

**GEOPROBE INVESTIGATION REPORT
STAUDE PROPERTY (BRRTS 03-28-174068)
611 SOUTH SIXTH STREET
WATERTOWN, WISCONSIN 53094**

PREPARED FOR:

JON HEBERER
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
3911 FISH HATCHERY ROAD
FITCHBURG, WISCONSIN 53711

KEN STAUDE
611 SOUTH SIXTH STREET
WATERTOWN, WISCONSIN 53094

OCTOBER 2017

SEYMOUR ENVIRONMENTAL SERVICES, INC.

P.O. Box 398, 2531 Dyreson Road, McFarland, Wisconsin 53558

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1.0 INTRODUCTION

This describes the work that was conducted to investigate the soil and groundwater associated with a release from a 500 gallon unleaded gasoline underground storage tank (UST) property located at 611 South Sixth Street, Watertown. The tank was removed on September 22, 1997 and the contamination was reported to the Wisconsin Department of Natural Resources (WDNR) the same day.

The investigation showed that soil contamination is present in the tank location and to the south. The groundwater is also impacted and the distribution is similar to the soil contamination.

1.1 Site and Consultant Information

Site Location: Staude Property BRRTS: 03-28-174068
611 South Sixth Street
Watertown, Wisconsin 53094
Jefferson County – City of Watertown
SW ¼ NE ¼ Section 04, Township 08 North, Range 15 East
WTM: X-624001, Y-302640

Owner: Mr. Kenneth Staude
611 South Sixth Street
Watertown, Wisconsin 53094
(920) 253-8544

Consultant: Seymour Environmental Services, Inc.
2531 Dyreson Road
McFarland, Wisconsin 53558
Contact: Robyn Seymour (608) 838-9120

Geoprobe/Driller: On-site Environmental Services, Inc.
P.O. Box 280
Sun Prairie, Wisconsin 53590
Contact: Kim Kapugi (608) 837-8992

Laboratory: Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, Wisconsin 54302
Contact: Dan Milewsky (920) 469-2436

1.2 Description of Surrounding Area

The property is located at the northeast corner of the intersection of Milwaukee and South Sixth Streets. The area surrounding the site is mainly a residential neighborhood. The adjacent properties are all private homes.

1.3 Site History and Previous Environmental Activities

The property formerly was occupied by a moving company. A 500 gallon underground gasoline tank was used to store fuel for the business vehicles. In September 1997 the UST was removed by Tank Removal Specialists of Green Bay, Wisconsin. The tank remover observed clay and sand in the tank excavation. A soil sample collected from beneath the former UST for the tank assessment contained 1,600 milligram per kilogram gasoline range organics. This concentration exceeded the assessment guideline of 10 mg/kg.

It appears that some investigation was conducted at the site by Assured Environmental Associates in 2009. However, minimal information from the work is available and is not included.

1.4 Geologic Setting

This site is located in the glaciated area of Wisconsin. Locally, glacial deposits are comprised of ground moraine (basal till) from the Green Bay glacial lobe. The till forms gently undulating plains with moderate relief. The till is comprised primarily of unsorted clay to fine sand sized sediments although the deposits may contain material as large as boulders. The glacially-derived materials extend to a depth of 60-70 feet where bedrock is encountered. The bedrock is Ordovician dolomite (Platteville Formation).

Soil in the area is mapped as Theresa silt loam. The Theresa series consists of very deep moderately well drained soils that are moderately deep to dense. Theresa soils are characterized by silty soils from the surface to a depth of ~14 inches. These surficial silts originate from loess deposits. The silty loams are underlain by clayey loam from 14 to 35 inches. Soils deeper than 35 inches are loams comprised of clay, silt and fine sand.

The site is located in central Watertown at an elevation of approximately 835 feet above mean sea level. The ground surface generally slopes toward the west southwest toward the Rock River. The surface slope is ~2.7%. The Rock River is present approximately ¼ mile to the west of the site.

Published information indicates that the water table in the area is present at a depth of ~18 feet (818 feet msl). Groundwater at the site was encountered 8-10 feet deep. It is unclear whether the water encountered is the water table or a layer of "perched" water within the relatively tight glacial sediments.

1.5 Receptors

The area is serviced by the City of Watertown water utility so no private water supply wells are located nearby. The nearest water supply well is a municipal well (Watertown #4) which is located 600 feet west southwest of the site. That well is ~725 feet deep and is cased to a depth of 125 feet. Water from the well comes from the lower Ordovician and Upper Cambrian aquifers.

The contamination is not identified shallower than 7 feet below the surface. This is likely deeper than utility trenches so migration through the trenches should not be an issue.

2.0 SITE INVESTIGATION ACTIVITIES

Seymour and On-site met at the site on June 23, 2017 to conduct a Geoprobe investigation. Six borings were installed at the site. Soil samples were collected continuously during drilling. Soil samples were described in the field and screened for organic vapors using a photoionization detector equipped with a 10.6 eV lamp. Groundwater samples were also collected from all but one of the borings. Soil and groundwater samples collected during the investigation were submitted to Pace Analytical for analysis of petroleum volatile organic compounds plus naphthalene (PVOC+naph.). Information collected from each of the borings is discussed in the following section. The soil analytical results are summarized on Table 1 and the groundwater results on Table 2. The analytical report is attached as Appendix A. The boring logs are included as Appendix B. Soil at the site was ranged from clayey silt to silty sand. The sandier soil was generally deeper.

The first boring, B-1, was installed at the location of the former tank. The boring was advanced to 25 feet. Field screening showed elevated levels of organic vapors in soils from ~7 to 25 feet below grade. The highest organic vapor levels of 1,500 vppm were noted at ~7 feet. Vapor levels declined with depth and were 90 vppm in the soil at ~22 feet. During drilling it was difficult to determine the moisture conditions in the tight soils. We installed a temporary casing in the boring. The water level in the

temporary well rose to 7.7 feet below grade. Two soil samples from B-1 (7 and 19 feet) were analyzed. Both soil samples contained PVOCs above the groundwater pathway RCLs. The groundwater sample collected at B-1 contained a number of PVOCs but only benzene was present above the NR140 ES.

The second boring, B-2, was installed 12 feet to the north of the former UST near the foundation of the house. This boring was advanced to a depth of 15 feet. No organic vapors were noted in the soil at this location from the surface to about 10 feet below grade; very low (>1 vppm) organic vapor levels were present in the soil from 10-15 feet. A soil sample collected from a depth of 7 feet was selected for laboratory analysis; this is just above the groundwater level noted in the temporary well at B-1. No analytes were detected in the soil sample. A groundwater sample also was collected from B-2. The groundwater sample contained low levels of several PVOCs. Benzene was present above the NR140 PAL in the groundwater sample at this location.

Boring B-3 was installed 20 feet west of the former tank to a depth of 15 feet. No organic vapors were noted in the soil at this location. A soil sample collected from a depth of 7 feet was selected for laboratory analysis; no analytes were detected in the soil sample. A groundwater sample also was collected from B-3 and no PVOCs were detected in the sample.

Boring B-4 was installed 17 feet directly south of the former tank. No organic vapors were noted in the soil at this location from the surface to about ~7.5 feet below grade. Elevated organic vapor levels (90-150 vppm) were noted in soil from 7.5 to 12.5 feet. No organic vapors were noted in the soil from 12.5 to 15 feet. A single soil sample collected at the top of the suspected contamination (7.5 feet) was selected for laboratory analysis. The soil sample contained a number of PVOCs at levels that exceed the groundwater pathway RCLs. A groundwater sample also was collected at B-4. The groundwater sample contained several PVOCs at concentrations exceeding the NR140 ES.

Boring B-5 was installed 25 feet to the southwest of the former tank bed. This boring was advanced to a depth of 15 feet. No organic vapors were noted in the soil at this location. A soil sample and a groundwater sample from a depth of 8 feet were collected for laboratory analysis. No analytes were detected in the soil sample. The groundwater sample contained benzene (9.3 ug/l) above the NR140 ES.

The final boring, B-6, was installed just to the east of the former tank bed and advanced to a depth of 10 feet. No organic vapors were noted in the soil at this location. A single soil sample collected from the base of the boring (9-10 feet) was selected for laboratory analysis. No analytes were detected in the soil sample.

