

May 21, 2020

PECFA #: 53807-9551-04

Ms. Janet Dimaggio
WDNR – Bureau of Remediation and Redevelopment
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711

RE: Groundwater Sampling Update
Rath Property- 1304 St. Rose Road - Cuba City, Wisconsin
BRRTS # 03-22-563937

Dear Ms. Dimaggio:

Seymour Environmental Services, Inc. (Seymour) is pleased to present the included groundwater monitoring data from April 2020 for the Rath Property located near Cuba City, Wisconsin. This is the second round of groundwater monitoring at the site. During the April site visit hydraulic testing and a water supply well reconnaissance was completed in addition to the groundwater sampling. The recent groundwater monitoring data shows that limited impacts from the petroleum release are present in the groundwater and no analytes were identified in the groundwater samples at concentrations exceeding NR140 standards.

GROUNDWATER MONITORING

On April 16, 2020 the second round of groundwater monitoring was conducted at the site. Groundwater monitoring consisted of water level measurement, and groundwater sample collection. Groundwater samples from the monitoring wells were analyzed for PVOCs. Additionally, a groundwater sample was collected from the water-supply well located at the property and analyzed for VOCs.

Water level data from the April monitoring are similar to those collected in February 2020. Generally, the water table at the site rose ~0.6 feet between the February and April sampling events. In April the water table was present at a depth of ~32.5 feet below grade. Groundwater elevation data from the wells was contoured to construct a water table map (Figure 1). The contour map indicates that groundwater flow at the site generally is toward the northwest. This is consistent with data from February and the anticipated flow direction based on the topography in the area. The horizontal hydraulic gradient measured during the April monitoring was 0.0269 ft/ft. Monitoring well construction and groundwater level data collected during the monitoring is included on Table 1 and the laboratory report is included as Attachment A.

Analysis of the groundwater samples from the monitoring wells shows that no significant petroleum-related contamination is present in the area of the former tank system. No PVOCs were detected in the groundwater samples from two of the wells (MW-1 and MW-2). The groundwater sample collected from MW-3 contained trace levels of toluene (0.28 ug/l). Groundwater analytical data from the monitoring wells is summarized on Table 2 and data is posted on Figure 1.

The water sample collected from the water-supply well at the site in April 2020 did not contain any VOCs above the laboratory detection limits. This is the fourth time a sample was collected from the well. No petroleum related VOCs have been detected in any of the water samples. Water supply analytical data is compiled in Table 3.

AQUIFER HYDRAULICS

A slug test was performed at MW-1 to characterize the hydraulic conductivity of the carbonate bedrock aquifer. To conduct the test a small volume of water, 0.5 gallons, was removed from the well and the recovery of the groundwater was measured. Data collected from the recovery curve was used to calculate the hydraulic conductivity of the aquifer using the methods developed by Bouwer and Rice (1976). Results of the test show that the aquifer conductivity is 0.22 ft/day (7.93×10^{-5} cm/sec). This conductivity determined at the site is consistent with published values for the aquifer. The recovery curve for the hydraulic test is included in Attachment B.

The groundwater flow rate at the site was estimated based on the conductivity and hydraulic gradient data collected in April 2020. Assuming an aquifer porosity of 0.3, the groundwater flow rate at the site is 7.2 feet/year.

RECEPTOR SURVEY

The site is located in an area that is not serviced by a public water-supply system and the local properties are serviced by private wells. A total of 19 were identified within a 1200 foot radius of the source area (Figure 2). The water-supply well at the site is the nearest of these wells and is located 100 feet downgradient from the contaminant source area. As discussed previously, no petroleum-related contaminants have been identified in the water from this water-supply well.

Well construction logs for the nearby water-supply wells were reviewed to evaluate the hydrostratigraphy and the well construction. The logs indicate that a thin layer of clayey soils is present in the area; these soils extend from the surface to a depth of ranging from 7 to 30 feet. The Galena Formation is present beneath the clayey soil and extends to a depth of ~ 115 feet. Locally, the Galena is light brown in color and thickly-bedded to massive. The Platteville Formation is present from ~115 to the maximum well depth of 180 feet. The Platteville is a gray fossiliferous dolomite. The unit is thinly bedded and appears to be the primary producer of the water for the private wells.

