/08 23:20	156-60-5	
1,2-Dichloropropane	ND	ppbv	13.8	27.6		01/31/08 23:20	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	13.8	27.6		01/31/08 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	13.8	27.6		01/31/08 23:20	10061-02-6	
Dichlorotetrafluoroethane	**274**	ppbv	13.8	27.6		01/31/08 23:20	76-14-2	
Ethylbenzene	**200**	ppbv	13.8	27.6		01/31/08 23:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	13.8	27.6		01/31/08 23:20	87-68-3	
Methylene Chloride	ND	ppbv	13.8	27.6		01/31/08 23:20	75-09-2	
Styrene	ND	ppbv	13.8	27.6		01/31/08 23:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	13.8	27.6		01/31/08 23:20	79-34-5	
Tetrachloroethene	ND	ppbv	13.8	27.6		01/31/08 23:20	127-18-4	
Toluene	**80.0**	ppbv	13.8	27.6		01/31/08 23:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	13.8	27.6		01/31/08 23:20	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	13.8	27.6		01/31/08 23:20	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	13.8	27.6		01/31/08 23:20	79-00-5	
Trichloroethene	ND	ppbv	13.8	27.6		01/31/08 23:20	79-01-6	
Trichlorofluoromethane	**82.0**	ppbv	13.8	27.6		01/31/08 23:20	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	13.8	27.6		01/31/08 23:20	76-13-1	
1,2,4-Trimethylbenzene	**77.7**	ppbv	13.8	27.6		01/31/08 23:20	95-63-6	
1,3,5-Trimethylbenzene	**24.1**	ppbv	13.8	27.6		01/31/08 23:20	108-67-8	
Vinyl chloride	**18.4**	ppbv	13.8	27.6		01/31/08 23:20	75-01-4	
m&p-Xylene	**1530**	ppbv	883	883.2		02/05/08 00:23	1330-20-7	A3
o-Xylene	**19.9**	ppbv	13.8	27.6		01/31/08 23:20	95-47-6	

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ANALYTICAL RESULTS

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Sample: LC-3 **Lab ID: 1066963003** Collected: 01/23/08 07:25 Received: 01/24/08 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSV AIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	**4.5**	ppbv	0.67	1.34		01/31/08 23:54	71-43-2	
Bromomethane	ND	ppbv	0.67	1.34		01/31/08 23:54	74-83-9	
Carbon tetrachloride	ND	ppbv	0.67	1.34		01/31/08 23:54	56-23-5	
Chlorobenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	108-90-7	
Chloroethane	ND	ppbv	0.67	1.34		01/31/08 23:54	75-00-3	
Chloroform	ND	ppbv	0.67	1.34		01/31/08 23:54	67-66-3	
Chloromethane	ND	ppbv	0.67	1.34		01/31/08 23:54	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.67	1.34		01/31/08 23:54	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	106-46-7	
Dichlorodifluoromethane	**44.2**	ppbv	0.67	1.34		01/31/08 23:54	75-71-8	E
1,1-Dichloroethane	**1.0**	ppbv	0.67	1.34		01/31/08 23:54	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.67	1.34		01/31/08 23:54	107-06-2	
1,1-Dichloroethene	**10.4**	ppbv	0.67	1.34		01/31/08 23:54	75-35-4	
cis-1,2-Dichloroethene	**1820**	ppbv	214	428.8		02/05/08 00:55	156-59-2	A3
trans-1,2-Dichloroethene	ND	ppbv	0.67	1.34		01/31/08 23:54	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.67	1.34		01/31/08 23:54	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.67	1.34		01/31/08 23:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.67	1.34		01/31/08 23:54	10061-02-6	
Dichlorotetrafluoroethane	**14.2**	ppbv	0.67	1.34		01/31/08 23:54	76-14-2	
Ethylbenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.67	1.34		01/31/08 23:54	87-68-3	
Methylene Chloride	**69.1**	ppbv	0.67	1.34		01/31/08 23:54	75-09-2	E
Styrene	ND	ppbv	0.67	1.34		01/31/08 23:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.67	1.34		01/31/08 23:54	79-34-5	
Tetrachloroethene	ND	ppbv	0.67	1.34		01/31/08 23:54	127-18-4	
Toluene	**37.9**	ppbv	0.67	1.34		01/31/08 23:54	108-88-3	E
1,2,4-Trichlorobenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.67	1.34		01/31/08 23:54	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.67	1.34		01/31/08 23:54	79-00-5	
Trichloroethene	**14.5**	ppbv	0.67	1.34		01/31/08 23:54	79-01-6	
Trichlorofluoromethane	**2.1**	ppbv	0.67	1.34		01/31/08 23:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.67	1.34		01/31/08 23:54	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	0.67	1.34		01/31/08 23:54	108-67-8	
Vinyl chloride	**1220**	ppbv	214	428.8		02/05/08 00:55	75-01-4	A3
m&p-Xylene	ND	ppbv	1.3	1.34		01/31/08 23:54	1330-20-7	
o-Xylene	ND	ppbv	0.67	1.34		01/31/08 23:54	95-47-6	

