

**SITE INVESTIGATION
RATH PROPERTY (BRRTS 03-22-563937)
1304 SAINT ROSE ROAD
CUBA CITY, WISCONSIN 53807**

PREPARED FOR:

JANET DIMAGGIO
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
3911 FISH HATCHERY ROAD
FITCHBURG, WISCONSIN 53711

RICH RATH/RISU LLC
303 SOUTH JACKSON STREET
CUBA CITY, WISCONSIN 53807

JULY 2019

SEYMOUR ENVIRONMENTAL SERVICES, INC.

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

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1.0 INTRODUCTION

A site investigation with a Geoprobe™ was conducted at the RISU LLC property. The objective of this phase of the work was to characterize the levels and extent of the soil contamination that was identified during tank closure sampling. Additionally, the depth distribution of the contamination was evaluated to determine whether investigation of the groundwater would be required.

During the assessment soil contamination exceeding WDNR standards was identified in soils beneath the former USTs. The contaminated soil extends from approximately 6 feet to 10 feet below grade where bedrock is encountered. The accessible soil contamination at the site should be removed since it represents a potential long-term threat to the surrounding private water-supply wells.

1.1 Site and Consultant Information

Site Location: RISU LLC
1304 Saint Rose Road
Cuba City, Wisconsin 53807
Grant County – Town of Smelser
SE ¼ SE ¼ Section 21, Township 02 North, Range 01 West
WTM: X-480214, Y-239217 (parcel center)

Owner: Mr. Rich Rath
303 South Jackson Street
Cuba City, Wisconsin 53807

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

Geoprobe/Driller: Badger State Drilling
360 Business Park Circle
Stoughton, Wisconsin 53589
Contact: Mark Garwick (608) 877-9770

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 site is a former general store located at the intersection of Saint Rose Road and County Road D in Grant County (Figure 1). The subject parcel (PN: 054-00540-000) is less than 1 acre in size and is owned by RISU LLC. Properties in the area are rural properties and mostly homes; a farm is located east of the site across County Highway D. Water at the site is provided by a private well which is located slightly to the northwest of the building at the property.

1.3 Site History and Usage

The property has been owned by RISU LLC since 2009. A single building is present which was the former general store (Figure 2). Three underground storage tanks (UST) were present near the southeast corner of the property for petroleum resale.

1.4 Summary Previous Environmental Activities

In September of 2010 Seymour collected a sample from the water supply well at the site. The sample was analyzed for PVOCs+naphthalene. No compounds were detected.

Richard Rath had the three 500-gallon leaded gasoline USTs removed from the site in 2014. A tank closure assessment was conducted by Jon Heller, the tank remover. A single soil sample was collected below each of the USTs and analyzed for PVOCs+naphthalene. Contamination exceeding WDNR RCLs was detected in the soil sample from beneath one of the two tanks on the south side of the building and the soil beneath the tank on the east side of the building (Table 1). Mr. Heller reportedly attempted to dig deep enough to find clean soil samples but was not able to do so. The samples indicated that a release had occurred and the site was reported to the WDNR. in July of 2015.

1.5 Geologic Setting

Topography

Cuba City is located in the driftless area of southwestern Wisconsin. This area is characterized by rugged steep-walled valleys and high relief. Drainage patterns are typically dendritic where streams that have cut deeply into the flat bedrock. The surface elevation at the site is ~990 ft msl. The ground surface generally slopes toward the northeast. Surface water at the site drains to the east and into the roadside ditches located along County Highway D.

Soil and Geology

Soils at the site are mapped as Tama Silt Loam. These soils are characterized as silty clays, which develop from the weathering of the carbonate bedrock. Soil encountered during drilling at the site was generally clay with slight silt. Bedrock at the site is present around 10 feet below grade. Bedrock underlying the site is the Decorah-Platteville Formation. This formation is a thinly bedded carbonate.

The water table is typically present within Decorah-Platteville Formation at a depth of 65-75 feet below grade. The Decorah-Platteville carbonates are modest producers of groundwater.

2.0 SITE INVESTIGATION ACTIVITIES

2.1 Soil Sampling

Seymour and Badger State Drilling met at the site on June 7, 2019 to conduct the soil sampling. During the work seven borings were installed at the site. Refusal was encountered from ~9 to 15 feet below the surface. Based on local water-supply well logs we believe that the refusal encountered was at the top of bedrock. The boring locations are shown on Figure 3.

During drilling soil samples were collected continuously through the sample column. Soil samples were described in the field. Additionally, soil samples were field screened for organic vapors using a photoionization detector equipped with a 10.6 eV lamp. Based on field observations and organic vapor screening soil samples were selected for laboratory analysis. Those samples were sent to Pace Analytical, a WDNR-certified laboratory, to be analyzed for PVOC+naphthalene. Additionally, select samples were analyzed for lead, DRO, and GRO. Soil analytical data is summarized in Table 2 and boring logs and laboratory report are included in the Appendices. Information from each of the seven borings is discussed below.

The first boring, B-1, was installed at the location of the former underground gasoline tanks (UST) south of the building (Tank 2). Soil sampling was conducted until refusal was encountered at 9 feet below the surface. Based on local geology we believe that refusal occurred at bedrock. Soils at the boring were comprised of sandy fill to a depth of ~7 feet. Stained soil with a hydrocarbon odor was encountered at around 8 feet. The analytical results show that compounds are present in both the 7 and 9 foot sample.

The next boring (B-2) was installed at the location of a former UST located on the east side of the building (tank 3). Stained soil with a hydrocarbon odor was present starting around 8 feet but dissipated by 12 feet. The boring extended to a total depth of 15'4". Unfortunately, no soil was recovered in the sample interval from 12 to 15.3 feet. The analytical results indicate that the contamination is shallow and does not extend to bedrock at this location.

Two more borings were installed near the eastern tank. Boring B-3 was installed as a step out boring to the southeast and past an underground utility line. No evidence of contamination was found at this location. Boring B-4 was to the north. Again, no evidence of petroleum was noted, and the analytical results confirm this.

Additional borings were then installed near the southern tank bed. Borings B-5 and B-6 were installed to the south of B-1 and tank 2 where soil contamination had been noted previously. Contamination exceeding the RCLs was noted in the soil at B-5 which is located about 6 feet south of the former UST. No soil contamination was noted at B-6 which is ~14 feet south of the former tank. Boring B-7 was installed to the west of the southern tank bed. No soil contamination was noted at B-7. The data from the borings around the south tank bed indicate that the soil contamination is limited to soils within about 10 feet of the former tank. This contaminated soil extends from approximately 6 feet below grade to bedrock at a depth of ~10 feet.

2.2 Private Well Sampling

Water samples were collected from the water-supply located to the northwest of the building on two occasions, once in 2010 and again in June 2019. The sample from 2010 was analyzed for PVOCS+naphthalene and the sample from 2019 was analyzed for VOCs. No compounds were detected during either sampling event. Results of the water-supply sampling are summarized in Table 3.

3.0 DISCUSSION OF RESULTS

Petroleum related compounds were present in soil samples from three of the six borings at concentrations that exceed WDNR groundwater pathway RCLs. In the source area (former UST bed) soil exceeding groundwater pathway RCLs extended to the bedrock surface. An estimated 300 cubic yards of contaminated soil is present.

4.0 RECOMMENDATIONS

The former UST and soil contamination are in an area with private water supply wells. We recommend excavation of the accessible contaminated soil to prevent future migration of the release to the groundwater. We expect that ~450 tons of soil would require removal.

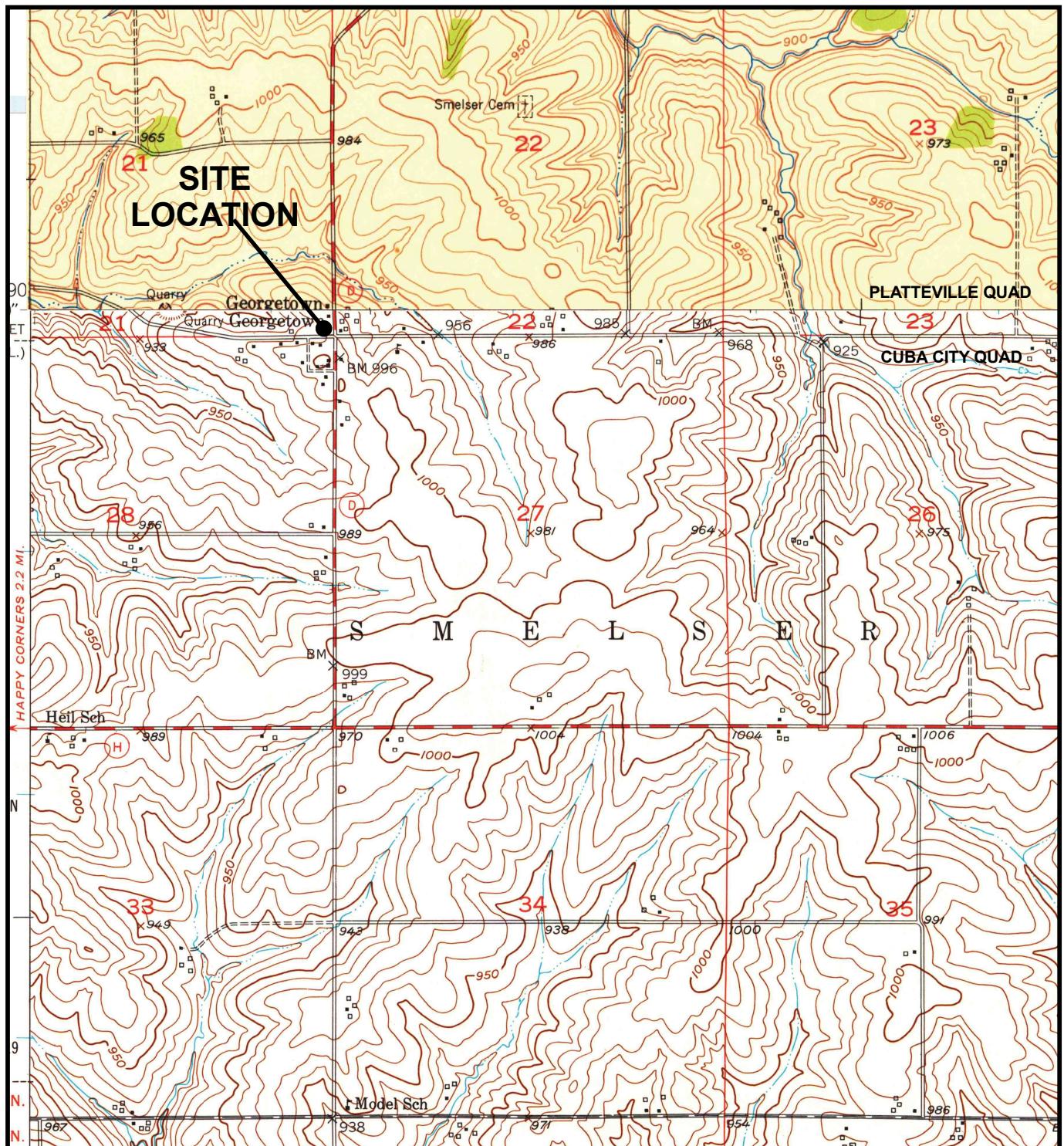
Questions should be directed to Robyn Seymour or Mark Fryman at (608) 838-9120.

