METCO
Excellence through experience™

709 Gillette St., Ste 3, La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 Email: rona@metcohq.com ♦ www.metcohq.com

January 14, 2016

BRRTS #: 03-67-152319
PECFA #: 53040-9117-00

Lee Delcore
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, WI 54073

Subject: Kewaskum Living Waters Church – Letter Report

Dear Mr. Delcore,

Enclosed is the report for the Kewaskum Living Waters Church site located in Kewaskum, Wisconsin. **This completes the Public Bidding Deferred – Cost Cap approved by the WDNR on April 27, 2015.**

Sub-Slab Vapor Sampling Project

On June 23, 2015, Fehr Grahm Engineering and Environmental of Plymouth, Wisconsin installed one sub-slab vapor sampling port in the side entrance of the building at 100 Clinton Street (VP-1). The sub-slab vapor sampling port was constructed by drilling a ½-inch pilot hole through the concrete slab and several inches into the sub slab material with a hammer drill. A 1½-inch outer hole is then drilled to depths ranging from ¾ -inch to 1-inch, depending on the concrete slab thickness. The hole was cleaned of dust and drilling debris using a shop-vac. A stainless steel vapor pin is installed in the inner hole with a silicon sleeve to obtain an air tight seal with the concrete floor. The remainder of the hole is sealed with hydrated bentonite and a water dam test was conducted to confirm that the seal is air tight.

On June 23, 2015, Fehr Grahm Engineering and Environmental collected a vapor sample (VP-1) from the sub-slab sampling port for VOC analysis. Vapor samples were collected by using a short length of Teflon tubing to connect the sampling port and a 6-liter Suma canister. The air sample was collected using a Suma canister with a flow regulator that allowed two sub-slab vapor samples to be collected over a 30 minute period. Prior to collecting the sub-slab vapor samples, a shut in test was conducted to assure that the fittings between the sample probe and sampling container are air tight. No leaks were detected. The sub-slab soil vapor sampling results are summarized in the attached data table.

On June 23-24, 2015, Fehr Grahm Engineering and Environmental personnel collected an indoor air sample (IA-1) from the side entrance of the Kewaskum Living Waters Church building. The air sample was collected using a Suma canister with a flow regulator that allowed the air sample to be collected over a 24 hour period for VOC analysis.

Groundwater Monitoring

On June 23, 2015, METCO personnel collected groundwater samples from three monitoring wells (MW-1, MW-2, and MW-3) for laboratory analysis (PVOC and Naphthalene). Field measurements for Water Level, Dissolved Oxygen, pH, ORP, Specific Conductivity and Temperature were collected from all sampled wells.

On September 15, 2015, METCO personnel collected groundwater samples from three monitoring wells (MW-1, MW-2, and MW-3) for laboratory analysis (PVOC and Naphthalene). Field measurements for Water Level, Dissolved Oxygen, pH, ORP, Specific Conductivity and Temperature were collected from all sampled wells.

Discussion of Results

Air

Sub-Slab Vapor sample VP-1: Showed no exceedances of Residential Sub-Slab Vapor Action Levels (VALs) for various VOCs per the Quick Look-up Table updated in December 2015.

Indoor Air sample IA-1: Showed Residential Indoor Air Vapor Action Level (VAL) exceedances for Benzene (36.1 ug/m3), Ethylbenzene (33.3 ug/m3), Naphthalene (11.9 ug/m3), 1,2,4 Trimethylbenzene (51.6 ug/m3), and Xylene (167 ug/m3). It should be noted that the indoor air exceedances are likely due to gas cans and a snow blower that were found behind a wall in the entrance area. Since there were no exceedances in the sub-slab vapor sample, it does not appear that vapor intrusion to the building is likely.

Groundwater

Monitoring well MW-1: Continues to show a NR140 ES exceedance for Benzene (262 ppb) and NR140 PAL exceedances for Ethylbenzene (214 ppb), and Naphthalene (29.4 ppb). Contaminant levels (Benzene) appear to be slightly increasing, but this may be due to the watertable elevation dropping each round.

Monitoring well MW-2: Continues to show no detects for PVOCs or Naphthalene.

Monitoring well MW-3: Continues to show no exceedances for PVOCs or Naphthalene.

Conclusions/Recommendations

Based on the limited extent and degree of soil and groundwater contamination and the sub-slab vapor sampling results, METCO recommends that this site be reviewed for the possibility of closure. If the State concurs that closure is a viable option at this time please contact METCO to discuss closure activities.

However, if additional groundwater monitoring is required for trend analysis, please contact METCO to discuss workscope and budget.

A Detailed Site Map, Groundwater Flow Maps, Groundwater Isoconcentration Map, Data Tables, and Laboratory Documents have been attached.

If you have any questions or comments please feel free to call (608-781-8879) or email at jasonp@metcohq.com.

Sincerely,

Jason T. Powell
Staff Scientist

Attachments

c: Joan Brath - Client

A.1 Groundwater Analytical Table
Kewaskum Living Waters Church BRRTS# 03-67-152319

Well MW-1
PVC Elevation = 941.24 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/09/14	938.27	2.97	<0.7	**85**	*78*	<2.3	*26.4*	14.1	88.9	133.9
07/09/14	938.10	3.14	NS	**194**	*167*	<0.37	*63*	17.8	51	91.9
06/23/15	937.75	3.49	NS	**222**	110	<0.49	*42*	20.1	34-34.83	47.9
09/15/15	937.23	4.01	NS	**262**	*214*	<0.49	*29.4*	24.3	64.28	62
ENFORCE MENT STANDARD ES = **Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2
PVC Elevation = 941.06 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/09/14	938.29	2.77	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
07/09/14	938.05	3.01	NS	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
06/23/15	938.01	3.05	NS	<0.46	<0.73	<0.19	<2.6	<0.39	<1.51	<2.06
09/15/15	937.08	3.98	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
ENFORCE MENT STANDARD ES = **Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3
PVC Elevation = 941.44 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/09/14	937.93	3.51	<0.7	<0.24	<0.55	0.56	<1.7	<0.69	<3.6	<1.32
07/09/14	938.16	3.28	NS	<0.27	<0.82	1.22	<1.2	<0.8	<1.69	<2.41
06/23/15	937.77	3.67	NS	<0.46	<0.73	0.95	<2.6	<0.39	<1.51	<2.06
09/15/15	937.21	4.23	NS	<0.46	<0.73	1.07	<2.6	<0.39	<1.51	<2.06
ENFORCE MENT STANDARD ES = **Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.4 Vapor Analytical Table
Sub-Slab Sampling Data Table for Kewaskum Living Waters Church BRRTS# 03-67-152319
BY METCO

Sub-Slab Sampling conducted Conducted on June 23, 2015

Sample ID	VP-1	WDNR Residential Sub-Slab Vapor Action Levels for Various VOCs Quick Look-Up Table Updated December, 2015 (ug/m³)	
Benzene – ug/m³	9.1	120	c
Carbon Tetrachloride – ug/m³	<0.45	160	c
Chloroform – ug/m³	<0.45	40	c
Chloromethane – ug/m³	<0.25	3100	n
Dichlorodifluoromethane – ug/m³	2.2J	3300	n
1,1-Dichloroethane (1,1-DCA) – ug/m³	<0.37	600	c
1,2-Dichloroethane (1,2-DCA) - ug/m³	<0.48	37.00	c
1,1-Dichloroethylene (1,1-DCE) – ug/m³	<0.56	7000	n
1,2-Dichloroethylene (cis and mixed) - ug/m³	<0.58	NA	n
1,2-Dichloroethylene (trans) - ug/m³	<0.90	NA	n
Ethylbenzene – ug/m³	19.5	370	c
Methylene chloride – ug/m³	302	21000	n
Methyl Tert-Butyl Ether (MTBE) – ug/m³	4	3700	c
Naphthalene – ug/m³	20.3	28.00	c
Tetrachloroethylene -ug/m³	98.2	1400	n
Toluene – ug/m³	3690	170000	n
1,1,1-Trichloroethane – ug/m³	<0.58	170000	n
Trichloroethylene – ug/m³	0.68	70	n
Trichlorofluoromethane (Halcarbon 11) – ug/m³	2.1	NA	n
Trimethylbenzene (1,2,4) – ug/m³	71.5	240	n
Trimethlybezene (1,3,5) – ug/m³	16.1	NA	n
Vinyl chloride – ug/m³	<0.46	57	c
Xylene (total) -ug/m³	110.5	3300	n

ug/m³ = Micrograms per cubic meter.
< = Less than the reporting limit indicated in parentheses.
Bold = Exceedence of state standards
c = Carcinogen
Underline = Sub-Slab Standard Exceedance
J = between Limit of Detection (LOD) and Limit of Quantitaion (LOQ)
*** Please note that other VOCs were detected that are not on the WDNR Sub-Slab Vapor Action Levels Quick Look-Up Table.**