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ANALYTICAL RESULTS

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Sample: GV-6 **Lab ID: 1066963004** Collected: 01/23/08 07:38 Received: 01/24/08 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSVAIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	ND	ppbv	11.8	23.6		01/30/08 20:21	71-43-2	
Bromomethane	ND	ppbv	11.8	23.6		01/30/08 20:21	74-83-9	
Carbon tetrachloride	ND	ppbv	11.8	23.6		01/30/08 20:21	56-23-5	
Chlorobenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	108-90-7	
Chloroethane	**87.6**	ppbv	11.8	23.6		01/30/08 20:21	75-00-3	
Chloroform	ND	ppbv	11.8	23.6		01/30/08 20:21	67-66-3	
Chloromethane	ND	ppbv	11.8	23.6		01/30/08 20:21	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	11.8	23.6		01/30/08 20:21	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	106-46-7	
Dichlorodifluoromethane	**375**	ppbv	11.8	23.6		01/30/08 20:21	75-71-8	
1,1-Dichloroethane	**64.8**	ppbv	11.8	23.6		01/30/08 20:21	75-34-3	
1,2-Dichloroethane	ND	ppbv	11.8	23.6		01/30/08 20:21	107-06-2	
1,1-Dichloroethene	ND	ppbv	11.8	23.6		01/30/08 20:21	75-35-4	
cis-1,2-Dichloroethene	**16.0**	ppbv	11.8	23.6		01/30/08 20:21	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	11.8	23.6		01/30/08 20:21	156-60-5	
1,2-Dichloropropane	ND	ppbv	11.8	23.6		01/30/08 20:21	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	11.8	23.6		01/30/08 20:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	11.8	23.6		01/30/08 20:21	10061-02-6	
Dichlorotetrafluoroethane	**69.5**	ppbv	11.8	23.6		01/30/08 20:21	76-14-2	
Ethylbenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	11.8	23.6		01/30/08 20:21	87-68-3	
Methylene Chloride	ND	ppbv	11.8	23.6		01/30/08 20:21	75-09-2	
Styrene	ND	ppbv	11.8	23.6		01/30/08 20:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	11.8	23.6		01/30/08 20:21	79-34-5	
Tetrachloroethene	ND	ppbv	11.8	23.6		01/30/08 20:21	127-18-4	
Toluene	ND	ppbv	11.8	23.6		01/30/08 20:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	120-82-1	
1,1,1-Trichloroethane	**40.0**	ppbv	11.8	23.6		01/30/08 20:21	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	11.8	23.6		01/30/08 20:21	79-00-5	
Trichloroethene	ND	ppbv	11.8	23.6		01/30/08 20:21	79-01-6	
Trichlorofluoromethane	**41.4**	ppbv	11.8	23.6		01/30/08 20:21	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	11.8	23.6		01/30/08 20:21	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	11.8	23.6		01/30/08 20:21	108-67-8	
Vinyl chloride	ND	ppbv	11.8	23.6		01/30/08 20:21	75-01-4	
m&p-Xylene	ND	ppbv	23.6	23.6		01/30/08 20:21	1330-20-7	
o-Xylene	ND	ppbv	11.8	23.6		01/30/08 20:21	95-47-6	

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ANALYTICAL RESULTS

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Sample: GP-3 **Lab ID: 1066963005** Collected: 01/23/08 07:55 Received: 01/24/08 09:55 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO14 MSVAIR - Ambient	Analytical Method: TO-14 Ambient Air							
Benzene	ND	ppbv	0.59	1.18		01/30/08 20:53	71-43-2	
Bromomethane	ND	ppbv	0.59	1.18		01/30/08 20:53	74-83-9	
Carbon tetrachloride	ND	ppbv	0.59	1.18		01/30/08 20:53	56-23-5	
Chlorobenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	108-90-7	
Chloroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	75-00-3	
Chloroform	ND	ppbv	0.59	1.18		01/30/08 20:53	67-66-3	
Chloromethane	ND	ppbv	0.59	1.18		01/30/08 20:53	74-87-3	
1,2-Dibromoethane (EDB)	ND	ppbv	0.59	1.18		01/30/08 20:53	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	95-50-1	
1,3-Dichlorobenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	106-46-7	
Dichlorodifluoromethane	**3.4**	ppbv	0.59	1.18		01/30/08 20:53	75-71-8	
1,1-Dichloroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	75-34-3	
1,2-Dichloroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	107-06-2	
1,1-Dichloroethene	ND	ppbv	0.59	1.18		01/30/08 20:53	75-35-4	
cis-1,2-Dichloroethene	**7.3**	ppbv	0.59	1.18		01/30/08 20:53	156-59-2	
trans-1,2-Dichloroethene	ND	ppbv	0.59	1.18		01/30/08 20:53	156-60-5	
1,2-Dichloropropane	ND	ppbv	0.59	1.18		01/30/08 20:53	78-87-5	
cis-1,3-Dichloropropene	ND	ppbv	0.59	1.18		01/30/08 20:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ppbv	0.59	1.18		01/30/08 20:53	10061-02-6	
Dichlorotetrafluoroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	76-14-2	
Ethylbenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.59	1.18		01/30/08 20:53	87-68-3	
Methylene Chloride	ND	ppbv	0.59	1.18		01/30/08 20:53	75-09-2	
Styrene	ND	ppbv	0.59	1.18		01/30/08 20:53	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	79-34-5	
Tetrachloroethene	ND	ppbv	0.59	1.18		01/30/08 20:53	127-18-4	
Toluene	ND	ppbv	0.59	1.18		01/30/08 20:53	108-88-3	
1,2,4-Trichlorobenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	120-82-1	
1,1,1-Trichloroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	71-55-6	
1,1,2-Trichloroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	79-00-5	
Trichloroethene	**2.2**	ppbv	0.59	1.18		01/30/08 20:53	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.59	1.18		01/30/08 20:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.59	1.18		01/30/08 20:53	76-13-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ppbv	0.59	1.18		01/30/08 20:53	108-67-8	
Vinyl chloride	ND	ppbv	0.59	1.18		01/30/08 20:53	75-01-4	
m&p-Xylene	ND	ppbv	1.2	1.18		01/30/08 20:53	1330-20-7	
o-Xylene	ND	ppbv	0.59	1.18		01/30/08 20:53	95-47-6	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

QC Batch: AIR/6500
QC Batch Method: TO-14 Ambient Air
Analysis Method: TO-14 Ambient Air
Analysis Description: TO14 MSV AIR - AMBIENT
Associated Lab Samples: 1066963001

