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File

Preliminary Investigation Findings and Request for No Action Required

1036-1038 West National Avenue Milwaukee, Wisconsin

Prepared For:

The Redevelopment Authority of the City of Milwaukee Milwaukee, Wisconsin

October 4, 2004

Project No. 1E-0407063

GILES
ENGINEERING ASSOCIATES, INC.

GILES
ENGINEERING ASSOCIATES, INC.
GEOTECHNICAL, ENVIRONMENTAL & CONSTRUCTION MATERIALS CONSULTANTS

• Atlanta, GA
• Dallas, TX
• Los Angeles, CA
• Milwaukee, WI
• Orlando, FL
• Washington, D.C.

October 4, 2004

Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

Attention: Victoria Stovall
Program Assistant

Subject: Preliminary Investigation Findings
and Request for No Action Required
1036-1038 West National Avenue
Milwaukee, Wisconsin
Giles Project No. 1E-0407063

Dear Ms. Stovall:

Giles Engineering Associates (Giles) on behalf of our client, the Redevelopment Authority of the City of Milwaukee (RACM), performed site investigation activities at the property (Site) located at 1036-1038 West National Avenue in the City of Milwaukee. The Site is approximately 3,500 square-feet in size and is located at the northeast corner of the intersection of West National Avenue and South 11th Street. The Site parcel is long and narrow and is entirely (over 95%) occupied by a brick 2 to 3-story building. The Site has historically been used for automotive rebuilding, primarily radiator repair and body work (from approximately 1935 to 1990).

The Site is currently a privately-owned, tax-delinquent property; however, the RACM is facilitating the transfer of the property via Wisconsin State Statute 75.106 to Kathleen DeVries of Mariposa Investments, LLC. The intended reuse of the Site is an art studio.

On August 13, 2004, Giles installed three direct-push soil borings (HP1, HP2, and HP3) inside the building at the Site to 10 feet below the ground surface (bgs). Two soil samples from each boring were submitted for laboratory analysis of diesel range organics (DRO), volatile organic compounds (VOCs), and Resource Recovery and Conservation Act (RCRA) metals. Boring H2 was converted into a temporary groundwater monitoring well. One groundwater sample was collected from the temporary well on August 13, 2004 and submitted for laboratory analysis of VOCs and RCRA metals. The locations of the borings are shown on Figure 1.

Groundwater was observed at 8 and 7 feet bgs during the installation of H1 and H2, respectively. Groundwater was not observed during the installation of boring H3. Approximately 6 inches of concrete were present at the ground surface of the three boring locations. Fill material, consisting of brown silty clay with variable amounts of fine brown sand, was observed from 2 to 3 feet bgs. The underlying native soil consisted of gray silty clay with trace fine sand. A *Record of Subsurface Exploration* for each boring is included in attachment A.

N8 W22350 Johnson Drive • Suite A1 • Waukesha, WI 53186
262 / 544-0118 • Fax 262 / 549-5868 • E-Mail milwauke@gilesengr.com

Arsenic was detected within the top 4 feet of the Site at levels exceeding the Wisconsin Administrative Code (WAC) Natural Resources (NR) 720.11 generic residual contaminant levels (RCLS) for direct contact exposure. However, the concentrations are all below 5 milligrams per kilogram (mg/kg), which is the general background level for Wisconsin soil according to the Wisconsin Departments of Health and Family Services (DHFS) and Agriculture, Trade, and Consumer Protection (DATCP). Additionally, arsenic levels at the Site were similar at depth, into native soil, which further supports the likelihood that the arsenic is naturally occurring. No other RCRA metals were detected in the soil samples above NR 720.11 RCLs. No DRO or VOCs were detected above laboratory method detection limits. The soil analytical results are presented on Figure 2 and summarized in Table 1. The laboratory analytical report and chain-of-custody form are included in Attachment B.

No VOCs were detected above laboratory method detection limits in the groundwater sample. Except for lead, no RCRA metals were detected above laboratory method quantitation limits and/or detection limits. Lead was detected in the groundwater sample above the NR 140 preventive action limit (PAL). However, it is Giles' opinion that the lead concentration is the result of the sampling method used. Giles believes that the turbid condition of the temporary well samples produced "false positives" because of the high levels of suspended solids in the groundwater. The temporary well samples were collected to provide a qualitative assessment of groundwater quality at the Site. Therefore, Giles recommends that the reported lead PAL exceedance be considered associated with the suspended solids present in the groundwater samples, and not a measure of groundwater quality. Due to the structure of the building at the Site, it is not possible to install NR 141-compliant wells.. The temporary well analytical results are presented on Figure 3 and summarized in Table 2. The laboratory analytical report and chain-of-custody form are included in Attachment C.

Based on the absence of impact to the soil or groundwater of the Site, and the present and future plan for the continued maintenance of a building with a concrete floor that covers the entire Site, Giles, on behalf of RACM, is requesting that no additional environmental action be required. If you have any questions, please contact us at (262) 544-0118.

Respectfully submitted,

GILES ENGINEERING ASSOCIATES, INC.

Erika L. Pape, CHMM
Staff Scientist II

Richard A. Kormanik, P.E.
Senior Project Manager

Figures
Figure 1. Boring Location Plan
Figure 2. Soil Analytical Report
Figure 3. Groundwater Analytical Report

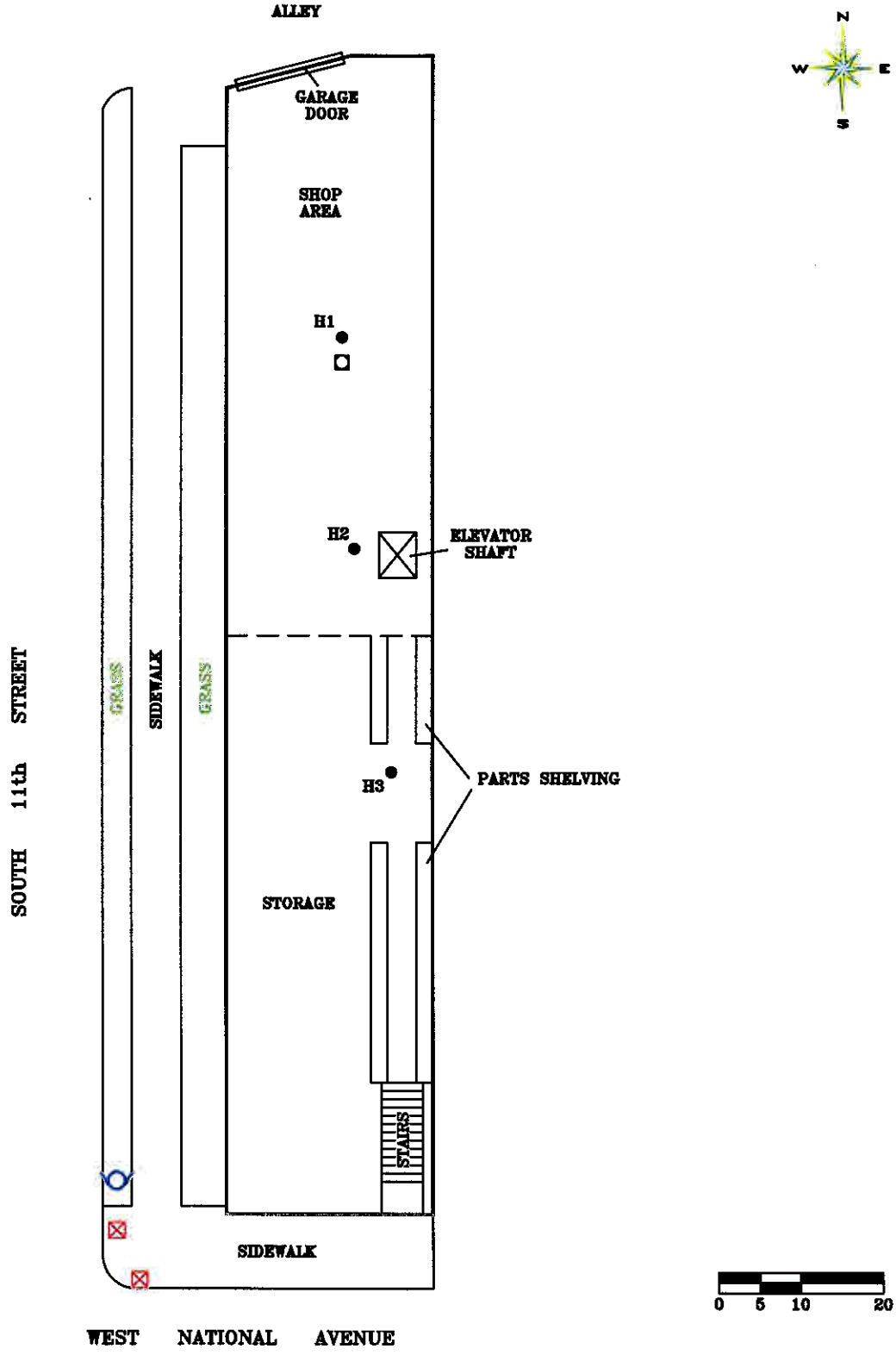
Tables

Table 1. Soil Analytical Results
Table 2. Groundwater Analytical Results – Temporary Wells

Attachments

Attachment A: *Records of Subsurface Exploration*
Attachment B: Soil laboratory analytical Report and Chain of Custody
Attachment C: Groundwater laboratory analytical Report and Chain of Custody

Distribution: Wisconsin Department of Natural Resources
Attn: Victoria Stovall
Redevelopment Authority of the City of Milwaukee
Attn: Mr. Benjamin Timm
Mariposa Investments, LLC
Attn: Karin DeVries



LEGEND:

- H1 — DIRECT PUSH SOIL BORING
- STOP LIGHT
- FIRE HYDRANT
- FLOOR DRAIN

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

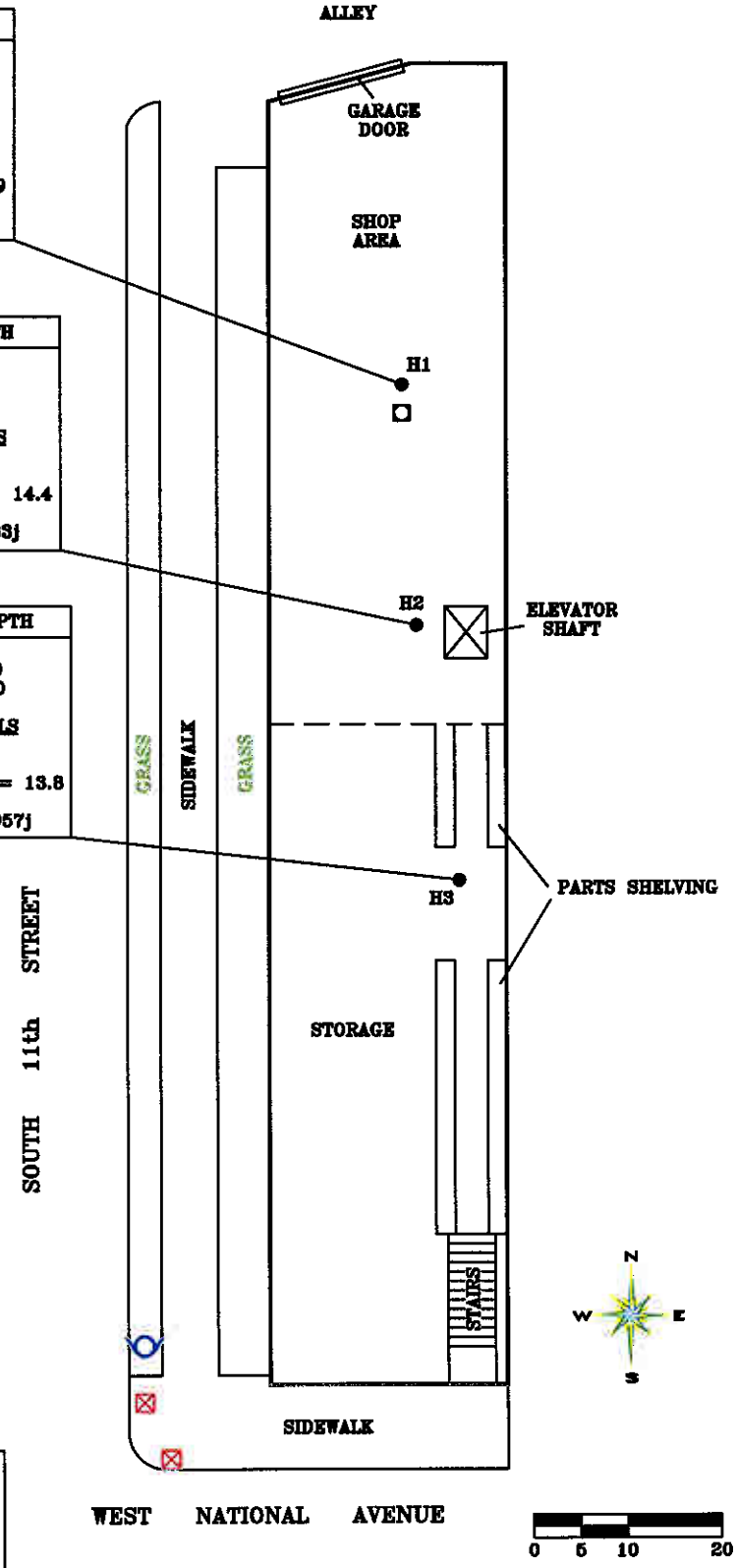
FIGURE 1
BORING LOCATION PLAN
1036-38 WEST NATIONAL AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	APPROVED	SCALE	DATE
GV	JSZ	X	1"=20'	09-10-04
PROJECT NO.: 1E-0407063			CAD No. E407063A	

0-2' DEPTH	6-6' DEPTH
PID = BDL	PID = BDL
DRO < 1.58	DRO < 1.60
VOCs < LOD	VOCs < LOD
DETECTED	**DETECTED**
RCRA METALS	**RCRA METALS**
As = #3.58#	As = 2.02j
Ba = 42.2	Ba = 44.0
Cd = 0.379j	Cr (Total) = 13.9
Cr (Total) = 17.6	Pb = 6.99
Pb = 9.52	Hg = 0.0113j
Hg = 0.0125j	