A.4 Vapor Analytical Table
Indoor Air Sampling Data Table for Kewaskum Living Waters Church BRRTS# 03-67-152319
BY METCO

Indoor Air Sampling conducted Conducted on June 23, 2015

Sample ID	IA-1	WDNR Residential Indoor Air Vapor Action Levels for Various VOCs Quick Look-Up Table Updated December, 2015 (ug/m³)	
Benzene – ug/m³	**36.1**	3.6	c
Carbon Tetrachloride – ug/m³	<0.29	4.7	c
Chloroform – ug/m³	<0.28	1.2	c
Chloromethane – ug/m³	<0.16	94	n
Dichlorodifluoromethane – ug/m³	1.4J	100	n
1,1-Dichloroethane (1,1-DCA) – ug/m³	<0.23	18	c
1,2-Dichloroethane (1,2-DCA) - ug/m³	<0.31	1.10	c
1,1-Dichloroethylene (1,1-DCE) – ug/m³	<0.35	210	n
1,2-Dichloroethylene (cis and mixed) - ug/m³	<0.37	NA	n
1,2-Dichloroethylene (trans) - ug/m³	<0.57	NA	n
Ethylbenzene – ug/m³	**33.3**	11	c
Methylene chloride – ug/m³	<0.81	630	n
Methyl Tert-Butyl Ether (MTBE) – ug/m³	<0.45	110	c
Naphthalene – ug/m³	**11.9**	0.83	c
Tetrachloroethylene -ug/m³	<0.41	42	n
Toluene – ug/m³	207	5200	n
1,1,1-Trichloroethane – ug/m³	<0.37	5200	n
Trichloroethylene – ug/m³	<0.41	2.1	n
Trichlorofluoromethane (Halcarbon 11) – ug/m³	1.5	NA	n
Trimethylbenzene (1,2,4) – ug/m³	**51.6**	7.3	n
Trimethlybezene (1,3,5) – ug/m³	12.6	NA	n
Vinyl chloride – ug/m³	<0.29	1.7	c
Xylene (total) -ug/m³	**167**	100	n

ug/m³ = Micrograms per cubic meter.
< = Less than the reporting limit indicated in parentheses.
Bold = Exceedence of state standards
c = Carcinogen
Underline = Indoor Residential Air Standard Exceedance
J = between Limit of Detection (LOD) and Limit of Quantitaion (LOQ)
*** Please note that other VOCs were detected that are not on the WDNR Indoor Air Vapor Action Levels Quick Look-Up Table.**

A.6 Water Level Elevations
Kewaskum Living Waters Church BRRTS# 03-67-152319
Kewaskum, Wisconsin

	MW-1	MW-2	MW-3
Ground Surface (feet msl)	941.68	941.40	941.72
PVC top (feet msl)	941.24	941.06	941.44
Depth (feet)	13	13	13
Top of screen (feet msl)	938.68	938.40	938.72
Bottom of screen (feet msl)	928.68	928.40	928.72
Depth to Water From Top of PVC (feet)			
04/09/14	2.97	2.77	3.51
07/09/14	3.14	3.01	3.28
06/23/15	3.49	3.05	3.67
09/15/15	4.01	3.98	4.23
Depth to Water From Ground Surface (feet)			
04/09/14	3.41	3.11	3.79
07/09/14	3.58	3.35	3.56
06/23/15	3.93	3.39	3.95
09/15/15	4.45	4.32	4.51
Groundwater Elevation (feet msl)			
04/09/14	938.27	938.29	937.93
07/09/14	938.10	938.05	938.16
06/23/15	937.75	938.01	937.77
09/15/15	937.23	937.08	937.21

CNL = Could Not Locate
A = Abandoned and removed during soil excavation project
NI = Not Installed

A.7 Other
Groundwater NA Indicator Results
Kewaskum Living Waters Church BRRTS# 03-67-152319

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
04/09/14	0.96	6.94	155	5.3	1250	<0.1	37.2	0.1	**349**
07/09/14	0.23	6.31	82	14.6	1398	NS	NS	NS	NS
06/23/15	1.60	7.1	9	13.9	889	NS	NS	NS	NS
09/15/15	2.01	6.91	-25	16.1	1287	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*2*	-	-	*60*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
04/09/14	4.46	7.01	196	6.7	790	0.76	44.8	<0.06	*63.2*
07/09/14	0.74	6.38	109	17.1	876	NS	NS	NS	NS
06/23/15	2.75	7.24	186	16.1	573	NS	NS	NS	NS
09/15/15	3.19	7.04	199	16.1	1027	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*2*	-	-	*60*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
04/09/14	3.86	6.56	204	5.5	936	0.71	58.1	<0.06	9.8
07/09/14	0.81	6.75	62	15.5	1075	NS	NS	NS	NS
06/23/15	1.89	7.61	142	15.2	722	NS	NS	NS	NS
09/15/15	4.98	6.83	262	16.3	810	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*2*	-	-	*60*

(ppb) = parts per billion (ppm) = parts per million
ns = not sampled nm = not measured
Note: Elevations are presented in feet mean sea level (msl).

B.1.b DETAILED SITE MAP

KEWASKUM LIVING WATERS CHURCH

METCO
709 GILLETTE ST. STE 3
LA CROSSE, WI 54603
Tel. (608) 781-8879
Fax. (608) 781-8893
Excellence through experience