METHOD BLANK: 438543
Associated Lab Samples: 1066963001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	
1,1,2-Trichloroethane	ppbv	ND	0.50	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	
1,1-Dichloroethane	ppbv	ND	0.50	
1,1-Dichloroethene	ppbv	ND	0.50	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	
1,2-Dichlorobenzene	ppbv	ND	0.50	
1,2-Dichloroethane	ppbv	ND	0.50	
1,2-Dichloropropane	ppbv	ND	0.50	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	
1,3-Dichlorobenzene	ppbv	ND	0.50	
1,4-Dichlorobenzene	ppbv	ND	0.50	
Benzene	ppbv	ND	0.50	
Bromomethane	ppbv	ND	0.50	
Carbon tetrachloride	ppbv	ND	0.50	
Chlorobenzene	ppbv	ND	0.50	
Chloroethane	ppbv	ND	0.50	
Chloroform	ppbv	ND	0.50	
Chloromethane	ppbv	ND	0.50	
cis-1,2-Dichloroethene	ppbv	ND	0.50	
cis-1,3-Dichloropropene	ppbv	ND	0.50	
Dichlorodifluoromethane	ppbv	ND	0.50	
Dichlorotetrafluoroethane	ppbv	ND	0.50	
Ethylbenzene	ppbv	ND	0.50	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	
m&p-Xylene	ppbv	ND	1.0	
Methylene Chloride	ppbv	ND	0.50	
o-Xylene	ppbv	ND	0.50	
Styrene	ppbv	ND	0.50	
Tetrachloroethene	ppbv	ND	0.50	
Toluene	ppbv	ND	0.50	
trans-1,2-Dichloroethene	ppbv	ND	0.50	
trans-1,3-Dichloropropene	ppbv	ND	0.50	
Trichloroethene	ppbv	ND	0.50	
Trichlorofluoromethane	ppbv	ND	0.50	
Vinyl chloride	ppbv	ND	0.50	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

LABORATORY CONTROL SAMPLE: 438544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	11	11.2	102	61-137	
1,1,2,2-Tetrachloroethane	ppbv	10.2	7.8	77	61-136	
1,1,2-Trichloroethane	ppbv	9.7	7.3	75	64-129	
1,1,2-Trichlorotrifluoroethane	ppbv	7.8	9.3	119	54-140	
1,1-Dichloroethane	ppbv	9	7.7	86	50-150	
1,1-Dichloroethene	ppbv	10.3	9.1	89	60-136	
1,2,4-Trichlorobenzene	ppbv	8.7	18.0	206	50-150	L3
1,2,4-Trimethylbenzene	ppbv	9.8	11.1	114	59-143	
1,2-Dibromoethane (EDB)	ppbv	10.3	7.8	76	69-137	
1,2-Dichlorobenzene	ppbv	10.2	11.8	115	56-148	
1,2-Dichloroethane	ppbv	10.9	8.1	74	61-134	
1,2-Dichloropropane	ppbv	11.7	10.9	93	64-134	
1,3,5-Trimethylbenzene	ppbv	10.5	8.0	77	61-139	
1,3-Dichlorobenzene	ppbv	10	10.8	108	63-140	
1,4-Dichlorobenzene	ppbv	10	11.5	115	57-143	
Benzene	ppbv	10	9.7	97	59-135	
Bromomethane	ppbv	9.8	8.7	89	50-150	
Carbon tetrachloride	ppbv	10.5	8.5	81	54-141	
Chlorobenzene	ppbv	10.4	7.6	73	69-136	
Chloroethane	ppbv	9.8	8.8	89	64-137	
Chloroform	ppbv	10.7	8.2	76	50-150	
Chloromethane	ppbv	9.9	11.0	111	64-134	
cis-1,2-Dichloroethene	ppbv	10.2	8.5	83	62-135	
cis-1,3-Dichloropropene	ppbv	12.6	9.7	77	62-140	
Dichlorodifluoromethane	ppbv	10.7	7.8	73	60-133	
Dichlorotetrafluoroethane	ppbv	9.7	10.3	106	62-135	
Ethylbenzene	ppbv	11.4	8.3	72	65-136	
Hexachloro-1,3-butadiene	ppbv	8	20.7	258	50-150	L3
m&p-Xylene	ppbv	20.8	19.5	94	67-132	
Methylene Chloride	ppbv	8.6	10	116	60-134	
o-Xylene	ppbv	10.2	10.2	100	65-132	
Styrene	ppbv	9.8	7.5	77	66-144	
Tetrachloroethene	ppbv	10.6	11.0	103	68-133	
Toluene	ppbv	10.3	10.7	104	61-135	
trans-1,2-Dichloroethene	ppbv	10.7	12.4	116	50-150	
trans-1,3-Dichloropropene	ppbv	10.9	8.1	75	66-140	
Trichloroethene	ppbv	10.1	10.2	101	67-132	
Trichlorofluoromethane	ppbv	9	8.8	98	57-140	
Vinyl chloride	ppbv	9.7	11.0	113	58-147	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

QC Batch: AIR/6506 Analysis Method: TO-14 Ambient Air
QC Batch Method: TO-14 Ambient Air Analysis Description: TO14 MSV AIR - AMBIENT
Associated Lab Samples: 1066963004, 1066963005