3.0 DISCUSSION OF RESULTS

3.1 Soil

The results show that soil contamination is present at the former tank location (B-1). Soil containing PVOCs above the groundwater pathway RCLs was identified in this area from 7 to 19 feet below grade. Based on field observations it appears that the contamination originated from the bottom of the tank. No elevated organic vapor levels were noted within the soil from the shallow, direct contact horizon. The soil contamination extends to the south from the former tank bed beneath the Milwaukee Street right-of-way (Figure 3). Soil contamination exceeding the groundwater pathway RCL was identified at a depth of 7 feet below grade at B-4. The limit of the soil contamination to the south has not been defined. Compounds present in the contaminated soil above the groundwater pathway RCLs include benzene, ethylbenzene, toluene, total trimethylbenzenes (TMB), xylenes and naphthalene.

3.2 Groundwater

Groundwater was collected from 5 of the 6 borings. Since there was no field evidence of contamination at B-6 no groundwater sample was collected from that location. Petroleum compounds were present above the detection limit in each of the five samples. Groundwater from 3 of the borings (B-1, B-4 and B-5) contained at least one PVOC above NR140 ESs. These borings were located within the former tank bed (B-1) and to the south and southwest of the former tank bed (Figure 4). Benzene was present above the NR140 PAL in the groundwater sample collected 12 feet north of the former tank bed (B-2). No analytes were present above WDNr groundwater quality standards in the groundwater sample collected 20 feet to the west of the tank bed (B-3).

The highest contaminant levels in the groundwater samples were present at B-4, which appears to be in the downgradient direction based on the analytical results. Both benzene and ethylbenzene were present above the ES at this location. Lower contaminant levels were present in the groundwater sample collected at the tank bed (B-1) but this water sample was collected about 10 feet deeper than the other samples. The benzene level at B-1 and B-5 exceeded the NR140 ES. Lower levels of benzene were noted to the north at B-2; benzene at this location was 1.2 ug/l, above the PAL.

4.0 RECOMMENDATIONS

Soil and groundwater contamination above WDNr standards is present at the site. The extent of the contamination has not been defined to the south. We recommend additional soil and groundwater investigation to the south across Milwaukee Street. It does not seem likely that the soil contamination will extend much further south, but the groundwater contamination may have migrated farther.

Removal of the contaminated soil in the source area may be appropriate. Because of structural impediments soil excavation would be limited to the source property.

5.0 REFERENCES

Mudrey, Jr., M.G., Brown, B.A. Greenburg, J.K., 1982, Bedrock Geologic Map of Wisconsin

Glocker, Carl, 1979, Soil Survey of Jefferson County, Wisconsin, USCS, UW-Madison

Wisconsin Department of Natural Resources, 2013, Wisconsin Administrative Code, Chs. NR 700-749, Investigation and Remediation of Environmental Contamination.

Wisconsin Department of Natural Resources, 2015, Wisconsin Administrative Code, Chs. NR 140, Groundwater Quality.

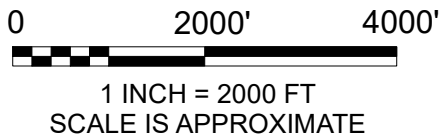
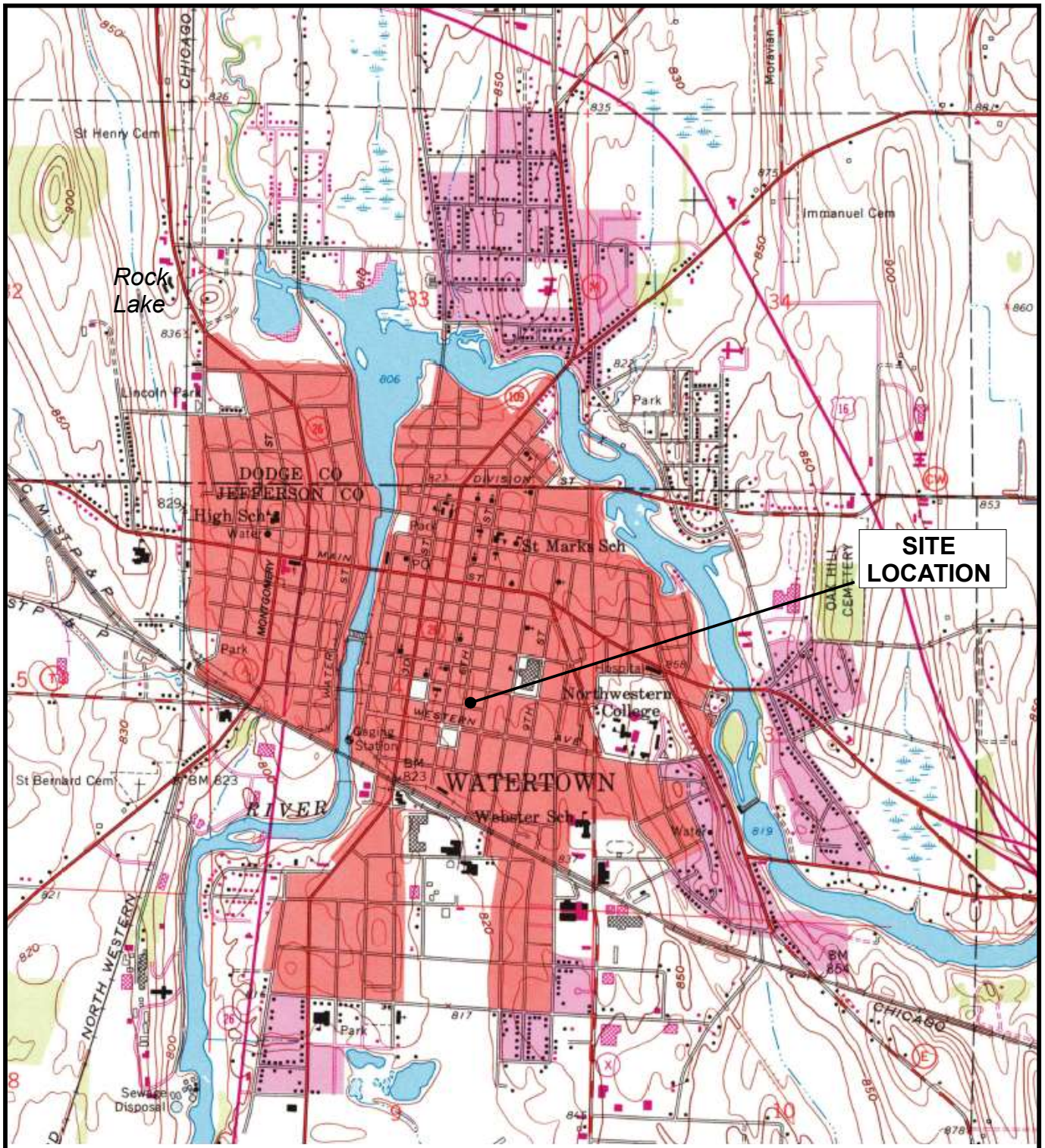
Questions about this work should be directed to Robyn Seymour or Mark Fryman at (608) 838-9120.

Sincerely,
Seymour Environmental Services, Inc.