Sincerely,
Seymour Environmental Services, Inc.



Robyn Seymour

FIGURES



0 2000' 4000'

1 INCH = 2000 FEET
SCALE IS APPROXIMATE



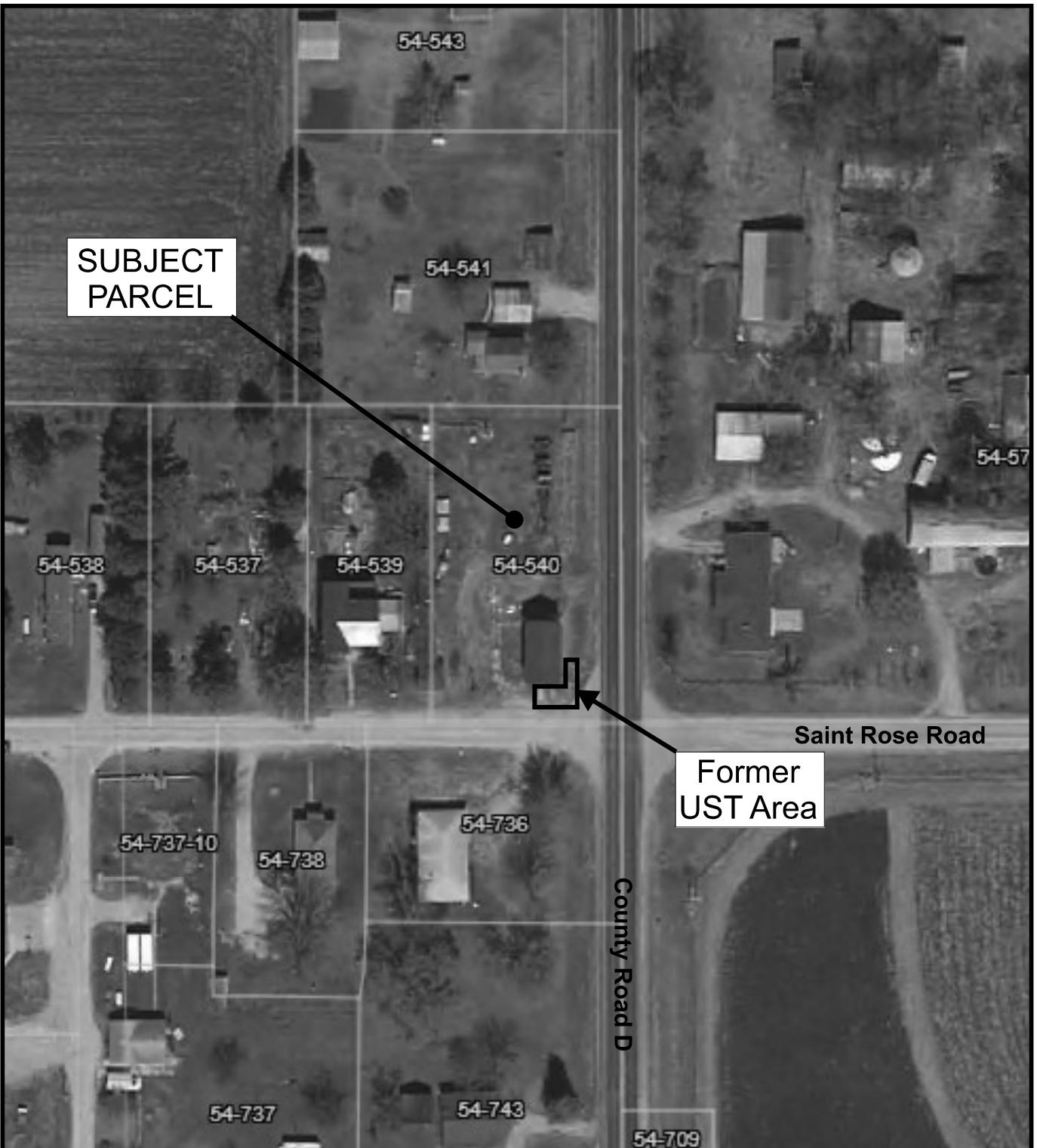
FILE/PATH: D:\PROJECTS\RATH\
LocationUSGS-Rath.cdr
DATE: 07/23/2019
PREPARED: MDF APPROVED:
SOURCE:
USGS 7.5 Quadrangle Minute Series - Platteville, WI (1952)
USGS 7.5 Quadrangle Minute Series - Cuba City, WI (1952)

**SEYMORE
ENVIRONMENTAL
SERVICES, INC.**

**SITE LOCATION
RATH PROPERTY**
1304 Saint Rose Road
Cuba City, Wisconsin

FIGURE

1



0 100' 200'

1 INCH = 100 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\RATH\Layout-aerial.cdr

DATE: 07/23/2019

PREPARED: MDF APPROVED:

SOURCE:

Grant County Public Mapping
Field Measurements

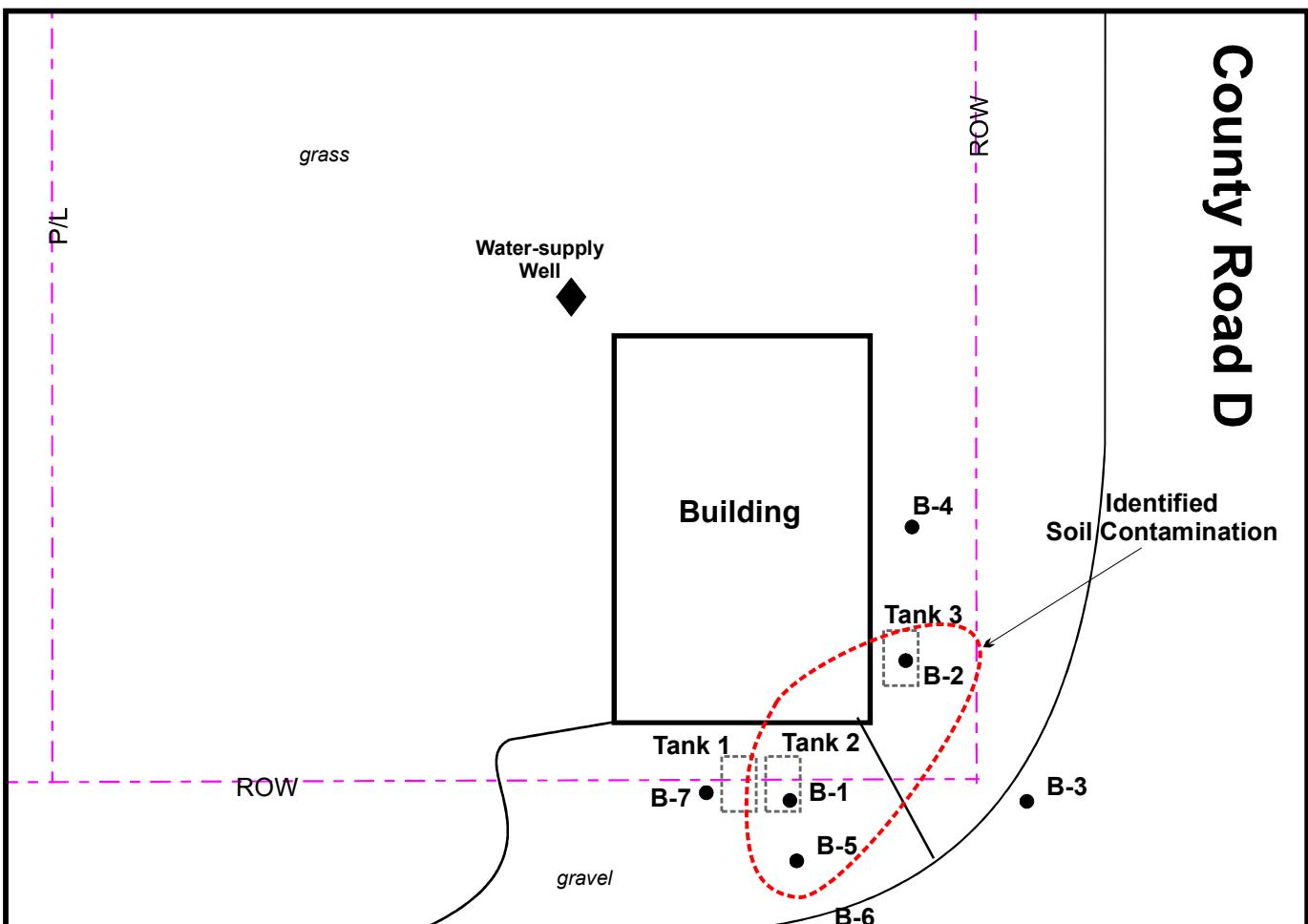
SEYMORE
ENVIRONMENTAL
SERVICES, INC.

SITE LAYOUT
RATH PROPERTY
1304 Saint Rose Road
Cuba City, Wisconsin

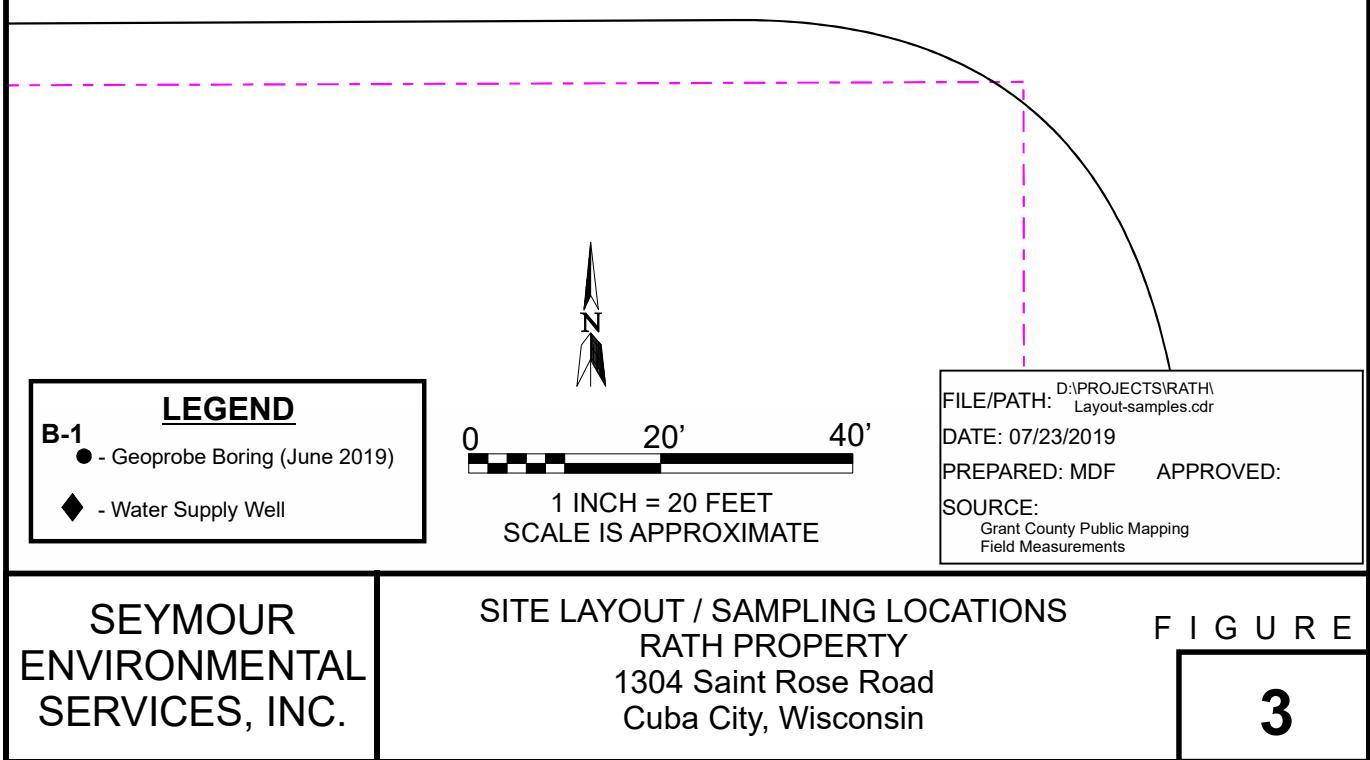
F I G U R E

2

County Road D



Saint Rose Road



TABLES

TABLE 1
 SUMMARY OF SOIL ANALYTICAL DATA FROM TANK CLOSURE (10/08/2014)
 Rath Property
 1304 Saint Rose Road - Cuba City, Wisconsin