METHOD BLANK: 439096

Associated Lab Samples: 1066963004, 1066963005

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	
1,1,2-Trichloroethane	ppbv	ND	0.50	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	
1,1-Dichloroethane	ppbv	ND	0.50	
1,1-Dichloroethene	ppbv	ND	0.50	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	
1,2-Dichlorobenzene	ppbv	ND	0.50	
1,2-Dichloroethane	ppbv	ND	0.50	
1,2-Dichloropropane	ppbv	ND	0.50	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	
1,3-Dichlorobenzene	ppbv	ND	0.50	
1,4-Dichlorobenzene	ppbv	ND	0.50	
Benzene	ppbv	ND	0.50	
Bromomethane	ppbv	ND	0.50	
Carbon tetrachloride	ppbv	ND	0.50	
Chlorobenzene	ppbv	ND	0.50	
Chloroethane	ppbv	ND	0.50	
Chloroform	ppbv	ND	0.50	
Chloromethane	ppbv	ND	0.50	
cis-1,2-Dichloroethene	ppbv	ND	0.50	
cis-1,3-Dichloropropene	ppbv	ND	0.50	
Dichlorodifluoromethane	ppbv	ND	0.50	
Dichlorotetrafluoroethane	ppbv	ND	0.50	
Ethylbenzene	ppbv	ND	0.50	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	
m&p-Xylene	ppbv	ND	1.0	
Methylene Chloride	ppbv	ND	0.50	
o-Xylene	ppbv	ND	0.50	
Styrene	ppbv	ND	0.50	
Tetrachloroethene	ppbv	ND	0.50	
Toluene	ppbv	ND	0.50	
trans-1,2-Dichloroethene	ppbv	ND	0.50	
trans-1,3-Dichloropropene	ppbv	ND	0.50	
Trichloroethene	ppbv	ND	0.50	
Trichlorofluoromethane	ppbv	ND	0.50	
Vinyl chloride	ppbv	ND	0.50	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

LABORATORY CONTROL SAMPLE: 439097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	11	10.7	97	61-137	
1,1,2,2-Tetrachloroethane	ppbv	10.2	7.7	76	61-136	
1,1,2-Trichloroethane	ppbv	9.7	7.3	76	64-129	
1,1,2-Trichlorotrifluoroethane	ppbv	7.8	8.5	109	54-140	
1,1-Dichloroethane	ppbv	9	7.3	81	50-150	
1,1-Dichloroethene	ppbv	10.3	8.1	79	60-136	
1,2,4-Trichlorobenzene	ppbv	8.7	17.5	201	50-150	L3
1,2,4-Trimethylbenzene	ppbv	9.8	10.9	111	59-143	
1,2-Dibromoethane (EDB)	ppbv	10.3	7.8	76	69-137	
1,2-Dichlorobenzene	ppbv	10.2	11.7	115	56-148	
1,2-Dichloroethane	ppbv	10.9	8.0	73	61-134	
1,2-Dichloropropane	ppbv	11.7	10.6	90	64-134	
1,3,5-Trimethylbenzene	ppbv	10.5	7.9	75	61-139	
1,3-Dichlorobenzene	ppbv	10	10.8	108	63-140	
1,4-Dichlorobenzene	ppbv	10	11.5	115	57-143	
Benzene	ppbv	10	9.2	92	59-135	
Bromomethane	ppbv	9.8	7.6	77	50-150	
Carbon tetrachloride	ppbv	10.5	8.0	77	54-141	
Chlorobenzene	ppbv	10.4	7.5	72	69-136	
Chloroethane	ppbv	9.8	7.7	78	64-137	
Chloroform	ppbv	10.7	7.9	74	50-150	
Chloromethane	ppbv	9.9	9.5	95	64-134	
cis-1,2-Dichloroethene	ppbv	10.2	8.1	79	62-135	
cis-1,3-Dichloropropene	ppbv	12.6	9.8	78	62-140	
Dichlorodifluoromethane	ppbv	10.7	7.2	67	60-133	
Dichlorotetrafluoroethane	ppbv	9.7	8.8	91	62-135	
Ethylbenzene	ppbv	11.4	7.9	70	65-136	
Hexachloro-1,3-butadiene	ppbv	8	20.5	257	50-150	L3
m&p-Xylene	ppbv	20.8	18.9	91	67-132	
Methylene Chloride	ppbv	8.6	9.3	108	60-134	
o-Xylene	ppbv	10.2	9.9	97	65-132	
Styrene	ppbv	9.8	7.4	76	66-144	
Tetrachloroethene	ppbv	10.6	10.4	99	68-133	
Toluene	ppbv	10.3	10.5	102	61-135	
trans-1,2-Dichloroethene	ppbv	10.7	11.5	107	50-150	
trans-1,3-Dichloropropene	ppbv	10.9	8.4	77	66-140	
Trichloroethene	ppbv	10.1	10	99	67-132	
Trichlorofluoromethane	ppbv	9	7.8	87	57-140	
Vinyl chloride	ppbv	9.7	9.4	97	58-147	

SAMPLE DUPLICATE: 439227

Parameter	Units	1066953001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND	0	30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND	0	30	
1,1,2-Trichloroethane	ppbv	ND	ND	0	30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND	0	30	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

SAMPLE DUPLICATE: 439227

Parameter	Units	1066953001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethane	ppbv	ND	.4J	2	30	
1,1-Dichloroethene	ppbv	3.7	3.7	1	30	
1,2,4-Trichlorobenzene	ppbv	ND	ND	0	30	
1,2,4-Trimethylbenzene	ppbv	ND	ND	0	30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND	0	30	
1,2-Dichlorobenzene	ppbv	ND	ND	0	30	
1,2-Dichloroethane	ppbv	ND	ND	0	30	
1,2-Dichloropropane	ppbv	ND	ND	0	30	
1,3,5-Trimethylbenzene	ppbv	ND	ND	0	30	
1,3-Dichlorobenzene	ppbv	ND	ND	0	30	
1,4-Dichlorobenzene	ppbv	ND	ND	0	30	
Benzene	ppbv	ND	ND	0	30	
Bromomethane	ppbv	ND	ND	0	30	
Carbon tetrachloride	ppbv	ND	ND	0	30	
Chlorobenzene	ppbv	ND	ND	0	30	
Chloroethane	ppbv	ND	ND	0	30	
Chloroform	ppbv	ND	ND	0	30	
Chloromethane	ppbv	ND	.47J	1	30	
cis-1,2-Dichloroethene	ppbv	3.6	3.7	1	30	
cis-1,3-Dichloropropene	ppbv	ND	ND	0	30	
Dichlorodifluoromethane	ppbv	ND	.45J	8	30	
Dichlorotetrafluoroethane	ppbv	ND	ND	0	30	
Ethylbenzene	ppbv	ND	ND	0	30	
Hexachloro-1,3-butadiene	ppbv	ND	ND	0	30	
m&p-Xylene	ppbv	ND	ND	0	30	
Methylene Chloride	ppbv	ND	ND	0	30	
o-Xylene	ppbv	ND	ND	0	30	
Styrene	ppbv	ND	ND	0	30	
Tetrachloroethene	ppbv	1.2	1.2	1	30	
Toluene	ppbv	ND	ND	0	30	
trans-1,2-Dichloroethene	ppbv	ND	ND	0	30	
trans-1,3-Dichloropropene	ppbv	ND	ND	0	30	
Trichloroethene	ppbv	24.0	24.2	.6	30	
Trichlorofluoromethane	ppbv	ND	ND	0	30	
Vinyl chloride	ppbv	ND	ND	0	30	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