0-2' DEPTH	4-6' DEPTH
PID = BDL	PID = 1.4
DRO < 1.58	DRO < 1.58
VOCs < LOD	VOCs < LOD
DETECTED	**DETECTED**
RCRA METALS	**RCRA METALS**
As = (1.57)j	As = 2.24j
Ba = 55.6	Ba = 40.0
Cr (Total) = 16.2	Cr (Total) = 14.4
Pb = 9.95	Pb = 7.98
Hg = 0.0329j	Hg = 0.00783j

0-2' DEPTH	8-10' DEPTH
PID = 1.0	PID = BDL
DRO < 1.63	DRO < 1.60
VOCs < LOD	VOCs < LOD
DETECTED	**DETECTED**
RCRA METALS	**RCRA METALS**
As = #2.70j#	As = 2.11j
Ba = 37.9	Ba = 43.7
Cd = 0.312j	Cr (Total) = 13.8
Cr (Total) = 16.6	Pb = 6.91
Pb = 9.29	Hg = 0.00957j
Hg = 0.00942j	



LEGEND:

- H1 — DIRECT PUSH SOIL BORING
- STOP LIGHT
- FIRE HYDRANT
- FLOOR DRAIN

CHEMICAL KEY:

- -As: ARSENIC
- -Ba: BARIUM
- -Cd: CADMIUM
- -Cr: CHROMIUM
- -Hg: MERCURY
- -Pb: LEAD

ABBREVIATIONS:

- -BDL: BELOW DETECTION LIMIT
- -DRO: DIESEL RANGE ORGANIC
- -LOD: LIMIT OF DETECTION
- -NR: NATURAL RESOURCES
- -PID: PHOTOIONIZATION DETECTOR (FIELD)
- -RCL: RESIDUAL CONTAMINANT LEVEL
- -VOC: VOLATILE ORGANIC COMPOUND
- -WAC: WISCONSIN ADMINISTRATIVE CODE

NOTES:

FIELD PID RESULTS EXPRESSED IN INSTRUMENT UNITS

DRO AND RCRA METAL RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg) EQUIVALENT TO PARTS PER MILLION (ppm)

VOC RESULTS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg) EQUIVALENT TO PARTS PER BILLION (ppb)

RESULTS INDICATED IN GREEN/PARENTHESIS EXCEED THE WAC NR 720.11 RCL FOR DIRECT CONTACT (TOP 4 FEET) AT A NON-INDUSTRIAL PROPERTY

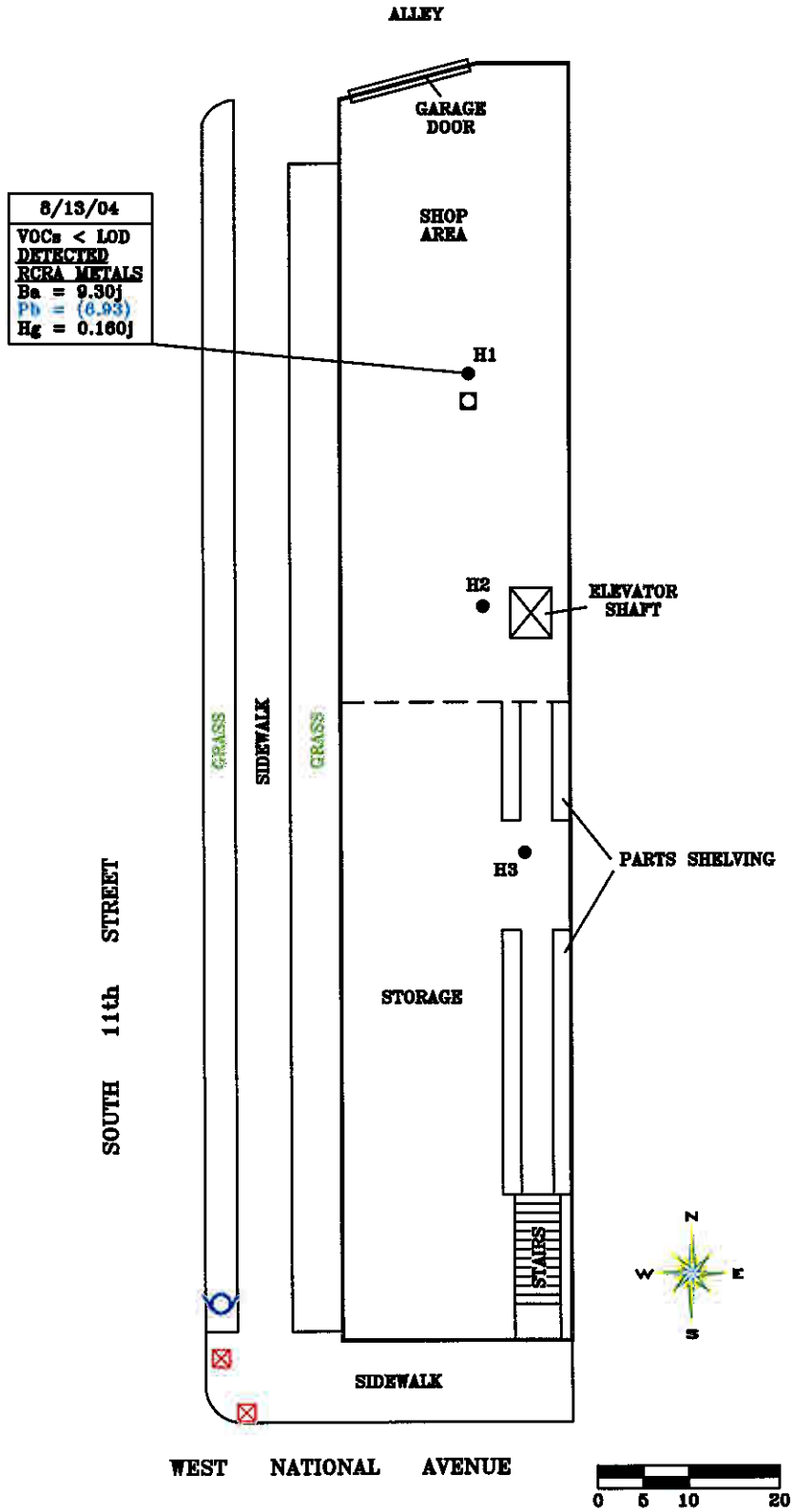
RESULTS INDICATED IN BROWN/# EXCEED THE WAC NR 720.11 RCL FOR DIRECT CONTACT (TOP 4 FEET) AT AN INDUSTRIAL PROPERTY

-j: CONCENTRATION BETWEEN LABORATORY LIMIT OF DETECTION AND QUANTITATION LIMIT.

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 2
SOIL ANALYTICAL RESULTS
1036-38 WEST NATIONAL AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	APPROVED	SCALE	DATE
ELP	JSZ	X	1"=20'	09-10-04
PROJECT NO.: 1E-0407063			CAD No. E407063B	



LEGEND:

H1	DIRECT PUSH SOIL BORING
⊠	STOP LIGHT
	FIRE HYDRANT
□	FLOOR DRAIN

CHEMICAL KEY:

- -Ba: BARIUM
- -Hg: MERCURY
- -Pb: LEAD

ABBREVIATIONS:

- -LOD: LIMIT OF DETECTION
- -NR: NATURAL RESOURCES
- -VOC: VOLATILE ORGANIC COMPOUND
- -WAC: WISCONSIN ADMINISTRATIVE CODE

NOTES:

VOC AND RCRA METAL RESULTS EXPRESSED IN MICROGRAMS PER LITER (ug/l) EQUIVALENT TO PARTS PER BILLION (ppb)

RESULTS INDICATED IN BLUE/PARENTHESIS EXCEED THE WAC NR 140 PREVENTIVE ACTION LIMIT

-j: CONCENTRATION BETWEEN LABORATORY LIMIT OF DETECTION AND QUANTITATION LIMIT.

GILES ENGINEERING ASSOCIATES, INC.
N8 W22350 JOHNSON DRIVE, SUITE A1
WAUKESHA, WI 53186 (262)-544-0118

FIGURE 3
GROUNDWATER ANALYTICAL RESULTS
1036-38 WEST NATIONAL AVENUE
MILWAUKEE, WISCONSIN

DESIGNED	DRAWN	APPROVED	SCALE	DATE
ELP	JSZ	X	1"=20'	09-10-04
PROJECT NO.: 1E-0407063			CAD No. E407063C	

Table 1

Soil Analytical Results (DRO / VOCs)

1036-1038 West National Avenue
Milwaukee, Wisconsin
Project No. 1E-0407063

Analyte	Sample Locations						NR 720.09 RCLs	NR 746.06 Table 1 (Product Indicator)	NR 746.06 Table 2 (Direct Contact)
	H1		H2		H3				
Sample Depth (feet)	0-2	6-8	0-2	4-6	0-2	8-10			
Sample Date	8/3/04	8/3/04	8/3/04	8/3/04	8/3/04	8/3/04			
PID (HNU)	BDL	BDL	BDL	1.4	1.0	BDL			
DRO (mg/kg)	<1.58	<1.60	<1.58	<1.58	<1.63	<1.60	100	--	--
VOCs (ug/kg)	BDL	BDL	BDL	BDL	BDL	BDL	--	--	--

NOTES:

PID: Photoionization Detector
VOCs: Volatile Organic Compounds (EPA Method 8260)
DRO: Diesel Range Organics (WDNR Method)
ug/kg: Micrograms per kilogram; equivalent to parts per billion (ppb)
mg/kg: Milligrams per kilogram; equivalent to parts per billion (ppb)
NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)
RCLs: Residual Contaminant Level
BDL: Below Detection Limit
--: Not Applicable

Table 1
Soil Analytical Results (RCRA Metals)

1036-1038 West National Avenue
Milwaukee, Wisconsin
Project No. 1E-0407063

Analytes		Sample Locations						NR 720.11 RCLs	
		H1		H2		H3			
Sample Depth (feet)		0-2	6-8	0-2	4-6	0-2	8-10	Non-Industrial (mg/kg)	Industrial (mg/kg)
Sample Date		8/3/04	8/3/04	8/3/04	8/3/04	8/3/04	8/3/04		
PID (HNU)		BDL	BDL	BDL	1.4	1.0	BDL		
RCRA Metals (mg/kg)	Arsenic	#3.56#	2.02j	(1.57j)	2.24j	#2.70j#	2.11j	0.039	1.6
	Barium	42.2	44.0	55.6	40.0	37.9	43.7	NS	NS
	Cadmium	0.379j	<0.226	<0.227	<0.224	0.312j	<0.225	8	510
	Total Chromium	17.6	13.9	16.2	14.4	16.6	13.8	14/16000*	200/NA
	Lead	9.52	6.99	9.95	7.98	9.29	6.91	50	500
	Mercury	0.0125j	0.0113j	0.0329j	0.00783j	0.00942j	0.00957j	NS	NS
	Selenium	<0.824	<0.835	<0.838	<0.825	<0.851	<0.831	NS	NS
	Silver	<0.333	<0.337	<0.338	<0.333	<0.344	<0.335	NS	NS

NOTES:

PID: Photoionization Detector
BDL: Below Detection Limit
mg/kg: Milligrams per Kilogram; equivalent to parts per million (ppm)
RCRA: Resource Conservation and Recovery Act (RCRA Metals, EPA Methods 7471A and 6010B)
NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)
RCLs: Residual Contaminant Level
NS: No Established Standard
j: Concentration measured between the laboratory method detection limit and the quantitation limit
Results indicated in green/parenthesis exceed the WAC NR 720.11 RCL for direct contact (top 4 feet) at a non-industrial property
Results indicated in brown/#...# exceed the WAC NR 720.11 RCL for direct contact (top 4 feet) at an industrial property
***:** RCL for Hexavalent/Trivalent Chromium

Table 2
Groundwater Analytical Results
Temporary Wells

1036-1038 West National Avenue
Milwaukee, Wisconsin
Project No. 1E-0407063

Analytes		Sample Location	WAC NR 140 PAL	WAC NR 140 ES
		H2		
Sample Date		8/13/04		
VOCs (ug/L)		BDL	--	--
RCRA Metals (ug/L)	Arsenic	<6.61	5	50
	Barium	9.30j	400	2,000
	Cadmium	<3.84	0.5	5
	Chromium	<7.51	10	100
	Lead	(6.93)	1.5	15
	Mercury	0.160j	0.2	2
	Selenium	<14.2	10	50
	Silver	<5.72	10	50

Notes:

VOCs: Volatile Organic Compounds (EPA Method 8260)
RCRA: Resource Conservation and Recovery Act (RCRA Metals, EPA 6000/7000 Series)
PAL: Preventive Action Limit
ES: Enforcement Standard
ug/L: Micrograms per liter; equivalent to parts per billion (ppb)
--: Not Applicable
NS: No established standard
NR: Natural Resources Chapter of the Wisconsin Administrative Code (WAC)
j: Concentration measured between the laboratory detection limit and the quantitation limit

Results indicated in blue/paranthesis exceed the WAC NR 140 PAL

RECORD OF SUBSURFACE EXPLORATION

BORING NO. & LOCATION: H1	PROJECT: 1036 W. National Avenue
SURFACE ELEVATION:	PROJECT LOCATION: Milwaukee, Wisconsin
COMPLETION DATE: 8/3/04	
FIELD REPRESENTATIVE: Greg Vogel	GILES PROJECT NUMBER: 1E-0407063

GILES ENGINEERING ASSOCIATES, INC.
Milwaukee Atlanta
Dallas Washington, D.C.
Los Angeles Orlando

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	w (%)	PID	NOTES
6±" concrete		1-PS						BDL	(a)
Brown Silty Clay, some fine Brown Sand (Fill) - Moist		2-PS						1.6	
Gray Silty Clay, trace fine Sand - Moist		3-PS						BDL	
	5	4-PS						BDL	(a)
	▽	5-PS						1.7	
	10								

Boring terminated at 10 feet

PID: Results of volatile vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to a Benzene standard. Results expressed in instrument-units. BDL = Below Detection Limit

NOTE: Test boring backfilled with granular bentonite following probe removal. See Borehole Abandonment For (WDNR Form No. 3300-5B) for description of borehole abandonment.