SAMPLE	Depth (ft)	GRO	DRO	Benzene	Ethylbenzene	Methyl-tert-butyl ether	Toluene	1,3,5 Trimethylbenzene	1,2,4 Trimethylbenzene	Total Trimethylbenzenes	Total Xylenes	Naphthalene	Lead
Tank 1	8	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<25.0	11.3
Tank 2	11	na	na	<312	10100	1040	5280	21200	59000	80200	56700	16100	15.1
Tank 3	11	na	na	<200	<200	<200	<200	2710	6670	9380	2587	8320	8.7
Groundwater Pathway RCLs		ns	ns	5.1	1570	27	1170	ns	ns	1379	3940	658.7	27
Direct Contact RCLs		ns	ns	1600	8020	63800	818000	182000	219000	ns	260000	5520	400

- GRO, DRO and Lead results are in mg/kg
 - PVOCS are reported in ug/kg
 - ns = no standard established
 - na = not analyzed

- Groundwater Pathway RCL (exceedances bold)
 - Direct Contact RCL for non-industrial properties (exceedances underlined)
 - Soil standards from R&R Calculator using Wisconsin defaults

TABLE 2
SUMMARY OF GEOPROBE SOIL ANALYTICAL DATA (06/07/2019)
Rath Property
1304 Saint Rose Road - Cuba City, Wisconsin

SAMPLE	Depth (ft)	GRO	DRO	Benzene	Ethy[b]enzene	Methyl-tert-butyl ether	Toluene	1,3,5 Trimethylbenzene	1,2,4 Trimethylbenzene	Total Trimethylbenzenes	Total Xylenes	Naphthalene	Lead
B-1	7	na	na	18900	54000	<625	168000	54700	171000	225700	329100	19400	na
B-1	9	1470	na	3910	30100	1570	59400	21400	67300	88700	134800	11900	na
B-2	8	na	na	<200	<200	<200	<200	2550	4570	7120	<600	1580	na
B-2	12	na	<1.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	2.8
B-2	15	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	2.3
B-3	8	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
B-3	11	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
B-4	10	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
B-5	8	na	na	120	124	<25.0	136	171	405	576	372.3	73.6 (J)	na
B-5	10	na	na	16000	67700	<1000	165000	55400	189000	244400	362200	20700	na
B-6	8	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
B-6	9.5	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
B-7	8	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
B-7	9.5	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<40.0	na
Groundwater Pathway RCLs		ns	ns	5.1	1570	27	1170	ns	ns	1379	3940	658.7	27
Direct Contact RCLs		ns	ns	1600	8020	63800	818000	182000	219000	ns	260000	5520	400

- GRO, DRO, and Lead results are in mg/kg

- PVOCs are reported in ug/kg

- ns = no standard established

- na = not analyzed

- Groundwater Pathway RCL (exceedances bold)

- Direct Contact RCL for non-industrial properties (exceedances underlined)

- Soil standards from R&R Calculator using Wisconsin defaults

TABLE 3
 SUMMARY OF WATER-SUPPLY WELL GROUNDWATER ANALYTICAL DATA
 Rath Property
 1304 Saint Rose Road - Cuba City, WI

Sample I.D.	Water Well		NR140	
Date	09/09/10	06/07/19	ES	PAL
Select VOCs				
Benzene	<0.39	<0.25	5	0.5
1,2 Dichloroethane	na	<0.28	5	0.5
Ethylbenzene	<0.41	<0.22	700	140
Methyl-tert-butyl ether	<0.38	<1.2	60	12
Toluene	<0.42	<0.17	800	160
1,3,5 Trimethylbenzene	<0.40	<0.87	ns	ns
1,2,4 Trimethylbenzene	<0.43	<0.84	ns	ns
Total Trimethylbenzenes	<0.83	<1.71	480	96
Xylenes, -m, -p	<0.87	<0.47	ns	ns
Xylene, -o	<0.38	<0.26	ns	ns
Total Xylenes	<1.25	<0.73	2000	400
Naphthalene	<0.40	<1.2	100	10
n-Butylbenzene	na	<0.71	ns	ns
s-Butylbenzene	na	<0.85	ns	ns
Isopropylbenzene	na	<0.39	ns	ns
p-Isopropyltoluene	na	<0.80	ns	ns
n-Propylbenzene	na	<0.81	ns	ns
- All results are reported in ug/l - Sample from 2010 analyzed for PVOCS+naphthalene - Sample from 2019 analyzed for VOCs (EPA 8260) - All detected compounds are included in table - na = not analyzed - ns = no standard established - (J) = Detected below limit of quantitation - NR140 PAL = Preventative action limit (exceedances underlined) - NR140 ES = Enforcement standard (exceedances bold)				

APPENDIX A

LABORATORY REPORTS

June 24, 2019

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

RE: Project: RATH PROPERTY
Pace Project No.: 40189323

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2019. 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: RATH PROPERTY
Pace Project No.: 40189323

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: RATH PROPERTY
Pace Project No.: 40189323

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189323001	B-1, 7'	Solid	06/07/19 10:00	06/12/19 09:55
40189323002	B-1, 9'	Solid	06/07/19 10:10	06/12/19 09:55
40189323003	B-2, 8'	Solid	06/07/19 10:18	06/12/19 09:55
40189323004	B-2, 12'	Solid	06/07/19 10:20	06/12/19 09:55
40189323005	B-2, 15'	Solid	06/07/19 10:25	06/12/19 09:55
40189323006	B-3, 8'	Solid	06/07/19 10:40	06/12/19 09:55
40189323007	B-3, 11'	Solid	06/07/19 10:45	06/12/19 09:55
40189323008	B-4, 10'	Solid	06/07/19 11:00	06/12/19 09:55
40189323009	B-5, 8'	Solid	06/07/19 11:15	06/12/19 09:55
40189323010	B-6, 8'	Solid	06/07/19 11:45	06/12/19 09:55
40189323011	B-6, 9.5'	Solid	06/07/19 11:50	06/12/19 09:55
40189323012	B-5, 10'	Solid	06/07/19 11:20	06/12/19 09:55
40189323013	B-7, 8'	Solid	06/07/19 12:00	06/12/19 09:55
40189323014	B-7, 9.5'	Solid	06/07/19 12:10	06/12/19 09:55
40189323015	WATER WELL	Water	06/07/19 13:00	06/12/19 09:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: RATH PROPERTY
Pace Project No.: 40189323

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40189323001	B-1, 7'	EPA 8260	MDS	12
		ASTM D2974-87	JEV	1
40189323002	B-1, 9'	WI MOD GRO	ALD	11
		EPA 6010	TXW	1
40189323003	B-2, 8'	ASTM D2974-87	JEV	1
		EPA 8260	MDS	12
40189323004	B-2, 12'	ASTM D2974-87	JEV	1
		WI MOD DRO	MRN	1
40189323005	B-2, 15'	EPA 6010	TXW	1
		EPA 8260	MDS	12
40189323006	B-3, 8'	ASTM D2974-87	JEV	1
		EPA 8260	MDS	12
40189323007	B-3, 11'	EPA 8260	MDS	12
		ASTM D2974-87	JEV	1
40189323008	B-4, 10'	EPA 8260	MDS	12
		ASTM D2974-87	JEV	1
40189323009	B-5, 8'	EPA 8260	MDS	12
		ASTM D2974-87	JEV	1
40189323010	B-6, 8'	EPA 8260	MDS	12
		ASTM D2974-87	PCG	1
40189323011	B-6, 9.5'	EPA 8260	MDS	12
		ASTM D2974-87	JEV	1
40189323012	B-5, 10'	EPA 8260	MDS	12
		ASTM D2974-87	PCG	1
40189323013	B-7, 8'	EPA 8260	MDS	12
		ASTM D2974-87	PCG	1
40189323014	B-7, 9.5'	EPA 8260	MDS	12
		ASTM D2974-87	PCG	1
40189323015	WATER WELL	EPA 8260	HNW	64