QC Batch: AIR/6511
QC Batch Method: TO-14 Ambient Air
Analysis Method: TO-14 Ambient Air
Analysis Description: TO14 MSV AIR - AMBIENT
Associated Lab Samples: 1066963002, 1066963003

METHOD BLANK: 439371
Associated Lab Samples: 1066963002, 1066963003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.50	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.50	
1,1,2-Trichloroethane	ppbv	ND	0.50	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.50	
1,1-Dichloroethane	ppbv	ND	0.50	
1,1-Dichloroethene	ppbv	ND	0.50	
1,2,4-Trichlorobenzene	ppbv	ND	0.50	
1,2,4-Trimethylbenzene	ppbv	ND	0.50	
1,2-Dibromoethane (EDB)	ppbv	ND	0.50	
1,2-Dichlorobenzene	ppbv	ND	0.50	
1,2-Dichloroethane	ppbv	ND	0.50	
1,2-Dichloropropane	ppbv	ND	0.50	
1,3,5-Trimethylbenzene	ppbv	ND	0.50	
1,3-Dichlorobenzene	ppbv	ND	0.50	
1,4-Dichlorobenzene	ppbv	ND	0.50	
Benzene	ppbv	ND	0.50	
Bromomethane	ppbv	ND	0.50	
Carbon tetrachloride	ppbv	ND	0.50	
Chlorobenzene	ppbv	ND	0.50	
Chloroethane	ppbv	ND	0.50	
Chloroform	ppbv	ND	0.50	
Chloromethane	ppbv	ND	0.50	
cis-1,2-Dichloroethene	ppbv	ND	0.50	
cis-1,3-Dichloropropene	ppbv	ND	0.50	
Dichlorodifluoromethane	ppbv	ND	0.50	
Dichlorotetrafluoroethane	ppbv	ND	0.50	
Ethylbenzene	ppbv	ND	0.50	
Hexachloro-1,3-butadiene	ppbv	ND	0.50	
m&p-Xylene	ppbv	ND	1.0	
Methylene Chloride	ppbv	ND	0.50	
o-Xylene	ppbv	ND	0.50	
Styrene	ppbv	ND	0.50	
Tetrachloroethene	ppbv	ND	0.50	
Toluene	ppbv	ND	0.50	
trans-1,2-Dichloroethene	ppbv	ND	0.50	
trans-1,3-Dichloropropene	ppbv	ND	0.50	
Trichloroethene	ppbv	ND	0.50	
Trichlorofluoromethane	ppbv	ND	0.50	
Vinyl chloride	ppbv	ND	0.50	

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QUALITY CONTROL DATA

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

LABORATORY CONTROL SAMPLE: 439372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	11	12.0	109	61-137	
1,1,2,2-Tetrachloroethane	ppbv	10.2	8.6	85	61-136	
1,1,2-Trichloroethane	ppbv	9.7	7.8	81	64-129	
1,1,2-Trichlorotrifluoroethane	ppbv	7.8	9.1	116	54-140	
1,1-Dichloroethane	ppbv	9	7.3	81	50-150	
1,1-Dichloroethene	ppbv	10.3	8.5	83	60-136	
1,2,4-Trichlorobenzene	ppbv	8.7	18.0	207	50-150	L3
1,2,4-Trimethylbenzene	ppbv	9.8	12.2	125	59-143	
1,2-Dibromoethane (EDB)	ppbv	10.3	8.5	83	69-137	
1,2-Dichlorobenzene	ppbv	10.2	12.8	125	56-148	
1,2-Dichloroethane	ppbv	10.9	8.7	80	61-134	
1,2-Dichloropropane	ppbv	11.7	11.6	99	64-134	
1,3,5-Trimethylbenzene	ppbv	10.5	8.9	84	61-139	
1,3-Dichlorobenzene	ppbv	10	11.9	119	63-140	
1,4-Dichlorobenzene	ppbv	10	12.5	125	57-143	
Benzene	ppbv	10	10.5	105	59-135	
Bromomethane	ppbv	9.8	8.5	86	50-150	
Carbon tetrachloride	ppbv	10.5	8.8	84	54-141	
Chlorobenzene	ppbv	10.4	8.3	80	69-136	
Chloroethane	ppbv	9.8	8.4	85	64-137	
Chloroform	ppbv	10.7	8.6	81	50-150	
Chloromethane	ppbv	9.9	10.4	105	64-134	
cis-1,2-Dichloroethene	ppbv	10.2	9.2	90	62-135	
cis-1,3-Dichloropropene	ppbv	12.6	10.5	84	62-140	
Dichlorodifluoromethane	ppbv	10.7	8.5	80	60-133	
Dichlorotetrafluoroethane	ppbv	9.7	10.3	106	62-135	
Ethylbenzene	ppbv	11.4	9.1	80	65-136	
Hexachloro-1,3-butadiene	ppbv	8	21.1	264	50-150	L3
m&p-Xylene	ppbv	20.8	21.8	105	67-132	
Methylene Chloride	ppbv	8.6	9.1	106	60-134	
o-Xylene	ppbv	10.2	11.3	110	65-132	
Styrene	ppbv	9.8	8.2	84	66-144	
Tetrachloroethene	ppbv	10.6	11.7	110	68-133	
Toluene	ppbv	10.3	11.6	112	61-135	
trans-1,2-Dichloroethene	ppbv	10.7	12.0	113	50-150	
trans-1,3-Dichloropropene	ppbv	10.9	8.9	81	66-140	
Trichloroethene	ppbv	10.1	10.9	108	67-132	
Trichlorofluoromethane	ppbv	9	8.6	96	57-140	
Vinyl chloride	ppbv	9.7	10.6	109	58-147	

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QUALIFIERS

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

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.