KEWASKUM, WISCONSIN

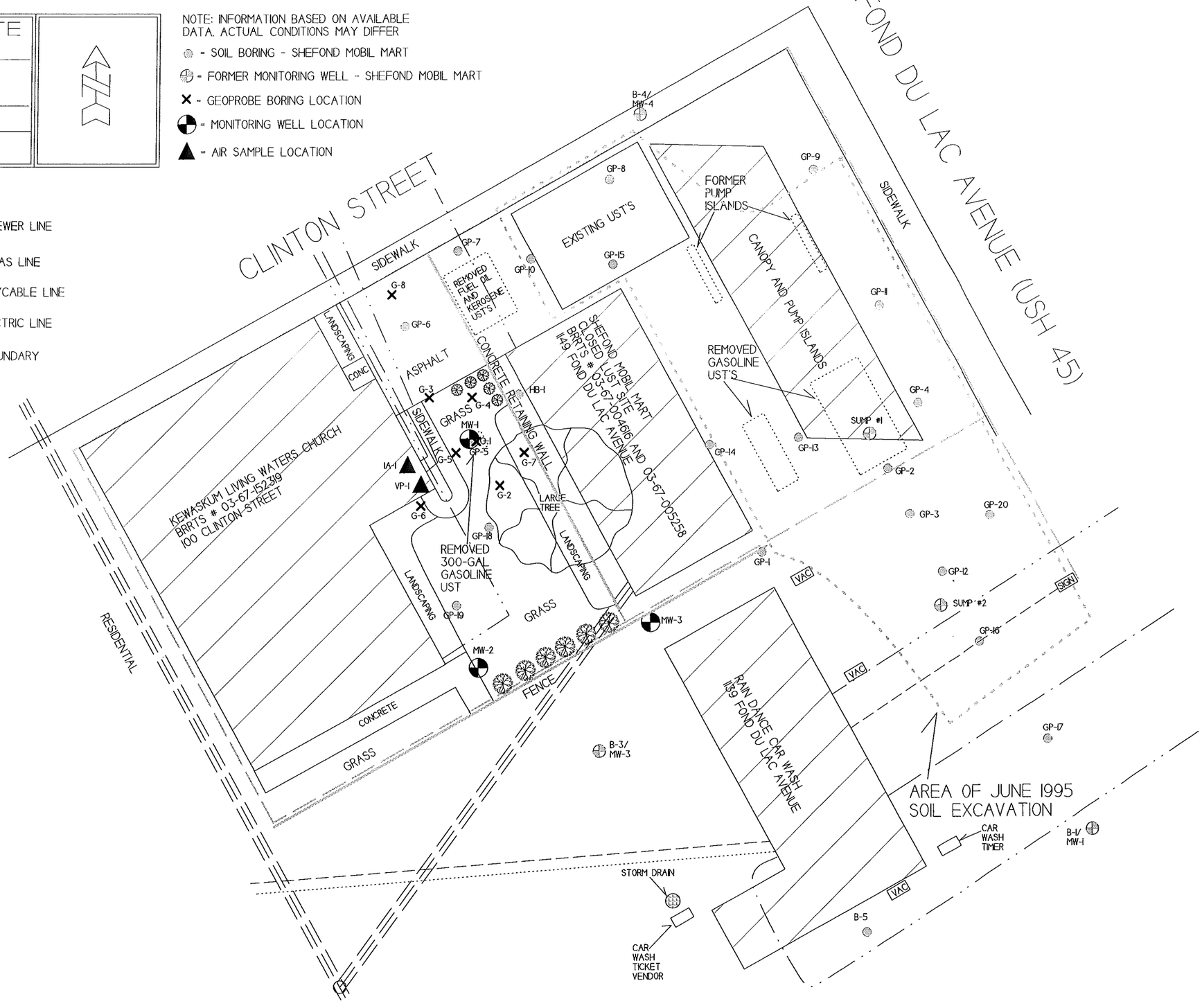
DRAWN BY: ED
DATE: 03/06/2013

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- = SOIL BORING - SHEFOND MOBIL MART
- = FORMER MONITORING WELL - SHEFOND MOBIL MART
- = GEOPROBE BORING LOCATION
- = MONITORING WELL LOCATION
- = AIR SAMPLE LOCATION

- = WATER LINE
- = SANITARY SEWER LINE
- = NATURAL GAS LINE
- = TELEPHONE/CABLE LINE
- = BURIED ELECTRIC LINE
- = PROPERTY BOUNDARY

SCALE:
1 INCH = 25 FEET
0 25



B.3.c GROUNDWATER FLOW DIRECTION JUNE 23, 2015

KEWASKUM LIVING WATERS CHURCH

METCO
709 GILLETTE ST, STE 3
LA CROSSE, WI 54603
Tel (608) 781-8879
Fax (608) 781-8893

KEWASKUM, WISCONSIN

DRAWN BY: DP

DATE: 12/30/15

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- = SOIL BORING - SHEFOND MOBIL MART
- = FORMER MONITORING WELL - SHEFOND MOBIL MART
- = GEOPROBE BORING LOCATION
- = MONITORING WELL LOCATION

- = WATER LINE
- = SANITARY SEWER LINE
- = NATURAL GAS LINE
- = TELEPHONE/CABLE LINE
- = BURIED ELECTRIC LINE
- = PROPERTY BOUNDARY

SCALE:
1 INCH = 25 FEET
0 25

CLINTON STREET
FOND DU LAC AVENUE (USH 45)
SIDEWALK
LANDSCAPING
CONC
ASPHALT
GRASS
CONCRETE RETAINING WALL
REMOVED FUEL OIL AND KEROSENE UST'S
EXISTING UST'S
FORMER PUMP ISLANDS
CANOPY AND PUMP ISLANDS
REMOVED GASOLINE UST'S
SUMP #1
SUMP #2
SHEFOND MOBIL MART
CLOSED LUST SITE
BRRTS # 03-67-004616 AND 03-67-005258
1149 FOND DU LAC AVENUE
KEWASKUM LIVING WATERS CHURCH
BRRTS # 03-67-152319
100 CLINTON STREET
RESIDENTIAL
LARGE TREE
REMOVED 300-GAL GASOLINE UST
CONCRETE
FENCE
RAIN DANCE CAR WASH
1139 FOND DU LAC AVENUE
VAC
SIGN
STORM DRAIN
CAR WASH TICKET VENDOR
CAR WASH TIMER
AREA OF JUNE 1995 SOIL EXCAVATION

MW-1 937.75' MSL
MW-2 938.04' MSL
MW-3 937.77' MSL
937.90' MSL
937.80' MSL
938.00' MSL

B-1/ MW-1
B-2/ MW-2
B-3/ MW-3
B-4/ MW-4
B-5

G-1 G-2 G-3 G-4 G-5 G-6 G-7 G-8
GP-1 GP-2 GP-3 GP-4 GP-5 GP-6 GP-7 GP-8 GP-9 GP-10 GP-11 GP-12 GP-13 GP-14 GP-15 GP-16 GP-17 GP-18 GP-19 GP-20
HB-1

B.3.c GROUNDWATER FLOW DIRECTION SEPTEMBER 15, 2015

KEWASKUM LIVING WATERS CHURCH

METCO
709 GILLETTE ST. STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
"Excellence through experience"

KEWASKUM, WISCONSIN

DRAWN BY: DP

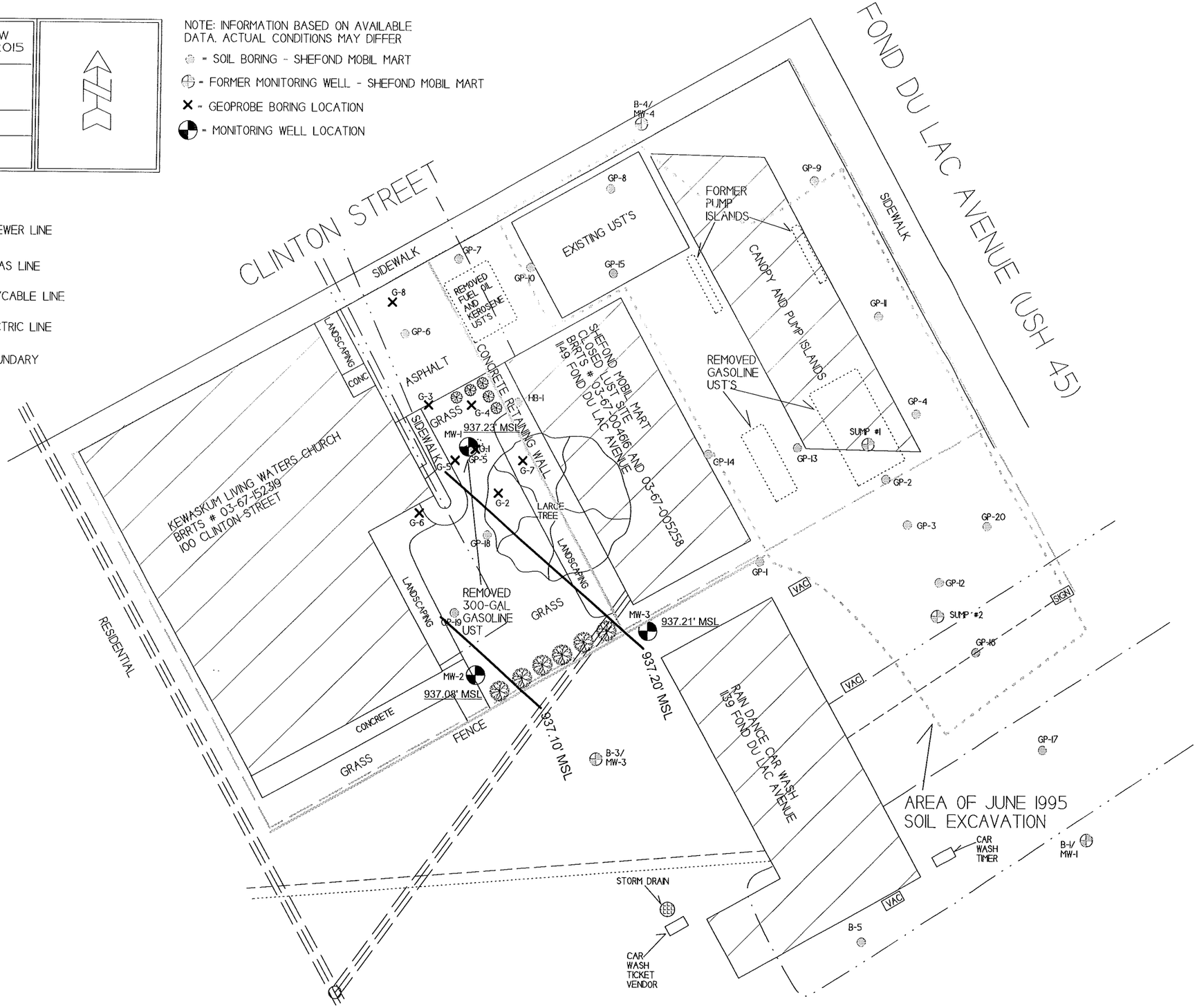
DATE: 12/30/15

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- = SOIL BORING - SHEFOND MOBIL MART
- = FORMER MONITORING WELL - SHEFOND MOBIL MART
- = GEOPROBE BORING LOCATION
- = MONITORING WELL LOCATION