Robyn Seymour

FIGURES

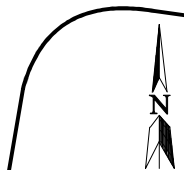
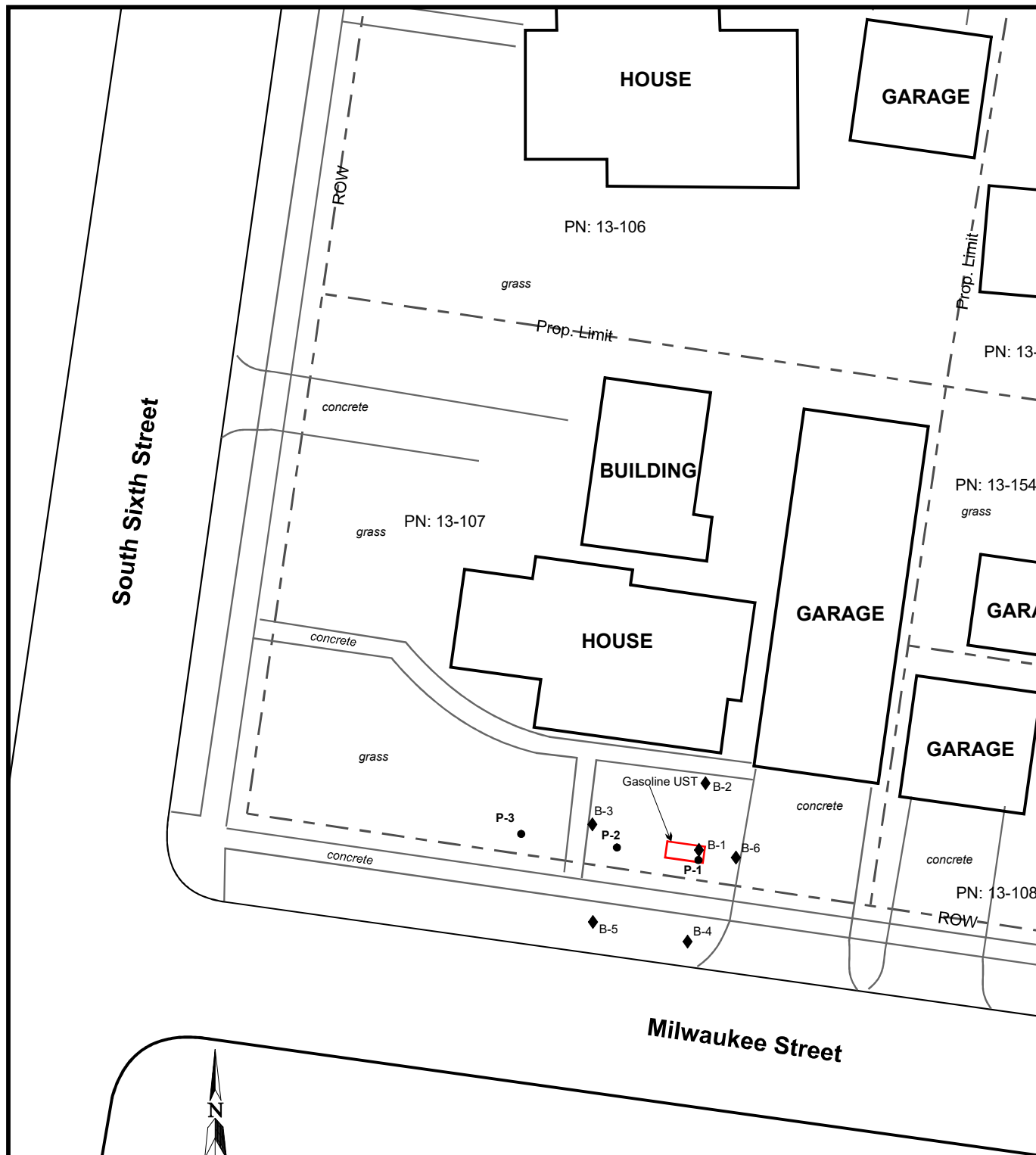


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 Staude-Location.cdr
 DATE: 05/11/2017
 PREPARED: MDF APPROVED:
 SOURCE:
 USGS 7.5' Quadrangle Series
 Watertown, WI Quadrangle (1959)

**SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.**

SITE LOCATION
 Ken Staude Property
 611 South Sixth Street
 Watertown, Wisconsin

FIGURE
1



LEGEND

◆ B-5 - Geoprobe (June 2017)

0 30' 60'

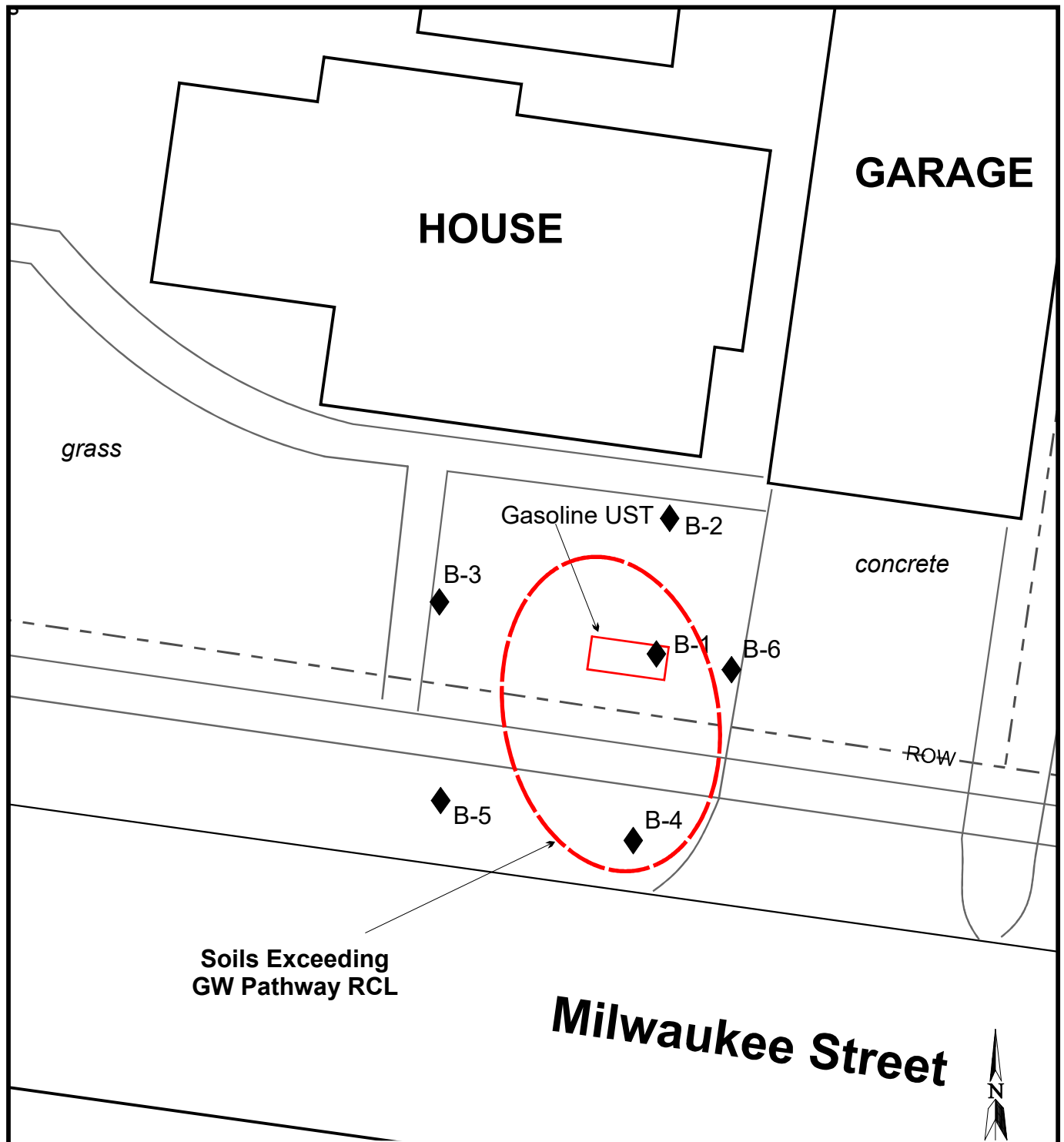
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SCALE IS APPROXIMATE

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DATE: 04/25/2017
PREPARED: MDF APPROVED:
SOURCE: Jefferson County Public Mapping
Field Measurements

**SEYMOUR
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SERVICES, INC.**

SITE LAYOUT / SAMPLING LOCATIONS
Ken Staude Property
611 South Sixth Street
Watertown, Wisconsin

FIGURE
2



LEGEND

B-5 ♦ - Geoprobe (June 2017)

0 15' 30'