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RATH PROPERTY

Pace Project No.: 40189323

Lab Sample ID	Client Sample ID	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40189323001	B-1, 7'						
EPA 8260	Benzene	18900	ug/kg	1930	06/18/19 04:41		
EPA 8260	Ethylbenzene	54000	ug/kg	1930	06/18/19 04:41		
EPA 8260	Naphthalene	19400	ug/kg	8060	06/18/19 04:41		
EPA 8260	Toluene	168000	ug/kg	1930	06/18/19 04:41		
EPA 8260	1,2,4-Trimethylbenzene	171000	ug/kg	1930	06/18/19 04:41		
EPA 8260	1,3,5-Trimethylbenzene	54700	ug/kg	1930	06/18/19 04:41		
EPA 8260	m&p-Xylene	242000	ug/kg	3870	06/18/19 04:41		
EPA 8260	o-Xylene	87100	ug/kg	1930	06/18/19 04:41		
ASTM D2974-87	Percent Moisture	22.5	%	0.10	06/13/19 16:33		
40189323002	B-1, 9'						
WI MOD GRO	Benzene	3910	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	Ethylbenzene	30100	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	Gasoline Range Organics	1470	mg/kg	113	06/13/19 15:20	GO	
WI MOD GRO	Methyl-tert-butyl ether	1570	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	Naphthalene	11900	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	Toluene	59400	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	1,2,4-Trimethylbenzene	67300	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	1,3,5-Trimethylbenzene	21400	ug/kg	1130	06/13/19 15:20		
WI MOD GRO	m&p-Xylene	100000	ug/kg	2260	06/13/19 15:20		
WI MOD GRO	o-Xylene	34800	ug/kg	1130	06/13/19 15:20		
EPA 6010	Lead	5.1	mg/kg	2.2	06/13/19 20:32		
ASTM D2974-87	Percent Moisture	11.6	%	0.10	06/13/19 16:33		
40189323003	B-2, 8'						
EPA 8260	Naphthalene	1580J	ug/kg	2560	06/17/19 14:59		
EPA 8260	1,2,4-Trimethylbenzene	4570	ug/kg	614	06/17/19 14:59		
EPA 8260	1,3,5-Trimethylbenzene	2550	ug/kg	614	06/17/19 14:59		
ASTM D2974-87	Percent Moisture	21.8	%	0.10	06/13/19 16:33		
40189323004	B-2, 12'						
EPA 6010	Lead	2.8	mg/kg	2.2	06/13/19 20:40		
ASTM D2974-87	Percent Moisture	11.2	%	0.10	06/13/19 16:33		
40189323005	B-2, 15'						
EPA 6010	Lead	2.3	mg/kg	2.1	06/13/19 20:42		
ASTM D2974-87	Percent Moisture	7.4	%	0.10	06/13/19 16:34		
40189323006	B-3, 8'						
ASTM D2974-87	Percent Moisture	24.2	%	0.10	06/13/19 16:34		
40189323007	B-3, 11'						
ASTM D2974-87	Percent Moisture	8.7	%	0.10	06/13/19 16:34		
40189323008	B-4, 10'						
ASTM D2974-87	Percent Moisture	8.8	%	0.10	06/13/19 16:34		
40189323009	B-5, 8'						
EPA 8260	Benzene	120	ug/kg	78.4	06/18/19 03:54		
EPA 8260	Ethylbenzene	124	ug/kg	78.4	06/18/19 03:54		

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RATH PROPERTY

Pace Project No.: 40189323

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
40189323009	B-5, 8'						
EPA 8260	Naphthalene	73.6J	ug/kg	327	06/18/19 03:54		
EPA 8260	Toluene	136	ug/kg	78.4	06/18/19 03:54		
EPA 8260	1,2,4-Trimethylbenzene	405	ug/kg	78.4	06/18/19 03:54		
EPA 8260	1,3,5-Trimethylbenzene	171	ug/kg	78.4	06/18/19 03:54		
EPA 8260	m&p-Xylene	317	ug/kg	157	06/18/19 03:54		
EPA 8260	o-Xylene	55.3J	ug/kg	78.4	06/18/19 03:54		
ASTM D2974-87	Percent Moisture	23.5	%	0.10	06/13/19 16:34		
40189323010	B-6, 8'						
ASTM D2974-87	Percent Moisture	24.0	%	0.10	06/12/19 15:40		
40189323011	B-6, 9.5'						
ASTM D2974-87	Percent Moisture	10.0	%	0.10	06/13/19 16:34		
40189323012	B-5, 10'						
EPA 8260	Benzene	16000	ug/kg	2650	06/18/19 04:17		
EPA 8260	Ethylbenzene	67700	ug/kg	2650	06/18/19 04:17		
EPA 8260	Naphthalene	20700	ug/kg	11000	06/18/19 04:17		
EPA 8260	Toluene	165000	ug/kg	2650	06/18/19 04:17		
EPA 8260	1,2,4-Trimethylbenzene	189000	ug/kg	2650	06/18/19 04:17		
EPA 8260	1,3,5-Trimethylbenzene	55400	ug/kg	2650	06/18/19 04:17		
EPA 8260	m&p-Xylene	264000	ug/kg	5290	06/18/19 04:17		
EPA 8260	o-Xylene	98200	ug/kg	2650	06/18/19 04:17		
ASTM D2974-87	Percent Moisture	9.3	%	0.10	06/14/19 11:15		
40189323013	B-7, 8'						
ASTM D2974-87	Percent Moisture	22.7	%	0.10	06/12/19 16:39		
40189323014	B-7, 9.5'						
ASTM D2974-87	Percent Moisture	8.7	%	0.10	06/14/19 11:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RATH PROPERTY
Pace Project No.: 40189323

Sample: B-1, 7' Lab ID: 40189323001 Collected: 06/07/19 10:00 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	18900	ug/kg	1930	806	25	06/14/19 08:45	06/18/19 04:41	71-43-2	
Ethylbenzene	54000	ug/kg	1930	806	25	06/14/19 08:45	06/18/19 04:41	100-41-4	
Methyl-tert-butyl ether	<625	ug/kg	1500	625	25	06/14/19 08:45	06/18/19 04:41	1634-04-4	W
Naphthalene	19400	ug/kg	8060	1290	25	06/14/19 08:45	06/18/19 04:41	91-20-3	
Toluene	168000	ug/kg	1930	806	25	06/14/19 08:45	06/18/19 04:41	108-88-3	
1,2,4-Trimethylbenzene	171000	ug/kg	1930	806	25	06/14/19 08:45	06/18/19 04:41	95-63-6	
1,3,5-Trimethylbenzene	54700	ug/kg	1930	806	25	06/14/19 08:45	06/18/19 04:41	108-67-8	
m&p-Xylene	242000	ug/kg	3870	1610	25	06/14/19 08:45	06/18/19 04:41	179601-23-1	
o-Xylene	87100	ug/kg	1930	806	25	06/14/19 08:45	06/18/19 04:41	95-47-6	
Surrogates									
Dibromofluoromethane (S)	0	%	57-146		25	06/14/19 08:45	06/18/19 04:41	1868-53-7	S4
4-Bromofluorobenzene (S)	0	%	54-126		25	06/14/19 08:45	06/18/19 04:41	460-00-4	S4
Toluene-d8 (S)	0	%	64-134		25	06/14/19 08:45	06/18/19 04:41	2037-26-5	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	22.5	%	0.10	0.10	1			06/13/19 16:33	

Sample: B-1, 9' Lab ID: 40189323002 Collected: 06/07/19 10:10 Received: 06/12/19 09:55 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	3910	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	71-43-2	
Ethylbenzene	30100	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	100-41-4	
Gasoline Range Organics	1470	mg/kg	113	56.5	20	06/13/19 08:00	06/13/19 15:20		GO
Methyl-tert-butyl ether	1570	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	1634-04-4	
Naphthalene	11900	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	91-20-3	
Toluene	59400	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	108-88-3	
1,2,4-Trimethylbenzene	67300	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	95-63-6	
1,3,5-Trimethylbenzene	21400	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	108-67-8	
m&p-Xylene	100000	ug/kg	2260	1130	20	06/13/19 08:00	06/13/19 15:20	179601-23-1	
o-Xylene	34800	ug/kg	1130	565	20	06/13/19 08:00	06/13/19 15:20	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		20	06/13/19 08:00	06/13/19 15:20	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	5.1	mg/kg	2.2	0.67	1	06/13/19 08:33	06/13/19 20:32	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.6	%	0.10	0.10	1			06/13/19 16:33	

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ANALYTICAL RESULTS

Project: RATH PROPERTY
Pace Project No.: 40189323

Sample: B-2, 8' Lab ID: 40189323003 Collected: 06/07/19 10:18 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<200	ug/kg	480	200	8	06/13/19 08:15	06/17/19 14:59	71-43-2	W
Ethylbenzene	<200	ug/kg	480	200	8	06/13/19 08:15	06/17/19 14:59	100-41-4	W
Methyl-tert-butyl ether	<200	ug/kg	480	200	8	06/13/19 08:15	06/17/19 14:59	1634-04-4	W
Naphthalene	1580J	ug/kg	2560	410	8	06/13/19 08:15	06/17/19 14:59	91-20-3	
Toluene	<200	ug/kg	480	200	8	06/13/19 08:15	06/17/19 14:59	108-88-3	W
1,2,4-Trimethylbenzene	4570	ug/kg	614	256	8	06/13/19 08:15	06/17/19 14:59	95-63-6	
1,3,5-Trimethylbenzene	2550	ug/kg	614	256	8	06/13/19 08:15	06/17/19 14:59	108-67-8	
m&p-Xylene	<400	ug/kg	960	400	8	06/13/19 08:15	06/17/19 14:59	179601-23-1	W
o-Xylene	<200	ug/kg	480	200	8	06/13/19 08:15	06/17/19 14:59	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		8	06/13/19 08:15	06/17/19 14:59	1868-53-7	D3
4-Bromofluorobenzene (S)	103	%	54-126		8	06/13/19 08:15	06/17/19 14:59	460-00-4	
Toluene-d8 (S)	84	%	64-134		8	06/13/19 08:15	06/17/19 14:59	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	21.8	%	0.10	0.10	1			06/13/19 16:33	

Sample: B-2, 12' Lab ID: 40189323004 Collected: 06/07/19 10:20 Received: 06/12/19 09:55 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
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	<1.5	mg/kg	4.9	1.5	1	06/17/19 12:28	06/18/19 12:06		C4,D5
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	2.8	mg/kg	2.2	0.67	1	06/13/19 08:33	06/13/19 20:40	7439-92-1	
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/13/19 08:15	06/17/19 12:17	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/13/19 08:15	06/17/19 12:17	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:17	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	96	%	57-146		1	06/13/19 08:15	06/17/19 12:17	1868-53-7	
4-Bromofluorobenzene (S)	104	%	54-126		1	06/13/19 08:15	06/17/19 12:17	460-00-4	
Toluene-d8 (S)	95	%	64-134		1	06/13/19 08:15	06/17/19 12:17	2037-26-5	

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ANALYTICAL RESULTS

Project: RATH PROPERTY
Pace Project No.: 40189323

Sample: B-2, 12' Lab ID: 40189323004 Collected: 06/07/19 10:20 Received: 06/12/19 09:55 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
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.2	%	0.10	0.10	1		06/13/19 16:33		

Sample: B-2, 15' Lab ID: 40189323005 Collected: 06/07/19 10:25 Received: 06/12/19 09:55 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
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	2.3	mg/kg	2.1	0.64	1	06/13/19 08:33	06/13/19 20:42	7439-92-1	
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/13/19 08:15	06/17/19 12:40	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/13/19 08:15	06/17/19 12:40	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 12:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	57-146		1	06/13/19 08:15	06/17/19 12:40	1868-53-7	
4-Bromofluorobenzene (S)	102	%	54-126		1	06/13/19 08:15	06/17/19 12:40	460-00-4	
Toluene-d8 (S)	96	%	64-134		1	06/13/19 08:15	06/17/19 12:40	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	7.4	%	0.10	0.10	1		06/13/19 16:34		

Sample: B-3, 8' Lab ID: 40189323006 Collected: 06/07/19 10:40 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/13/19 08:15	06/17/19 13:03	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/13/19 08:15	06/17/19 13:03	179601-23-1	W

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ANALYTICAL RESULTS

Project: RATH PROPERTY

Pace Project No.: 40189323

Sample: B-3, 8' Lab ID: 40189323006 Collected: 06/07/19 10:40 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		1	06/13/19 08:15	06/17/19 13:03	1868-53-7	
4-Bromofluorobenzene (S)	100	%	54-126		1	06/13/19 08:15	06/17/19 13:03	460-00-4	
Toluene-d8 (S)	91	%	64-134		1	06/13/19 08:15	06/17/19 13:03	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	24.2	%	0.10	0.10	1			06/13/19 16:34	