- = WATER LINE
- = SANITARY SEWER LINE
- = NATURAL GAS LINE
- = TELEPHONE/CABLE LINE
- = BURIED ELECTRIC LINE
- = PROPERTY BOUNDARY

SCALE:
1 INCH = 25 FEET
0 25



B.3.b GROUNDWATER ISOCONCENTRATION MAP SEPTEMBER 15, 2015

KEWASKUM LIVING WATERS CHURCH

METCO
709 GILLETTE ST. STE 3
LA CROSSE, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

KEWASKUM, WISCONSIN

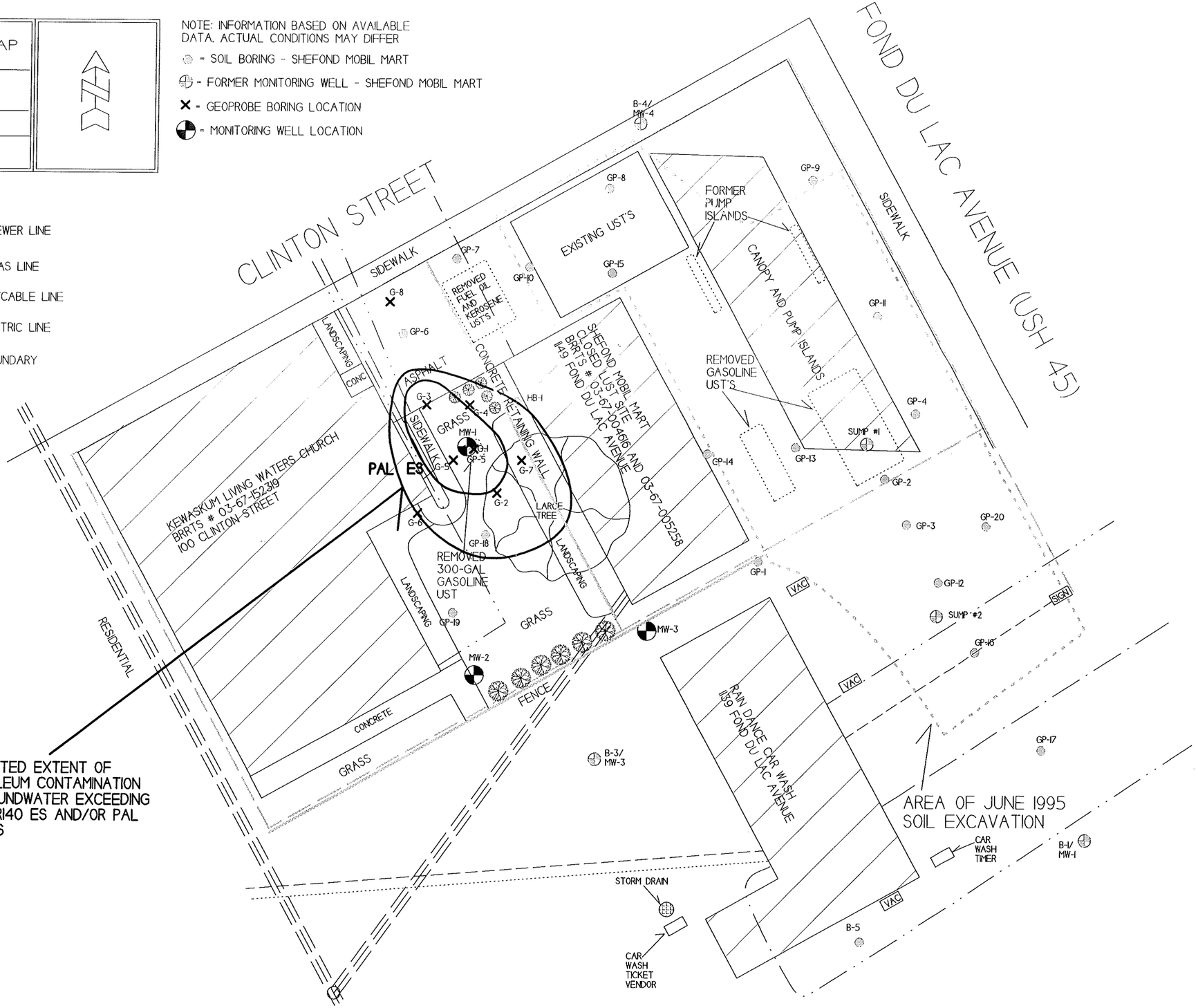
DRAWN BY: JZ
DATE: 12/08/2014

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- = SOIL BORING - SHEFOND MOBIL MART
- = FORMER MONITORING WELL - SHEFOND MOBIL MART
- = GEOPROBE BORING LOCATION
- = MONITORING WELL LOCATION

- = WATER LINE
- = SANITARY SEWER LINE
- = NATURAL GAS LINE
- = TELEPHONE/CABLE LINE
- = BURIED ELECTRIC LINE
- = PROPERTY BOUNDARY

SCALE:
1 INCH = 25 FEET
0 25



ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL VALUES

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 09, 2015

Matt Dahlem
Alpha Terra Science
1237 Pilgrim Rd
Plymouth, WI 53073

RE: Project: 15-1294 Metco
Pace Project No.: 10312031

Dear Matt Dahlem:
Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

cc: Megan Hansen, Alpha Terra Science

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 15-1294 Metco
Pace Project No.: 10312031

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 15-1294 Metco
Pace Project No.: 10312031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10312031001	**VP-1**	Air	06/23/15 11:15	06/26/15 09:45
10312031002	**IA-1**	Air	06/24/15 13:27	06/26/15 09:45

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 15-1294 Metco
Pace Project No.: 10312031

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10312031001	**VP-1**	TO-15	DR1, MLS	61	PASI-M
10312031002	**IA-1**	TO-15	DR1, MLS	61	PASI-M

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 15-1294 Metco
Pace Project No.: 10312031