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.

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

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 08-0672 Cooper/City of Ripon
Pace Project No.: 1066963

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1066963001	**LC-1**	TO-14 Ambient Air	AIR/6500		
1066963004	**GV-6**	TO-14 Ambient Air	AIR/6506		
1066963005	**GP-3**	TO-14 Ambient Air	AIR/6506		
1066963002	**LC-2**	TO-14 Ambient Air	AIR/6511		
1066963003	**LC-3**	TO-14 Ambient Air	AIR/6511		

ATTACHMENT D

GROUNDWATER SAMPLING FIELD FORMS

Field Water Quality Form

GeoTrans, Inc.

Project Name FF/NN Landfill
Project Number 1011.005
Location Ripon, WI
Samplers Jack Wendler

Equipment Used
pH Orion 720 A
temp S-W USA
spf con YSI 33

Sample Point	Gaastra	Rohde	Perry/Watkins		
Water Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Date	1.25.08	1.25.08	1.25.08		
Time Sampled	0750	1015	0720		
Depth to Water	NA	NA	NA		
Depth to Bottom	NA	NA	NA		
Purge Volume (gal)	100	100	100		
Depth Sample Taken	NA	NA	NA		
Sampling Device	Spigot	Spigot	Spigot		
Field Temp (C)	9.0	8.0	10.0		
Spf Cond (~~uS/cm~~ @ 25C) umhos	450	450	460		
pH	7.29	7.18	7.48		
Color	slight ~~clear~~	none	slight ~~clear~~		
Odor	none	none	slight		
Clarity	clear	clear	clear		

Analyses Performed					
VOCs (40-mL glass, HCl, not filtered)					
		NA	NA		
		Spigot	Spigot		
Comments	7.29	7.18	7.48		
Lab Sent To	PACE				
Date Sent					
Sampled by	Jack Wendler	Jack Wendler	Jack Wendler		
		none	slight		

GeoTrans, Inc.

Water Levels

FF/NN Landfill, Ripon, WI

Date: 1-22-08, 1-26-08 Personnel: Jack Wendler

	Well Name	TOC Elevation	Depth to Water	Comments
1-26-08	MW-101	884.80	62.33	
1-24-08	P-101	885.26	62.83	
1-26-08	MW-102	843.05	20.10	
1-26-08	P-102	842.99	19.96	
1-26-08	MW-103	872.42	51.96	
1-22-08	P-103	872.92	50.06	
1-22-08	P-103D	873.08	51.14	
1-22-08	MW-104	875.15	52.90	
1-26-08	P-104	875.48	53.04	
1-22-08	MW-106	878.90	56.06	
1-26-08	P-106	878.91	56.16	
	MW-107	871.78	52.47	
	P-107	871.38	52.90	
	P-107D	871.98	51.66	
	MW-108	845.25	27.75	
	P-108	845.61	25.17	
	M -111	856.46	*	* unable to remove cap
	P-111	856.13	39.28	
	P-111D	855.79	35.65	
	MW-112	874.55	55.14	
	P-113A	833.09	13.18	
	P-113B	833.10	13.75	
	P-114 (Ehster)	839.35	20.35	
	P-115 (Wiese)	842.71	23.52	
	P-116 (Hadel)	845.34	27.58	
	M -3A	850.77	29.67	
	MW-3B	851.04	29.96	
*take measurements from 113, 107, 3A-3B well nests consecutively				

ATTACHMENT E

LANDFILL GAS EXTRACTION SYSTEM MONITORING FIELD FORMS

GeoTrans, Inc.

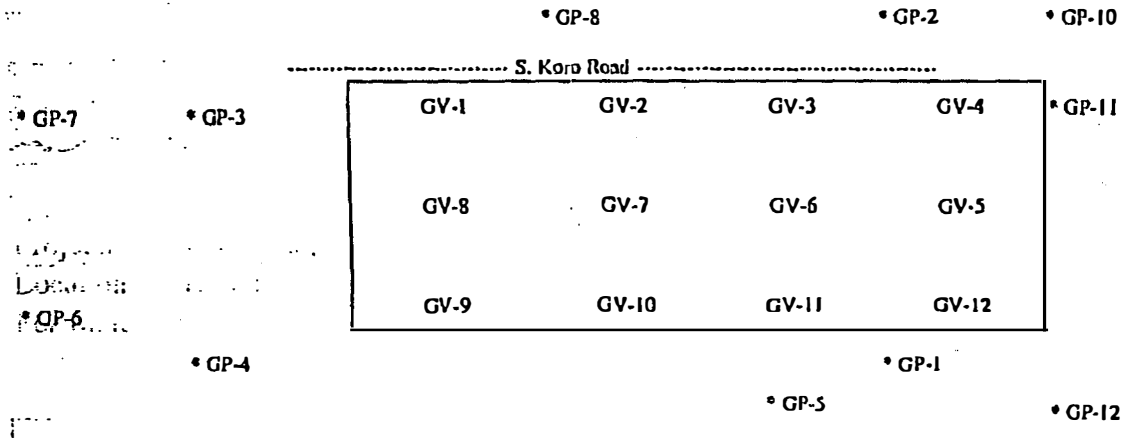
GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jon Wendler

Barometric Pressure: 28.8" Hg
Temperature (ambient): 24° F
Measuring Device: Eagle
Gage reading 6