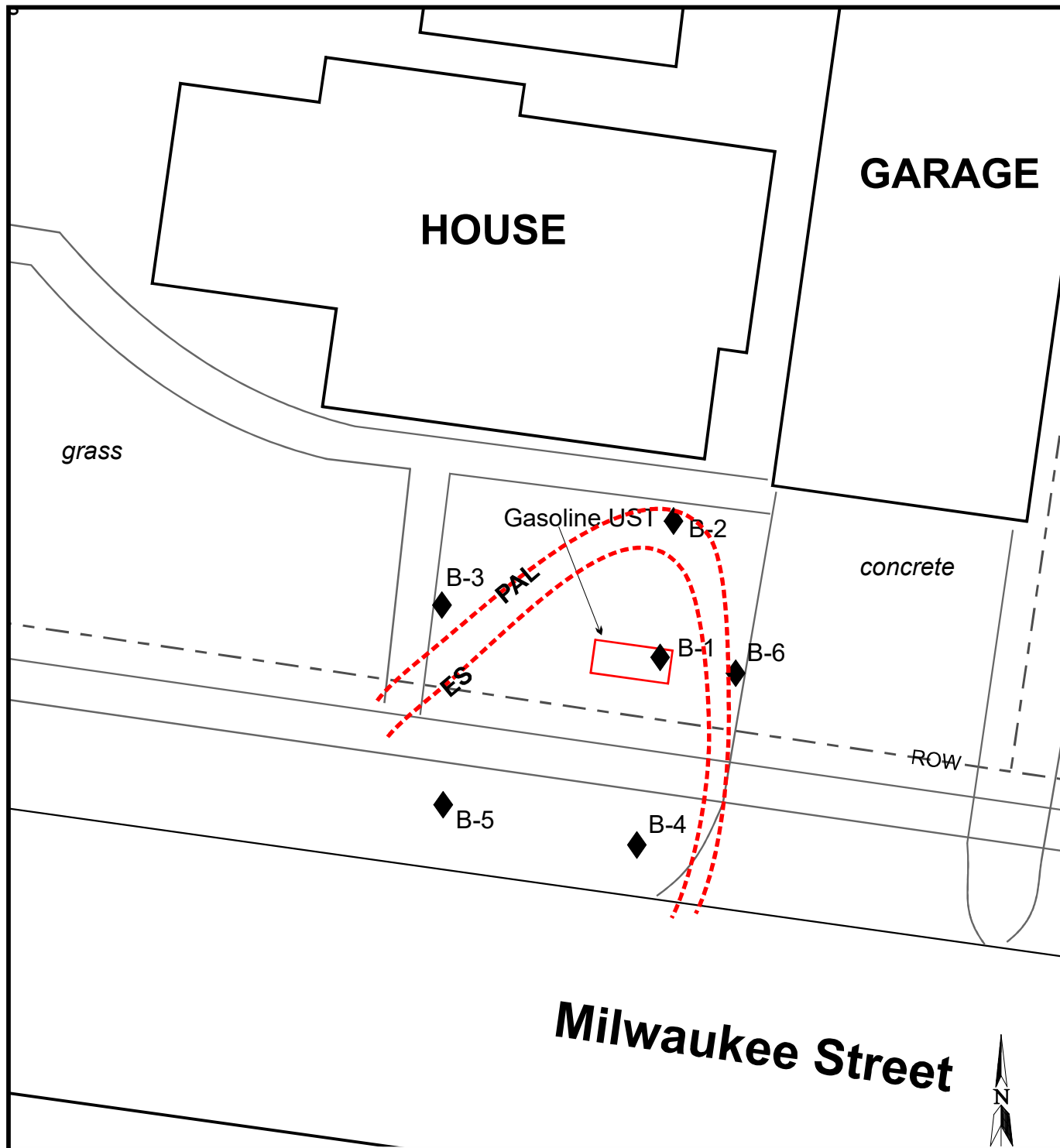
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SCALE IS APPROXIMATE

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DATE: 04/25/2017
PREPARED: MDF APPROVED:
SOURCE: Jefferson County Public Mapping Field Measurements

SEYMOUR ENVIRONMENTAL SERVICES, INC.

IDENTIFIED SOIL CONTAMINATION
Ken Staude Property
611 South Sixth Street
Watertown, Wisconsin

FIGURE 3



LEGEND

B-5 ♦ - Geoprobe (June 2017)

0 15' 30'

1 INCH = 15 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\STAUDE\gwcont.cdr
 DATE: 04/25/2017
 PREPARED: MDF APPROVED:
 SOURCE: Jefferson County Public Mapping
 Field Measurements

**SEYMOUR
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 SERVICES, INC.**

IDENTIFIED GROUNDWATER CONTAMINATION
 Ken Staude Property
 611 South Sixth Street
 Watertown, Wisconsin

**FIGURE
 4**

TABLES

TABLE 1
SUMMARY OF GEOPROBE SOIL ANALYTICAL DATA (06/23/2017)
Ken Staude Property
611 South Sixth Street – Watertown, Wisconsin

SAMPLE	B-1	B-1	B-2	B-3	B-4	B-5	B-6	Groundwater Pathway RCL	Non-Industrial Direct Contact RCL
Depth (ft)	7	19	7	7	7.5	8	9-10		
PID	1500	800	0	0	150	0	0	ns	ns
DRO	na	na	na	na	na	na	na	ns	ns
GRO	na	na	na	na	na	na	na	ns	ns
PVOCs									
Benzene	<250	4390	<25.0	<25.0	<50.0	<25.0	<25.0	5.1	1600
1,2 Dichloroethane	na	na	na	na	na	na	na	2.8	652
Ethylbenzene	12400	1720	<25.0	<25.0	4760	<25.0	<25.0	1570	8020
Methyl-tert-butyl ether	<250	<25.0	<25.0	<25.0	<50.0	<25.0	<25.0	27	63800
Toluene	1840	865	<25.0	<25.0	<50.0	<25.0	<25.0	1107	818000
1,3,5 Trimethylbenzene	18700	43.9	<25.0	<25.0	3030	<25.0	<25.0	ns	182000
1,2,4 Trimethylbenzene	42000	111	<25.0	<25.0	10200	<25.0	<25.0	ns	219000
Total Trimethylbenzenes	60700	154.9	<50.0	<50.0	13230	<50.0	<50.0	1379	ns
Xylenes, -m, -p	16800	3420	<50.0	<50.0	7750	<50.0	<50.0	ns	ns
Xylene, -o	6920	2340	<25.0	<25.0	229	<25.0	<25.0	ns	ns
Total Xylenes	23720	5760	<75.0	<75.0	7979	<75.0	<75.0	3940	260000
Naphthalene	4660	<25.0	<25.0	<25.0	2230	<25.0	<25.0	658.7	5520

- All results are reported in ug/kg
- na = not analyzed
- ns = no standard established
- (J) = Present below limit of quantitation

- Groundwater Pathway RCL = Residual Contaminant Level (exceedances bold)
- Non-Industrial Direct Contact Hazard Level (exceedance underlined)
- Soil standards are default values from WDNR R&R Calculator

TABLE 2
SUMMARY OF GEOPROBE GROUNDWATER ANALYTICAL DATA (06/23/2017)
Ken Staude Property
611 South Sixth Street – Watertown, Wisconsin

Sample Location	B-1	B-2	B-3	B-4	B-5	NR140	
Date	06/23/17	06/23/17	06/23/17	06/23/17	06/23/17	ES	PAL
PVOCs							
Benzene	297	<u>1.2</u>	0.45 (J)	892	9.3	5	0.5
1,2 Dichloroethane	na	na	na	na	na	5	0.5
Ethylbenzene	52.1	0.58 (J)	<0.39	788	<0.39	700	140
Methyl-tert-butyl ether	<1.2	<0.48	<0.48	<4.8	<0.48	60	12
Toluene	14.1	0.39 (J)	0.47 (J)	2010	0.85 (J)	800	160
1,3,5 Trimethylbenzene	28.6	<0.42	<0.42	183	<0.42	ns	ns
1,2,4 Trimethylbenzene	84.2	0.52 (J)	<0.42	608	<0.42	ns	ns
Total Trimethylbenzenes	<u>112.8</u>	0.52 (J)	<0.84	791	<0.84	480	96
Xylenes, -m, -p	60.8	<0.80	<0.80	1370	<0.80	ns	ns
Xylene, -o	39.4	<0.45	<0.45	281	<0.45	ns	ns
Total Xylenes	100.2	<1.25	<1.25	<u>1651</u>	<1.25	2000	400
Naphthalene	4.6	<0.42	<0.42	<u>18.6</u>	<0.42	100	10

- All data is listed in ug/l
- na = not analyzed
- ns = no standard established

- PAL = NR140 Preventative Action Limit (exceedances underlined)
- ES = NR140 Enforcement Standard (exceedances bold)
-(J) = present below limit of quantitation