Sample: VP-1 Lab ID: **10312031001** Collected: 06/23/15 11:15 Received: 06/26/15 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**117**	ug/m3	5.7	2.0	2.35		07/06/15 22:13	67-64-1	
Benzene	**9.1**	ug/m3	0.76	0.29	2.35		07/06/15 22:13	71-43-2	
Benzyl chloride	**<0.39**	ug/m3	2.5	0.39	2.35		07/06/15 22:13	100-44-7	
Bromodichloromethane	**<0.46**	ug/m3	3.2	0.46	2.35		07/06/15 22:13	75-27-4	
Bromoform	**<2.1**	ug/m3	4.9	2.1	2.35		07/06/15 22:13	75-25-2	
Bromomethane	**<0.73**	ug/m3	1.9	0.73	2.35		07/06/15 22:13	74-83-9	
1,3-Buladiene	**<0.41**	ug/m3	1.1	0.41	2.35		07/06/15 22:13	106-99-0	
2-Butanone (MEK)	**70.8**	ug/m3	4.3	0.54	2.35		07/06/15 22:13	78-93-3	
Carbon disulfide	**10**	ug/m3	1.5	0.24	2.35		07/06/15 22:13	75-15-0	
Carbon tetrachloride	**<0.45**	ug/m3	1.5	0.45	2.35		07/06/15 22:13	56-23-5	
Chlorobenzene	**3.2**	ug/m3	2.2	0.31	2.35		07/06/15 22:13	108-90-7	
Chloroethane	**<0.46**	ug/m3	3.2	0.46	2.35		07/06/15 22:13	75-00-3	
Chloroform	**<0.45**	ug/m3	1.2	0.45	2.35		07/06/15 22:13	67-66-3	
Chloromethane	**<0.25**	ug/m3	0.99	0.25	2.35		07/06/15 22:13	74-87-3	
Cyclohexane	**17.5**	ug/m3	1.6	0.74	2.35		07/06/15 22:13	110-82-7	
Dibromochloromethane	**<2.0**	ug/m3	4.1	2.0	2.35		07/06/15 22:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.8**	ug/m3	3.7	1.8	2.35		07/06/15 22:13	106-93-4	
1,2-Dichlorobenzene	**<1.2**	ug/m3	7.2	1.2	2.35		07/06/15 22:13	95-50-1	
1,3-Dichlorobenzene	**3.1**	ug/m3	2.9	1.2	2.35		07/06/15 22:13	541-73-1	
1,4-Dichlorobenzene	**<1.2**	ug/m3	7.2	1.2	2.35		07/06/15 22:13	106-46-7	
Dichlorodifluoromethane	**2.2J**	ug/m3	2.4	1.1	2.35		07/06/15 22:13	75-71-8	
1,1-Dichloroethane	**<0.37**	ug/m3	1.9	0.37	2.35		07/06/15 22:13	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/m3	0.96	0.48	2.35		07/06/15 22:13	107-06-2	
1,1-Dichloroethene	**<0.56**	ug/m3	1.9	0.56	2.35		07/06/15 22:13	75-35-4	
cis-1,2-Dichloroethene	**<0.58**	ug/m3	1.9	0.58	2.35		07/06/15 22:13	156-59-2	
trans-1,2-Dichloroethene	**<0.90**	ug/m3	1.9	0.90	2.35		07/06/15 22:13	156-60-5	
1,2-Dichloropropane	**<0.63**	ug/m3	2.2	0.63	2.35		07/06/15 22:13	78-87-5	
cis-1,3-Dichloropropene	**<0.87**	ug/m3	2.2	0.87	2.35		07/06/15 22:13	10061-01-5	
trans-1,3-Dichloropropene	**<0.61**	ug/m3	5.4	0.61	2.35		07/06/15 22:13	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	3.3	0.73	2.35		07/06/15 22:13	76-14-2	
Ethanol	**207**	ug/m3	60.3	16.7	62.85		07/07/15 12:24	64-17-5	
Ethyl acetate	**146**	ug/m3	1.7	0.82	2.35		07/06/15 22:13	141-78-6	
Ethylbenzene	**19.5**	ug/m3	2.1	1.0	2.35		07/06/15 22:13	100-41-4	
4-Ethyltoluene	**16.8**	ug/m3	2.4	0.44	2.35		07/06/15 22:13	622-96-8	
n-Heptane	**12.3**	ug/m3	2.0	0.66	2.35		07/06/15 22:13	142-82-5	
Hexachloro-1,3-butadiene	**<1.5**	ug/m3	12.7	1.5	2.35		07/06/15 22:13	87-68-3	
n-Hexane	**28.7**	ug/m3	1.7	0.84	2.35		07/06/15 22:13	110-54-3	
2-Hexanone	**3.7**	ug/m3	2.0	0.96	2.35		07/06/15 22:13	591-78-6	
Methylene Chloride	**302**	ug/m3	222	34.1	62.85		07/07/15 12:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.1**	ug/m3	2.0	0.51	2.35		07/06/15 22:13	108-10-1	
Methyl-tert-butyl ether	**4.0**	ug/m3	1.7	0.71	2.35		07/06/15 22:13	1634-04-4	
Naphthalene	**20.3**	ug/m3	6.3	0.72	2.35		07/06/15 22:13	91-20-3	
2-Propanol	**10.5**	ug/m3	2.9	0.56	2.35		07/06/15 22:13	67-63-0	
Propylene	**4.5**	ug/m3	0.82	0.32	2.35		07/06/15 22:13	115-07-1	
Styrene	**5.8**	ug/m3	2.0	0.45	2.35		07/06/15 22:13	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.77**	ug/m3	1.6	0.77	2.35		07/06/15 22:13	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 15-1294 Metco
Pace Project No.: 10312031

Sample: VP-1 Lab ID: **10312031001** Collected: 06/23/15 11:15 Received: 06/26/15 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**98.2**	ug/m3	1.6	0.65	2.35		07/06/15 22:13	127-18-4	
Tetrahydrofuran	**57.5**	ug/m3	1.4	0.28	2.35		07/06/15 22:13	109-99-9	
Toluene	**3690**	ug/m3	48.4	9.7	62.85		07/07/15 12:24	108-88-3	
1,2,4-Trichlorobenzene	**<2.1**	ug/m3	8.9	2.1	2.35		07/06/15 22:13	120-82-1	
1,1,1-Trichloroethane	**<0.58**	ug/m3	2.6	0.58	2.35		07/06/15 22:13	71-55-6	
1,1,2-Trichloroethane	**<0.58**	ug/m3	1.3	0.58	2.35		07/06/15 22:13	79-00-5	
Trichloroethene	**0.68J**	ug/m3	1.3	0.65	2.35		07/06/15 22:13	79-01-6	
Trichlorofluoromethane	**2.1J**	ug/m3	2.7	0.31	2.35		07/06/15 22:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.71**	ug/m3	3.8	0.71	2.35		07/06/15 22:13	76-13-1	
1,2,4-Trimethylbenzene	**71.5**	ug/m3	2.3	0.29	2.35		07/06/15 22:13	95-63-6	
1,3,5-Trimethylbenzene	**16.1**	ug/m3	2.3	0.43	2.35		07/06/15 22:13	108-67-8	
Vinyl acetate	**<0.78**	ug/m3	1.7	0.78	2.35		07/06/15 22:13	108-05-4	
Vinyl chloride	**<0.46**	ug/m3	0.61	0.46	2.35		07/06/15 22:13	75-01-4	
m&p-Xylene	**73.3**	ug/m3	4.2	1.8	2.35		07/06/15 22:13	179601-23-1	
o-Xylene	**37.2**	ug/m3	2.1	0.82	2.35		07/06/15 22:13	95-47-6	

Sample: IA-1 Lab ID: **10312031002** Collected: 06/24/15 13:27 Received: 06/26/15 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**13.8**	ug/m3	3.6	1.2	1.49		07/06/15 22:40	67-64-1	
Benzene	**36.1**	ug/m3	0.48	0.18	1.49		07/06/15 22:40	71-43-2	
Benzyl chloride	**<0.25**	ug/m3	1.6	0.25	1.49		07/06/15 22:40	100-44-7	
Bromodichloromethane	**<0.29**	ug/m3	2.0	0.29	1.49		07/06/15 22:40	75-27-4	
Bromoform	**<1.3**	ug/m3	3.1	1.3	1.49		07/06/15 22:40	75-25-2	
Bromomethane	**<0.46**	ug/m3	1.2	0.46	1.49		07/06/15 22:40	74-83-9	
1,3-Butadiene	**<0.26**	ug/m3	0.67	0.26	1.49		07/06/15 22:40	106-99-0	
2-Butanone (MEK)	**5.3**	ug/m3	2.7	0.34	1.49		07/06/15 22:40	78-93-3	
Carbon disulfide	**<0.15**	ug/m3	0.94	0.15	1.49		07/06/15 22:40	75-15-0	
Carbon tetrachloride	**<0.29**	ug/m3	0.95	0.29	1.49		07/06/15 22:40	56-23-5	
Chlorobenzene	**<0.20**	ug/m3	1.4	0.20	1.49		07/06/15 22:40	108-90-7	
Chloroethane	**<0.29**	ug/m3	2.0	0.29	1.49		07/06/15 22:40	75-00-3	
Chloroform	**<0.28**	ug/m3	0.74	0.28	1.49		07/06/15 22:40	67-66-3	
Chloromethane	**<0.16**	ug/m3	0.63	0.16	1.49		07/06/15 22:40	74-87-3	
Cyclohexane	**89.9**	ug/m3	1.0	0.47	1.49		07/06/15 22:40	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	2.6	1.3	1.49		07/06/15 22:40	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/m3	2.3	1.2	1.49		07/06/15 22:40	106-93-4	
1,2-Dichlorobenzene	**<0.76**	ug/m3	4.6	0.76	1.49		07/06/15 22:40	95-50-1	
1,3-Dichlorobenzene	**<0.79**	ug/m3	1.8	0.79	1.49		07/06/15 22:40	541-73-1	
1,4-Dichlorobenzene	**2.0J**	ug/m3	4.6	0.74	1.49		07/06/15 22:40	106-46-7	
Dichlorodifluoromethane	**1.4J**	ug/m3	1.5	0.72	1.49		07/06/15 22:40	75-71-8	
1,1-Dichloroethane	**<0.23**	ug/m3	1.2	0.23	1.49		07/06/15 22:40	75-34-3	
1,2-Dichloroethane	**<0.31**	ug/m3	0.61	0.31	1.49		07/06/15 22:40	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 15-1294 Metco
Pace Project No.: 10312031