	WATER OBSERVATION DATA	REMARKS
▽	WATER ENCOUNTERED DURING DRILLING: 8 ft.	(a) Soil sample submitted for VOC, DRO and RCRA metals analysis.
▼	WATER LEVEL AFTER REMOVAL:	PS = Probe Sample
	CAVE DEPTH AFTER REMOVAL:	
▼	WATER LEVEL AFTER HOURS:	
	CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. & LOCATION: H2	PROJECT: 1036 W. National Avenue
SURFACE ELEVATION:	PROJECT LOCATION: Milwaukee, Wisconsin
COMPLETION DATE: 8/3/04	
FIELD REPRESENTATIVE: Greg Vogel	GILES PROJECT NUMBER: 1E-0407063

GILES ENGINEERING ASSOCIATES, INC.
Milwaukee Atlanta
Dallas Washington, D.C.
Los Angeles Orlando

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
6"± concrete		1-PS						BDL	(a)
Brown Silty Clay trace fine to Moist Sand, (Fill) - Moist		2-PS						BDL	
Gray Silty Clay trace fine Sand - Moist		3-PS						1.4	(a)
	5	4-PS						BDL	
	▽	5-PS						1.0	
	10								

Boring terminated at 10 feet

PID: Results of volatile vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to a Benzene standard. Results expressed in instrument-units. BDL = Below Detection Limit

NOTE: Test boring backfilled with granular bentonite following probe removal. See Borehole Abandonment For (WDNR Form No. 3300-5B) for description of borehole abandonment.

	WATER OBSERVATION DATA	REMARKS
▽	WATER ENCOUNTERED DURING DRILLING: 7 ft.	(a) Soil sample submitted for VOC, DRO and RCRA metals analysis.
▼	WATER LEVEL AFTER REMOVAL:	Temporary groundwater monitoring well set at 10± feet with a 5 foot screen.
▒	CAVE DEPTH AFTER REMOVAL:	
▼	WATER LEVEL AFTER HOURS:	PS = Probe Sample
▬	CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

RECORD OF SUBSURFACE EXPLORATION

BORING NO. & LOCATION: H3	PROJECT: 1036 W. National Avenue
SURFACE ELEVATION:	PROJECT LOCATION: Milwaukee, Wisconsin
COMPLETION DATE: 8/3/04	
FIELD REPRESENTATIVE: Greg Vogel	GILES PROJECT NUMBER: 1E-0407063

GILES ENGINEERING ASSOCIATES, INC.
Milwaukee Atlanta
Dallas Washington, D.C.
Los Angeles Orlando

MATERIAL DESCRIPTION	Feet Below Surface	Sample No. & Type	N	q_u (tsf)	q_p (tsf)	q_s (tsf)	W (%)	PID	NOTES
5"± concrete		1-PS						1.0	(a)
Brown Silty Clay trace Brown Sand (Fill) - Moist									
Gray Silty Clay trace fine Sand - Moist		2-PS						0.5	
		3-PS						BDL	
	5								
		4-PS						BDL	
		5-PS						BDL	(a)
	10								

Boring terminated at 10'

PID: Results of volatile vapor scan conducted on collected soil samples utilizing a Photoionization Detector (PID) equipped with an 10.6 eV lamp calibrated to a Benzene standard. Results expressed in instrument-units. BDL = Below Detection Limit

NOTE: Test boring backfilled with granular bentonite following probe removal. See Borehole Abandonment For (WDNR Form No. 3300-5B) for description of borehole abandonment.

	WATER OBSERVATION DATA	REMARKS
▽	WATER ENCOUNTERED DURING DRILLING: None	(a) Soil sample submitted for VOC, DRO and RCRA metals analysis.
▼	WATER LEVEL AFTER REMOVAL:	PS = Probe Sample
▒	CAVE DEPTH AFTER REMOVAL:	
▼	WATER LEVEL AFTER HOURS:	
▬	CAVE DEPTH AFTER HOURS:	

Changes in strata indicated by the lines are approximate boundary between soil types. The actual transition may be gradual and may vary considerably between test borings. Location of test boring is shown on the Boring Location Plan.

GREAT
LAKES
ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

24 August 2004

RECEIVED
AUG 2 5 2004
By

.Kevin Bugel
Giles Engineering Assoc.
N8 W22350 Johnson Road
Waukesha, WI 53186
RE: 1036 W. National

Enclosed are the results of analyses for samples received by the laboratory on 08/05/04 14:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michael Laupan For Andrea Stathas
Project Manager

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H-1 0-2	W408068-01	Soil	08/03/04 00:00	08/05/04 14:25
H-1 6-8	W408068-02	Soil	08/03/04 00:00	08/05/04 14:25
H-2 0-2	W408068-03	Soil	08/03/04 00:00	08/05/04 14:25
H-2 4-6	W408068-04	Soil	08/03/04 00:00	08/05/04 14:25
H-3 0-2	W408068-05	Soil	08/03/04 00:00	08/05/04 14:25
H-3 8-10	W408068-06	Soil	08/03/04 00:00	08/05/04 14:25
trip blank	W408068-07	MeOH Blank	08/03/04 00:00	08/05/04 14:25

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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(414) 570-9460 FAX (414) 570-9461

Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 12:35

Diesel Range Organics (DRO) by WDNR DRO
Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 0-2 (W408068-01) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Diesel Range Organics (DRO)	<1.58	1.58	5.82	mg/kg dry	1	4080032	08/09/04	08/09/04	WDNR DRO	
H-1 6-8 (W408068-02) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Diesel Range Organics (DRO)	<1.60	1.60	5.89	mg/kg dry	1	4080032	08/09/04	08/09/04	WDNR DRO	
H-2 0-2 (W408068-03) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Diesel Range Organics (DRO)	2.58	1.61	5.91	mg/kg dry	1	4080032	08/09/04	08/09/04	WDNR DRO	J
H-2 4-6 (W408068-04) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Diesel Range Organics (DRO)	<1.58	1.58	5.82	mg/kg dry	1	4080032	08/09/04	08/09/04	WDNR DRO	
H-3 0-2 (W408068-05) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Diesel Range Organics (DRO)	<1.63	1.63	6.01	mg/kg dry	1	4080032	08/09/04	08/09/04	WDNR DRO	
H-3 8-10 (W408068-06) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Diesel Range Organics (DRO)	<1.60	1.60	5.86	mg/kg dry	1	4080032	08/09/04	08/10/04	WDNR DRO	

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Total Metals by EPA 6000/7000 Series Methods
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 0-2 (W408068-01) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Mercury	0.0125	0.00198	0.0465	mg/kg dry	1	4080119	08/06/04	08/09/04	EPA 7471A	J
Arsenic	3.56	0.385	2.91	"	"	4080153	08/09/04	08/10/04	EPA 6010B	
Barium	42.2	0.377	29.1	"	"	"	"	"	"	
Cadmium	0.379	0.223	0.582	"	"	"	"	"	"	J
Chromium	17.6	0.437	0.582	"	"	"	"	"	"	
Lead	9.52	0.829	5.82	"	"	"	"	"	"	
Selenium	<0.824	0.824	2.91	"	"	"	"	"	"	
Silver	<0.333	0.333	2.91	"	"	"	"	"	"	
H-1 6-8 (W408068-02) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Mercury	0.0113	0.00200	0.0471	mg/kg dry	1	4080119	08/06/04	08/09/04	EPA 7471A	J
Arsenic	2.02	0.389	2.95	"	"	4080153	08/09/04	08/10/04	EPA 6010B	J
Barium	44.0	0.382	29.5	"	"	"	"	"	"	
Cadmium	<0.226	0.226	0.589	"	"	"	"	"	"	
Chromium	13.9	0.443	0.589	"	"	"	"	"	"	
Lead	6.99	0.840	5.89	"	"	"	"	"	"	
Selenium	<0.835	0.835	2.95	"	"	"	"	"	"	
Silver	<0.337	0.337	2.95	"	"	"	"	"	"	
H-2 0-2 (W408068-03) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Mercury	0.0329	0.00201	0.0473	mg/kg dry	1	4080119	08/06/04	08/09/04	EPA 7471A	J
Arsenic	1.57	0.391	2.96	"	"	4080153	08/09/04	08/10/04	EPA 6010B	J
Barium	55.6	0.383	29.6	"	"	"	"	"	"	
Cadmium	<0.227	0.227	0.591	"	"	"	"	"	"	
Chromium	16.2	0.444	0.591	"	"	"	"	"	"	
Lead	9.95	0.843	5.91	"	"	"	"	"	"	
Selenium	<0.838	0.838	2.96	"	"	"	"	"	"	
Silver	<0.338	0.338	2.96	"	"	"	"	"	"	

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Total Metals by EPA 6000/7000 Series Methods
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-2 4-6 (W408068-04) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Mercury	0.00783	0.00198	0.0466	mg/kg dry	1	4080119	08/06/04	08/09/04	EPA 7471A	J
Arsenic	2.24	0.385	2.91	"	"	4080153	08/09/04	08/10/04	EPA 6010B	J
Barium	40.0	0.377	29.1	"	"	"	"	"	"	
Cadmium	<0.224	0.224	0.582	"	"	"	"	"	"	
Chromium	14.4	0.438	0.582	"	"	"	"	"	"	
Lead	7.98	0.830	5.82	"	"	"	"	"	"	
Selenium	<0.825	0.825	2.91	"	"	"	"	"	"	
Silver	<0.333	0.333	2.91	"	"	"	"	"	"	
H-3 0-2 (W408068-05) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Mercury	0.00942	0.00204	0.0481	mg/kg dry	1	4080119	08/06/04	08/09/04	EPA 7471A	J
Arsenic	2.70	0.397	3.00	"	"	4080153	08/09/04	08/10/04	EPA 6010B	J
Barium	37.9	0.389	30.0	"	"	"	"	"	"	
Cadmium	0.312	0.231	0.601	"	"	"	"	"	"	J
Chromium	16.6	0.451	0.601	"	"	"	"	"	"	
Lead	9.29	0.856	6.01	"	"	"	"	"	"	
Selenium	<0.851	0.851	3.00	"	"	"	"	"	"	
Silver	<0.344	0.344	3.00	"	"	"	"	"	"	
H-3 8-10 (W408068-06) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Mercury	0.00957	0.00199	0.0469	mg/kg dry	1	4080119	08/06/04	08/09/04	EPA 7471A	J
Arsenic	2.11	0.388	2.93	"	"	4080153	08/09/04	08/11/04	EPA 6010B	J
Barium	43.7	0.380	29.3	"	"	"	"	"	"	
Cadmium	<0.225	0.225	0.586	"	"	"	"	"	"	
Chromium	13.8	0.441	0.586	"	"	"	"	"	"	
Lead	6.91	0.836	5.86	"	"	"	"	"	"	
Selenium	<0.831	0.831	2.93	"	"	"	"	"	"	
Silver	<0.335	0.335	2.93	"	"	"	"	"	"	

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 0-2 (W408068-01) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chlorodibromomethane	<7.42	7.42	250	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	G27
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	
2-Chlorotoluene	<14.1	14.1	25.0	"	"	"	"	"	"	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	<10.7	10.7	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	
Di-isopropyl ether	<8.81	8.81	25.0	"	"	"	"	"	"	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	<7.07	7.07	25.0	"	"	"	"	"	"	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	25.0	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 0-2 (W408068-01) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
n-Propylbenzene	<9.10	9.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	"	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	
Vinyl chloride	<9.44	9.44	25.0	"	"	"	"	"	"	
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*32-179*			"	"	"	"	
Surrogate: Dibromofluoromethane		*96.9 %*	*23.1-173*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*121 %*	*29.2-152*			"	"	"	"	
Surrogate: Toluene-d8		*124 %*	*32.1-175*			"	"	"	"	
H-1 6-8 (W408068-02) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chlorodibromomethane	<7.42	7.42	250	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	G27
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	
2-Chlorotoluene	<14.1	14.1	25.0	"	"	"	"	"	"	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 6-8 (W408068-02) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
1,2-Dichlorobenzene	<10.7	10.7	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	
Di-isopropyl ether	<8.81	8.81	25.0	"	"	"	"	"	"	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	<7.07	7.07	25.0	"	"	"	"	"	"	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	25.0	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	
n-Propylbenzene	<9.10	9.10	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	"	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	
Vinyl chloride	<9.44	9.44	25.0	"	"	"	"	"	"	
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79.9 %*	*32-179*			"	"	"	"	
Surrogate: Dibromofluoromethane		*84.0 %*	*23.1-173*			"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 6-8 (W408068-02) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Surrogate: 4-Bromofluorobenzene		*104 %*	*29.2-152*			*4080388*	*08/18/04*	*08/20/04*	*EPA 8260B*	
Surrogate: Toluene-d8		*109 %*	*32.1-175*			*"*	*"*	*"*	*"*	
H-2 0-2 (W408068-03) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chlorodibromomethane	<7.42	7.42	250	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	
2-Chlorotoluene	<14.1	14.1	25.0	"	"	"	"	"	"	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	<10.7	10.7	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	
Di-isopropyl ether	<8.81	8.81	25.0	"	"	"	"	"	"	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-2 0-2 (W408068-03) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
p-Isopropyltoluene	<7.07	7.07	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	25.0	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	
n-Propylbenzene	<9.10	9.10	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	08/20/04	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	08/20/04	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	
Vinyl chloride	<9.44	9.44	25.0	"	"	"	"	"	"	
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.5 %*	*32-179*			"	"	"	"	
Surrogate: Dibromofluoromethane		*86.3 %*	*23.1-173*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*29.2-152*			"	"	"	"	
Surrogate: Toluene-d8		*110 %*	*32.1-175*			"	"	"	"	
H-2 4-6 (W408068-04) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chlorodibromomethane	<7.42	7.42	250	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	G27
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-2 4-6 (W408068-04) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
2-Chlorotoluene	<14.1	14.1	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	<10.7	10.7	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	
Di-isopropyl ether	<8.81	8.81	25.0	"	"	"	"	"	"	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	<7.07	7.07	25.0	"	"	"	"	"	"	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	25.0	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	
n-Propylbenzene	<9.10	9.10	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	"	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-2 4-6 (W408068-04) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Vinyl chloride	<9.44	9.44	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	G27
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79.6 %*	*32-179*			"	"	"	"	
Surrogate: Dibromofluoromethane		*86.4 %*	*23.1-173*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*29.2-152*			"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*32.1-175*			"	"	"	"	
H-3 0-2 (W408068-05) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chlorodibromomethane	<7.42	7.42	250	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	G27
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	
2-Chlorotoluene	<14.1	14.1	25.0	"	"	"	"	"	"	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	<10.7	10.7	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-3 0-2 (W408068-05) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Di-isopropyl ether	<8.81	8.81	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	<7.07	7.07	25.0	"	"	"	"	"	"	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	25.0	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	
n-Propylbenzene	<9.10	9.10	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	"	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	
Vinyl chloride	<9.44	9.44	25.0	"	"	"	"	"	"	G27
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*81.5 %*	*32-179*			"	"	"	"	
Surrogate: Dibromofluoromethane		*84.9 %*	*23.1-173*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*29.2-152*			"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*32.1-175*			"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-3 8-10 (W408068-06) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chlorodibromomethane	<7.42	7.42	250	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	G27
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	
2-Chlorotoluene	<14.1	14.1	25.0	"	"	"	"	"	"	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	<10.7	10.7	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	
Di-isopropyl ether	<8.81	8.81	25.0	"	"	"	"	"	"	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	<7.07	7.07	25.0	"	"	"	"	"	"	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	25.0	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-3 8-10 (W408068-06) Soil Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
n-Propylbenzene	<9.10	9.10	25.0	ug/kg dry	50	4080388	08/18/04	08/20/04	EPA 8260B	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	08/21/04	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	08/20/04	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	
Vinyl chloride	<9.44	9.44	25.0	"	"	"	"	"	"	G27
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*72.2 %*	*32-179*			"	"	"	"	
Surrogate: Dibromofluoromethane		*75.6 %*	*23.1-173*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.2 %*	*29.2-152*			"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*	*32.1-175*			"	"	"	"	