LEL *

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
1.9.08	0920	Background	4 *	0.0	20.7	0	0.5	
	1015	LC-1	6.0	17.0	3.7	764	4.0	
	0940	LC-2	24.5	21.6	4.7	72.8	15+	
	0930	LC-3	8.5	14.6	6.6	682	4.0	
		GV-1						
		GV-4						
	1005	GV-6	6.0	15.6	4.9	47	0.5	
		GV-7						
		GV-9						
		GV-12						
	0955	GP-1	7 *	1.0	17.7	—	0	



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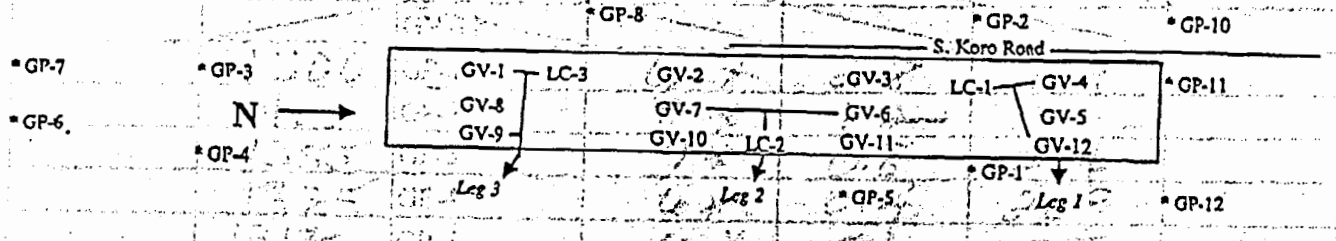
GeoTrans, Inc.

GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: JackUkender

Barometric Pressure: 29.1 Hg
Temperature (ambient): -3° F
Measuring Device: 5-Gauge-Trailer LEL ✱ Ø No pressure gauge

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Comments Vel. ft/min	" H_2O Pressure
1-23-08	1120	Background	0 ✱	0.0	20.9	0	—Ø
	1210	LC-1	5.0	15.8	5.2	463	—Ø
	1158	LC-2	19.0	18.2	7.4	1321	—Ø
	1150	LC-3	7.5	14.4	7.3	782	—Ø
	1218	MW-101	4 ✱	5.8	14.4		
	1405	MW-102	7 ✱	1.2	20.9		
	1345	MW-103	7 ✱	0.2	20.9		
	1320	MW-104	6 ✱	0.6	20.6		
		GV-1					
		GV-4					
	1205	GV-6	5.5	13.4	7.3	31	Ø
		GV-7					
		GV-9					
		GV-12					
	1300	GP-1	6 ✱	2.8	13.9		—
	1410	GP-2	8 ✱	1.2	20.2		
	1355	GP-3	7 ✱	0.8	20.0		
	1325	GP-4	6 ✱	0.4	20.9		
	1312	GP-5	6 ✱	5.6	15.7		
	1128	GP-6	0 ✱	3.0	18.0		
	1124	GP-7	0 ✱	3.2	17.6		
	1138	GP-8	1 ✱	1.0	19.2		
	1420	GP-10	5 ✱	2.8	18.8		
	1210	GP-11	4 ✱	2.4	19.2		
	1308	GP-12	6 ✱	7.2	12.2		
	1235	Leg 1	7.0	13.2	8.5		
	1237	Leg 2	14.0	14.4	9.7		
	1239	Leg3	5.5	16.6	4.6		
	1250	Exhaust	8.5	15.6	7.1		



GeoTrans, Inc.

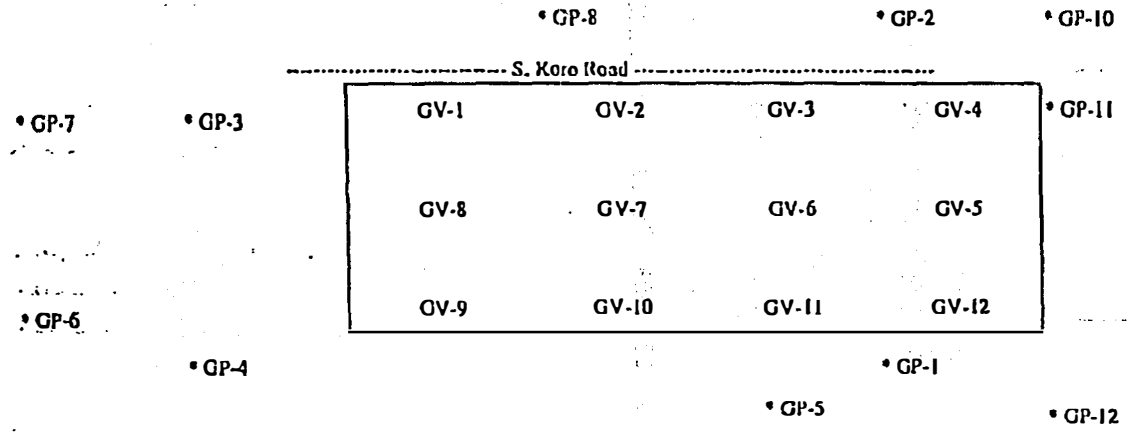
GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: [illegible]

Barometric Pressure: 20.1 Hg
Temperature (ambient): ____ F
Measuring Device: Eagle
Gage reading 5 "Hg

% LEL

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (fl/min)	Pressure (in H^2O)	Comments
2.4.08	0830	Background	0.0*	0.0	20.9	0	—	
	0920	LC-1	8.0	17.4	3.3	472	—	
	850	LC-2	17.0	15.4	9.4	1158	—	
	0840	LC-3	10.0	15.6	6.1	652	—	
		GV-1						
		GV-4						
	0910	GV-6	12.5	19.4	0.9	517	—	
		GV-7						
		GV-9						
		GV-12						
↓	0900	GP-1	1*	3.2	14.6	—	—	



GeoTrans, Inc.