The logs show that the wells generally are similar in construction. All of the local water supply wells tap the Galena-Platteville carbonates for water. The total depths of the wells varies from ~125 to 180 feet. The water supply well casings extend into the bedrock aquifer. Most wells are cased to a depth of 80 to 120 feet. However, in some of the older water supply wells the casing was only extended to a depth of ~40 feet. We have been unable to locate a log for the water supply well present on the source property. Well construction logs from several of the nearby water-supply wells are included as Attachment C.

DISCUSSION/RECOMMENDATIONS

Data collected show limited petroleum-related contamination remains at the site. A small amount of residual soil contamination is present along the south site of the old store building and no groundwater contamination exceeding NR140 standards is present. This soil contamination is located 10-13 feet below grade. Contaminant levels within the residual soil mass are fairly low and only trimethylbenzenes and naphthalene were detected. Based on the contaminant levels and the depth of the residual soil contamination the does not appear to be a significant vapor imtusion threat at the site.

Based on the information collected we believe that the site meets the WDNR closure criteria. Site closure require a GIS-registry for the residual soil contamination. It is our opinion that the old store building does not act as a substantial cover which limits groundwater infiltration. However, the building was a structural impediment to the remediation of the soil and an on-going obligation requiring assessment and proper management of the residual soil contamination if the building is removed seems to be appropriate for site closure. .

If you have any questions, please feel free to give Mark Fryman or me a call at (608) 838-9120.

Sincerely,
Seymour Environmental Services



Robyn Seymour
Hydrogeologist

enclosures: Tables (3)
Figures (2)
Attachment A - Laboratory Report
Attachment B - Hydraulic Testing Data
Attachment C - Water Supply Well Construction Reports

cc: Mr. -Richard Rath – RP

TABLES

TABLE 1
SUMMARY OF WELL CONSTRUCTION AND GROUNDWATER LEVEL DATA
Rath Property
1304 Saint Rose Road - Cuba City, Wisconsin

WELL CONSTRUCTION DETAILS

WELL	Unique ID	Date Installed	Top of Casing Elevation	Well Depth	Screen Length	Top of Screen Elevation	Base of Screen Elevation
MW-1	VR-308	1/23/2020	996.1	995.63	40.6	15	970.03
MW-2	VR-037	1/24/2020	996.9	996.32	39.5	15	971.82
MW-3	VR-139	1/24/2020	996.1	995.70	40.0	15	970.70

WATER LEVEL DATA

WELL	02/24/2020		04/16/2020	
	Depth	Elevation	Depth	Elevation
MW-1	32.43	963.20	31.92	963.71
MW-2	31.81	964.51	31.11	965.21
MW-3	31.24	964.46	30.45	965.25
Hydraulic Gradient	0.0224 ft/ft N41°W		0.0269 ft/ft N46°W	

- Depth and Length values are listed in feet
- Elevation data listed in feet above mean sea level (NAVD 1984)

TABLE 2
SUMMARY OF GROUNDWATER MONITORING DATA
Rath Property
1304 Saint Rose Road - Cuba City, Wisconsin

Sample I.D.	MW-1		MW-2		MW-3		NR140	
Date	02/24/20	04/16/20	02/24/20	04/16/20	02/24/20	04/16/20	ES	PAL
VOCs								
Benzene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	5	0.5
1,2 Dichloroethane	<0.28	na	<0.28	na	<0.28	na	5	0.5
Ethylbenzene	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	700	140
Methyl-tert-butyl ether	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	60	12
Toluene	<0.27	<0.27	<0.27	<0.27	0.95	0.28 (J)	800	160
Total Trimethylbenzenes	<1.71	<1.71	<1.71	<1.71	<1.71	<1.71	480	96
Total Xylenes	<0.73	<0.73	<0.73	<0.73	<0.73	<0.73	2000	400
Naphthalene	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	100	10
n-Butylbenzene	<0.71	na	<0.71	na	<0.71	na	ns	ns
Isopropylbenzene	<1.7	na	<1.7	na	<1.7	na	ns	ns
n-propylbenzene	<0.81	na	<0.81	na	<0.81	na	ns	ns
PAHs								
Acenaphthrene	<0.0055	na	<0.0055	na	<0.0055	na	ns	ns
Acenaphthylene	<0.0045	na	<0.0045	na	<0.0045	na	ns	ns
Anthracene	<0.0094	na	<0.0095	na	<0.0094	na	3000	600
Benzo(a)anthracene	<0.0068	na	<0.0069	na	<0.0068	na	ns	ns
Benzo(a)pyrene	<0.0095	na	<0.0096	na	<0.0095	na	0.2	0.02
Benzo(b)fluoranthene	<0.0052	na	<0.0052	na	<0.0052	na	0.2	0.02
Benzo(g,h,i)perylene	<0.0061	na	<0.0062	na	<0.0061	na	ns	ns
Benzo(k)fluoranthene	<0.0068	na	<0.0069	na	<0.0068	na	ns	ns
Chrysene	<0.012	na	<0.012	na	<0.012	na	0.2	0.02
Dibenzo(a,h)anthracene	<0.0090	na	<0.0091	na	<0.0090	na	ns	ns
Fluoranthene	<0.0096	na	<0.0097	na	<0.0096	na	400	80
Fluorene	<0.0072	na	<0.0072	na	<0.0072	na	400	80
Indeno(1,2,3-cd)pyrene	<0.016	na	<0.016	na	<0.016	na	ns	ns
1-Methylnaphthalene	<0.0053	na	<0.0054	na	<0.0053	na	ns	ns
2-Methylnaphthalene	<0.0044	na	<0.0045	na	<0.0044	na	ns	ns
Naphthalene	0.028 (J)	na	<0.017	na	<0.017	na	100	10
Phenanthrene	<0.012	na	<0.013	na	<0.012	na	ns	ns
Pyrene	<0.0069	na	<0.0070	na	<0.0069	na	250	50