Great Lakes Analytical--Oak Creek

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GREAT LAKES ANALYTICAL

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B (Blank Analysis)
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (W408068-07) MeOH Blank Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
Benzene	<6.10	6.10	25.0	ug/l	50	4080349	08/17/04	08/20/04	EPA 8260B	
Bromobenzene	<3.65	3.65	25.0	"	"	"	"	"	"	
Bromodichloromethane	<9.10	9.10	25.0	"	"	"	"	"	"	
n-Butylbenzene	<18.6	18.6	25.0	"	"	"	"	"	"	
sec-Butylbenzene	<8.44	8.44	25.0	"	"	"	"	"	"	
tert-Butylbenzene	<7.73	7.73	25.0	"	"	"	"	"	"	
Carbon tetrachloride	<18.6	18.6	25.0	"	"	"	"	"	"	
Chlorobenzene	<5.93	5.93	25.0	"	"	"	"	"	"	
Chloroethane	<24.2	24.2	25.0	"	"	"	"	"	"	
Chloroform	<6.02	6.02	25.0	"	"	"	"	"	"	
Chloromethane	<16.1	16.1	25.0	"	"	"	"	"	"	
2-Chlorotoluene	<14.1	14.1	25.0	"	"	"	"	"	"	
4-Chlorotoluene	<12.6	12.6	25.0	"	"	"	"	"	"	
Dibromochloromethane	<7.42	7.42	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<23.4	23.4	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	<6.02	6.02	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	<10.7	10.7	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	<6.00	6.00	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	<7.23	7.23	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	<15.5	15.5	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	<13.7	13.7	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	<6.10	6.10	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	<20.8	20.8	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<11.7	11.7	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<4.20	4.20	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	<8.52	8.52	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	<7.11	7.11	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	<10.3	10.3	25.0	"	"	"	"	"	"	
Di-isopropyl ether	<8.81	8.81	25.0	"	"	"	"	"	"	
Ethylbenzene	<5.37	5.37	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	<24.9	24.9	25.0	"	"	"	"	"	"	
Isopropylbenzene	<6.93	6.93	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	<7.07	7.07	25.0	"	"	"	"	"	"	
Methylene chloride	<21.8	21.8	100	"	"	"	"	"	"	
Methyl tert-butyl ether	<6.00	6.00	12.2	"	"	"	"	"	"	
Naphthalene	<21.6	21.6	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B (Blank Analysis)
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (W408068-07) MeOH Blank Sampled: 08/03/04 00:00 Received: 08/05/04 14:25										
n-Propylbenzene	<9.10	9.10	25.0	ug/l	50	4080349	08/17/04	08/20/04	EPA 8260B	
1,1,2,2-Tetrachloroethane	<9.44	9.44	25.0	"	"	"	"	"	"	
Tetrachloroethene	<13.9	13.9	25.0	"	"	"	"	"	"	
Toluene	<11.6	11.6	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<22.9	22.9	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<21.7	21.7	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<10.7	10.7	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	<11.2	11.2	25.0	"	"	"	"	"	"	
Trichloroethene	<5.91	5.91	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	<9.09	9.09	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<10.2	10.2	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<8.40	8.40	25.0	"	"	"	"	"	"	
Vinyl chloride	<9.44	9.44	25.0	"	"	"	"	"	"	
Total Xylenes	<19.8	19.8	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.8 %*	*24.5-178*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.8 %*	*16.7-220*			"	"	"	"	
Surrogate: Toluene-d8		*115 %*	*33.1-170*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*20.5-166*			"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Percent Solids
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H-1 0-2 (W408068-01) Soil	**Sampled: 08/03/04 00:00**		**Received: 08/05/04 14:25**							
% Solids	85.9		0.200	%	1	4080172	08/10/04	08/11/04	EPA 5035 7.5	
H-1 6-8 (W408068-02) Soil	**Sampled: 08/03/04 00:00**		**Received: 08/05/04 14:25**							
% Solids	84.8		0.200	%	1	4080172	08/10/04	08/11/04	EPA 5035 7.5	
H-2 0-2 (W408068-03) Soil	**Sampled: 08/03/04 00:00**		**Received: 08/05/04 14:25**							
% Solids	84.6		0.200	%	1	4080172	08/10/04	08/11/04	EPA 5035 7.5	
H-2 4-6 (W408068-04) Soil	**Sampled: 08/03/04 00:00**		**Received: 08/05/04 14:25**							
% Solids	85.8		0.200	%	1	4080172	08/10/04	08/11/04	EPA 5035 7.5	
H-3 0-2 (W408068-05) Soil	**Sampled: 08/03/04 00:00**		**Received: 08/05/04 14:25**							
% Solids	83.2		0.200	%	1	4080172	08/10/04	08/11/04	EPA 5035 7.5	
H-3 8-10 (W408068-06) Soil	**Sampled: 08/03/04 00:00**		**Received: 08/05/04 14:25**							
% Solids	85.3		0.200	%	1	4080172	08/10/04	08/11/04	EPA 5035 7.5	

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Diesel Range Organics (DRO) by WDNR DRO - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080032 - EPA 3550B											
Blank (4080032-BLK1)					Prepared: 08/09/04	Analyzed: 08/10/04					
Diesel Range Organics (DRO)	ND	1.36	5.00	mg/kg wet							
LCS (4080032-BS1)					Prepared: 08/09/04	Analyzed: 08/10/04					
Diesel Range Organics (DRO)	29.0	1.36	5.00	mg/kg wet	40.0		72.5	70-120			
LCS Dup (4080032-BSD1)					Prepared: 08/09/04	Analyzed: 08/10/04					
Diesel Range Organics (DRO)	28.4	1.36	5.00	mg/kg wet	40.0		71.0	70-120	2.09	20	

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N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080119 - EPA 7471A											
Blank (4080119-BLK1)					Prepared: 08/06/04 Analyzed: 08/09/04						
Mercury	ND	0.00170	0.0400	mg/kg wet							
LCS (4080119-BS1)					Prepared: 08/06/04 Analyzed: 08/09/04						
Mercury	0.117	0.00170	0.0400	mg/kg wet	0.120		97.5	73.5-123			
Matrix Spike (4080119-MS1)		Source: B408065-09			Prepared: 08/06/04 Analyzed: 08/09/04						
Mercury	0.159	0.00196	0.0462	mg/kg dry	0.128	0.0228	106	38.7-154			
Matrix Spike Dup (4080119-MSD1)		Source: B408065-09			Prepared: 08/06/04 Analyzed: 08/09/04						
Mercury	0.165	0.00196	0.0462	mg/kg dry	0.139	0.0228	102	38.7-154	3.70	26.5	
Batch 4080153 - EPA 3050B											
Blank (4080153-BLK1)					Prepared: 08/09/04 Analyzed: 08/10/04						
Arsenic	ND	0.330	2.50	mg/kg wet							
Barium	ND	0.324	25.0	"							
Cadmium	ND	0.192	0.500	"							
Chromium	ND	0.376	0.500	"							
Lead	ND	0.713	5.00	"							
Selenium	ND	0.708	2.50	"							
Silver	ND	0.286	2.50	"							
LCS (4080153-BS1)					Prepared: 08/09/04 Analyzed: 08/10/04						
Arsenic	87.8	0.330	2.50	mg/kg wet	100		87.8	85.4-110			
Barium	186	0.324	25.0	"	200		93.0	90-110			
Cadmium	97.6	0.192	0.500	"	100		97.6	90-112			
Chromium	172	0.376	0.500	"	200		86.0	83.7-110			
Lead	183	0.713	5.00	"	200		91.5	87.1-110			
Selenium	89.2	0.708	2.50	"	100		89.2	87.1-110			
Silver	84.0	0.286	2.50	"	100		84.0	57.5-120			

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N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080153 - EPA 3050B											
Matrix Spike (4080153-MS1)		**Source: W408068-01**			Prepared: 08/09/04	Analyzed: 08/10/04					
Arsenic	94.7	0.385	2.91	mg/kg dry	114	3.56	79.9	57.3-110			
Barium	228	0.377	29.1	"	228	42.2	81.5	54.7-117			
Cadmium	93.9	0.223	0.582	"	114	0.379	82.0	57-110			
Chromium	183	0.437	0.582	"	228	17.6	72.5	51.9-110			
Lead	190	0.829	5.82	"	228	9.52	79.2	47.4-110			
Selenium	92.5	0.824	2.91	"	114	ND	81.1	53.2-110			
Silver	91.9	0.333	2.91	"	114	ND	80.6	28.4-113			
Matrix Spike Dup (4080153-MSD1)		**Source: W408068-01**			Prepared: 08/09/04	Analyzed: 08/10/04					
Arsenic	103	0.385	2.91	mg/kg dry	119	3.56	83.6	57.3-110	8.40	22	
Barium	261	0.377	29.1	"	237	42.2	92.3	54.7-117	13.5	30.9	
Cadmium	103	0.223	0.582	"	119	0.379	86.2	57-110	9.24	19.5	
Chromium	204	0.437	0.582	"	237	17.6	78.6	51.9-110	10.9	24.1	
Lead	207	0.829	5.82	"	237	9.52	83.3	47.4-110	8.56	40	
Selenium	99.0	0.824	2.91	"	119	ND	83.2	53.2-110	6.79	20.7	
Silver	99.8	0.333	2.91	"	119	ND	83.9	28.4-113	8.24	33.3	

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Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080388 - EPA 5035B [P/T]											
Blank (4080388-BLK1)					Prepared: 08/18/04 Analyzed: 08/19/04						
Benzene	ND	6.10	25.0	ug/kg wet							
Bromobenzene	ND	3.65	25.0	"							
Bromodichloromethane	ND	9.10	25.0	"							
n-Butylbenzene	ND	18.6	25.0	"							
sec-Butylbenzene	ND	8.44	25.0	"							
tert-Butylbenzene	ND	7.73	25.0	"							
Carbon tetrachloride	ND	18.6	25.0	"							
Chlorobenzene	ND	5.93	25.0	"							
Chlorodibromomethane	ND	7.42	250	"							
Chloroethane	ND	24.2	25.0	"							
Chloroform	ND	6.02	25.0	"							
Chloromethane	ND	16.1	25.0	"							
2-Chlorotoluene	ND	14.1	25.0	"							
4-Chlorotoluene	ND	12.6	25.0	"							
1,2-Dibromo-3-chloropropane	ND	23.4	25.0	"							
1,2-Dibromoethane	ND	6.02	25.0	"							
1,2-Dichlorobenzene	ND	10.7	25.0	"							
1,3-Dichlorobenzene	ND	6.00	25.0	"							
1,4-Dichlorobenzene	ND	7.23	25.0	"							
Dichlorodifluoromethane	ND	15.5	25.0	"							
1,1-Dichloroethane	ND	13.7	25.0	"							
1,2-Dichloroethane	ND	6.10	25.0	"							
1,1-Dichloroethene	ND	20.8	25.0	"							
cis-1,2-Dichloroethene	ND	11.7	25.0	"							
trans-1,2-Dichloroethene	ND	4.20	25.0	"							
1,2-Dichloropropane	ND	8.52	25.0	"							
1,3-Dichloropropane	ND	7.11	25.0	"							
2,2-Dichloropropane	ND	10.3	25.0	"							
Di-isopropyl ether	ND	8.81	25.0	"							
Ethylbenzene	ND	5.37	25.0	"							
Hexachlorobutadiene	ND	24.9	25.0	"							
Isopropylbenzene	ND	6.93	25.0	"							
p-Isopropyltoluene	ND	7.07	25.0	"							
Methylene chloride	ND	21.8	100	"							