Sample: IA-1 Lab ID: **10312031002** Collected: 06/24/15 13:27 Received: 06/26/15 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.35**	ug/m3	1.2	0.35	1.49		07/06/15 22:40	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.2	0.37	1.49		07/06/15 22:40	156-59-2	
trans-1,2-Dichloroethene	**<0.57**	ug/m3	1.2	0.57	1.49		07/06/15 22:40	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.4	0.40	1.49		07/06/15 22:40	78-87-5	
cis-1,3-Dichloropropene	**<0.55**	ug/m3	1.4	0.55	1.49		07/06/15 22:40	10061-01-5	
trans-1,3-Dichloropropene	**<0.39**	ug/m3	3.4	0.39	1.49		07/06/15 22:40	10061-02-6	
Dichlorotetrafluoroethane	**<0.46**	ug/m3	2.1	0.46	1.49		07/06/15 22:40	76-14-2	
Ethanol	**211**	ug/m3	7.2	2.0	7.45		07/07/15 12:02	64-17-5	
Ethyl acetate	**1.7**	ug/m3	1.1	0.52	1.49		07/06/15 22:40	141-78-6	
Ethylbenzene	**33.3**	ug/m3	1.3	0.63	1.49		07/06/15 22:40	100-41-4	
4-Ethyltoluene	**15.8**	ug/m3	1.5	0.28	1.49		07/06/15 22:40	622-96-8	
n-Heptane	**49.4**	ug/m3	1.2	0.42	1.49		07/06/15 22:40	142-82-5	
Hexachloro-1,3-butadiene	**<0.97**	ug/m3	8.1	0.97	1.49		07/06/15 22:40	87-68-3	
n-Hexane	**123**	ug/m3	1.1	0.53	1.49		07/06/15 22:40	110-54-3	
2-Hexanone	**<0.61**	ug/m3	1.2	0.61	1.49		07/06/15 22:40	591-78-6	
Methylene Chloride	**<0.81**	ug/m3	5.3	0.81	1.49		07/06/15 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.32**	ug/m3	1.2	0.32	1.49		07/06/15 22:40	108-10-1	
Methyl-tert-butyl ether	**<0.45**	ug/m3	1.1	0.45	1.49		07/06/15 22:40	1634-04-4	
Naphthalene	**11.9**	ug/m3	4.0	0.45	1.49		07/06/15 22:40	91-20-3	
2-Propanol	**<0.36**	ug/m3	1.9	0.36	1.49		07/06/15 22:40	67-63-0	
Propylene	**2.9**	ug/m3	0.52	0.20	1.49		07/06/15 22:40	115-07-1	
Styrene	**<0.29**	ug/m3	1.3	0.29	1.49		07/06/15 22:40	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.49**	ug/m3	1.0	0.49	1.49		07/06/15 22:40	79-34-5	
Tetrachloroethene	**<0.41**	ug/m3	1.0	0.41	1.49		07/06/15 22:40	127-18-4	
Tetrahydrofuran	**<0.18**	ug/m3	0.89	0.18	1.49		07/06/15 22:40	109-99-9	
Toluene	**207**	ug/m3	5.7	1.1	7.45		07/07/15 12:02	108-88-3	
1,2,4-Trichlorobenzene	**<1.4**	ug/m3	5.6	1.4	1.49		07/06/15 22:40	120-82-1	
1,1,1-Trichloroethane	**<0.37**	ug/m3	1.7	0.37	1.49		07/06/15 22:40	71-55-6	
1,1,2-Trichloroethane	**<0.37**	ug/m3	0.82	0.37	1.49		07/06/15 22:40	79-00-5	
Trichloroethene	**<0.41**	ug/m3	0.82	0.41	1.49		07/06/15 22:40	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.7	0.20	1.49		07/06/15 22:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.45**	ug/m3	2.4	0.45	1.49		07/06/15 22:40	76-13-1	
1,2,4-Trimethylbenzene	**51.6**	ug/m3	1.5	0.19	1.49		07/06/15 22:40	95-63-6	
1,3,5-Trimethylbenzene	**12.6**	ug/m3	1.5	0.27	1.49		07/06/15 22:40	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.1	0.49	1.49		07/06/15 22:40	108-05-4	
Vinyl chloride	**<0.29**	ug/m3	0.39	0.29	1.49		07/06/15 22:40	75-01-4	
m&p-Xylene	**125**	ug/m3	2.6	1.2	1.49		07/06/15 22:40	179601-23-1	
o-Xylene	**42.0**	ug/m3	1.3	0.52	1.49		07/06/15 22:40	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 15-1294 Metco
Pace Project No.: 10312031

QC Batch: AIR/23657
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10312031001, 10312031002

METHOD BLANK: 2015020
Matrix: Air
Associated Lab Samples: 10312031001, 10312031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	07/06/15 12:25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.33	0.70	07/06/15 12:25	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	07/06/15 12:25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.30	1.6	07/06/15 12:25	
1,1-Dichloroethane	ug/m3	<0.16	0.82	07/06/15 12:25	
1,1-Dichloroethene	ug/m3	<0.24	0.81	07/06/15 12:25	
1,2,4-Trichlorobenzene	ug/m3	<0.91	3.8	07/06/15 12:25	
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	07/06/15 12:25	
1,2-Dibromoethane (EDB)	ug/m3	<0.77	1.6	07/06/15 12:25	
1,2-Dichlorobenzene	ug/m3	<0.51	3.1	07/06/15 12:25	
1,2-Dichloroethane	ug/m3	<0.20	0.41	07/06/15 12:25	
1,2-Dichloropropane	ug/m3	<0.27	0.94	07/06/15 12:25	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	07/06/15 12:25	
1,3-Butadiene	ug/m3	<0.18	0.45	07/06/15 12:25	
1,3-Dichlorobenzene	ug/m3	<0.53	1.2	07/06/15 12:25	
1,4-Dichlorobenzene	ug/m3	<0.50	3.1	07/06/15 12:25	
2-Butanone (MEK)	ug/m3	<0.23	1.8	07/06/15 12:25	
2-Hexanone	ug/m3	<0.41	0.83	07/06/15 12:25	
2-Propanol	ug/m3	<0.24	1.2	07/06/15 12:25	
4-Ethyltoluene	ug/m3	<0.19	1.0	07/06/15 12:25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.22	0.83	07/06/15 12:25	
Acetone	ug/m3	<0.83	2.4	07/06/15 12:25	
Benzene	ug/m3	<0.12	0.32	07/06/15 12:25	
Benzyl chloride	ug/m3	<0.17	1.0	07/06/15 12:25	
Bromodichloromethane	ug/m3	<0.19	1.4	07/06/15 12:25	
Bromoform	ug/m3	<0.90	2.1	07/06/15 12:25	
Bromomethane	ug/m3	<0.31	0.79	07/06/15 12:25	
Carbon disulfide	ug/m3	<0.10	0.63	07/06/15 12:25	
Carbon tetrachloride	ug/m3	<0.19	0.64	07/06/15 12:25	
Chlorobenzene	ug/m3	<0.13	0.94	07/06/15 12:25	
Chloroethane	ug/m3	<0.19	1.3	07/06/15 12:25	
Chloroform	ug/m3	<0.19	0.50	07/06/15 12:25	
Chloromethane	ug/m3	<0.11	0.42	07/06/15 12:25	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	07/06/15 12:25	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	07/06/15 12:25	
Cyclohexane	ug/m3	<0.32	0.70	07/06/15 12:25	
Dibromochloromethane	ug/m3	<0.86	1.7	07/06/15 12:25	
Dichlorodifluoromethane	ug/m3	<0.48	1.0	07/06/15 12:25	
Dichlorotetrafluoroethane	ug/m3	<0.31	1.4	07/06/15 12:25	
Ethanol	ug/m3	<0.26	0.96	07/06/15 12:25	
Ethyl acetate	ug/m3	<0.35	0.73	07/06/15 12:25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 15-1294 Metco
Pace Project No.: 10312031