- All results are reported in ug/l
- All detected compounds included in table
- na = not analyzed
- ns = no standard established

- (J) = Results estimated by lab; below quantitative limit
- NR140 PAL = Preventative action limit (exceedances underlined)
- NR140 ES = Enforcement standard (exceedances bold)

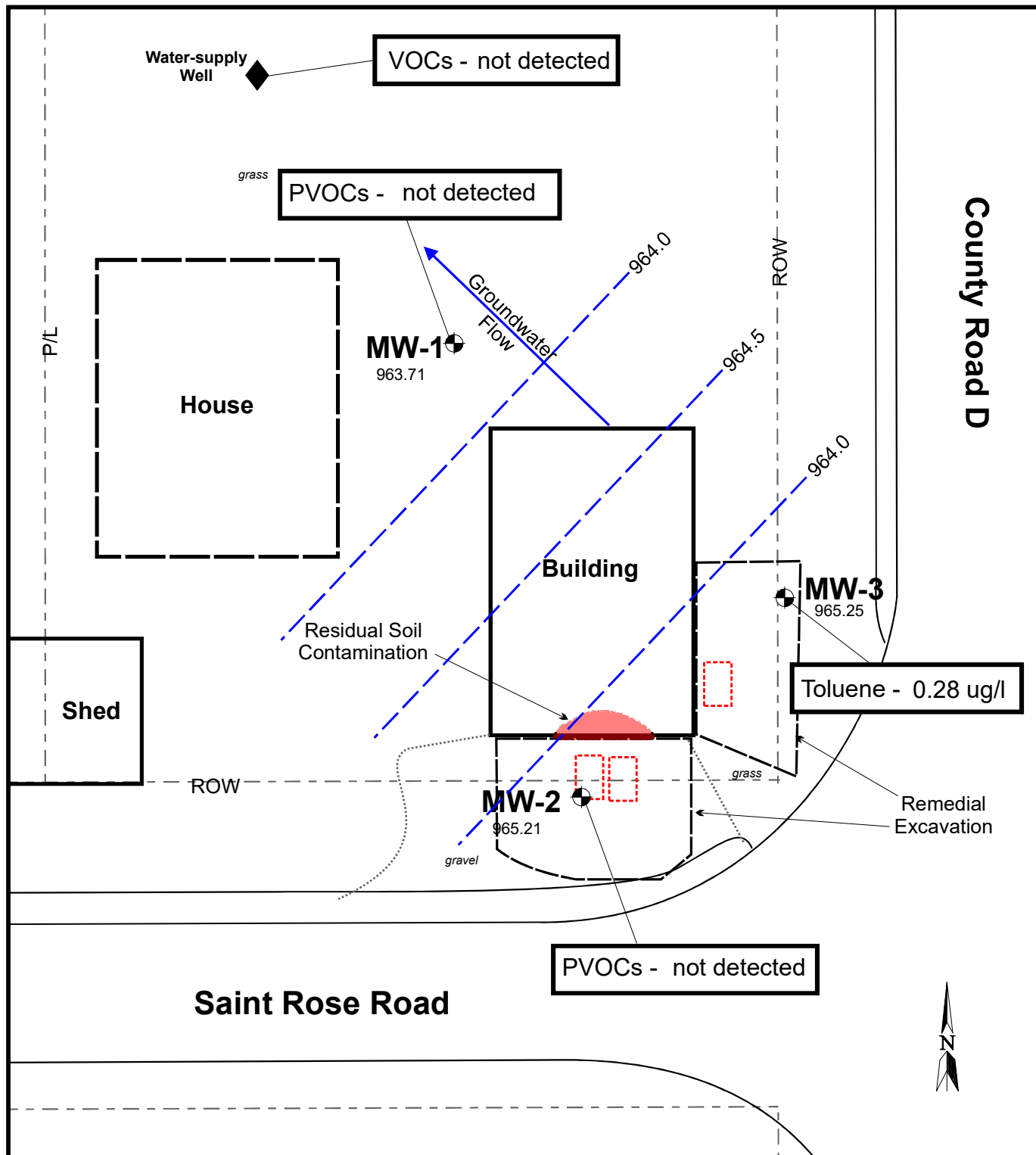
TABLE 3
SUMMARY OF ANALYTICAL DATA FROM WATER SUPPLY WELL
Rath Property
1304 Saint Rose Road - Cuba City, Wisconsin