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N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080388 - EPA 5035B [P/T]											
Blank (4080388-BLK1)					Prepared: 08/18/04 Analyzed: 08/19/04						
Methyl tert-butyl ether	ND	6.00	25.0	ug/kg wet							
Naphthalene	ND	21.6	25.0	"							
n-Propylbenzene	ND	9.10	25.0	"							
1,1,2,2-Tetrachloroethane	ND	9.44	25.0	"							
Tetrachloroethene	ND	13.9	25.0	"							
Toluene	ND	11.6	25.0	"							
1,2,3-Trichlorobenzene	ND	22.9	25.0	"							
1,2,4-Trichlorobenzene	ND	21.7	25.0	"							
1,1,1-Trichloroethane	ND	10.7	25.0	"							
1,1,2-Trichloroethane	ND	11.2	25.0	"							
Trichloroethene	ND	5.91	25.0	"							
Trichlorofluoromethane	ND	9.09	25.0	"							
1,2,4-Trimethylbenzene	ND	10.2	25.0	"							
1,3,5-Trimethylbenzene	ND	8.40	25.0	"							
Vinyl chloride	ND	9.44	25.0	"							
Total Xylenes	ND	19.8	25.0	"							
Surrogate: 1,2-Dichloroethane-d4	*2260*			"	*2500*		*90.4*	*32-179*			
Surrogate: Dibromofluoromethane	*2210*			"	*2500*		*88.4*	*23.1-173*			
Surrogate: 4-Bromofluorobenzene	*2430*			"	*2500*		*97.2*	*29.2-152*			
Surrogate: Toluene-d8	*2590*			"	*2500*		*104*	*32.1-175*			
LCS (4080388-BS1)					Prepared: 08/18/04 Analyzed: 08/19/04						
Benzene	40.8	0.122	0.500	ug/kg wet	50.0		81.6	51.3-149			
Bromobenzene	38.9	0.0730	0.500	"	50.0		77.8	46.9-140			
Bromodichloromethane	42.7	0.182	0.500	"	50.0		85.4	42.1-179			
n-Butylbenzene	45.7	0.371	0.500	"	50.0		91.4	40.2-144			
sec-Butylbenzene	43.1	0.169	0.500	"	50.0		86.2	40.1-146			
tert-Butylbenzene	43.6	0.155	0.500	"	50.0		87.2	42.1-150			
Carbon tetrachloride	48.4	0.372	0.500	"	50.0		96.8	27.5-165			
Chlorobenzene	44.6	0.119	0.500	"	50.0		89.2	53.6-138			
Chlorodibromomethane	47.9	0.148	5.00	"	50.0		95.8	80-120			
Chloroethane	31.9	0.484	0.500	"	50.0		63.8	10-188			
Chloroform	33.4	0.120	0.500	"	50.0		66.8	52.5-159			
Chloromethane	31.8	0.321	0.500	"	50.0		63.6	14.2-142			
2-Chlorotoluene	39.2	0.283	0.500	"	50.0		78.4	48.8-143			

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080388 - EPA 5035B [P/T]											
LCS (4080388-BS1)					Prepared: 08/18/04 Analyzed: 08/19/04						
4-Chlorotoluene	42.2	0.251	0.500	ug/kg wet	50.0		84.4	49.3-142			
1,2-Dibromo-3-chloropropane	49.1	0.468	0.500	"	50.0		98.2	19.3-152			
1,2-Dibromoethane	41.2	0.120	0.500	"	50.0		82.4	46.5-141			
1,2-Dichlorobenzene	43.0	0.215	0.500	"	50.0		86.0	48.9-135			
1,3-Dichlorobenzene	43.8	0.120	0.500	"	50.0		87.6	50-136			
1,4-Dichlorobenzene	42.7	0.145	0.500	"	50.0		85.4	45.6-133			
Dichlorodifluoromethane	23.1	0.310	0.500	"	50.0		46.2	10-118			
1,1-Dichloroethane	36.5	0.275	0.500	"	50.0		73.0	41.9-151			
1,2-Dichloroethane	34.1	0.122	0.500	"	50.0		68.2	34.5-170			
1,1-Dichloroethene	34.1	0.417	0.500	"	50.0		68.2	33.1-157			
cis-1,2-Dichloroethene	37.2	0.235	0.500	"	50.0		74.4	48.2-161			
trans-1,2-Dichloroethene	37.5	0.0839	0.500	"	50.0		75.0	29.7-173			
1,2-Dichloropropane	41.5	0.170	0.500	"	50.0		83.0	50-158			
1,3-Dichloropropane	40.6	0.142	0.500	"	50.0		81.2	50.4-138			
2,2-Dichloropropane	43.6	0.205	0.500	"	50.0		87.2	21.4-175			
Di-isopropyl ether	34.5	0.176	0.500	"	50.0		69.0	13.8-210			
Ethylbenzene	43.9	0.107	0.500	"	50.0		87.8	47.5-142			
Hexachlorobutadiene	52.5	0.498	0.500	"	50.0		105	28.8-148			
Isopropylbenzene	47.0	0.139	0.500	"	50.0		94.0	43-149			
p-Isopropyltoluene	45.4	0.141	0.500	"	50.0		90.8	39-149			
Methylene chloride	34.4	0.436	2.00	"	50.0		68.8	44.2-154			
Methyl tert-butyl ether	37.2	0.120	0.500	"	50.0		74.4	43.9-169			
Naphthalene	27.6	0.432	0.500	"	50.0		55.2	12.8-157			
n-Propylbenzene	43.5	0.182	0.500	"	50.0		87.0	43.9-148			
1,1,2,2-Tetrachloroethane	31.2	0.189	0.500	"	50.0		62.4	10-164			
Tetrachloroethene	48.4	0.278	0.500	"	50.0		96.8	34.1-150			
Toluene	43.7	0.233	0.500	"	50.0		87.4	46.5-152			
1,2,3-Trichlorobenzene	42.5	0.458	0.500	"	50.0		85.0	16.8-150			
1,2,4-Trichlorobenzene	45.5	0.433	0.500	"	50.0		91.0	26.5-145			
1,1,1-Trichloroethane	39.6	0.214	0.500	"	50.0		79.2	42-166			
1,1,2-Trichloroethane	39.9	0.225	0.500	"	50.0		79.8	46.7-156			
Trichloroethene	47.8	0.118	0.500	"	50.0		95.6	40.3-187			
Trichlorofluoromethane	39.8	0.182	0.500	"	50.0		79.6	10-181			
1,2,4-Trimethylbenzene	43.4	0.205	0.500	"	50.0		86.8	46.4-141			
1,3,5-Trimethylbenzene	42.7	0.168	0.500	"	50.0		85.4	44.9-146			

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080388 - EPA 5035B [P/T]											
LCS (4080388-BS1)					Prepared: 08/18/04 Analyzed: 08/19/04						
Vinyl chloride	14.2	0.189	0.500	ug/kg wet	50.0		28.4	21.3-149			
Total Xylenes	136	0.395	0.500	"	150		90.7	47.9-138			
Surrogate: 1,2-Dichloroethane-d4	*2440*			"	*2500*		*97.6*	*32-179*			
Surrogate: Dibromofluoromethane	*2450*			"	*2500*		*98.0*	*23.1-173*			
Surrogate: 4-Bromofluorobenzene	*2990*			"	*2500*		*120*	*29.2-152*			
Surrogate: Toluene-d8	*3060*			"	*2500*		*122*	*32.1-175*			
Surrogate: 1-Chloro-4-fluorobenzene	*0.00*			"				*70-130*			
LCS Dup (4080388-BSD1)					Prepared: 08/18/04 Analyzed: 08/19/04						
Benzene	38.6	0.122	0.500	ug/kg wet	50.0		77.2	51.3-149	5.54	28.3	
Bromobenzene	37.1	0.0730	0.500	"	50.0		74.2	46.9-140	4.74	28.2	
Bromodichloromethane	40.9	0.182	0.500	"	50.0		81.8	42.1-179	4.31	37	
n-Butylbenzene	42.8	0.371	0.500	"	50.0		85.6	40.2-144	6.55	30.6	
sec-Butylbenzene	40.6	0.169	0.500	"	50.0		81.2	40.1-146	5.97	31.3	
tert-Butylbenzene	40.9	0.155	0.500	"	50.0		81.8	42.1-150	6.39	31	
Carbon tetrachloride *	45.1	0.372	0.500	"	50.0		90.2	27.5-165	7.06	28.4	
Chlorobenzene	42.9	0.119	0.500	"	50.0		85.8	53.6-138	3.89	30.1	
Chlorodibromomethane	47.0	0.148	5.00	"	50.0		94.0	80-120	1.90	20	
Chloroethane	29.4	0.484	0.500	"	50.0		58.8	10-188	8.16	87.6	
Chloroform	31.5	0.120	0.500	"	50.0		63.0	52.5-159	5.86	29	
Chloromethane	29.1	0.321	0.500	"	50.0		58.2	14.2-142	8.87	58.6	
2-Chlorotoluene	37.4	0.283	0.500	"	50.0		74.8	48.8-143	4.70	28.6	
4-Chlorotoluene	40.3	0.251	0.500	"	50.0		80.6	49.3-142	4.61	27	
1,2-Dibromo-3-chloropropane	48.4	0.468	0.500	"	50.0		96.8	19.3-152	1.44	56.1	
1,2-Dibromoethane	39.8	0.120	0.500	"	50.0		79.6	46.5-141	3.46	52.6	
1,2-Dichlorobenzene	41.3	0.215	0.500	"	50.0		82.6	48.9-135	4.03	24.2	
1,3-Dichlorobenzene	41.8	0.120	0.500	"	50.0		83.6	50-136	4.67	24.5	
1,4-Dichlorobenzene	41.1	0.145	0.500	"	50.0		82.2	45.6-133	3.82	24.2	
Dichlorodifluoromethane	21.2	0.310	0.500	"	50.0		42.4	10-118	8.58	59.8	
1,1-Dichloroethane	34.1	0.275	0.500	"	50.0		68.2	41.9-151	6.80	29.5	
1,2-Dichloroethane	32.2	0.122	0.500	"	50.0		64.4	34.5-170	5.73	46.8	
1,1-Dichloroethene	31.9	0.417	0.500	"	50.0		63.8	33.1-157	6.67	35.9	
cis-1,2-Dichloroethene	35.4	0.235	0.500	"	50.0		70.8	48.2-161	4.96	27	
trans-1,2-Dichloroethene	35.0	0.0839	0.500	"	50.0		70.0	29.7-173	6.90	30.1	
1,2-Dichloropropane	39.4	0.170	0.500	"	50.0		78.8	50-158	5.19	35.1	

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

WDNR Volatile Organic Compounds by Method 8260B - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080388 - EPA 5035B [P/T]											
LCS Dup (4080388-BSD1)					Prepared: 08/18/04 Analyzed: 08/19/04						
1,3-Dichloropropane	39.6	0.142	0.500	ug/kg wet	50.0		79.2	50.4-138	2.49	50.5	
2,2-Dichloropropane	40.0	0.205	0.500	"	50.0		80.0	21.4-175	8.61	53.5	
Di-isopropyl ether	31.9	0.176	0.500	"	50.0		63.8	13.8-210	7.83	32.8	
Ethylbenzene	42.3	0.107	0.500	"	50.0		84.6	47.5-142	3.71	32.4	
Hexachlorobutadiene	48.7	0.498	0.500	"	50.0		97.4	28.8-148	7.51	56.9	
Isopropylbenzene	44.8	0.139	0.500	"	50.0		89.6	43-149	4.79	38.2	
p-Isopropyltoluene	42.6	0.141	0.500	"	50.0		85.2	39-149	6.36	29.8	
Methylene chloride	33.0	0.436	2.00	"	50.0		66.0	44.2-154	4.15	33.4	
Methyl tert-butyl ether	35.9	0.120	0.500	"	50.0		71.8	43.9-169	3.56	57.2	
Naphthalene	32.4	0.432	0.500	"	50.0		64.8	12.8-157	16.0	59.1	
n-Propylbenzene	41.0	0.182	0.500	"	50.0		82.0	43.9-148	5.92	31.8	
1,1,2,2-Tetrachloroethane	30.9	0.189	0.500	"	50.0		61.8	10-164	0.966	87.3	
Tetrachloroethene	46.5	0.278	0.500	"	50.0		93.0	34.1-150	4.00	38.2	
Toluene	42.1	0.233	0.500	"	50.0		84.2	46.5-152	3.73	37.6	
1,2,3-Trichlorobenzene	43.3	0.458	0.500	"	50.0		86.6	16.8-150	1.86	66	
1,2,4-Trichlorobenzene	45.8	0.433	0.500	"	50.0		91.6	26.5-145	0.657	50.6	
1,1,1-Trichloroethane	36.9	0.214	0.500	"	50.0		73.8	42-166	7.06	26	
1,1,2-Trichloroethane	39.2	0.225	0.500	"	50.0		78.4	46.7-156	1.77	48	
Trichloroethene	44.5	0.118	0.500	"	50.0		89.0	40.3-187	7.15	35	
Trichlorofluoromethane	36.9	0.182	0.500	"	50.0		73.8	10-181	7.56	119	
1,2,4-Trimethylbenzene	41.3	0.205	0.500	"	50.0		82.6	46.4-141	4.96	27.1	
1,3,5-Trimethylbenzene	40.2	0.168	0.500	"	50.0		80.4	44.9-146	6.03	29.8	
Vinyl chloride	21.1	0.189	0.500	"	50.0		42.2	21.3-149	39.1	69.1	
Total Xylenes	130	0.395	0.500	"	150		86.7	47.9-138	4.51	35.6	
Surrogate: 1,2-Dichloroethane-d4	*2040*			"	*2500*		*81.6*	*32-179*			
Surrogate: Dibromofluoromethane	*2050*			"	*2500*		*82.0*	*23.1-173*			
Surrogate: 4-Bromofluorobenzene	*2590*			"	*2500*		*104*	*29.2-152*			
Surrogate: Toluene-d8	*2610*			"	*2500*		*104*	*32.1-175*			

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 12:35

Percent Solids - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080172 - General Prep											
Blank (4080172-BLK1)					Prepared: 08/10/04 Analyzed: 08/11/04						
% Solids	ND		0.200	%							
Blank (4080172-BLK2)					Prepared: 08/10/04 Analyzed: 08/11/04						
% Solids	ND		0.200	%							
Blank (4080172-BLK3)					Prepared: 08/10/04 Analyzed: 08/11/04						
% Solids	ND		0.200	%							
Duplicate (4080172-DUP1)		**Source: B408094-07**			Prepared: 08/10/04 Analyzed: 08/11/04						
% Solids	80.0		0.200	%		82.1			2.59	20	
Duplicate (4080172-DUP2)		**Source: B408100-01**			Prepared: 08/10/04 Analyzed: 08/11/04						
% Solids	80.4		0.200	%		81.3			1.11	20	
Duplicate (4080172-DUP3)		**Source: W408068-01**			Prepared: 08/10/04 Analyzed: 08/11/04						
% Solids	85.5		0.200	%		85.9			0.467	20	

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GREAT LAKES ANALYTICAL

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 12:35

Notes and Definitions

G27	The recovery of this Calibration Check Compound (CCC) in the check standard is below the method specified acceptance criteria.
J	The reported concentration for this analyte is an estimated value. The reported concentration is above the method detection limit, but below the limit of quantitation.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LOD	Limit of detection
LOQ	Limit of quantitation based on the laboratory's lowest calibration level unless mandated differently by the WDNR (ex. GRO, PVOC, VOCs).