Sample: B-3, 11' Lab ID: 40189323007 Collected: 06/07/19 10:45 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/13/19 08:15	06/17/19 13:26	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/13/19 08:15	06/17/19 13:26	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/13/19 08:15	06/17/19 13:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	57-146		1	06/13/19 08:15	06/17/19 13:26	1868-53-7	
4-Bromofluorobenzene (S)	108	%	54-126		1	06/13/19 08:15	06/17/19 13:26	460-00-4	
Toluene-d8 (S)	99	%	64-134		1	06/13/19 08:15	06/17/19 13:26	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.7	%	0.10	0.10	1			06/13/19 16:34	

Sample: B-4, 10' Lab ID: 40189323008 Collected: 06/07/19 11:00 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/14/19 08:45	06/18/19 03:31	91-20-3	W

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ANALYTICAL RESULTS

Project: RATH PROPERTY
Pace Project No.: 40189323

Sample: B-4, 10' Lab ID: 40189323008 Collected: 06/07/19 11:00 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Toluene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/14/19 08:45	06/18/19 03:31	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-146		1	06/14/19 08:45	06/18/19 03:31	1868-53-7	
4-Bromofluorobenzene (S)	108	%	54-126		1	06/14/19 08:45	06/18/19 03:31	460-00-4	
Toluene-d8 (S)	105	%	64-134		1	06/14/19 08:45	06/18/19 03:31	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.8	%	0.10	0.10	1			06/13/19 16:34	

Sample: B-5, 8' Lab ID: 40189323009 Collected: 06/07/19 11:15 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	120	ug/kg	78.4	32.7	1	06/14/19 08:45	06/18/19 03:54	71-43-2	
Ethylbenzene	124	ug/kg	78.4	32.7	1	06/14/19 08:45	06/18/19 03:54	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 03:54	1634-04-4	W
Naphthalene	73.6J	ug/kg	327	52.3	1	06/14/19 08:45	06/18/19 03:54	91-20-3	
Toluene	136	ug/kg	78.4	32.7	1	06/14/19 08:45	06/18/19 03:54	108-88-3	
1,2,4-Trimethylbenzene	405	ug/kg	78.4	32.7	1	06/14/19 08:45	06/18/19 03:54	95-63-6	
1,3,5-Trimethylbenzene	171	ug/kg	78.4	32.7	1	06/14/19 08:45	06/18/19 03:54	108-67-8	
m&p-Xylene	317	ug/kg	157	65.4	1	06/14/19 08:45	06/18/19 03:54	179601-23-1	
o-Xylene	55.3J	ug/kg	78.4	32.7	1	06/14/19 08:45	06/18/19 03:54	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	57-146		1	06/14/19 08:45	06/18/19 03:54	1868-53-7	
4-Bromofluorobenzene (S)	113	%	54-126		1	06/14/19 08:45	06/18/19 03:54	460-00-4	
Toluene-d8 (S)	104	%	64-134		1	06/14/19 08:45	06/18/19 03:54	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	23.5	%	0.10	0.10	1			06/13/19 16:34	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RATH PROPERTY
Pace Project No.: 40189323

Sample: B-6, 8' Lab ID: 40189323010 Collected: 06/07/19 11:45 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/14/19 08:45	06/18/19 10:09	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/14/19 08:45	06/18/19 10:09	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	57-146		1	06/14/19 08:45	06/18/19 10:09	1868-53-7	
4-Bromofluorobenzene (S)	111	%	54-126		1	06/14/19 08:45	06/18/19 10:09	460-00-4	
Toluene-d8 (S)	106	%	64-134		1	06/14/19 08:45	06/18/19 10:09	2037-26-5	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	24.0	%	0.10	0.10	1			06/12/19 15:40	

Sample: B-6, 9.5' Lab ID: 40189323011 Collected: 06/07/19 11:50 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Benzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/14/19 08:45	06/18/19 10:32	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/14/19 08:45	06/18/19 10:32	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	57-146		1	06/14/19 08:45	06/18/19 10:32	1868-53-7	
4-Bromofluorobenzene (S)	107	%	54-126		1	06/14/19 08:45	06/18/19 10:32	460-00-4	
Toluene-d8 (S)	104	%	64-134		1	06/14/19 08:45	06/18/19 10:32	2037-26-5	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	10.0	%	0.10	0.10	1			06/13/19 16:34	

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ANALYTICAL RESULTS

Project: RATH PROPERTY
Pace Project No.: 40189323

Sample: B-5, 10' Lab ID: 40189323012 Collected: 06/07/19 11:20 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	16000	ug/kg	2650	1100	40	06/14/19 08:45	06/18/19 04:17	71-43-2	
Ethylbenzene	67700	ug/kg	2650	1100	40	06/14/19 08:45	06/18/19 04:17	100-41-4	
Methyl-tert-butyl ether	<1000	ug/kg	2400	1000	40	06/14/19 08:45	06/18/19 04:17	1634-04-4	W
Naphthalene	20700	ug/kg	11000	1770	40	06/14/19 08:45	06/18/19 04:17	91-20-3	
Toluene	165000	ug/kg	2650	1100	40	06/14/19 08:45	06/18/19 04:17	108-88-3	
1,2,4-Trimethylbenzene	189000	ug/kg	2650	1100	40	06/14/19 08:45	06/18/19 04:17	95-63-6	
1,3,5-Trimethylbenzene	55400	ug/kg	2650	1100	40	06/14/19 08:45	06/18/19 04:17	108-67-8	
m&p-Xylene	264000	ug/kg	5290	2200	40	06/14/19 08:45	06/18/19 04:17	179601-23-1	
o-Xylene	98200	ug/kg	2650	1100	40	06/14/19 08:45	06/18/19 04:17	95-47-6	
Surrogates									
Dibromofluoromethane (S)	0	%	57-146		40	06/14/19 08:45	06/18/19 04:17	1868-53-7	S4
4-Bromofluorobenzene (S)	0	%	54-126		40	06/14/19 08:45	06/18/19 04:17	460-00-4	S4
Toluene-d8 (S)	0	%	64-134		40	06/14/19 08:45	06/18/19 04:17	2037-26-5	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	9.3	%	0.10	0.10	1			06/14/19 11:15	

Sample: B-7, 8'	Lab ID: 40189323013	Collected: 06/07/19 12:00	Received: 06/12/19 09:55	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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/14/19 08:45	06/18/19 10:55	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/14/19 08:45	06/18/19 10:55	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 10:55	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	06/14/19 08:45	06/18/19 10:55	1868-53-7	
4-Bromofluorobenzene (S)	118	%	54-126		1	06/14/19 08:45	06/18/19 10:55	460-00-4	
Toluene-d8 (S)	114	%	64-134		1	06/14/19 08:45	06/18/19 10:55	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	22.7	%	0.10	0.10	1			06/12/19 16:39	

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ANALYTICAL RESULTS

Project: RATH PROPERTY

Pace Project No.: 40189323

Sample: B-7, 9.5' Lab ID: 40189323014 Collected: 06/07/19 12:10 Received: 06/12/19 09:55 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	1634-04-4	W
Naphthalene	<40.0	ug/kg	250	40.0	1	06/14/19 08:45	06/18/19 11:18	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	06/14/19 08:45	06/18/19 11:18	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	06/14/19 08:45	06/18/19 11:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	57-146		1	06/14/19 08:45	06/18/19 11:18	1868-53-7	
4-Bromofluorobenzene (S)	106	%	54-126		1	06/14/19 08:45	06/18/19 11:18	460-00-4	
Toluene-d8 (S)	103	%	64-134		1	06/14/19 08:45	06/18/19 11:18	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	8.7	%	0.10	0.10	1			06/14/19 11:15	

Sample: WATER WELL Lab ID: 40189323015 Collected: 06/07/19 13:00 Received: 06/12/19 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<0.25	ug/L	1.0	0.25	1			06/18/19 08:15	71-43-2
Bromobenzene	<0.24	ug/L	1.0	0.24	1			06/18/19 08:15	108-86-1
Bromochloromethane	<0.36	ug/L	5.0	0.36	1			06/18/19 08:15	74-97-5
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1			06/18/19 08:15	75-27-4
Bromoform	<4.0	ug/L	13.2	4.0	1			06/18/19 08:15	75-25-2
Bromomethane	<0.97	ug/L	5.0	0.97	1			06/18/19 08:15	74-83-9
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1			06/18/19 08:15	104-51-8
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1			06/18/19 08:15	135-98-8
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1			06/18/19 08:15	98-06-6
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1			06/18/19 08:15	56-23-5
Chlorobenzene	<0.71	ug/L	2.4	0.71	1			06/18/19 08:15	108-90-7
Chloroethane	<1.3	ug/L	5.0	1.3	1			06/18/19 08:15	75-00-3
Chloroform	<1.3	ug/L	5.0	1.3	1			06/18/19 08:15	67-66-3
Chloromethane	<2.2	ug/L	7.3	2.2	1			06/18/19 08:15	74-87-3
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1			06/18/19 08:15	95-49-8
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1			06/18/19 08:15	106-43-4
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1			06/18/19 08:15	96-12-8
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1			06/18/19 08:15	124-48-1
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1			06/18/19 08:15	106-93-4
Dibromomethane	<0.94	ug/L	3.1	0.94	1			06/18/19 08:15	74-95-3
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1			06/18/19 08:15	95-50-1

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ANALYTICAL RESULTS

Project: RATH PROPERTY

Pace Project No.: 40189323

Sample: WATER WELL	Lab ID: 40189323015	Collected: 06/07/19 13:00	Received: 06/12/19 09:55	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/18/19 08:15	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/18/19 08:15	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/18/19 08:15	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/18/19 08:15	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/18/19 08:15	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/18/19 08:15	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/18/19 08:15	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/18/19 08:15	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/18/19 08:15	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/18/19 08:15	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/18/19 08:15	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/18/19 08:15	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/18/19 08:15	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/18/19 08:15	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/18/19 08:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/18/19 08:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/18/19 08:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/18/19 08:15	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/18/19 08:15	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/18/19 08:15	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/18/19 08:15	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/18/19 08:15	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/18/19 08:15	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		06/18/19 08:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/18/19 08:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/18/19 08:15	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/18/19 08:15	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/18/19 08:15	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/18/19 08:15	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/18/19 08:15	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/18/19 08:15	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/18/19 08:15	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/18/19 08:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/18/19 08:15	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/18/19 08:15	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/18/19 08:15	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/18/19 08:15	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/18/19 08:15	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/18/19 08:15	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/18/19 08:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/18/19 08:15	460-00-4	HS
Dibromofluoromethane (S)	111	%	70-130		1		06/18/19 08:15	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/18/19 08:15	2037-26-5	

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324303

Analysis Method: WI MOD GRO

QC Batch Method: TPH GRO/PVOC WI ext.

Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40189323002

METHOD BLANK: 1883049

Matrix: Solid

Associated Lab Samples: 40189323002

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	06/13/19 08:52	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	06/13/19 08:52	
Benzene	ug/kg	<25.0	50.0	06/13/19 08:52	
Ethylbenzene	ug/kg	<25.0	50.0	06/13/19 08:52	
Gasoline Range Organics	mg/kg	<1.6	5.0	06/13/19 08:52	
m&p-Xylene	ug/kg	<50.0	100	06/13/19 08:52	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	06/13/19 08:52	
Naphthalene	ug/kg	<25.0	50.0	06/13/19 08:52	
o-Xylene	ug/kg	<25.0	50.0	06/13/19 08:52	
Toluene	ug/kg	<25.0	50.0	06/13/19 08:52	
a,a,a-Trifluorotoluene (S)	%	100	80-120	06/13/19 08:52	

LABORATORY CONTROL SAMPLE & LCSD: 1883050

1883051

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits			
1,2,4-Trimethylbenzene	ug/kg	1000	990	1000	99	100	80-120	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1010	100	101	80-120	1	20	
Benzene	ug/kg	1000	1000	1000	100	100	80-120	0	20	
Ethylbenzene	ug/kg	1000	1010	1010	101	101	80-120	0	20	
Gasoline Range Organics	mg/kg	10	9.6	9.0	96	90	80-120	7	20	
m&p-Xylene	ug/kg	2000	2030	2020	101	101	80-120	0	20	
Methyl-tert-butyl ether	ug/kg	1000	1020	992	102	99	80-120	3	20	
Naphthalene	ug/kg	1000	924	920	92	92	80-120	0	20	
o-Xylene	ug/kg	1000	1010	1000	101	100	80-120	0	20	
Toluene	ug/kg	1000	1010	1010	101	101	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				101	100	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RATH PROPERTY
Pace Project No.: 40189323

QC Batch:	324324	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples: 40189323002, 40189323004, 40189323005			

METHOD BLANK: 1883104 Matrix: Solid

Associated Lab Samples: 40189323002, 40189323004, 40189323005

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Lead	mg/kg	<0.60	2.0	06/13/19 19:32	

LABORATORY CONTROL SAMPLE: 1883105

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Lead	mg/kg	50	49.6	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1883106 1883107

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	
		40189266001	Spike	Spike	Result	Result	% Rec	RPD	RPD	Qual	
Lead	mg/kg	915	53.8	53.7	582	577	-620	-629	75-125	1	20 P6

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324367 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Associated Lab Samples: 40189323003, 40189323004, 40189323005, 40189323006, 40189323007

METHOD BLANK: 1883340 Matrix: Solid

Associated Lab Samples: 40189323003, 40189323004, 40189323005, 40189323006, 40189323007

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	06/14/19 16:44	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	06/14/19 16:44	
Benzene	ug/kg	<9.2	20.0	06/14/19 16:44	
Ethylbenzene	ug/kg	<12.4	50.0	06/14/19 16:44	
m&p-Xylene	ug/kg	<34.4	100	06/14/19 16:44	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	06/14/19 16:44	
Naphthalene	ug/kg	<40.0	250	06/14/19 16:44	
o-Xylene	ug/kg	<14.0	50.0	06/14/19 16:44	
Toluene	ug/kg	<11.2	50.0	06/14/19 16:44	
4-Bromofluorobenzene (S)	%	105	54-126	06/14/19 16:44	
Dibromofluoromethane (S)	%	102	57-146	06/14/19 16:44	
Toluene-d8 (S)	%	96	64-134	06/14/19 16:44	

LABORATORY CONTROL SAMPLE: 1883341

Parameter	Units	Spike	LCS	LCS	% Rec	Limits	Qualifiers
		Conc.	Result	% Rec			
Benzene	ug/kg	2500	2510	101	70-130		
Ethylbenzene	ug/kg	2500	2390	96	82-122		
m&p-Xylene	ug/kg	5000	4900	98	70-130		
Methyl-tert-butyl ether	ug/kg	2500	2810	113	70-130		
o-Xylene	ug/kg	2500	2440	98	70-130		
Toluene	ug/kg	2500	2400	96	80-121		
4-Bromofluorobenzene (S)	%			109	54-126		
Dibromofluoromethane (S)	%			101	57-146		
Toluene-d8 (S)	%			97	64-134		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1883342 1883343

Parameter	Units	MS		MSD		MS		MSD		% Rec	Limits	RPD	Max
		40189032003	Result	Spike	Spike	MS	MSD	% Rec	MSD				
Benzene	ug/kg	<25.0	1680	1680	1530	1670	91	99	70-130	9	20		
Ethylbenzene	ug/kg	<25.0	1680	1680	1500	1530	89	91	80-122	2	20		
m&p-Xylene	ug/kg	<50.0	3370	3370	3020	3090	90	92	70-130	2	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1680	1680	1760	1870	105	111	70-130	6	20		
o-Xylene	ug/kg	<25.0	1680	1680	1500	1580	89	94	70-130	5	20		
Toluene	ug/kg	<25.0	1680	1680	1500	1560	89	92	80-121	4	20		
4-Bromofluorobenzene (S)	%						80	83	54-126				
Dibromofluoromethane (S)	%						73	73	57-146				

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1883342	1883343									
Parameter	Units	Result	MS 40189032003	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%							72	75	64-134			

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324518 Analysis Method: EPA 8260

QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List

Associated Lab Samples: 40189323001, 40189323008, 40189323009, 40189323010, 40189323011, 40189323012, 40189323013, 40189323014

METHOD BLANK: 1883930 Matrix: Solid

Associated Lab Samples: 40189323001, 40189323008, 40189323009, 40189323010, 40189323011, 40189323012, 40189323013, 40189323014

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	06/17/19 17:53	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	06/17/19 17:53	
Benzene	ug/kg	<9.2	20.0	06/17/19 17:53	
Ethylbenzene	ug/kg	<12.4	50.0	06/17/19 17:53	
m&p-Xylene	ug/kg	<34.4	100	06/17/19 17:53	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	06/17/19 17:53	
Naphthalene	ug/kg	<40.0	250	06/17/19 17:53	
o-Xylene	ug/kg	<14.0	50.0	06/17/19 17:53	
Toluene	ug/kg	<11.2	50.0	06/17/19 17:53	
4-Bromofluorobenzene (S)	%	104	54-126	06/17/19 17:53	
Dibromofluoromethane (S)	%	97	57-146	06/17/19 17:53	
Toluene-d8 (S)	%	97	64-134	06/17/19 17:53	

LABORATORY CONTROL SAMPLE: 1883931

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Benzene	ug/kg	2500	2460	98	70-130	
Ethylbenzene	ug/kg	2500	2240	90	82-122	
m&p-Xylene	ug/kg	5000	4540	91	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2550	102	70-130	
o-Xylene	ug/kg	2500	2260	90	70-130	
Toluene	ug/kg	2500	2270	91	80-121	
4-Bromofluorobenzene (S)	%			101	54-126	
Dibromofluoromethane (S)	%			94	57-146	
Toluene-d8 (S)	%			93	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1883932 1883933

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40189427001	Result	Spike Conc.	Conc.	MS Result	MSD Result	% Rec	% Rec				
Benzene	ug/kg	<25.0	1430	1430	1420	1480	100	103	70-130	4	20		
Ethylbenzene	ug/kg	<25.0	1430	1430	1280	1370	88	94	80-122	7	20		
m&p-Xylene	ug/kg	1310	2860	2860	4100	4380	98	107	70-130	7	20		
Methyl-tert-butyl ether	ug/kg	<25.0	1430	1430	1510	1540	106	108	70-130	2	20		
o-Xylene	ug/kg	294	1430	1430	1650	1760	95	102	70-130	6	20		
Toluene	ug/kg	<25.0	1430	1430	1290	1410	89	97	80-121	8	20		
4-Bromofluorobenzene (S)	%						102	107	54-126				

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1883932 1883933

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189427001	Spike Conc.	Spike Conc.	MS Result								
Dibromofluoromethane (S)	%							99	100	57-146			
Toluene-d8 (S)	%							93	97	64-134			

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch:	324602	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	40189323015		

METHOD BLANK: 1884617 Matrix: Water

Associated Lab Samples: 40189323015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/17/19 11:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/17/19 11:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/17/19 11:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/17/19 11:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/17/19 11:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/17/19 11:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/17/19 11:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/17/19 11:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/17/19 11:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/17/19 11:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/17/19 11:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/17/19 11:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/17/19 11:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/17/19 11:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/17/19 11:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/17/19 11:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/17/19 11:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/17/19 11:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/17/19 11:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/17/19 11:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/17/19 11:57	
2-Chlorotoluene	ug/L	<0.93	5.0	06/17/19 11:57	
4-Chlorotoluene	ug/L	<0.76	2.5	06/17/19 11:57	
Benzene	ug/L	<0.25	1.0	06/17/19 11:57	
Bromobenzene	ug/L	<0.24	1.0	06/17/19 11:57	
Bromochloromethane	ug/L	<0.36	5.0	06/17/19 11:57	
Bromodichloromethane	ug/L	<0.36	1.2	06/17/19 11:57	
Bromoform	ug/L	<4.0	13.2	06/17/19 11:57	
Bromomethane	ug/L	<0.97	5.0	06/17/19 11:57	
Carbon tetrachloride	ug/L	<0.17	1.0	06/17/19 11:57	
Chlorobenzene	ug/L	<0.71	2.4	06/17/19 11:57	
Chloroethane	ug/L	<1.3	5.0	06/17/19 11:57	
Chloroform	ug/L	<1.3	5.0	06/17/19 11:57	
Chloromethane	ug/L	<2.2	7.3	06/17/19 11:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/17/19 11:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/17/19 11:57	
Dibromochloromethane	ug/L	<2.6	8.7	06/17/19 11:57	
Dibromomethane	ug/L	<0.94	3.1	06/17/19 11:57	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/17/19 11:57	
Diisopropyl ether	ug/L	<1.9	6.3	06/17/19 11:57	
Ethylbenzene	ug/L	<0.22	1.0	06/17/19 11:57	

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

METHOD BLANK: 1884617

Matrix: Water

Associated Lab Samples: 40189323015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/17/19 11:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/17/19 11:57	
m&p-Xylene	ug/L	<0.47	2.0	06/17/19 11:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/17/19 11:57	
Methylene Chloride	ug/L	<0.58	5.0	06/17/19 11:57	
n-Butylbenzene	ug/L	<0.71	2.4	06/17/19 11:57	
n-Propylbenzene	ug/L	<0.81	5.0	06/17/19 11:57	
Naphthalene	ug/L	<1.2	5.0	06/17/19 11:57	
o-Xylene	ug/L	<0.26	1.0	06/17/19 11:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/17/19 11:57	
sec-Butylbenzene	ug/L	<0.85	5.0	06/17/19 11:57	
Styrene	ug/L	<0.47	1.6	06/17/19 11:57	
tert-Butylbenzene	ug/L	<0.30	1.0	06/17/19 11:57	
Tetrachloroethene	ug/L	<0.33	1.1	06/17/19 11:57	
Toluene	ug/L	<0.17	5.0	06/17/19 11:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/17/19 11:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/17/19 11:57	
Trichloroethene	ug/L	<0.26	1.0	06/17/19 11:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/17/19 11:57	
Vinyl chloride	ug/L	<0.17	1.0	06/17/19 11:57	
4-Bromofluorobenzene (S)	%	96	70-130	06/17/19 11:57	
Dibromofluoromethane (S)	%	109	70-130	06/17/19 11:57	
Toluene-d8 (S)	%	98	70-130	06/17/19 11:57	