APPENDIX A

LABORATORY REPORT

July 11, 2017

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: STAUDE
Pace Project No.: 40152396

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: STAUDE

Pace Project No.: 40152396

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: STAUDE
Pace Project No.: 40152396

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40152396001	B-1, 7'	Solid	06/23/17 12:00	06/28/17 10:05
40152396002	B-1	Water	06/23/17 12:45	06/28/17 10:05
40152396003	B-2, 7'	Solid	06/23/17 13:00	06/28/17 10:05
40152396004	B-2	Water	06/23/17 13:15	06/28/17 10:05
40152396005	B-3, 7'	Solid	06/23/17 13:30	06/28/17 10:05
40152396006	B-4 7 1/2'	Solid	06/23/17 14:05	06/28/17 10:05
40152396007	B-3	Water	06/23/17 14:20	06/28/17 10:05
40152396008	B-5, 8'	Solid	06/23/17 14:40	06/28/17 10:05
40152396009	B-4	Water	06/23/17 15:00	06/28/17 10:05
40152396010	B-5	Water	06/23/17 15:15	06/28/17 10:05
40152396011	B-6, 9-10	Solid	06/23/17 15:30	06/28/17 10:05
40152396012	B-1, 19'	Solid	06/23/17 12:15	06/28/17 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: STAUDE
Pace Project No.: 40152396

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40152396001	B-1, 7'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40152396002	B-1	WI MOD GRO	ALD	10	PASI-G
40152396003	B-2, 7'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40152396004	B-2	WI MOD GRO	ALD	10	PASI-G
40152396005	B-3, 7'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
		WI MOD GRO	ALD	10	PASI-G
40152396006	B-4 7 1/2'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40152396007	B-3	WI MOD GRO	ALD	10	PASI-G
40152396008	B-5, 8'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
		WI MOD GRO	ALD	10	PASI-G
40152396009	B-4	WI MOD GRO	ALD	10	PASI-G
40152396010	B-5	WI MOD GRO	ALD	10	PASI-G
40152396011	B-6, 9-10	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G
40152396012	B-1, 19'	WI MOD GRO	ALD	10	PASI-G
		ASTM D2974-87	RMV	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: STAUDE
Pace Project No.: 40152396

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40152396001	B-1, 7'					
WI MOD GRO	Ethylbenzene	12400	ug/kg	670	06/29/17 17:14	
WI MOD GRO	Naphthalene	4660	ug/kg	670	06/29/17 17:14	
WI MOD GRO	Toluene	1840	ug/kg	670	06/29/17 17:14	
WI MOD GRO	1,2,4-Trimethylbenzene	42000	ug/kg	670	06/29/17 17:14	
WI MOD GRO	1,3,5-Trimethylbenzene	18700	ug/kg	670	06/29/17 17:14	
WI MOD GRO	m&p-Xylene	16800	ug/kg	1340	06/29/17 17:14	
WI MOD GRO	o-Xylene	6920	ug/kg	670	06/29/17 17:14	
ASTM D2974-87	Percent Moisture	10.4	%	0.10	07/10/17 11:51	
40152396002	B-1					
WI MOD GRO	Benzene	297	ug/L	2.5	06/30/17 20:17	
WI MOD GRO	Ethylbenzene	52.1	ug/L	2.5	06/30/17 20:17	
WI MOD GRO	Naphthalene	4.6	ug/L	2.5	06/30/17 20:17	
WI MOD GRO	Toluene	14.1	ug/L	2.5	06/30/17 20:17	
WI MOD GRO	1,2,4-Trimethylbenzene	84.2	ug/L	2.5	06/30/17 20:17	
WI MOD GRO	1,3,5-Trimethylbenzene	28.6	ug/L	2.5	06/30/17 20:17	
WI MOD GRO	m&p-Xylene	60.8	ug/L	5.0	06/30/17 20:17	
WI MOD GRO	o-Xylene	39.4	ug/L	2.5	06/30/17 20:17	
40152396003	B-2, 7'					
ASTM D2974-87	Percent Moisture	12.7	%	0.10	07/10/17 13:24	
40152396004	B-2					
WI MOD GRO	Benzene	1.2	ug/L	1.0	06/29/17 10:33	
WI MOD GRO	Ethylbenzene	0.58J	ug/L	1.0	06/29/17 10:33	
WI MOD GRO	Toluene	0.39J	ug/L	1.0	06/29/17 10:33	
WI MOD GRO	1,2,4-Trimethylbenzene	0.52J	ug/L	1.0	06/29/17 10:33	
40152396005	B-3, 7'					
ASTM D2974-87	Percent Moisture	8.2	%	0.10	07/10/17 13:24	
40152396006	B-4 7 1/2'					
WI MOD GRO	Ethylbenzene	4760	ug/kg	131	06/29/17 16:23	
WI MOD GRO	Naphthalene	2230	ug/kg	131	06/29/17 16:23	
WI MOD GRO	1,2,4-Trimethylbenzene	10200	ug/kg	131	06/29/17 16:23	
WI MOD GRO	1,3,5-Trimethylbenzene	3030	ug/kg	131	06/29/17 16:23	
WI MOD GRO	m&p-Xylene	7750	ug/kg	262	06/29/17 16:23	
WI MOD GRO	o-Xylene	229	ug/kg	131	06/29/17 16:23	
ASTM D2974-87	Percent Moisture	8.5	%	0.10	07/10/17 13:24	
40152396007	B-3					
WI MOD GRO	Benzene	0.45J	ug/L	1.0	06/29/17 10:58	
WI MOD GRO	Toluene	0.47J	ug/L	1.0	06/29/17 10:58	
40152396008	B-5, 8'					
ASTM D2974-87	Percent Moisture	9.5	%	0.10	07/10/17 13:24	
40152396009	B-4					
WI MOD GRO	Benzene	892	ug/L	10.0	06/30/17 20:42	
WI MOD GRO	Ethylbenzene	788	ug/L	10.0	06/30/17 20:42	

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SUMMARY OF DETECTION

Project: STAUDE
Pace Project No.: 40152396

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40152396009	B-4					
WI MOD GRO	Naphthalene	18.6	ug/L	10.0	06/30/17 20:42	
WI MOD GRO	Toluene	2010	ug/L	10.0	06/30/17 20:42	
WI MOD GRO	1,2,4-Trimethylbenzene	608	ug/L	10.0	06/30/17 20:42	
WI MOD GRO	1,3,5-Trimethylbenzene	183	ug/L	10.0	06/30/17 20:42	
WI MOD GRO	m&p-Xylene	1370	ug/L	20.0	06/30/17 20:42	
WI MOD GRO	o-Xylene	281	ug/L	10.0	06/30/17 20:42	
40152396010	B-5					
WI MOD GRO	Benzene	9.3	ug/L	1.0	06/29/17 11:24	
WI MOD GRO	Toluene	0.85J	ug/L	1.0	06/29/17 11:24	
40152396011	B-6, 9-10					
ASTM D2974-87	Percent Moisture	11.0	%	0.10	07/10/17 13:24	
40152396012	B-1, 19'					
WI MOD GRO	Benzene	4390	ug/kg	66.8	06/29/17 15:06	
WI MOD GRO	Ethylbenzene	1720	ug/kg	66.8	06/29/17 15:06	
WI MOD GRO	Toluene	865	ug/kg	66.8	06/29/17 15:06	
WI MOD GRO	1,2,4-Trimethylbenzene	111	ug/kg	66.8	06/29/17 15:06	
WI MOD GRO	1,3,5-Trimethylbenzene	43.9J	ug/kg	66.8	06/29/17 15:06	
WI MOD GRO	m&p-Xylene	3420	ug/kg	134	06/29/17 15:06	
WI MOD GRO	o-Xylene	2340	ug/kg	66.8	06/29/17 15:06	
ASTM D2974-87	Percent Moisture	10.2	%	0.10	07/10/17 13:24	