Great Lakes Analytical--Buffalo Grove Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307

Note: For analyses that require NELAP accreditation, all analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

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140 E. Ryan Road
Oak Creek, WI 53154
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Client: Giles Engineering
Address: N8 W22350 Johnson Dr
Waukesha WI
Report to:
E-mail: Kevin Buge
Phone #: (262) 544-0118
Fax #: ( )

Bill To: Same
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
Received at laboratory: ☐ ambient ☒ ice
P/U temp. 2C Lab temp. 0C on ice
Deliverable Package: ☒ STD ☐ Other
Delivery Method: GLA ☐ Client ☐ Shipped ☐ Courier ☐

Project Name: 1036 W National
Project #/PO#: 1E0407063
Sampler: G. Vogel

1	FIELD ID, LOCATION	PID	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DO NOT DRY-WEIGHT CORRECT RESULTS	SAMPLES FIELD FILTERED ☐YES ☐NO	VOC	DRO	RCRA Metals	Salinity						CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	H1 0-2	BDL	8/3		Soil	1					2	3				X	X	X	X								W408068-01
2	H1 6-8	BDL	8/3			1					2	3				X	X	X	X								02
3	H2 0-2	BDL	8/3			1					2	3				X	X	X	X								03
4	H2 4-6	1.4	8/3			1					2	3				X	X	X	X								04
5	H3 0-2	1.0	8/3			1					2	3				X	X	X	X								05
6	H3 8-10	BDL	8/3			1					2	3				X	X	X	X								06
7	Trip Blank				MeOH	1						1				X											W408068-07
8																											
9																											
10																											

RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME	RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME
Gregory Vogel			[signature]	8/5/04	1300	[signature]	8/5/04	1425	[signature]	8/5/04	1425
RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME	RELINQUISHED	DATE	TIME	RECEIVED	DATE	TIME

COMMENTS: Please include final OD & LOQ

SAMPLE CONTROL

THIS SECTION FOR LAB USE ONLY

ANALYSIS TYPE

PAGE 1 OF 1

GREAT LAKES ANALYTICAL

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24 August 2004

RECEIVED
AUG 25 2004
By

Kevin Bugel
Giles Engineering Assoc.
N8 W22350 Johnson Road
Waukesha, WI 53186
RE: 1036 W. National

Enclosed are the results of analyses for samples received by the laboratory on 08/16/04 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Michael Laupan For Andrea Stathas
Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 11:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H2W	W408198-01	Water	08/13/04 09:30	08/16/04 14:15
Trip Blank	W408198-02	Water	08/13/04 00:00	08/16/04 14:15

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H2W (W408198-01) Water Sampled: 08/13/04 09:30 Received: 08/16/04 14:15										**QC**
Benzene	<0.498	0.498	0.500	ug/l	1	4080081	08/19/04	08/23/04	EPA 8260B	
Bromobenzene	<0.214	0.214	5.00	"	"	"	"	"	"	
Bromodichloromethane	<0.391	0.391	0.391	"	"	"	"	"	"	
n-Butylbenzene	<0.121	0.121	5.00	"	"	"	"	"	"	
sec-Butylbenzene	<0.100	0.100	5.00	"	"	"	"	"	"	
tert-Butylbenzene	<0.129	0.129	5.00	"	"	"	"	"	"	
Carbon tetrachloride	<0.372	0.372	0.372	"	"	"	"	"	"	
Chlorobenzene	<0.216	0.216	5.00	"	"	"	"	"	"	
Chloroethane	<0.658	0.658	5.00	"	"	"	"	"	"	
Chloroform	<0.316	0.316	0.316	"	"	"	"	"	"	
Chloromethane	<0.448	0.448	0.448	"	"	"	"	"	"	
2-Chlorotoluene	<0.157	0.157	5.00	"	"	"	"	"	"	
4-Chlorotoluene	<0.188	0.188	5.00	"	"	"	"	"	"	
Dibromochloromethane	<0.219	0.219	5.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.264	0.264	0.264	"	"	"	"	"	"	
1,2-Dibromoethane	<0.251	0.251	0.251	"	"	"	"	"	"	
1,2-Dichlorobenzene	<0.155	0.155	5.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	<0.142	0.142	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	<0.137	0.137	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	<0.481	0.481	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	<0.313	0.313	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	<0.472	0.472	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	<0.295	0.295	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<0.346	0.346	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<0.312	0.312	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	<0.420	0.420	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	<0.195	0.195	5.00	"	"	"	"	"	"	
2,2-Dichloropropane	<0.433	0.433	5.00	"	"	"	"	"	"	
Di-isopropyl ether	<0.335	0.335	5.00	"	"	"	"	"	"	
Ethylbenzene	<0.106	0.106	5.00	"	"	"	"	"	"	
Hexachlorobutadiene	<0.248	0.248	10.0	"	"	"	"	"	"	
Isopropylbenzene	<0.106	0.106	5.00	"	"	"	"	"	"	
p-Isopropyltoluene	<0.157	0.157	5.00	"	"	"	"	"	"	
Methylene chloride	<0.386	0.386	0.386	"	"	"	"	"	"	
Methyl tert-butyl ether	<0.290	0.290	0.290	"	"	"	"	"	"	
Naphthalene	<0.159	0.159	8.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H2W (W408198-01) Water Sampled: 08/13/04 09:30 Received: 08/16/04 14:15										**QC**
n-Propylbenzene	<0.137	0.137	5.00	ug/l	1	4080081	08/19/04	08/23/04	EPA 8260B	
1,1,2,2-Tetrachloroethane	<0.331	0.331	0.331	"	"	"	"	"	"	
Tetrachloroethene	<0.275	0.275	0.500	"	"	"	"	"	"	
Toluene	<0.120	0.120	5.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<0.211	0.211	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<0.219	0.219	10.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<0.208	0.208	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	<0.145	0.145	0.145	"	"	"	"	"	"	
Trichloroethene	<0.486	0.486	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	<0.357	0.357	5.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<0.174	0.174	5.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<0.202	0.202	5.00	"	"	"	"	"	"	
Vinyl chloride	<0.217	0.217	0.217	"	"	"	"	"	"	
Total Xylenes	<0.340	0.340	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*80.2 %*	*82.1-117*			"	"	"	"	L
Surrogate: 1,2-Dichloroethane-d4		*85.8 %*	*70.2-131*			"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*74.1-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.6 %*	*88.5-103*			"	"	"	"	
Trip Blank (W408198-02) Water Sampled: 08/13/04 00:00 Received: 08/16/04 14:15										**QC**
Benzene	<0.498	0.498	0.500	ug/l	1	4080081	08/19/04	08/23/04	EPA 8260B	
Bromobenzene	<0.214	0.214	5.00	"	"	"	"	"	"	
Bromodichloromethane	<0.391	0.391	0.391	"	"	"	"	"	"	
n-Butylbenzene	<0.121	0.121	5.00	"	"	"	"	"	"	
sec-Butylbenzene	<0.100	0.100	5.00	"	"	"	"	"	"	
tert-Butylbenzene	<0.129	0.129	5.00	"	"	"	"	"	"	
Carbon tetrachloride	<0.372	0.372	0.372	"	"	"	"	"	"	
Chlorobenzene	<0.216	0.216	5.00	"	"	"	"	"	"	
Chloroethane	<0.658	0.658	5.00	"	"	"	"	"	"	
Chloroform	<0.316	0.316	0.316	"	"	"	"	"	"	
Chloromethane	<0.448	0.448	0.448	"	"	"	"	"	"	
2-Chlorotoluene	<0.157	0.157	5.00	"	"	"	"	"	"	
4-Chlorotoluene	<0.188	0.188	5.00	"	"	"	"	"	"	
Dibromochloromethane	<0.219	0.219	5.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	<0.264	0.264	0.264	"	"	"	"	"	"	
1,2-Dibromoethane	<0.251	0.251	0.251	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (W408198-02) Water	**Sampled: 08/13/04 00:00**		**Received: 08/16/04 14:15**							**QC**
1,2-Dichlorobenzene	<0.155	0.155	5.00	ug/l	1	4080081	08/19/04	08/23/04	EPA 8260B	
1,3-Dichlorobenzene	<0.142	0.142	5.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	<0.137	0.137	5.00	"	"	"	"	"	"	
Dichlorodifluoromethane	<0.481	0.481	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	<0.313	0.313	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	<0.472	0.472	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	<0.295	0.295	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	<0.346	0.346	5.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	<0.312	0.312	5.00	"	"	"	"	"	"	
1,2-Dichloropropane	<0.420	0.420	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	<0.195	0.195	5.00	"	"	"	"	"	"	
2,2-Dichloropropane	<0.433	0.433	5.00	"	"	"	"	"	"	
Di-isopropyl ether	<0.335	0.335	5.00	"	"	"	"	"	"	
Ethylbenzene	<0.106	0.106	5.00	"	"	"	"	"	"	
Hexachlorobutadiene	<0.248	0.248	10.0	"	"	"	"	"	"	
Isopropylbenzene	<0.106	0.106	5.00	"	"	"	"	"	"	
p-Isopropyltoluene	<0.157	0.157	5.00	"	"	"	"	"	"	
Methylene chloride	<0.386	0.386	0.386	"	"	"	"	"	"	
Methyl tert-butyl ether	<0.290	0.290	0.290	"	"	"	"	"	"	
Naphthalene	<0.159	0.159	8.00	"	"	"	"	"	"	
n-Propylbenzene	<0.137	0.137	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	<0.331	0.331	0.331	"	"	"	"	"	"	
Tetrachloroethene	<0.275	0.275	0.500	"	"	"	"	"	"	
Toluene	<0.120	0.120	5.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	<0.211	0.211	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	<0.219	0.219	10.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	<0.208	0.208	5.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	<0.145	0.145	0.145	"	"	"	"	"	"	
Trichloroethene	<0.486	0.486	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	<0.357	0.357	5.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	<0.174	0.174	5.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	<0.202	0.202	5.00	"	"	"	"	"	"	
Vinyl chloride	<0.217	0.217	0.217	"	"	"	"	"	"	
Total Xylenes	<0.340	0.340	5.00	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*73.4 %*	*82.1-117*			"	"	"	"	L
Surrogate: 1,2-Dichloroethane-d4		*82.0 %*	*70.2-131*			"	"	"	"	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260
Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (W408198-02) Water	**Sampled: 08/13/04 00:00**		**Received: 08/16/04 14:15**							**QC**
Surrogate: Toluene-d8		*108 %*	*74.1-125*			*4080081*	*08/19/04*	*08/23/04*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene		*84.8 %*	*88.5-103*			*"*	*"*	*"*	*"*	L

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

Total Metals by EPA 6000/7000 Series Methods
Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
H2W (W408198-01) Water Sampled: 08/13/04 09:30 Received: 08/16/04 14:15										
Mercury	0.000160	0.0000340	0.000200	mg/l	1	4080331	08/18/04	08/18/04	EPA 7470A	A-01, J
Arsenic	<0.00661	0.00661	0.0500	"	"	4080415	08/19/04	08/19/04	EPA 6010B	
Barium	0.00930	0.00648	0.500	"	"	"	"	"	"	J
Cadmium	<0.00384	0.00384	0.00500	"	"	"	"	"	"	
Chromium	<0.00751	0.00751	0.0100	"	"	"	"	"	"	
Selenium	<0.0142	0.0142	0.0500	"	"	"	"	"	"	
Silver	<0.00572	0.00572	0.0500	"	"	"	"	"	"	A-01a
Lead	0.00693	0.000820	0.00500	"	"	"	"	08/19/04	EPA 7421	

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080081 - EPA 5030B (P/T)											
Blank (4080081-BLK1)					Prepared: 08/19/04 Analyzed: 08/21/04						
Benzene	ND	0.498	0.500	ug/l							
Bromobenzene	ND	0.214	5.00	"							
Bromodichloromethane	ND	0.391	0.391	"							
n-Butylbenzene	ND	0.121	5.00	"							
sec-Butylbenzene	ND	0.100	5.00	"							
tert-Butylbenzene	ND	0.129	5.00	"							
Carbon tetrachloride	ND	0.372	0.372	"							
Chlorobenzene	ND	0.216	5.00	"							
Chloroethane	ND	0.658	5.00	"							
Chloroform	ND	0.316	0.316	"							
Chloromethane	ND	0.448	0.448	"							
2-Chlorotoluene	ND	0.157	5.00	"							
4-Chlorotoluene	ND	0.188	5.00	"							
Dibromochloromethane	ND	0.219	5.00	"							
1,2-Dibromo-3-chloropropane	ND	0.264	0.264	"							
1,2-Dibromoethane	ND	0.251	0.251	"							
1,2-Dichlorobenzene	ND	0.155	5.00	"							
1,3-Dichlorobenzene	ND	0.142	5.00	"							
1,4-Dichlorobenzene	ND	0.137	5.00	"							
Dichlorodifluoromethane	ND	0.481	5.00	"							
1,1-Dichloroethane	ND	0.313	5.00	"							
1,2-Dichloroethane	ND	0.472	0.500	"							
1,1-Dichloroethene	ND	0.295	0.500	"							
cis-1,2-Dichloroethene	ND	0.346	5.00	"							
trans-1,2-Dichloroethene	ND	0.312	5.00	"							
1,2-Dichloropropane	ND	0.420	0.500	"							
1,3-Dichloropropane	ND	0.195	5.00	"							
2,2-Dichloropropane	ND	0.433	5.00	"							
Di-isopropyl ether	ND	0.335	5.00	"							
Ethylbenzene	ND	0.106	5.00	"							
Hexachlorobutadiene	ND	0.248	10.0	"							
Isopropylbenzene	ND	0.106	5.00	"							
p-Isopropyltoluene	ND	0.157	5.00	"							
Methylene chloride	ND	0.386	0.386	"							