Sample I.D.	Water Well				NR140		
	Date	09/09/2010	06/07/2019	02/24/2020	04/16/2020	ES	PAL
VOCs							
Benzene	<0.39	<0.25	<0.25	<0.25	<0.25	5	0.5
1,2 Dichloroethane	na	<0.28	<0.28	<0.28	<0.28	5	0.5
Ethylbenzene	<0.41	<0.22	<0.32	<0.32	<0.32	700	140
Methyl-tert-butyl ether	<0.38	<1.2	<1.2	<1.2	<1.2	60	12
Toluene	<0.42	<0.17	<0.27	<0.27	<0.27	800	160
1,3,5 Trimethylbenzene	<0.40	<0.87	<0.87	<0.87	<0.87	ns	ns
1,2,4 Trimethylbenzene	<0.43	<0.84	<0.84	<0.84	<0.84	ns	ns
Total Trimethylbenzenes	<0.83	<1.71	<1.71	<1.71	<1.71	480	96
m & p Xylenes	<0.87	<0.47	<0.47	<0.47	<0.47	ns	ns
o Xylene	<0.38	<0.26	<0.26	<0.26	<0.26	ns	ns
Total Xylenes	<1.25	<0.73	<0.73	<0.73	<0.73	2000	400
Naphthalene	<0.40	<1.2	<1.2	<1.2	<1.2	100	10
n-Butylbenzene	na	<0.71	<0.71	<0.71	<0.71	ns	ns
s-Butylbenzene	na	<0.85	<0.85	<0.85	<0.85	ns	ns
Isopropylbenzene	na	<0.39	<1.7	<1.7	<1.7	ns	ns
p-Isopropyltoluene	na	<0.80	<0.80	<0.80	<0.80	ns	ns
n-propylbenzene	na	<0.81	<0.81	<0.81	<0.81	ns	ns

- All results are reported in ug/l
- All detected compounds included in table
- na = not analyzed
- ns = no standard established

- (J) = Results estimated by lab; below quantitative limit
- NR140 PAL = Preventative action limit (exceedances underlined)
- NR140 ES = Enforcement standard (exceedances bold)

FIGURES



LEGEND

MW-1
 - Monitoring Well

- Water Supply Well

0 20' 40'

1 INCH = 20 FEET
 SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\RATH\
 Basemap-GWdata_April2020.cdr

DATE: 05/20/2020

PREPARED: MDF APPROVED:

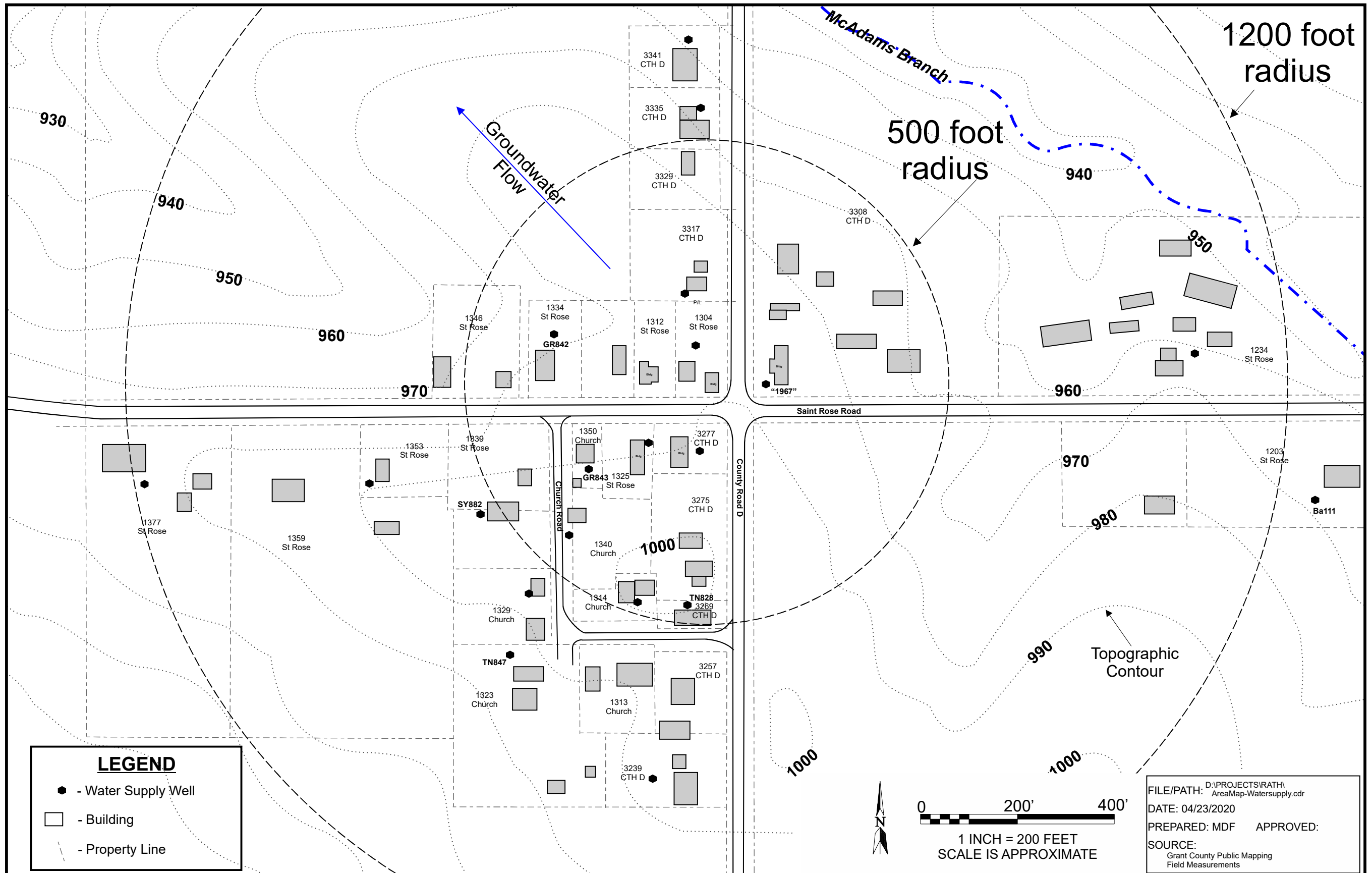
SOURCE:
 Grant County Public Mapping
 Field Measurements

**SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.**

**GROUNDWATER MONITORING DATA (April 2020)
 RATH PROPERTY
 1304 Saint Rose Road
 Cuba City, Wisconsin**

FIGURE

1



SEYMOUR
ENVIRONMENTAL
SERVICES, INC.

WATER-SUPPLY WELL LOCATIONS
RATH PROPERTY
1304 Saint Rose Road
Cuba City, Wisconsin

FIGURE
2

ATTACHMENT A

**LABORATORY
REPORT**

April 27, 2020

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

RE: Project: 10565.00 RATH
Pace Project No.: 40206595

Dear Robyn Seymour:

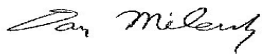
Enclosed are the analytical results for sample(s) received by the laboratory on April 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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: 10565.00 RATH

Pace Project No.: 40206595

Pace Analytical Services Green Bay

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: 10565.00 RATH
Pace Project No.: 40206595