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ANALYTICAL RESULTS

Project: STAUDE
Pace Project No.: 40152396

Sample: B-1, 7' **Lab ID: 40152396001** Collected: 06/23/17 12:00 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<250	ug/kg	600	250	10	06/29/17 07:45	06/29/17 17:14	71-43-2	W
Ethylbenzene	12400	ug/kg	670	279	10	06/29/17 07:45	06/29/17 17:14	100-41-4	
Methyl-tert-butyl ether	<250	ug/kg	600	250	10	06/29/17 07:45	06/29/17 17:14	1634-04-4	W
Naphthalene	4660	ug/kg	670	279	10	06/29/17 07:45	06/29/17 17:14	91-20-3	
Toluene	1840	ug/kg	670	279	10	06/29/17 07:45	06/29/17 17:14	108-88-3	
1,2,4-Trimethylbenzene	42000	ug/kg	670	279	10	06/29/17 07:45	06/29/17 17:14	95-63-6	
1,3,5-Trimethylbenzene	18700	ug/kg	670	279	10	06/29/17 07:45	06/29/17 17:14	108-67-8	
m&p-Xylene	16800	ug/kg	1340	558	10	06/29/17 07:45	06/29/17 17:14	179601-23-1	
o-Xylene	6920	ug/kg	670	279	10	06/29/17 07:45	06/29/17 17:14	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		10	06/29/17 07:45	06/29/17 17:14	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.4	%	0.10	0.10	1		07/10/17 11:51		

Sample: B-1 **Lab ID: 40152396002** Collected: 06/23/17 12:45 Received: 06/28/17 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	297	ug/L	2.5	0.99	2.5		06/30/17 20:17	71-43-2	
Ethylbenzene	52.1	ug/L	2.5	0.98	2.5		06/30/17 20:17	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	2.5	1.2	2.5		06/30/17 20:17	1634-04-4	
Naphthalene	4.6	ug/L	2.5	1.1	2.5		06/30/17 20:17	91-20-3	
Toluene	14.1	ug/L	2.5	0.97	2.5		06/30/17 20:17	108-88-3	
1,2,4-Trimethylbenzene	84.2	ug/L	2.5	1.0	2.5		06/30/17 20:17	95-63-6	
1,3,5-Trimethylbenzene	28.6	ug/L	2.5	1.0	2.5		06/30/17 20:17	108-67-8	
m&p-Xylene	60.8	ug/L	5.0	2.0	2.5		06/30/17 20:17	179601-23-1	
o-Xylene	39.4	ug/L	2.5	1.1	2.5		06/30/17 20:17	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		2.5		06/30/17 20:17	98-08-8	

Sample: B-2, 7' **Lab ID: 40152396003** Collected: 06/23/17 13:00 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	91-20-3	W

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ANALYTICAL RESULTS

Project: STAUDE
Pace Project No.: 40152396

Sample: B-2, 7' Lab ID: 40152396003 Collected: 06/23/17 13:00 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Toluene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/29/17 07:45	06/29/17 12:07	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:07	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	06/29/17 07:45	06/29/17 12:07	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.7	%	0.10	0.10	1		07/10/17 13:24		

Sample: B-2 Lab ID: 40152396004 Collected: 06/23/17 13:15 Received: 06/28/17 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1.2	ug/L	1.0	0.40	1		06/29/17 10:33	71-43-2	
Ethylbenzene	0.58J	ug/L	1.0	0.39	1		06/29/17 10:33	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/29/17 10:33	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/29/17 10:33	91-20-3	
Toluene	0.39J	ug/L	1.0	0.39	1		06/29/17 10:33	108-88-3	
1,2,4-Trimethylbenzene	0.52J	ug/L	1.0	0.42	1		06/29/17 10:33	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/17 10:33	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/29/17 10:33	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/29/17 10:33	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		06/29/17 10:33	98-08-8	pH

Sample: B-3, 7' Lab ID: 40152396005 Collected: 06/23/17 13:30 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/29/17 07:45	06/29/17 12:33	179601-23-1	W

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ANALYTICAL RESULTS

Project: STAUDE
Pace Project No.: 40152396

Sample: B-3, 7' Lab ID: 40152396005 Collected: 06/23/17 13:30 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:33	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	06/29/17 07:45	06/29/17 12:33	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	8.2	%	0.10	0.10	1		07/10/17 13:24		

Sample: B-4 7 1/2' Lab ID: 40152396006 Collected: 06/23/17 14:05 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<50.0	ug/kg	120	50.0	2	06/29/17 07:45	06/29/17 16:23	71-43-2	W
Ethylbenzene	4760	ug/kg	131	54.7	2	06/29/17 07:45	06/29/17 16:23	100-41-4	
Methyl-tert-butyl ether	<50.0	ug/kg	120	50.0	2	06/29/17 07:45	06/29/17 16:23	1634-04-4	W
Naphthalene	2230	ug/kg	131	54.7	2	06/29/17 07:45	06/29/17 16:23	91-20-3	
Toluene	<50.0	ug/kg	120	50.0	2	06/29/17 07:45	06/29/17 16:23	108-88-3	W
1,2,4-Trimethylbenzene	10200	ug/kg	131	54.7	2	06/29/17 07:45	06/29/17 16:23	95-63-6	
1,3,5-Trimethylbenzene	3030	ug/kg	131	54.7	2	06/29/17 07:45	06/29/17 16:23	108-67-8	
m&p-Xylene	7750	ug/kg	262	109	2	06/29/17 07:45	06/29/17 16:23	179601-23-1	
o-Xylene	229	ug/kg	131	54.7	2	06/29/17 07:45	06/29/17 16:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		2	06/29/17 07:45	06/29/17 16:23	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	8.5	%	0.10	0.10	1		07/10/17 13:24		

Sample: B-3 Lab ID: 40152396007 Collected: 06/23/17 14:20 Received: 06/28/17 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	0.45J	ug/L	1.0	0.40	1		06/29/17 10:58	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/29/17 10:58	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/29/17 10:58	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/29/17 10:58	91-20-3	
Toluene	0.47J	ug/L	1.0	0.39	1		06/29/17 10:58	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/17 10:58	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/17 10:58	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/29/17 10:58	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/29/17 10:58	95-47-6	

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ANALYTICAL RESULTS

Project: STAUDE
Pace Project No.: 40152396

Sample: B-3 **Lab ID: 40152396007** Collected: 06/23/17 14:20 Received: 06/28/17 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		06/29/17 10:58	98-08-8	pH

Sample: B-5, 8' **Lab ID: 40152396008** Collected: 06/23/17 14:40 Received: 06/28/17 10:05 Matrix: Solid
Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/29/17 07:45	06/29/17 12:58	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 12:58	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	06/29/17 07:45	06/29/17 12:58	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	9.5	%	0.10	0.10	1		07/10/17 13:24		

Sample: B-4 **Lab ID: 40152396009** Collected: 06/23/17 15:00 Received: 06/28/17 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	892	ug/L	10.0	4.0	10		06/30/17 20:42	71-43-2	
Ethylbenzene	788	ug/L	10.0	3.9	10		06/30/17 20:42	100-41-4	
Methyl-tert-butyl ether	<4.8	ug/L	10.0	4.8	10		06/30/17 20:42	1634-04-4	
Naphthalene	18.6	ug/L	10.0	4.2	10		06/30/17 20:42	91-20-3	
Toluene	2010	ug/L	10.0	3.9	10		06/30/17 20:42	108-88-3	
1,2,4-Trimethylbenzene	608	ug/L	10.0	4.2	10		06/30/17 20:42	95-63-6	
1,3,5-Trimethylbenzene	183	ug/L	10.0	4.2	10		06/30/17 20:42	108-67-8	
m&p-Xylene	1370	ug/L	20.0	8.0	10		06/30/17 20:42	179601-23-1	
o-Xylene	281	ug/L	10.0	4.5	10		06/30/17 20:42	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		10		06/30/17 20:42	98-08-8	

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ANALYTICAL RESULTS

Project: STAUDE
Pace Project No.: 40152396

Sample: B-5 Lab ID: 40152396010 Collected: 06/23/17 15:15 Received: 06/28/17 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	9.3	ug/L	1.0	0.40	1		06/29/17 11:24	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		06/29/17 11:24	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		06/29/17 11:24	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		06/29/17 11:24	91-20-3	
Toluene	0.85J	ug/L	1.0	0.39	1		06/29/17 11:24	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/17 11:24	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		06/29/17 11:24	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		06/29/17 11:24	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		06/29/17 11:24	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		06/29/17 11:24	98-08-8	pH