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080081 - EPA 5030B (P/T)											
Blank (4080081-BLK1)					Prepared: 08/19/04 Analyzed: 08/21/04						
Methyl tert-butyl ether	ND	0.290	0.290	ug/l							
Naphthalene	ND	0.159	8.00	"							
n-Propylbenzene	ND	0.137	5.00	"							
1,1,2,2-Tetrachloroethane	ND	0.331	0.331	"							
Tetrachloroethene	ND	0.275	0.500	"							
Toluene	ND	0.120	5.00	"							
1,2,3-Trichlorobenzene	ND	0.211	10.0	"							
1,2,4-Trichlorobenzene	ND	0.219	10.0	"							
1,1,1-Trichloroethane	ND	0.208	5.00	"							
1,1,2-Trichloroethane	ND	0.145	0.145	"							
Trichloroethene	ND	0.486	0.500	"							
Trichlorofluoromethane	ND	0.357	5.00	"							
1,2,4-Trimethylbenzene	ND	0.174	5.00	"							
1,3,5-Trimethylbenzene	ND	0.202	5.00	"							
Vinyl chloride	ND	0.217	0.217	"							
Total Xylenes	ND	0.340	5.00	"							
Surrogate: Dibromofluoromethane	*54.2*			"	*50.0*		*108*	*82.1-117*			
Surrogate: 1,2-Dichloroethane-d4	*57.0*			"	*50.0*		*114*	*70.2-131*			
Surrogate: Toluene-d8	*51.5*			"	*50.0*		*103*	*74.1-125*			
Surrogate: 4-Bromofluorobenzene	*45.8*			"	*50.0*		*91.6*	*88.5-103*			
LCS (4080081-BS1)					Prepared: 08/19/04 Analyzed: 08/21/04						
Benzene	21.6	0.498	0.500	ug/l	20.0		108	70-130			
Bromobenzene	20.4	0.214	5.00	"	20.0		102	70-130			
Bromodichloromethane	20.4	0.391	0.391	"	20.0		102	70-130			
n-Butylbenzene	19.4	0.121	5.00	"	20.0		97.0	70-130			
sec-Butylbenzene	20.4	0.100	5.00	"	20.0		102	70-130			
tert-Butylbenzene	20.3	0.129	5.00	"	20.0		102	70-130			
Carbon tetrachloride	4.69	0.372	0.372	"	20.0		23.4	70-130			L
Chlorobenzene	19.6	0.216	5.00	"	20.0		98.0	70-130			
Chloroethane	14.5	0.658	5.00	"	20.0		72.5	70-130			
Chloroform	17.9	0.316	0.316	"	20.0		89.5	70-130			
Chloromethane	14.0	0.448	0.448	"	20.0		70.0	70-130			
2-Chlorotoluene	21.1	0.157	5.00	"	20.0		106	70-130			
4-Chlorotoluene	19.6	0.188	5.00	"	20.0		98.0	70-130			

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch 4080081 - EPA 5030B (P/T)												
LCS (4080081-BS1)					Prepared: 08/19/04 Analyzed: 08/21/04							
Dibromochloromethane	18.3	0.219	5.00	ug/l	20.0		91.5	70-130				
1,2-Dibromo-3-chloropropane	17.9	0.264	0.264	"	20.0		89.5	70-130				
1,2-Dibromoethane	12.8	0.251	0.251	"	20.0		64.0	70-130			L	
1,2-Dichlorobenzene	20.5	0.155	5.00	"	20.0		102	70-130				
1,3-Dichlorobenzene	19.8	0.142	5.00	"	20.0		99.0	70-130				
1,4-Dichlorobenzene	18.7	0.137	5.00	"	20.0		93.5	70-130				
Dichlorodifluoromethane	3.66	0.481	5.00	"	20.0		18.3	70-130			L	J
1,1-Dichloroethane	8.93	0.313	5.00	"	20.0		44.6	70-130			L	
1,2-Dichloroethane	20.1	0.472	0.500	"	20.0		100	70-130				
1,1-Dichloroethene	28.2	0.295	0.500	"	20.0		141	70-130			H	
cis-1,2-Dichloroethene	19.0	0.346	5.00	"	20.0		95.0	70-130				
trans-1,2-Dichloroethene	13.8	0.312	5.00	"	20.0		69.0	70-130			L	
1,2-Dichloropropane	21.5	0.420	0.500	"	20.0		108	70-130				
1,3-Dichloropropane	17.3	0.195	5.00	"	20.0		86.5	70-130				
2,2-Dichloropropane	ND	0.433	5.00	"	20.0			70-130			L	
Di-isopropyl ether	6.82	0.335	5.00	"	20.0		34.1	70-130			L	
Ethylbenzene	19.9	0.106	5.00	"	20.0		99.5	70-130				
Hexachlorobutadiene	19.2	0.248	10.0	"	20.0		96.0	70-130				
Isopropylbenzene	20.5	0.106	5.00	"	20.0		102	70-130				
p-Isopropyltoluene	19.6	0.157	5.00	"	20.0		98.0	70-130				
Methylene chloride	9.17	0.386	0.386	"	20.0		45.8	70-130			L	
Methyl tert-butyl ether	8.00	0.290	0.290	"	20.0		40.0	70-130			L	
Naphthalene	18.9	0.159	8.00	"	20.0		94.5	70-130				
n-Propylbenzene	21.1	0.137	5.00	"	20.0		106	70-130				
1,1,2,2-Tetrachloroethane	19.8	0.331	0.331	"	20.0		99.0	70-130				
Tetrachloroethene	18.7	0.275	0.500	"	20.0		93.5	70-130				
Toluene	20.3	0.120	5.00	"	20.0		102	70-130				
1,2,3-Trichlorobenzene	18.9	0.211	10.0	"	20.0		94.5	70-130				
1,2,4-Trichlorobenzene	17.7	0.219	10.0	"	20.0		88.5	70-130				
1,1,1-Trichloroethane	6.81	0.208	5.00	"	20.0		34.0	70-130			L	
1,1,2-Trichloroethane	21.9	0.145	0.145	"	20.0		110	70-130				
Trichloroethene	21.6	0.486	0.500	"	20.0		108	70-130				
Trichlorofluoromethane	22.3	0.357	5.00	"	20.0		112	70-130				
1,2,4-Trimethylbenzene	19.6	0.174	5.00	"	20.0		98.0	70-130				
1,3,5-Trimethylbenzene	20.0	0.202	5.00	"	20.0		100	70-130				

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080081 - EPA 5030B (P/T)											
LCS (4080081-BS1)					Prepared: 08/19/04	Analyzed: 08/21/04					
Vinyl chloride	25.6	0.217	0.217	ug/l	20.0		128	70-130			
Total Xylenes	60.0	0.340	5.00	"	60.0		100	70-130			
Surrogate: Dibromofluoromethane	*37.4*			"	*50.0*		*74.8*	*82.1-117*			L
Surrogate: 1,2-Dichloroethane-d4	*43.1*			"	*50.0*		*86.2*	*70.2-131*			
Surrogate: Toluene-d8	*46.9*			"	*50.0*		*93.8*	*74.1-125*			
Surrogate: 4-Bromofluorobenzene	*43.7*			"	*50.0*		*87.4*	*88.5-103*			L
Matrix Spike (4080081-MS1)		**Source: W408151-09**			Prepared: 08/19/04	Analyzed: 08/23/04					
Benzene	17.9	0.498	0.500	ug/l	20.0	ND	89.5	71.3-120			
Bromobenzene	17.1	0.214	5.00	"	20.0	ND	85.5	71.1-118			
Bromodichloromethane	19.1	0.391	0.391	"	20.0	ND	95.5	70.3-135			
n-Butylbenzene	17.2	0.121	5.00	"	20.0	ND	86.0	55.4-128			
sec-Butylbenzene	17.1	0.100	5.00	"	20.0	ND	85.5	64.2-120			
tert-Butylbenzene	16.5	0.129	5.00	"	20.0	ND	82.5	54.9-126			
Carbon tetrachloride	10.1	0.372	0.372	"	20.0	ND	50.5	52.7-138			L
Chlorobenzene	16.6	0.216	5.00	"	20.0	ND	83.0	73.1-111			
Chloroethane	24.8	0.658	5.00	"	20.0	ND	124	47.7-133			
Chloroform	19.0	0.316	0.316	"	20.0	ND	95.0	69.1-126			
Chloromethane	52.2	0.448	0.448	"	20.0	ND	261	50.7-120			H
2-Chlorotoluene	17.3	0.157	5.00	"	20.0	ND	86.5	63.4-119			
4-Chlorotoluene	16.9	0.188	5.00	"	20.0	ND	84.5	65.9-126			
Dibromochloromethane	16.4	0.219	5.00	"	20.0	ND	82.0	67.4-116			
1,2-Dibromo-3-chloropropane	16.1	0.264	0.264	"	20.0	ND	80.5	56.6-138			
1,2-Dibromoethane	13.6	0.251	0.251	"	20.0	ND	68.0	69.2-114			L
1,2-Dichlorobenzene	16.8	0.155	5.00	"	20.0	ND	84.0	70.7-124			
1,3-Dichlorobenzene	16.7	0.142	5.00	"	20.0	ND	83.5	71.1-119			
1,4-Dichlorobenzene	16.5	0.137	5.00	"	20.0	ND	82.5	69.6-115			
Dichlorodifluoromethane	4.61	0.481	5.00	"	20.0	ND	23.0	53.1-124			L J
1,1-Dichloroethane	20.2	0.313	5.00	"	20.0	ND	101	68.6-131			
1,2-Dichloroethane	18.9	0.472	0.500	"	20.0	ND	94.5	63.1-125			
1,1-Dichloroethene	18.2	0.295	0.500	"	20.0	ND	91.0	59.5-115			
cis-1,2-Dichloroethene	18.4	0.346	5.00	"	20.0	ND	92.0	66.6-131			
trans-1,2-Dichloroethene	16.7	0.312	5.00	"	20.0	ND	83.5	57.2-132			
1,2-Dichloropropane	19.3	0.420	0.500	"	20.0	ND	96.5	76.4-120			
1,3-Dichloropropane	16.0	0.195	5.00	"	20.0	ND	80.0	72.3-111			

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Michael Laupan For Andrea Stathas, Project Manager

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080081 - EPA 5030B (P/T)											
Matrix Spike (4080081-MS1)		**Source: W408151-09**			Prepared: 08/19/04	Analyzed: 08/23/04					
2,2-Dichloropropane	4.46	0.433	5.00	ug/l	20.0	ND	22.3	57.9-117			L J
Di-isopropyl ether	24.4	0.335	5.00	"	20.0	ND	122	59.2-122			
Ethylbenzene	16.9	0.106	5.00	"	20.0	ND	84.5	64.7-130			
Hexachlorobutadiene	16.5	0.248	10.0	"	20.0	ND	82.5	63.3-127			
Isopropylbenzene	17.7	0.106	5.00	"	20.0	ND	88.5	55.1-132			
p-Isopropyltoluene	16.9	0.157	5.00	"	20.0	ND	84.5	54.8-128			
Methylene chloride	14.5	0.386	0.386	"	20.0	ND	72.5	62.8-130			
Methyl tert-butyl ether	11.6	0.290	0.290	"	20.0	ND	58.0	54.5-125			
Naphthalene	15.9	0.159	8.00	"	20.0	ND	79.5	48.5-135			
n-Propylbenzene	18.2	0.137	5.00	"	20.0	ND	91.0	64.6-125			
1,1,2,2-Tetrachloroethane	16.1	0.331	0.331	"	20.0	ND	80.5	67.8-125			
Tetrachloroethene	16.1	0.275	0.500	"	20.0	ND	80.5	66.8-110			
Toluene	16.9	0.120	5.00	"	20.0	ND	84.5	72.5-108			
1,2,3-Trichlorobenzene	16.1	0.211	10.0	"	20.0	ND	80.5	57.4-135			
1,2,4-Trichlorobenzene	15.5	0.219	10.0	"	20.0	ND	77.5	56.9-124			
1,1,1-Trichloroethane	16.0	0.208	5.00	"	20.0	ND	80.0	59.8-129			
1,1,2-Trichloroethane	17.7	0.145	0.145	"	20.0	ND	88.5	74.5-115			
Trichloroethene	16.9	0.486	0.500	"	20.0	ND	84.5	68.1-116			
Trichlorofluoromethane	28.7	0.357	5.00	"	20.0	ND	144	57.4-150			
1,2,4-Trimethylbenzene	16.9	0.174	5.00	"	20.0	ND	84.5	57-126			
1,3,5-Trimethylbenzene	16.7	0.202	5.00	"	20.0	ND	83.5	56.2-126			
Vinyl chloride	19.4	0.217	0.217	"	20.0	ND	97.0	59.4-139			
Total Xylenes	51.1	0.340	5.00	"	60.0	ND	85.2	66.9-119			
Surrogate: Dibromofluoromethane	*48.5*			"	*50.0*		*97.0*	*82.1-117*			
Surrogate: 1,2-Dichloroethane-d4	*48.3*			"	*50.0*		*96.6*	*70.2-131*			
Surrogate: Toluene-d8	*47.6*			"	*50.0*		*95.2*	*74.1-125*			
Surrogate: 4-Bromofluorobenzene	*43.6*			"	*50.0*		*87.2*	*88.5-103*			L