LABORATORY CONTROL SAMPLE: 1884618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.0	94	70-130	
1,1,2-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1-Dichloroethane	ug/L	50	54.1	108	73-150	
1,1-Dichloroethene	ug/L	50	55.3	111	73-138	
1,2,4-Trichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	35.2	70	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	46.5	93	70-130	
1,2-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,2-Dichloroethane	ug/L	50	52.8	106	75-140	
1,2-Dichloropropane	ug/L	50	53.3	107	73-135	
1,3-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,4-Dichlorobenzene	ug/L	50	49.3	99	70-130	
Benzene	ug/L	50	57.9	116	70-130	
Bromodichloromethane	ug/L	50	48.5	97	70-130	
Bromoform	ug/L	50	35.6	71	68-129	
Bromomethane	ug/L	50	36.2	72	18-159	

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

LABORATORY CONTROL SAMPLE: 1884618

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	48.8	98	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	50.7	101	53-147	
Chloroform	ug/L	50	53.4	107	74-136	
Chloromethane	ug/L	50	37.8	76	29-115	
cis-1,2-Dichloroethene	ug/L	50	62.3	125	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.1	90	70-130	
Dibromochloromethane	ug/L	50	43.8	88	70-130	
Dichlorodifluoromethane	ug/L	50	37.1	74	10-130	
Ethylbenzene	ug/L	50	52.4	105	80-124	
Isopropylbenzene (Cumene)	ug/L	50	51.9	104	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	44.1	88	54-137	
Methylene Chloride	ug/L	50	54.6	109	73-138	
o-Xylene	ug/L	50	50.8	102	70-130	
Styrene	ug/L	50	52.2	104	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Toluene	ug/L	50	51.7	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	54.3	109	73-145	
trans-1,3-Dichloropropene	ug/L	50	40.0	80	70-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	54.8	110	76-147	
Vinyl chloride	ug/L	50	46.6	93	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1884619 1884620

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40189373002	Spike Result	Spike Conc.	Conc.	MS Result	MSD Result	% Rec	MSD % Rec				
1,1,1-Trichloroethane	ug/L	67.7	50	50	119	120	102	105	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.4	50.5	95	101	70-130	6	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	48.9	51.8	98	104	70-137	6	20		
1,1-Dichloroethane	ug/L	34.4	50	50	85.3	87.3	102	106	73-153	2	20		
1,1-Dichloroethene	ug/L	14.7	50	50	68.0	69.2	107	109	73-138	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	45.7	49.8	91	99	70-130	9	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	36.9	41.7	74	83	58-129	12	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	46.1	49.5	92	99	70-130	7	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.6	49.7	95	99	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	51.0	52.8	102	106	75-140	4	20		
1,2-Dichloropropene	ug/L	<0.28	50	50	51.6	52.9	103	106	71-138	3	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	47.7	49.5	95	99	70-130	4	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.2	50.0	96	100	70-130	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1884619 1884620

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
		40189373002	Spike Conc.	Spike Conc.	MS Result						RPD	RPD
Benzene	ug/L	<0.25	50	50	55.4	57.0	111	114	70-130	3	20	
Bromodichloromethane	ug/L	<0.36	50	50	47.4	49.5	95	99	70-130	4	20	
Bromoform	ug/L	<4.0	50	50	36.2	38.8	72	78	68-129	7	20	
Bromomethane	ug/L	<0.97	50	50	40.6	42.0	81	84	15-170	3	20	
Carbon tetrachloride	ug/L	<0.17	50	50	48.8	50.3	98	101	70-130	3	20	
Chlorobenzene	ug/L	<0.71	50	50	48.6	50.5	97	101	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	48.2	49.5	96	99	51-148	3	20	
Chloroform	ug/L	<1.3	50	50	51.9	52.8	103	105	74-136	2	20	
Chloromethane	ug/L	<2.2	50	50	37.5	37.5	75	75	23-115	0	20	
cis-1,2-Dichloroethene	ug/L	26.2	50	50	85.9	87.9	119	123	70-131	2	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.6	46.6	89	93	70-130	4	20	
Dibromochloromethane	ug/L	<2.6	50	50	43.7	46.1	87	92	70-130	5	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	33.0	33.8	66	68	10-132	3	20	
Ethylbenzene	ug/L	<0.22	50	50	50.6	52.6	101	105	80-125	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.0	51.9	100	104	70-130	4	20	
m&p-Xylene	ug/L	<0.47	100	100	102	105	102	105	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.0	46.1	88	92	51-145	5	20	
Methylene Chloride	ug/L	<0.58	50	50	52.7	54.0	105	108	73-140	2	20	
o-Xylene	ug/L	<0.26	50	50	49.2	51.5	98	103	70-130	5	20	
Styrene	ug/L	<0.47	50	50	50.3	52.5	101	105	70-130	4	20	
Tetrachloroethene	ug/L	150	50	50	203	205	106	110	70-130	1	20	
Toluene	ug/L	<0.17	50	50	50.2	51.8	100	104	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	52.4	54.1	104	108	73-148	3	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	40.2	42.6	80	85	70-130	6	20	
Trichloroethene	ug/L	9.8	50	50	61.6	63.5	103	107	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	51.5	52.6	103	105	74-147	2	20	
Vinyl chloride	ug/L	<0.17	50	50	44.5	45.5	89	91	41-129	2	20	
4-Bromofluorobenzene (S)	%						99	100	70-130			
Dibromofluoromethane (S)	%						110	109	70-130			
Toluene-d8 (S)	%						98	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324622 Analysis Method: WI MOD DRO

QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS

Associated Lab Samples: 40189323004

METHOD BLANK: 1884689 Matrix: Solid

Associated Lab Samples: 40189323004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<1.3	4.4	06/18/19 08:47	

LABORATORY CONTROL SAMPLE & LCSD: 1884690 1884691

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	36.3	39.4	91	98	70-120	8	20	

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324270

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40189323010

SAMPLE DUPLICATE: 1882605

Parameter	Units	40189323010 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.0	23.4	3	10	

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324278

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40189323013

SAMPLE DUPLICATE: 1882619

Parameter	Units	40189323013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.7	22.8	1	10	

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QUALITY CONTROL DATA

Project: RATH PROPERTY
 Pace Project No.: 40189323

QC Batch:	324431	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40189323001, 40189323002, 40189323003, 40189323004, 40189323005, 40189323006, 40189323007, 40189323008, 40189323009, 40189323011		

SAMPLE DUPLICATE: 1883666

Parameter	Units	40189318008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	16.0	3	10	

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QUALITY CONTROL DATA

Project: RATH PROPERTY

Pace Project No.: 40189323

QC Batch: 324528

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40189323012, 40189323014

SAMPLE DUPLICATE: 1883974

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	40189327003	19.5	19.2	2	10

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QUALIFIERS

Project: RATH PROPERTY
Pace Project No.: 40189323

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

ANALYTE QUALIFIERS

- C4 Sample container did not meet EPA or method requirements.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D5 The sample was re-weighed into a new container because the sample weight in the original container exceeded the method specifications.
- GO Early and late peaks present outside the GRO window.
- HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.
- W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RATH PROPERTY
Pace Project No.: 40189323

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189323004	B-2, 12'	WI MOD DRO	324622	WI MOD DRO	324725
40189323002	B-1, 9'	TPH GRO/PVOC WI ext.	324303	WI MOD GRO	324404
40189323002	B-1, 9'	EPA 3050	324324	EPA 6010	324435
40189323004	B-2, 12'	EPA 3050	324324	EPA 6010	324435
40189323005	B-2, 15'	EPA 3050	324324	EPA 6010	324435
40189323001	B-1, 7'	EPA 5035/5030B	324518	EPA 8260	324519
40189323003	B-2, 8'	EPA 5035/5030B	324367	EPA 8260	324368
40189323004	B-2, 12'	EPA 5035/5030B	324367	EPA 8260	324368
40189323005	B-2, 15'	EPA 5035/5030B	324367	EPA 8260	324368
40189323006	B-3, 8'	EPA 5035/5030B	324367	EPA 8260	324368
40189323007	B-3, 11'	EPA 5035/5030B	324367	EPA 8260	324368
40189323008	B-4, 10'	EPA 5035/5030B	324518	EPA 8260	324519
40189323009	B-5, 8'	EPA 5035/5030B	324518	EPA 8260	324519
40189323010	B-6, 8'	EPA 5035/5030B	324518	EPA 8260	324519
40189323011	B-6, 9.5'	EPA 5035/5030B	324518	EPA 8260	324519
40189323012	B-5, 10'	EPA 5035/5030B	324518	EPA 8260	324519
40189323013	B-7, 8'	EPA 5035/5030B	324518	EPA 8260	324519
40189323014	B-7, 9.5'	EPA 5035/5030B	324518	EPA 8260	324519
40189323015	WATER WELL	EPA 8260	324602		
40189323001	B-1, 7'	ASTM D2974-87	324431		
40189323002	B-1, 9'	ASTM D2974-87	324431		
40189323003	B-2, 8'	ASTM D2974-87	324431		
40189323004	B-2, 12'	ASTM D2974-87	324431		
40189323005	B-2, 15'	ASTM D2974-87	324431		
40189323006	B-3, 8'	ASTM D2974-87	324431		
40189323007	B-3, 11'	ASTM D2974-87	324431		
40189323008	B-4, 10'	ASTM D2974-87	324431		
40189323009	B-5, 8'	ASTM D2974-87	324431		
40189323010	B-6, 8'	ASTM D2974-87	324270		
40189323011	B-6, 9.5'	ASTM D2974-87	324431		
40189323012	B-5, 10'	ASTM D2974-87	324528		
40189323013	B-7, 8'	ASTM D2974-87	324278		
40189323014	B-7, 9.5'	ASTM D2974-87	324528		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 801
Seattle, WA 98101-36

Client Name:	<i>Seymour</i>
Project #	40189323
Sample Preservation Receipt Form	

All containers needing preservation have been checked and noted below: Yes No N/A

C

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Initial when completed:

Date/
Time:

Exceptions to preservation check: Coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, Other.