Sample: B-6, 9-10 Lab ID: 40152396011 Collected: 06/23/17 15:30 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/29/17 07:45	06/29/17 13:24	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 13:24	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	06/29/17 07:45	06/29/17 13:24	98-08-8	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 11.0 % 0.10 0.10 1 07/10/17 13:24

Sample: B-1, 19' Lab ID: 40152396012 Collected: 06/23/17 12:15 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	4390	ug/kg	66.8	27.8	1	06/29/17 07:45	06/29/17 15:06	71-43-2	
Ethylbenzene	1720	ug/kg	66.8	27.8	1	06/29/17 07:45	06/29/17 15:06	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 15:06	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	06/29/17 07:45	06/29/17 15:06	91-20-3	W

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ANALYTICAL RESULTS

Project: STAUDE
Pace Project No.: 40152396

Sample: B-1, 19' **Lab ID: 40152396012** Collected: 06/23/17 12:15 Received: 06/28/17 10:05 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Toluene	865	ug/kg	66.8	27.8	1	06/29/17 07:45	06/29/17 15:06	108-88-3	
1,2,4-Trimethylbenzene	111	ug/kg	66.8	27.8	1	06/29/17 07:45	06/29/17 15:06	95-63-6	
1,3,5-Trimethylbenzene	43.9J	ug/kg	66.8	27.8	1	06/29/17 07:45	06/29/17 15:06	108-67-8	
m&p-Xylene	3420	ug/kg	134	55.7	1	06/29/17 07:45	06/29/17 15:06	179601-23-1	
o-Xylene	2340	ug/kg	66.8	27.8	1	06/29/17 07:45	06/29/17 15:06	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1	06/29/17 07:45	06/29/17 15:06	98-08-8	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.2	%	0.10	0.10	1		07/10/17 13:24		

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QUALITY CONTROL DATA

Project: STAUDE
Pace Project No.: 40152396

QC Batch: 260097 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40152396001, 40152396003, 40152396005, 40152396006, 40152396008, 40152396011, 40152396012

METHOD BLANK: 1532276 Matrix: Solid
Associated Lab Samples: 40152396001, 40152396003, 40152396005, 40152396006, 40152396008, 40152396011, 40152396012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	06/29/17 08:43	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	06/29/17 08:43	
Benzene	ug/kg	<25.0	50.0	06/29/17 08:43	
Ethylbenzene	ug/kg	<25.0	50.0	06/29/17 08:43	
m&p-Xylene	ug/kg	<50.0	100	06/29/17 08:43	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	06/29/17 08:43	
Naphthalene	ug/kg	<25.0	50.0	06/29/17 08:43	
o-Xylene	ug/kg	<25.0	50.0	06/29/17 08:43	
Toluene	ug/kg	<25.0	50.0	06/29/17 08:43	
a,a,a-Trifluorotoluene (S)	%	106	80-120	06/29/17 08:43	

LABORATORY CONTROL SAMPLE & LCSD: 1532277

1532278

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	1030	103	103	80-120	0	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	999	100	100	80-120	0	20	
Benzene	ug/kg	1000	988	996	99	100	80-120	1	20	
Ethylbenzene	ug/kg	1000	991	1000	99	100	80-120	1	20	
m&p-Xylene	ug/kg	2000	1980	2000	99	100	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	998	993	100	99	80-120	1	20	
Naphthalene	ug/kg	1000	1070	1070	107	107	80-120	0	20	
o-Xylene	ug/kg	1000	995	1000	100	100	80-120	1	20	
Toluene	ug/kg	1000	993	1000	99	100	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				109	109	80-120			

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QUALITY CONTROL DATA

Project: STAUDE
Pace Project No.: 40152396

QC Batch: 260096 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40152396002, 40152396004, 40152396007, 40152396009, 40152396010

METHOD BLANK: 1532273 Matrix: Water
Associated Lab Samples: 40152396002, 40152396004, 40152396007, 40152396009, 40152396010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/29/17 08:42	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/29/17 08:42	
Benzene	ug/L	<0.40	1.0	06/29/17 08:42	
Ethylbenzene	ug/L	<0.39	1.0	06/29/17 08:42	
m&p-Xylene	ug/L	<0.80	2.0	06/29/17 08:42	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/29/17 08:42	
Naphthalene	ug/L	<0.42	1.0	06/29/17 08:42	
o-Xylene	ug/L	<0.45	1.0	06/29/17 08:42	
Toluene	ug/L	<0.39	1.0	06/29/17 08:42	
a,a,a-Trifluorotoluene (S)	%	106	80-120	06/29/17 08:42	

LABORATORY CONTROL SAMPLE & LCSD: 1532274 1532275

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.3	18.4	92	92	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	17.6	17.5	88	88	80-120	0	20	
Benzene	ug/L	20	21.3	21.1	107	105	80-120	1	20	
Ethylbenzene	ug/L	20	20.7	20.5	104	102	80-120	1	20	
m&p-Xylene	ug/L	40	39.8	39.4	100	98	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.1	19.8	100	99	80-120	1	20	
Naphthalene	ug/L	20	19.8	20.0	99	100	80-120	1	20	
o-Xylene	ug/L	20	20.0	20.0	100	100	80-120	0	20	
Toluene	ug/L	20	20.4	20.5	102	102	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				105	108	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533092 1533093

Parameter	Units	40152396009		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1,2,4-Trimethylbenzene	ug/L	608	200	200	794	797	93	95	11-200	0	20		
1,3,5-Trimethylbenzene	ug/L	183	200	200	353	357	85	87	54-142	1	20		
Benzene	ug/L	892	200	200	1100	1110	107	108	66-140	0	20		
Ethylbenzene	ug/L	788	200	200	1000	1010	107	109	66-143	0	20		
m&p-Xylene	ug/L	1370	400	400	1770	1780	100	102	60-141	0	20		
Methyl-tert-butyl ether	ug/L	<4.8	200	200	179	180	89	90	70-129	1	20		
Naphthalene	ug/L	18.6	200	200	202	205	92	93	64-129	2	20		
o-Xylene	ug/L	281	200	200	476	472	98	96	68-132	1	20		
Toluene	ug/L	2010	200	200	2260	2270	125	127	76-130	0	20		

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QUALITY CONTROL DATA

Project: STAUDE
Pace Project No.: 40152396

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1533092		1533093									
Parameter	Units	40152396009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
a,a,a-Trifluorotoluene (S)	%						105	106	80-120				

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QUALITY CONTROL DATA

Project: STAUDE
Pace Project No.: 40152396

QC Batch: 261016	Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40152396001	

SAMPLE DUPLICATE: 1537336

Parameter	Units	40152390011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.7	13.1	5	10	

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QUALIFIERS

Project: STAUDE
Pace Project No.: 40152396

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-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: STAUDE
Pace Project No.: 40152396

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40152396001	B-1, 7'	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396003	B-2, 7'	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396005	B-3, 7'	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396006	B-4 7 1/2'	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396008	B-5, 8'	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396011	B-6, 9-10	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396012	B-1, 19'	TPH GRO/PVOC WI ext.	260097	WI MOD GRO	260154
40152396002	B-1	WI MOD GRO	260096		
40152396004	B-2	WI MOD GRO	260096		
40152396007	B-3	WI MOD GRO	260096		
40152396009	B-4	WI MOD GRO	260096		
40152396010	B-5	WI MOD GRO	260096		
40152396001	B-1, 7'	ASTM D2974-87	261016		
40152396003	B-2, 7'	ASTM D2974-87	261040		
40152396005	B-3, 7'	ASTM D2974-87	261040		
40152396006	B-4 7 1/2'	ASTM D2974-87	261040		
40152396008	B-5, 8'	ASTM D2974-87	261040		
40152396011	B-6, 9-10	ASTM D2974-87	261040		
40152396012	B-1, 19'	ASTM D2974-87	261040		

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(Please Print Clearly)



CHAIN OF CUSTODY

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

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

9015-2596

Company Name: Seymour
 Branch/Location: _____
 Project Contact: Robyn Seymour
 Phone: 608 225 9407
 Project Number: _____
 Project Name: Stavel
 Project State: Wisconsin
 Sampled By (Print): Robyn Seymour
 Sampled By (Sign): Robyn Seymour
 PO #: _____
 Regulatory Program: _____