METHOD BLANK: 2015020 Matrix: Air
Associated Lab Samples: 10312031001, 10312031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.42	0.88	07/06/15 12:25	
Hexachloro-1,3-butadiene	ug/m3	<0.65	5.4	07/06/15 12:25	
m&p-Xylene	ug/m3	<0.79	1.8	07/06/15 12:25	
Methyl-tert-butyl ether	ug/m3	<0.30	0.73	07/06/15 12:25	
Methylene Chloride	ug/m3	<0.54	3.5	07/06/15 12:25	
n-Heptane	ug/m3	<0.28	0.83	07/06/15 12:25	
n-Hexane	ug/m3	<0.36	0.72	07/06/15 12:25	
Naphthalene	ug/m3	<0.30	2.7	07/06/15 12:25	
o-Xylene	ug/m3	<0.35	0.88	07/06/15 12:25	
Propylene	ug/m3	<0.14	0.35	07/06/15 12:25	
Styrene	ug/m3	<0.19	0.87	07/06/15 12:25	
Tetrachloroethene	ug/m3	<0.28	0.69	07/06/15 12:25	
Tetrahydrofuran	ug/m3	<0.12	0.60	07/06/15 12:25	
Toluene	ug/m3	<0.15	0.77	07/06/15 12:25	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	07/06/15 12:25	
trans-1,3-Dichloropropene	ug/m3	<0.26	2.3	07/06/15 12:25	
Trichloroethene	ug/m3	<0.28	0.55	07/06/15 12:25	
Trichlorofluoromethane	ug/m3	<0.13	1.1	07/06/15 12:25	
Vinyl acetate	ug/m3	<0.33	0.72	07/06/15 12:25	
Vinyl chloride	ug/m3	<0.20	0.26	07/06/15 12:25	

LABORATORY CONTROL SAMPLE: 2015021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.8	115	72-140	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	69.6	100	68-137	
1,1,2-Trichloroethane	ug/m3	55.5	63.6	115	66-138	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	85.4	110	70-132	
1,1-Dichloroethane	ug/m3	41.2	46.6	113	68-137	
1,1-Dichloroethene	ug/m3	40.3	45.8	114	73-138	
1,2,4-Trichlorobenzene	ug/m3	75.5	69.4	92	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	51.5	103	75-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	80.0	102	75-132	
1,2-Dichlorobenzene	ug/m3	61.2	59.8	98	71-129	
1,2-Dichloroethane	ug/m3	41.2	46.9	114	73-139	
1,2-Dichloropropane	ug/m3	47	54.7	116	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	51.9	104	75-133	
1,3-Butadiene	ug/m3	22.5	24.8	110	66-135	
1,3-Dichlorobenzene	ug/m3	61.2	62.2	102	75-131	
1,4-Dichlorobenzene	ug/m3	61.2	60.8	99	69-135	
2-Butanone (MEK)	ug/m3	30	29.0	97	67-131	
2-Hexanone	ug/m3	41.7	41.8	100	72-130	
2-Propanol	ug/m3	25	27.2	109	66-133	
4-Ethyltoluene	ug/m3	50	51.6	103	75-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 15-1294 Metco
Pace Project No.: 10312031

LABORATORY CONTROL SAMPLE: 2015021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	41.4	99	68-134	
Acetone	ug/m3	24.2	24.5	101	63-144	
Benzene	ug/m3	32.5	37.3	115	64-139	
Benzyl chloride	ug/m3	52.5	49.2	94	75-129	
Bromodichloromethane	ug/m3	68.2	68.4	100	75-134	
Bromoform	ug/m3	105	107	102	72-130	
Bromomethane	ug/m3	39.5	42.7	108	71-132	
Carbon disulfide	ug/m3	31.7	33.1	105	56-139	
Carbon tetrachloride	ug/m3	64	73.8	115	75-150	
Chlorobenzene	ug/m3	46.8	47.6	102	71-132	
Chloroethane	ug/m3	26.8	29.0	108	71-129	
Chloroform	ug/m3	49.7	57.1	115	73-136	
Chloromethane	ug/m3	21	22.8	109	52-143	
cis-1,2-Dichloroethene	ug/m3	40.3	44.6	111	64-137	
cis-1,3-Dichloropropene	ug/m3	46.2	45.9	99	75-128	
Cyclohexane	ug/m3	35	39.1	112	62-143	
Dibromochloromethane	ug/m3	86.6	88.6	102	75-136	
Dichlorodifluoromethane	ug/m3	50.3	53.9	107	70-141	
Dichlorotetrafluoroethane	ug/m3	71.1	77.0	108	71-139	
Ethanol	ug/m3	19.2	18.9	99	60-144	
Ethyl acetate	ug/m3	36.6	41.0	112	64-137	
Ethylbenzene	ug/m3	44.2	46.2	105	71-136	
Hexachloro-1,3-butadiene	ug/m3	108	110	101	51-150	
m&p-Xylene	ug/m3	88.3	92.1	104	71-134	
Methyl-tert-butyl ether	ug/m3	36.7	41.2	112	73-134	
Methylene Chloride	ug/m3	35.3	36.3	103	64-130	
n-Heptane	ug/m3	41.7	48.0	115	63-135	
n-Hexane	ug/m3	35.8	38.6	108	69-135	
Naphthalene	ug/m3	53.3	48.6	91	43-150	
o-Xylene	ug/m3	44.2	45.4	103	75-134	
Propylene	ug/m3	17.5	20.1	115	58-135	
Styrene	ug/m3	43.3	44.3	102	75-133	
Tetrachloroethene	ug/m3	69	82.6	120	66-137	
Tetrahydrofuran	ug/m3	30	29.7	99	58-135	
Toluene	ug/m3	38.3	45.5	119	70-129	
trans-1,2-Dichloroethene	ug/m3	40.3	45.4	112	61-140	
trans-1,3-Dichloropropene	ug/m3	46.2	45.4	98	75-134	
Trichloroethene	ug/m3	54.6	65.3	119	70-134	
Trichlorofluoromethane	ug/m3	57.1	61.2	107	67-140	
Vinyl acetate	ug/m3	35.8	41.5	116	60-139	
Vinyl chloride	ug/m3	26	30.2	116	72-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 15-1294 Metco
Pace Project No.: 10312031

SAMPLE DUPLICATE: 2015321

Parameter	Units	10313057001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	<0.36		25	
Naphthalene	ug/m3	ND	<0.30		25	
o-Xylene	ug/m3	0.56J	0.48J		25	
Propylene	ug/m3	ND	<0.14		25	
Styrene	ug/m3	3.8	3.6	3	25	
Tetrachloroethene	ug/m3	ND	<0.28		25	
Tetrahydrofuran	ug/m3	ND	<0.12		25	
Toluene	ug/m3	1.1	1.1	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.38		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.26		25	
Trichloroethene	ug/m3	ND	<0.28		25	
Trichlorofluoromethane	ug/m3	1.4	1.3	10	25	
Vinyl acetate	ug/m3	ND	<0.33		25	
Vinyl chloride	ug/m3	ND	<0.20		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 15-1294 Metco
Pace Project No : 10312031

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15-1294 Metco
Pace Project No.: 10312031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10312031001	VP-1	TO-15	AIR/23657		
10312031002	IA-1	TO-15	AIR/23657		

Pace Analytical
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

15692 Page: 1 of 1

Section A Required Client Information:
Company: Fehr Graham
Address: 1237 Pilgrim Rd
Plymouth WI 53073
Email To: Matt Pangasm
Phone: 920-892-2444 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To:
Copy To: Same
Purchase Order No.:
Project Name: 15-1294
Project Number: Metro

Section C Invoice Information:
Attention:
Company Name:
Address: Same
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / RCRA / Other ___
Location of Sampling by State ______
Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___
Report Level: II.___ III.___ IV.___ Other___

Section D Required Client Information

Valid Media Codes — MEDIA / CODE: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Method: PM10, 3C-Fixed Gas (%), TO-3, TO-3M (Methane), TO-4 (PCBs), TO-13 (PAH), TO-14, TO-15, TO15 Short List, PVOC Ext

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED Composite Start Date	Time	Composite End/Grab Date	Time	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	TO15 Short List	PVOC Ext	Pace Lab ID
1	VP-1	6LC	85	6/23	1115			29	8	2174	--993	X		
2	IA-1	6LC	0.0	6/23	1220	6/24	1327	30	4	0291	--459	X		
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6/25/15	10:18	[signature] Pace	6/25/15	10:18
[signature] Pace	6/25/15	1805	[signature]	[illegible]	[illegible]