Headspace in VOA Vials (25mm): ~~YES~~ ~~NO~~ ~~NA~~ *If yes look in headsphere column

AGIU	1 liter amber glass	BPIU	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AGIH	1 liter amber glass HCl	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WG FU	4 oz clear jar unpres
AG4S	125 mL amber glass H ₂ SO ₄	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCl		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH		
AG2S	500 mL amber glass H ₂ SO ₄	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI		
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H ₂ SO ₄	SP5T	120 mL plastic Na Thiosulfate	ZPLC	ziploc bag
				GN:			



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.:
F-GB-C-031-Rev.07

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40189323

Client Name: Seymour Env

Courier: KCS Logistics FedEx Speedee UPS Waltco

Client Pace Other:

Tracking #: 1995061119



40189323

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None

Cooler Temperature Uncorr: 40°C/Corr: Samples on ice, cooling process has begun

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 6-12-19

Initials: SKW

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. CC	612-19 SKW
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:	8. No DRO container for .004.		
For Analysis: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	612-19 SKW	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. 01-FD is 9½; 012-FD is 85 -Includes date/time/ID/Analysis Matrix: S+W on 4oz poly and the vials ID is 85 8½, 015-FD is Water Supply	612-19 SKW
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		612-19 SKW
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

An for DM

Date: 6/12/19

September 22, 2010

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

RE: Project: WATER WELL
Pace Project No.: 4037027

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on September 16, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 8

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CERTIFICATIONS

Project: WATER WELL

Pace Project No.: 4037027

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: WATER WELL
Pace Project No.: 4037027

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4037027001	WATER WELL	Water	09/09/10 15:00	09/16/10 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: WATER WELL
 Pace Project No.: 4037027

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4037027001	WATER WELL	WI MOD GRO	SES	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WATER WELL
Pace Project No.: 4037027

Method: WI MOD GRO

Description: WIGRO GCV

Client: SEYMORE ENVIRONMENTAL SERVICES, INC.

Date: September 22, 2010

General Information:

1 sample was analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 5 of 8

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ANALYTICAL RESULTS

Project: WATER WELL

Pace Project No.: 4037027

Sample: WATER WELL Lab ID: 4037027001 Collected: 09/09/10 15:00 Received: 09/16/10 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	<0.39 ug/L		1.0	0.39	1		09/20/10 11:52	71-43-2	
Ethylbenzene	<0.41 ug/L		1.0	0.41	1		09/20/10 11:52	100-41-4	
Methyl-tert-butyl ether	<0.38 ug/L		1.0	0.38	1		09/20/10 11:52	1634-04-4	
Naphthalene	<0.40 ug/L		1.0	0.40	1		09/20/10 11:52	91-20-3	
Toluene	<0.42 ug/L		1.0	0.42	1		09/20/10 11:52	108-88-3	
1,2,4-Trimethylbenzene	<0.43 ug/L		1.0	0.43	1		09/20/10 11:52	95-63-6	
1,3,5-Trimethylbenzene	<0.40 ug/L		1.0	0.40	1		09/20/10 11:52	108-67-8	
m&p-Xylene	<0.87 ug/L		2.0	0.87	1		09/20/10 11:52	179601-23-1	
o-Xylene	<0.38 ug/L		1.0	0.38	1		09/20/10 11:52	95-47-6	
a,a,a-Trifluorotoluene (S)	103 %		80-120		1		09/20/10 11:52	98-08-8	

QUALITY CONTROL DATA

Project: WATER WELL

Pace Project No.: 4037027

QC Batch: GCV/5612 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4037027001

METHOD BLANK: 356975 Matrix: Water

Associated Lab Samples: 4037027001

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	09/20/10 10:08	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	09/20/10 10:08	
Benzene	ug/L	<0.39	1.0	09/20/10 10:08	
Ethylbenzene	ug/L	<0.41	1.0	09/20/10 10:08	
m&p-Xylene	ug/L	<0.87	2.0	09/20/10 10:08	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	09/20/10 10:08	
Naphthalene	ug/L	<0.40	1.0	09/20/10 10:08	
o-Xylene	ug/L	<0.38	1.0	09/20/10 10:08	
Toluene	ug/L	<0.42	1.0	09/20/10 10:08	
a,a,a-Trifluorotoluene (S)	%	103	80-120	09/20/10 10:08	

LABORATORY CONTROL SAMPLE & LCSD: 356976

356977

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	20.4	20.2	102	101	80-120	.7	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	20.3	103	101	80-120	2	20	
Benzene	ug/L	20	20.7	20.6	104	103	80-120	.6	20	
Ethylbenzene	ug/L	20	20.8	20.5	104	103	80-120	1	20	
m&p-Xylene	ug/L	40	41.1	40.6	103	101	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.4	21.1	102	105	80-120	3	20	
Naphthalene	ug/L	20	20.1	20.6	101	103	80-120	2	20	
o-Xylene	ug/L	20	20.5	20.3	103	102	80-120	1	20	
Toluene	ug/L	20	20.7	20.5	104	103	80-120	.8	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 356978

356979

Parameter	Units	4036966009 Result	MS		MSD		MS		MSD		% Rec		Max RPD	
			Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD	Qual	
1,2,4-Trimethylbenzene	ug/L	2090	1000	1000	3200	3150	111	106	31-178	2	20			
1,3,5-Trimethylbenzene	ug/L	597	1000	1000	1730	1710	114	111	66-145	2	20			
Benzene	ug/L	703	1000	1000	1800	1780	109	108	23-177	.7	20			
Ethylbenzene	ug/L	2350	1000	1000	3480	3430	113	108	63-144	1	20			
m&p-Xylene	ug/L	7320	2000	2000	9530	9420	110	105	39-172	1	20			
Methyl-tert-butyl ether	ug/L	<19.0	1000	1000	1040	1060	104	106	80-120	2	20			
Naphthalene	ug/L	747	1000	1000	1710	1750	96	100	63-140	2	20			
o-Xylene	ug/L	2100	1000	1000	3190	3160	109	106	60-150	1	20			
Toluene	ug/L	7020	1000	1000	8090	7950	107	93	53-164	2	20			
a,a,a-Trifluorotoluene (S)	%						103	103	80-120					

Date: 09/22/2010 03:56 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WATER WELL

Pace Project No.: 4037027

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

APPENDIX B

BORING LOGS

Facility/Project Name RISU Property				Seymour Project Number 10.00				License/Permit/Monitoring Number B-1								
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)								Date Installed June 7, 2019								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-1				Borehole Diameter 2-inch				Water Level Surface Elevation dry								
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N <u> </u> R <u> </u> E				Grid Location (if applicable)												
County		Grant		County Code		22		Civil Town Smelser								
S A M P L E	R E C O V E R Y	D E P T H H (ft)	SOIL/ROCK DESCRIPTION				W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties				Blow Count
1	28	4	Grass Dark brown silty topsoil Brown sandy clay (fill) No staining or odor					ML CL		0						
2	32	8	Light yellow brown clayey silt					ML		0						
3	8	12	Color change to gray, odor Refusal at 9 ft					ML		560						
Signature:				<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.								

Facility/Project Name RISU Property				Seymour Project Number 10.00				License/Permit/Monitoring Number B-2								
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)								Date Installed June 7, 2019								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-2				Borehole Diameter 2-inch				Water Level Surface Elevation dry								
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N R <u> </u> E				Grid Location (if applicable)												
County		Grant		County Code		22		Civil Town Smelser								
S A M P L E	R E C O V E R Y	D E P T H H (ft)	SOIL/ROCK DESCRIPTION				W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties				Blow Count
1	48	4	Grass Dark brown silty topsoil, wet					ML		0						
2		8	Gray silty clay,hc odor					CL		1280						
3		12	Gray silty clay Change to silty sand with slight gravel					CL SW		1340 12						
	0	16	Very little recovery Refusal at 15 ft 4 inches							0						
Signature: <i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.												

Facility/Project Name RISU Property				Seymour Project Number 10.00				License/Permit/Monitoring Number B-3								
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)								Date Installed June 7, 2019								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-3				Borehole Diameter 2-inch				Water Level Surface Elevation dry								
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N R <u> </u> E				Grid Location (if applicable)												
County		Grant		County Code		22		Civil Town Smelser								
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION				W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties				Blow Count
1	48	4	Grass Gravel Dark brown clay					GM CL		0						
2	32	8	Change to medium brown silty clay					CL		0						
3	22	12	Slightly lithified silty sand Refusal at 11 ft 4 inches					SM		0						
Signature:				<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.								

Facility/Project Name RISU Property				Seymour Project Number 10.00				License/Permit/Monitoring Number B-4								
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)								Date Installed June 7, 2019								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-4				Borehole Diameter 2-inch				Water Level Surface Elevation dry								
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N <u> </u> R <u> </u> E				Grid Location (if applicable)												
County		Grant		County Code		22		Civil Town Smelser								
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION				W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties				Blow Count
1	12	4	Grass Dark brown clay					GM CL		0						
2	22	8	Change to light brown silty clay moist, no odor or staining					CL		0						
3	12	12	Same as above Refusal at 10 ft 4 inches					CL		0						
Signature:				<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.								

Facility/Project Name RISU Property				Seymour Project Number 10.00				License/Permit/Monitoring Number B-5								
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)								Date Installed June 7, 2019								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-5				Borehole Diameter 2-inch				Water Level Surface Elevation dry								
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N <u> </u> R <u> </u> E				Grid Location (if applicable)												
County Grant County Code 22				Civil Town Smelser												
S A M P L E	R E C O V E R Y	D E P T H H (ft)	SOIL/ROCK DESCRIPTION				W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties				Blow Count
1	28	4	Grass Dark brown silty clay topsoil					GM CL		0						
2	22	8	Change to light brown silty clay moist, no odor or staining Slight odor and staining					CL		0						
3	12	12	Same as above-staining and hc Odor. Refusal at 9 ft 8 inches					CL		580						
Signature: <i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.												

Facility/Project Name RISU Property				Seymour Project Number 10.00				License/Permit/Monitoring Number B-6								
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)								Date Installed June 7, 2019								
Boring or Well Number WI Unique Well Number (assigned by DNR) B-6				Borehole Diameter 2-inch				Water Level Surface Elevation dry								
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N <u> </u> R <u> </u> E				Grid Location (if applicable)												
County		Grant		County Code		22		Civil Town Smelser								
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION				W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties				Blow Count
1	12	4	Gravel Dark brown clay					GM CL		0						
2	22	8	Change to light brown silty clay moist, no odor or staining					CL		0						
3	12	12	Same as above Refusal at 9 ft 10 inches					CL		0						
Signature:				<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.								

Facility/Project Name RISU Property						Seymour Project Number 10.00			License/Permit/Monitoring Number B-7							
Boring Drilled by Badger State Drilling (Jr. Garwick) Seymour Environmental (Robyn Seymour)						Date Installed June 7, 2019										
Boring or Well Number WI Unique Well Number (assigned by DNR) B-7						Borehole Diameter 2-inch			Water Level dry			Surface Elevation				
<u> </u> ¼ of <u> </u> ¼ of Section <u> </u> T <u> </u> N R <u> </u> E						Grid Location (if applicable)										
County Grant			County Code 22			Civil Town Smelser										
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION			W E L L	D I A G R A M	U S C S	RQ D	Stable O V M (vppm)	Soil Properties					Blow Count
1	26	4	Grass Dark brown clay					GM CL		0						
2	32	8	Change to light brown silty clay moist, no odor or staining					CL		0						
3	8	12	Same as above Refusal at 9 ft 7 inches					CL		0						
Signature: <i>Robyn Seymour</i>						Firm: Seymour Environmental Services, Inc.										