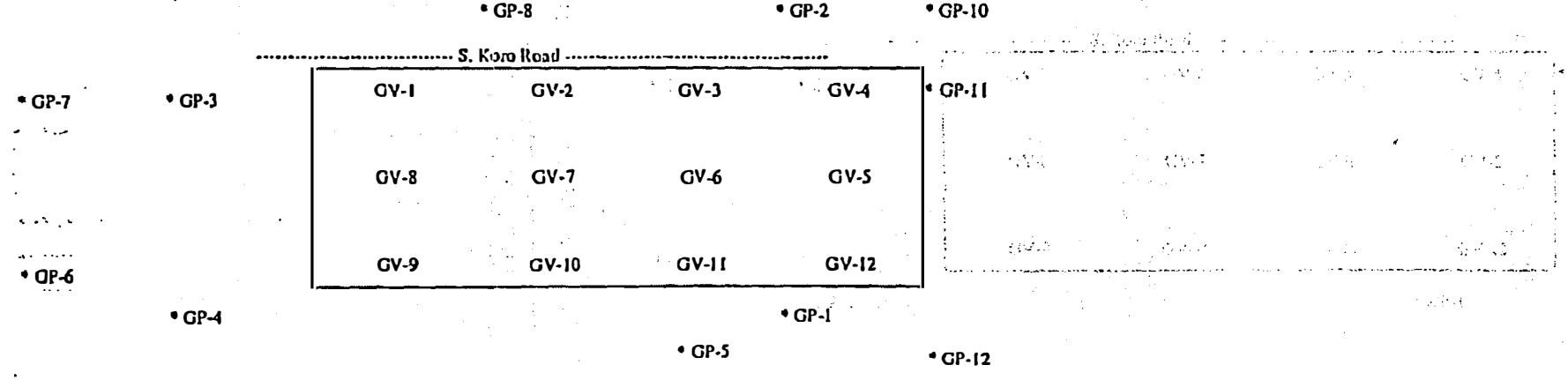
GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Wendler

Barometric Pressure: 28.5 Hg
Temperature (ambient): 22.0 F
Measuring Device: Eagle
Gage reading 5.5

LEL *

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
2.18.08	0705	Background	0.2*	0.0	20.6	0	—	
	0750	LC-1	12.0	17.6	3.8	733	—	
	0720	LC-2	25.5	20.4	6.3	654	—	
	0710	LC-3	12.5	15.4	6.8	1033	—	
		GV-1						
		GV-4						
	0740	GV-6	17.0	20.4	0.2	417	—	
		GV-7						
		GV-9						
		GV-12						
	6730	GP-1	3 *	2.0	14.8	—	—	



GeoTrans, Inc.

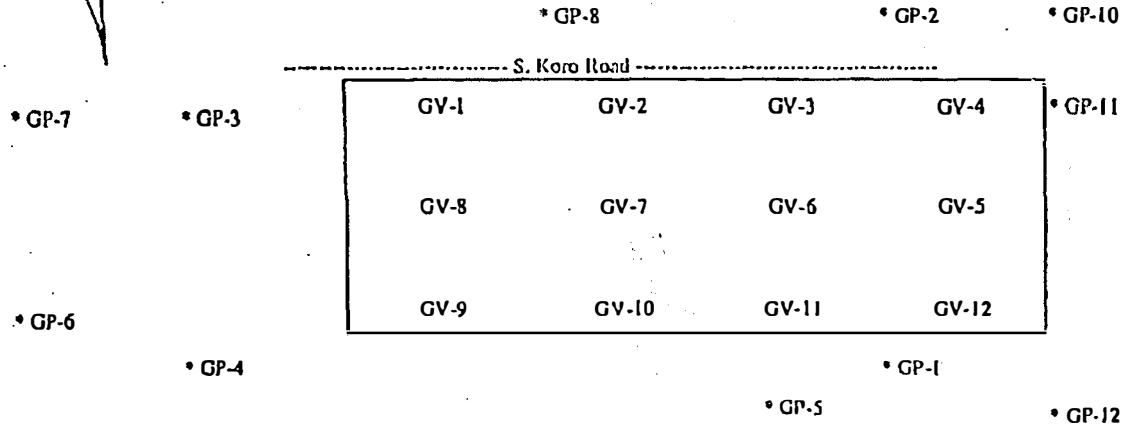
GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: [signature]

Barometric Pressure: 29.4 Hg
Temperature (ambient): -5 F
Measuring Device: Eagle
Gage reading 5.5

LEL *

Date	Time	Measurement Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
2.4.08	0705	Background	2 *	0.0	20.9	0	—	
	0730	LC-1	20.0	18.0	6.0	701	—	
	0715	LC-2	30.5	21.2	7.1	1291	—	
	0740	LC-3	17.5	17.8	7.5	768		
		GV-1						
		GV-4						
	0720	GV-6	21.0	21.0	0.9	73	—	
		GV-7						
		GV-9						
		GV-12						
	0710	GP-1	2 *	1.2	19.1	0	—	



GeoTrans, Inc.

GAS PROBE DATA

Project: FF/NN Landfill
Location: Ripon, Wisconsin
Personnel: Jack Handler

Barometric Pressure: 29.0 Hg
Temperature (ambient): 30 F
Measuring Device: Eagle
Gage reading 5

LEL *

Date	Time	Measure-ment Point	% CH_4	% CO_2	% O_2	Vel (ft/min)	Pressure (in H^2O)	Comments
3.18.08	0800	Background	1 *	0.0	20.9	0	—	
	0850	LC-1	23.0	19.8	3.9	185		
	0825	LC-2	32.5	22.6	5.5	913	—	
	0815	LC-3	20.0	17.6	6.2	980	—	
		GV-1						
		GV-4						
	0835	GV-6	31.0	22.8	0.2	911		
		GV-7						
		GV-9						
		GV-12						
	0805	GP-1	2 *	0.4	19.5	—	—