SAMPLE CONDITIONS: Temp in °C / Received on Ice Y/N / Custody Sealed Cooler Y/N / Samples Intact Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Justin Schuenemann
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY):

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26Dec2012 Page 1 of 1
	Document No.: F-MN-A-106-rev.09	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt Client Name: Project #: WO#: 10312031

10312031

Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number:

Custody Seal on Cooler/Box Present? [ ] Yes [x] No Seals Intact? [ ] Yes [ ] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [x] Foam [ ] None [ ] Other: Temp Blank rec: [ ] Yes [x] No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: [ ] B88A912167504 [ ] B88A913252491 [ ] 72337080 [ ] 80512447

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents:

Type of ice Received [ ] Blue [ ] Wet [x] None

				Comments:
Chain of Custody Present?	[x] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[x] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[x] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[x] Yes	[ ] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[x] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[x] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[x] No	[ ] N/A	7.
Sufficient Volume?	[x] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[x] Yes	[ ] No	[ ] N/A	9.
Pace Containers Used?	[ ] Yes	[ ] No	[ ] N/A	
Containers Intact?	[ ] Yes	[ ] No	[ ] N/A	10.
Media:				11.
Sample Labels Match COC?	[x] Yes	[ ] No	[ ] N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
[illegible]	[illegible]		[illegible]		
[illegible]	[illegible]		[illegible]		

CLIENT NOTIFICATION/RESOLUTION Field Data Required? [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 06/25/13

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

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOAN BRATH
JOAN BRATH
100 CLINTON AVE.,
KEWASKUM, WI 53040

Report Date *07-Jul-15*

Project Name KEWASKUM LIVING WATERS CHURCH **Invoice #** E29157
Project #

Lab Code 5029157A
Sample ID MW-3
Sample Matrix Water
Sample Date 6/23/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		7/1/2015	LPA	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		7/1/2015	LPA	I
Methyl tert-butyl ether (MTBE)	0.95 "J"	ug/l	0.49	1.6	1	GRO95/8021		7/1/2015	LPA	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		7/1/2015	LPA	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		7/1/2015	LPA	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		7/1/2015	LPA	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		7/1/2015	LPA	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		7/1/2015	LPA	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		7/1/2015	LPA	I

Lab Code 5029157B
Sample ID MW-2
Sample Matrix Water
Sample Date 6/23/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		7/1/2015	LPA	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		7/1/2015	LPA	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		7/1/2015	LPA	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		7/1/2015	LPA	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		7/1/2015	LPA	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		7/1/2015	LPA	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		7/1/2015	LPA	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		7/1/2015	LPA	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		7/1/2015	LPA	I

Project Name KEWASKUM LIVING WATERS CHURCH **Invoice #** E29157
Project #

Lab Code 5029157C
Sample ID MW-1
Sample Matrix Water
Sample Date 6/23/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	222	ug/l	0.46	1.5	1	GRO95/8021		6/26/2015	LPA	1
Ethylbenzene	110	ug/l	0.73	2.3	1	GRO95/8021		6/26/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/26/2015	LPA	1
Naphthalene	42	ug/l	2.6	8.3	1	GRO95/8021		6/26/2015	LPA	1
Toluene	20.1	ug/l	0.39	1.2	1	GRO95/8021		6/26/2015	LPA	1
1,2,4-Trimethylbenzene	34	ug/l	0.68	2.2	1	GRO95/8021		6/26/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/26/2015	LPA	1
m&p-Xylene	39	ug/l	1.4	4.4	1	GRO95/8021		6/26/2015	LPA	1
o-Xylene	8.9	ug/l	0.66	2.1	1	GRO95/8021		6/26/2015	LPA	1

Lab Code 5029157D
Sample ID TB
Sample Matrix Water
Sample Date 6/23/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/26/2015	LPA	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		6/26/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/26/2015	LPA	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/26/2015	LPA	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/26/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/26/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/26/2015	LPA	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/26/2015	LPA	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		6/26/2015	LPA	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature *Michael Ricker*

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # 3037

Page 1 of 1

Sample Handling Request
Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No.: Quote No.:

Project #:

Sampler: (signature)

Project: (Name / Location): Kewaskum Living Waters Church

Reports To: Jean Beath	Invoice To: Jean Beath C/O METCO
Company	Company
Address 100 Clinton Ave.	Address 709 Jerrette Street, Suite 3
City State Zip Kewaskum, WI, 53040	City State Zip Lacrosse, WI, 54603
Phone (262)626-8337	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5029157 A	MW-3	6-23	10:15			N	3	GW	HCL
B	MW-2		10:35			↓	↓	↓	↓
C	MW-1		10:55			↓	↓	↓	↓
D	TB						1		↓

Analysis Requested

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Other Analysis: PID/FID
							X	X						
								X						
								X						

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of report to METCO (JeanP) (invoice to METCO)

Agent Status, U+L rates apply

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	5:00	6-23-15			

Received in Laboratory By: Time: 8:00 Date: 6/25/15

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOAN BRATH
JOAN BRATH
100 CLINTON AVE.,
KEWASKUM, WI 53040

Report Date *22-Sep-15*

Project Name KEWASKUM LIVING WATERS CHURCH **Invoice #** E29685
Project #

Lab Code 5029685A
Sample ID MW-3
Sample Matrix Water
Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/21/2015	CJR	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/21/2015	CJR	I
Methyl tert-butyl ether (MTBE)	1.07 "J"	ug/l	0.49	1.6	1	GRO95/8021		9/21/2015	CJR	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/21/2015	CJR	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/21/2015	CJR	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/21/2015	CJR	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/21/2015	CJR	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/21/2015	CJR	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/21/2015	CJR	I

Lab Code 5029685B
Sample ID MW-2
Sample Matrix Water
Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/21/2015	CJR	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/21/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/21/2015	CJR	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/21/2015	CJR	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/21/2015	CJR	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/21/2015	CJR	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/21/2015	CJR	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/21/2015	CJR	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/21/2015	CJR	I

Project Name KEWASKUM LIVING WATERS CHURCH **Invoice #** E29685
Project #

Lab Code 5029685C
Sample ID MW-1
Sample Matrix Water
Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	262	ug/l	0.46	1.5	1	GRO95/8021		9/21/2015	CJR	1
Ethylbenzene	214	ug/l	0.73	2.3	1	GRO95/8021		9/21/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/21/2015	CJR	1
Naphthalene	29.4	ug/l	2.6	8.3	1	GRO95/8021		9/21/2015	CJR	1
Toluene	24.3	ug/l	0.39	1.2	1	GRO95/8021		9/21/2015	CJR	1
1,2,4-Trimethylbenzene	63	ug/l	0.68	2.2	1	GRO95/8021		9/21/2015	CJR	1
1,3,5-Trimethylbenzene	1.28 "J"	ug/l	0.83	2.6	1	GRO95/8021		9/21/2015	CJR	1
m&p-Xylene	48	ug/l	1.4	4.4	1	GRO95/8021		9/21/2015	CJR	1
o-Xylene	14	ug/l	0.66	2.1	1	GRO95/8021		9/21/2015	CJR	1

Lab Code 5029685D
Sample ID TB
Sample Matrix Water
Sample Date 9/15/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/21/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/21/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/21/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/21/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/21/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/21/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/21/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/21/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/21/2015	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature *Michael Ricker*

CHAIN OF JSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 317

Page 1 of 1

Sample Handling Request
_____ Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #:

Sampler: (signature) Jon Jenn

Project (Name / Location): Kewaskum Living Waters Church / Kewaskum

Reports To: Jean Brath	Invoice To: J Brath
Company	Company c/o METCO
Address 100 Clinton Ave.	Address 709 Gillette St, Ste 3
City State Zip Kewaskum, WI 53040	City State Zip La Crosse, WI 54603
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DHO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS					PID/FID
502968SA	MW-3	9-15	950				3	GW	HCL									X										
B	MW-2	↓	1010				↓	↓	↓									X										
C	MW-1	↓	1030				↓	↓	↓									X										
D	TB						↓		↓									X										

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of report to METCO / Jason S. (Invoice to METCO)

Utc Rates apply *Agent status

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Rendered

Temp. of Temp. Blank ____ °C On Ice X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jon Jenn	9:00	9/16/15			

Received in Laboratory By: [signature] Time: 3:00 Date: 9/17/15