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Analyses Requested	Y/N	Pick Letter	PRESERVATION (CODE)*	FILTERED? (YES/NO)	Matrix Codes	Data Package Options	MS/MSD	Relinquished By:		Received By:	
													DATE	TIME	DATE/TIME	DATE/TIME
001 X	B-1, 7'	6/23	1200	S	ROOC+napr.	X				W = Water DW = Drinking Water C = Charcoal O = Oil S = Soil WP = Waste Water	<input type="checkbox"/> EPA Level III <input type="checkbox"/> EPA Level IV	<input type="checkbox"/> On your sample (billable) <input type="checkbox"/> NOT needed on your sample	<u>Robyn Seymour</u>	<u>6/27/11</u>	<u>Robyn Seymour</u>	<u>6/27/11</u>
003 X	B-2, 7'			S		X										
004 X	B-2			S		X										
005 X	B-3, 7'			S		X										
006 X	B-4 7 1/2'			S		X										
007 X	B-3			S		X										
008 X	B-5, 8'			S		X										
009 X	B-4			S		X										
010 X	B-5			S		X										
011 X	B-10, 9-10			S		X										
012 X	B-1, 19'			S		X										

Relinquished By: Robyn Seymour Date/Time: 6/27/11
 Received By: Robyn Seymour Date/Time: 6/27/11
 Relinquished By: CS Logister Date/Time: 6/28/11
 Received By: Robyn Seymour Date/Time: 6/28/11
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: 1-40mL F
3-40mL B
1-40mL A
3-40mL B
3-40mL B
3-40mL B
1-40mL A
1-40mL A
1-40mL A
1-40mL A

LAB COMMENTS (Lab Use Only):
1-40mL A
1-40mL A
1-40mL A
1-40mL A
1-40mL A
1-40mL A
1-40mL A
1-40mL A

Mail To Contact: Robyn Seymour
 Mail To Company: Seymour Environmental
 Mail To Address: 2531 Dyreson Road
McFarland, WI

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

PAGE Project No. 9015-2396
 Receipt Temp = 201 °C
 Sample Receipt pH _____
 Cooler Present / Not Present
 Intact / Not Intact

APPENDIX B

BORING LOGS

Facility/Project Name Staide Property				Seymour Project Number 10813.01			License/Permit/Monitoring Number B-1									
Boring Drilled by On-site (Tony Kapugi) Seymour Environmental (Robyn Seymour)				Date Installed 06/23/17												
Boring or Well Number B-1				WI Unique Well Number (assigned by DNR)			Borehole Diameter 2-inch		Water Level 7-8			Surface Elevation				
SW <u>¼</u> of NE <u>¼</u> of Section <u>4</u> T <u>8</u> N R <u>15</u> E				Grid Location (if applicable)												
County Jefferson			County Code 28			Civil Town Watertown										
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION			D I A M E T E R	U N D E R R I D G E	R Q D	Stable O V E R L A Y S (vppm)	Soil Properties q W LL PL P200					Blow Count	
1	48	5	Gravel Medium brown silty sand Brown silty clay					SM CL	0 0							
2	42	10	Brown silty clay					CL ML	1500							
3	38	15	Gray slightly clayey silt					ML	1080							
4		20	Gray clayey silt, sl sand, wet Appeared to be saturated					ML	800							
5		25	End of boring						90							
			Set temp well, water came to 7.7													
Signature		<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.										

Facility/Project Name Staide Property				Seymour Project Number 10813.01			License/Permit/Monitoring Number B-2						
Boring Drilled by On-site (Tony Kapugi) Seymour Environmental (Robyn Seymour)							Date Installed 06/23/17						
Boring or Well Number B-2				WI Unique Well Number (assigned by DNR)			Borehole Diameter 2-inch		Water Level 7-8		Surface Elevation		
SW <u>1/4</u> of <u>NE</u> <u>1/4</u> of Section <u>4</u> T <u>8</u> N R <u>15</u> E						Grid Location (if applicable)							
County Jefferson			County Code 28			Civil Town Watertown							
S A M P L E	R E C O R D	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U S E	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	60	5	Grass Silty topsoil				0						
			Brown silty clay					CL	0				
2	60	10	Slightly silty fine sand				0						
								ML					
3	60	15	Gray slightly clayey silt				0.2						
			End of boring										
Signature		<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.								

Facility/Project Name Staide Property				Seymour Project Number 10813.01			License/Permit/Monitoring Number B-3						
Boring Drilled by On-site (Tony Kapugi) Seymour Environmental (Robyn Seymour)						Date Installed 06/23/17							
Boring or Well Number WI Unique Well Number (assigned by DNR) B-3				Borehole Diameter 2-inch			Water Level Surface Elevation 7-8						
SW <u>¼</u> of <u>NE</u> <u>¼</u> of Section <u>4</u> T <u>8</u> N R <u>15</u> E						Grid Location (if applicable)							
County Jefferson			County Code 28			Civil Town Watertown							
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U S E S	R Q D	S t a b l e O V M (vppm)	Soil Properties					B l o w C o u n t
								q	W	LL	PL	P200	
1	60	5	Grass Silty topsoil				0 0						
2	60	10	Silty clay/clayey silt				0						
3	60	15	Brown silty sand End of boring				0						
Signature		<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.								

Facility/Project Name Staide Property				Seymour Project Number 10813.01			License/Permit/Monitoring Number B-4						
Boring Drilled by On-site (Tony Kapugi) Seymour Environmental (Robyn Seymour)							Date Installed 06/23/17						
Boring or Well Number B-4				WI Unique Well Number (assigned by DNR)			Borehole Diameter 2-inch		Water Level 7-8		Surface Elevation		
SW ¼ of NE ¼ of Section <u>4</u> T <u>8</u> N R <u>15</u> E				Grid Location (if applicable)									
County Jefferson			County Code 28			Civil Town Watertown							
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U S E	R Q D	S t a b l e O v e r l a y e r s (vppm)	Soil Properties					B l o w C o u n t
								q	W	LL	PL	P200	
1	60	5	Grass Silty topsoil Brown silt, slight clay and sand				0						
			Silty sand with sl gravel					ML	0				
2	60	10	Silty sand				0						
			Hydrocarbon odor					SM	150				
3	60	15	Brown silty sand, slight odor				90						
			No odor End of boring					SM	0				
Signature		<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Staide Property				Seymour Project Number 10813.01			License/Permit/Monitoring Number B-5								
Boring Drilled by On-site (Tony Kapugi) Seymour Environmental (Robyn Seymour)						Date Installed 06/23/17									
Boring or Well Number B-5				WI Unique Well Number (assigned by DNR)			Borehole Diameter 2-inch		Water Level Surface Elevation 7-8						
SW ¼ of NE ¼ of Section <u>4</u> T <u>8</u> N R <u>15</u> E						Grid Location (if applicable)									
County Jefferson			County Code 28			Civil Town Watertown									
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION			D I A M E T E R	U N D E R S O I L	R Q D	S t a b l e O v e r l a y e r M a t r i a l S o i l (vppm)	Soil Properties				B l o w C o u n t	
1	60	5	Grass Silty topsoil Silty clay Silty sand with sl gravel			ML		0							
2	60	10	Silty sand			SM		0							
3	60	15	Brown silty sand, some gravel + clay End of boring			SM		0							
Signature		<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.									

Facility/Project Name Staide Property				Seymour Project Number 10813.01			License/Permit/Monitoring Number B-6							
Boring Drilled by On-site (Tony Kapugi) Seymour Environmental (Robyn Seymour)						Date Installed 06/23/17								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-6				Borehole Diameter 2-inch			Water Level Surface Elevation 7-8							
SW <u>¼</u> of <u>NE</u> <u>¼</u> of Section <u>4</u> T <u>8</u> N R <u>15</u> E						Grid Location (if applicable)								
County Jefferson			County Code 28			Civil Town Watertown								
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION			D I A M E T E R	U N D E R S O I L	R Q D	S t a b l e O v e r l a y e r M (vppm)	Soil Properties q W LL PL P200				B l o w C o u n t
1	60	5	Concrete Gravel Moist black clayey silt Silty sand with sl gravel					0 0						
2	60	10	Silty sand with clay End of boring					0						
Signature		<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.								