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080081 - EPA 5030B (P/T)											
Matrix Spike Dup (4080081-MSD1)		**Source: W408151-09**			Prepared: 08/19/04	Analyzed: 08/23/04					
Benzene	19.5	0.498	0.500	ug/l	20.0	ND	97.5	71.3-120	8.56	23.7	
Bromobenzene	19.3	0.214	5.00	"	20.0	ND	96.5	71.1-118	12.1	26.7	
Bromodichloromethane	19.2	0.391	0.391	"	20.0	ND	96.0	70.3-135	0.522	26	
n-Butylbenzene	19.8	0.121	5.00	"	20.0	ND	99.0	55.4-128	14.1	38.2	
sec-Butylbenzene	20.0	0.100	5.00	"	20.0	ND	100	64.2-120	15.6	35.2	
tert-Butylbenzene	19.1	0.129	5.00	"	20.0	ND	95.5	54.9-126	14.6	30.6	
Carbon tetrachloride	8.33	0.372	0.372	"	20.0	ND	41.6	52.7-138	19.2	29.5	L
Chlorobenzene	18.2	0.216	5.00	"	20.0	ND	91.0	73.1-111	9.20	23.1	
Chloroethane	18.1	0.658	5.00	"	20.0	ND	90.5	47.7-133	31.2	28.6	H
Chloroform	18.2	0.316	0.316	"	20.0	ND	91.0	69.1-126	4.30	22.7	
Chloromethane	28.0	0.448	0.448	"	20.0	ND	140	50.7-120	60.3	40	H H
2-Chlorotoluene	19.9	0.157	5.00	"	20.0	ND	99.5	63.4-119	14.0	25.6	
4-Chlorotoluene	19.2	0.188	5.00	"	20.0	ND	96.0	65.9-126	12.7	26.3	
Dibromochloromethane	17.2	0.219	5.00	"	20.0	ND	86.0	67.4-116	4.76	27.4	
1,2-Dibromo-3-chloropropane	17.7	0.264	0.264	"	20.0	ND	88.5	56.6-138	9.47	38.9	
1,2-Dibromoethane	13.9	0.251	0.251	"	20.0	ND	69.5	69.2-114	2.18	20.7	
1,2-Dichlorobenzene	19.1	0.155	5.00	"	20.0	ND	95.5	70.7-124	12.8	25.4	
1,3-Dichlorobenzene	19.2	0.142	5.00	"	20.0	ND	96.0	71.1-119	13.9	25.6	
1,4-Dichlorobenzene	18.8	0.137	5.00	"	20.0	ND	94.0	69.6-115	13.0	26	
Dichlorodifluoromethane	3.59	0.481	5.00	"	20.0	ND	18.0	53.1-124	24.9	25.5	L J
1,1-Dichloroethane	13.6	0.313	5.00	"	20.0	ND	68.0	68.6-131	39.1	22.1	L H
1,2-Dichloroethane	19.5	0.472	0.500	"	20.0	ND	97.5	63.1-125	3.13	25.5	
1,1-Dichloroethene	22.0	0.295	0.500	"	20.0	ND	110	59.5-115	18.9	23.3	
cis-1,2-Dichloroethene	19.1	0.346	5.00	"	20.0	ND	95.5	66.6-131	3.73	27.4	
trans-1,2-Dichloroethene	14.5	0.312	5.00	"	20.0	ND	72.5	57.2-132	14.1	26.4	
1,2-Dichloropropane	20.4	0.420	0.500	"	20.0	ND	102	76.4-120	5.54	23.3	
1,3-Dichloropropane	16.5	0.195	5.00	"	20.0	ND	82.5	72.3-111	3.08	23	
2,2-Dichloropropane	4.07	0.433	5.00	"	20.0	ND	20.4	57.9-117	9.14	25.1	L J
Di-isopropyl ether	17.9	0.335	5.00	"	20.0	ND	89.5	59.2-122	30.7	28.6	H
Ethylbenzene	18.8	0.106	5.00	"	20.0	ND	94.0	64.7-130	10.6	25.7	
Hexachlorobutadiene	17.6	0.248	10.0	"	20.0	ND	88.0	63.3-127	6.45	40	
Isopropylbenzene	19.8	0.106	5.00	"	20.0	ND	99.0	55.1-132	11.2	28.5	
p-Isopropyltoluene	19.6	0.157	5.00	"	20.0	ND	98.0	54.8-128	14.8	35.3	
Methylene chloride	8.42	0.386	0.386	"	20.0	ND	42.1	62.8-130	53.1	23.7	L H

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Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

WDNR Volatile Organic Compounds by Method 8260 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080081 - EPA 5030B (P/T)											
Matrix Spike Dup (4080081-MSD1)		**Source: W408151-09**			Prepared: 08/19/04	Analyzed: 08/23/04					
Methyl tert-butyl ether	13.0	0.290	0.290	ug/l	20.0	ND	65.0	54.5-125	11.4	40	
Naphthalene	17.3	0.159	8.00	"	20.0	ND	86.5	48.5-135	8.43	40	
n-Propylbenzene	20.6	0.137	5.00	"	20.0	ND	103	64.6-125	12.4	34.7	
1,1,2,2-Tetrachloroethane	17.8	0.331	0.331	"	20.0	ND	89.0	67.8-125	10.0	22.5	
Tetrachloroethene	17.3	0.275	0.500	"	20.0	ND	86.5	66.8-110	7.19	24.6	
Toluene	18.6	0.120	5.00	"	20.0	ND	93.0	72.5-108	9.58	23.1	
1,2,3-Trichlorobenzene	17.0	0.211	10.0	"	20.0	ND	85.0	57.4-135	5.44	31.8	
1,2,4-Trichlorobenzene	17.1	0.219	10.0	"	20.0	ND	85.5	56.9-124	9.82	31.2	
1,1,1-Trichloroethane	11.3	0.208	5.00	"	20.0	ND	56.5	59.8-129	34.4	21.8	L H
1,1,2-Trichloroethane	19.2	0.145	0.145	"	20.0	ND	96.0	74.5-115	8.13	23.7	
Trichloroethene	18.5	0.486	0.500	"	20.0	ND	92.5	68.1-116	9.04	25.5	
Trichlorofluoromethane	25.4	0.357	5.00	"	20.0	ND	127	57.4-150	12.2	29.4	
1,2,4-Trimethylbenzene	19.3	0.174	5.00	"	20.0	ND	96.5	57-126	13.3	28.7	
1,3,5-Trimethylbenzene	19.6	0.202	5.00	"	20.0	ND	98.0	56.2-126	16.0	31	
Vinyl chloride	19.9	0.217	0.217	"	20.0	ND	99.5	59.4-139	2.54	34.5	
Total Xylenes	57.3	0.340	5.00	"	60.0	ND	95.5	66.9-119	11.4	24.3	
Surrogate: Dibromofluoromethane	*42.6*			"	*50.0*		*85.2*	*82.1-117*			
Surrogate: 1,2-Dichloroethane-d4	*45.8*			"	*50.0*		*91.6*	*70.2-131*			
Surrogate: Toluene-d8	*48.1*			"	*50.0*		*96.2*	*74.1-125*			
Surrogate: 4-Bromofluorobenzene	*44.2*			"	*50.0*		*88.4*	*88.5-103*			L

Great Lakes Analytical--Oak Creek

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 11:56

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080331 - EPA 7470A											
Blank (4080331-BLK1)					Prepared: 08/16/04 Analyzed: 08/18/04						
Mercury	0.0000760	0.0000340	0.000200	mg/l							J
LCS (4080331-BS1)					Prepared: 08/16/04 Analyzed: 08/18/04						
Mercury	0.00143	0.0000340	0.000200	mg/l	0.00150		95.3	78-123			
Matrix Spike (4080331-MS1)			Source: B408289-01		Prepared: 08/16/04 Analyzed: 08/18/04						
Mercury	0.00158	0.0000340	0.000200	mg/l	0.00150	0.000236	89.6	61-135			
Matrix Spike Dup (4080331-MSD1)			Source: B408289-01		Prepared: 08/16/04 Analyzed: 08/18/04						
Mercury	0.00166	0.0000340	0.000200	mg/l	0.00150	0.000236	94.9	61-135	4.94	14.7	
Batch 4080415 - EPA 3010A											
Blank (4080415-BLK1)					Prepared & Analyzed: 08/19/04						
Arsenic	ND	0.00661	0.0500	mg/l							
Barium	ND	0.00648	0.500	"							
Cadmium	ND	0.00384	0.00500	"							
Chromium	ND	0.00751	0.0100	"							
Lead	ND	0.000820	0.00500	"							
Selenium	ND	0.0142	0.0500	"							
Silver	ND	0.00572	0.0500	"							
LCS (4080415-BS1)					Prepared & Analyzed: 08/19/04						
Arsenic	1.86	0.00661	0.0500	mg/l	2.00		93.0	84.5-110			
Barium	3.97	0.00648	0.500	"	4.00		99.2	88.8-111			
Cadmium	2.06	0.00384	0.00500	"	2.00		103	90-114			
Chromium	3.71	0.00751	0.0100	"	4.00		92.8	83.3-110			
Lead	0.0235	0.000820	0.00500	"	0.0240		97.9	71.2-142			
Selenium	1.89	0.0142	0.0500	"	2.00		94.5	87.7-111			
Silver	1.85	0.00572	0.0500	"	2.00		92.5	76.8-113			

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Giles Engineering Assoc.	Project: 1036 W. National	
N8 W22350 Johnson Road	Project Number: IE0407063	**Reported:**
Waukesha, WI 53186	Project Manager: Kevin Bugel	08/24/04 11:56

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Great Lakes Analytical--Buffalo Grove

Analyte	Result	LOD	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080415 - EPA 3010A											
Matrix Spike (4080415-MS1)		**Source: B408314-01**			Prepared & Analyzed: 08/19/04						
Arsenic	1.97	0.00661	0.0500	mg/l	2.00	0.0129	97.9	83.6-110			
Barium	4.07	0.00648	0.500	"	4.00	ND	102	87.8-114			
Cadmium	2.12	0.00384	0.00500	"	2.00	ND	106	85.8-115			
Chromium	3.81	0.00751	0.0100	"	4.00	0.0147	94.9	80-110			
Lead	0.0308	0.000820	0.00500	"	0.0240	0.00704	99.0	16.1-178			
Selenium	1.96	0.0142	0.0500	"	2.00	ND	98.0	87.3-122			
Silver	0.512	0.00572	0.0500	"	2.00	ND	25.6	10-149			
Matrix Spike Dup (4080415-MSD1)		**Source: B408314-01**			Prepared & Analyzed: 08/19/04						
Arsenic	1.97	0.00661	0.0500	mg/l	2.00	0.0129	97.9	83.6-110	0.00	5.37	
Barium	4.07	0.00648	0.500	"	4.00	ND	102	87.8-114	0.00	5.74	
Cadmium	2.14	0.00384	0.00500	"	2.00	ND	107	85.8-115	0.939	5.99	
Chromium	3.81	0.00751	0.0100	"	4.00	0.0147	94.9	80-110	0.00	5.89	
Lead	0.0304	0.000820	0.00500	"	0.0240	0.00704	97.3	16.1-178	1.31	34.8	
Selenium	1.98	0.0142	0.0500	"	2.00	ND	99.0	87.3-122	1.02	5.02	
Silver	0.455	0.00572	0.0500	"	2.00	ND	22.8	10-149	11.8	40	

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Michael Laupan For Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Giles Engineering Assoc. N8 W22350 Johnson Road Waukesha, WI 53186	Project: 1036 W. National Project Number: IE0407063 Project Manager: Kevin Bugel	**Reported:** 08/24/04 11:56

Notes and Definitions

A-01	The instrument blank had a hit of 0.000112 mg/L.
A-01a	The instrument blank had a hit of 0.0166 mg/L.
J	The reported concentration for this analyte is an estimated value. The reported concentration is above the method detection limit, but below the limit of quantitation.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LOD	Limit of detection
LOQ	Limit of quantitation based on the laboratory's lowest calibration level unless mandated differently by the WDNR (ex. GRO, PVOC, VOCs).

Great Lakes Analytical--Buffalo Grove Wisconsin DNR Certification Lab ID: 999917160

Great Lakes Analytical--Buffalo Grove NELAP Primary Accreditation: Illinois #100261

Great Lakes Analytical--Buffalo Grove NELAP Secondary Accreditation: New Jersey #IL001

Great Lakes Analytical--Oak Creek, WI Wisconsin DNR Certification Lab ID: 341000330

Great Lakes Analytical--Oak Creek, WI NELAP Primary Accreditation: Illinois #100307

Note: For analyses that require NELAP accreditation, all analytes, by matrix and method, are accredited following current NELAP standards unless specifically noted by way of a qualifier listed above.

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

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FAX (847) 808-7772

140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Giles Eng.
Address: N8 W22350 W Johnson Dr.
Waukesha WI

Bill To: Same
Address:

TAT: STD 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
Received at laboratory: ☐ ambient ☒ ice
P/U temp. 10 C Lab temp. 7

Report to: Kevin Bugel
E-mail:
Phone #: ( )
Fax #: ( )
State & Program:
Phone #: ( )
Fax #: ( )
Deliverable Package: ☒ STD ☐ Other
Delivery Method: GLA ☐ Client ☐ Shipped ☐ Courier ☒

Project Name: 1036 W National
Project #/PO#: 1E0407063
Sampler: Greg Vogel

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DO NOT DRY-WEIGHT CORRECT RESULTS	SAMPLES FIELD FILTERED ☐YES ☐NO	ANALYSIS TYPE: VOC	RCRA metals						SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	THIS SECTION FOR LAB USE ONLY: LABORATORY ID NUMBER
1 H2W PID:	8-13	9:30	GW		3	1				4			X	X									W408198-01
2 Trip Blank PID:	8-13	—	Lab		1					1			X										-02
3 PID:																							
4 PID:																							
5 PID:																							
6 PID:																							
7 PID:																							
8 PID:																							
9 PID:																							
10 PID:																							

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
Gregory L. Vogel	8/16/04	Nick Kiefer	8/16/04 12:38	[illegible]	8/16/04 14:15	Angela Baran	8/16/04 14:15
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS: Small sample size for RCRA metals ~~[illegible]~~ Do your best! Please include LOD & LOQ

PAGE 1 OF 1