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206595001	WATER SUPPLY	Water	04/16/20 11:00	04/22/20 08:40
40206595002	MW-1	Water	04/16/20 11:45	04/22/20 08:40
40206595003	MW-3	Water	04/16/20 12:10	04/22/20 08:40
40206595004	MW-2	Water	04/16/20 12:35	04/22/20 08:40

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SAMPLE ANALYTE COUNT

Project: 10565.00 RATH
Pace Project No.: 40206595

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40206595001	WATER SUPPLY	EPA 8260	HNW	64	PASI-G
40206595002	MW-1	EPA 8260	LAP	12	PASI-G
40206595003	MW-3	EPA 8260	LAP	12	PASI-G
40206595004	MW-2	EPA 8260	LAP	12	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 10565.00 RATH

Pace Project No.: 40206595

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40206595003	MW-3					
EPA 8260	Toluene	0.28J	ug/L	0.90	04/24/20 12:39	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10565.00 RATH

Pace Project No.: 40206595

Sample: WATER SUPPLY **Lab ID: 40206595001** Collected: 04/16/20 11:00 Received: 04/22/20 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		04/24/20 13:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		04/24/20 13:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		04/24/20 13:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/24/20 13:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/24/20 13:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/24/20 13:00	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		04/24/20 13:00	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		04/24/20 13:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		04/24/20 13:00	98-06-6	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		04/24/20 13:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/24/20 13:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/24/20 13:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/24/20 13:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/24/20 13:00	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		04/24/20 13:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		04/24/20 13:00	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/24/20 13:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/24/20 13:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/24/20 13:00	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/24/20 13:00	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/24/20 13:00	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/24/20 13:00	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/24/20 13:00	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/24/20 13:00	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/24/20 13:00	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/24/20 13:00	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/24/20 13:00	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/24/20 13:00	156-59-2	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		04/24/20 13:00	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/24/20 13:00	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		04/24/20 13:00	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		04/24/20 13:00	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		04/24/20 13:00	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/24/20 13:00	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/24/20 13:00	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		04/24/20 13:00	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/24/20 13:00	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		04/24/20 13:00	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		04/24/20 13:00	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		04/24/20 13:00	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/24/20 13:00	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/24/20 13:00	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/24/20 13:00	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		04/24/20 13:00	103-65-1	
Styrene	<3.0	ug/L	10.0	3.0	1		04/24/20 13:00	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10565.00 RATH

Pace Project No.: 40206595

Sample: WATER SUPPLY **Lab ID: 40206595001** Collected: 04/16/20 11:00 Received: 04/22/20 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		04/24/20 13:00	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		04/24/20 13:00	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/24/20 13:00	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		04/24/20 13:00	108-88-3	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		04/24/20 13:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		04/24/20 13:00	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/24/20 13:00	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/24/20 13:00	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/24/20 13:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/24/20 13:00	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		04/24/20 13:00	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/24/20 13:00	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/24/20 13:00	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/24/20 13:00	75-01-4	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/24/20 13:00	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/24/20 13:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/24/20 13:00	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/24/20 13:00	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		04/24/20 13:00	2037-26-5	

Sample: MW-1 **Lab ID: 40206595002** Collected: 04/16/20 11:45 Received: 04/22/20 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		04/24/20 12:15	71-43-2	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/24/20 12:15	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/24/20 12:15	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/24/20 12:15	91-20-3	
Toluene	<0.27	ug/L	0.90	0.27	1		04/24/20 12:15	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/24/20 12:15	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/24/20 12:15	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/24/20 12:15	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/24/20 12:15	95-47-6	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		04/24/20 12:15	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/24/20 12:15	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/24/20 12:15	460-00-4	

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ANALYTICAL RESULTS

Project: 10565.00 RATH
Pace Project No.: 40206595

Sample: MW-3 **Lab ID: 40206595003** Collected: 04/16/20 12:10 Received: 04/22/20 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		04/24/20 12:39	71-43-2	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/24/20 12:39	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/24/20 12:39	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/24/20 12:39	91-20-3	
Toluene	0.28J	ug/L	0.90	0.27	1		04/24/20 12:39	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/24/20 12:39	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/24/20 12:39	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/24/20 12:39	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/24/20 12:39	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		04/24/20 12:39	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/24/20 12:39	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/24/20 12:39	460-00-4	

Sample: MW-2 **Lab ID: 40206595004** Collected: 04/16/20 12:35 Received: 04/22/20 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.25	ug/L	1.0	0.25	1		04/24/20 13:02	71-43-2	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/24/20 13:02	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/24/20 13:02	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/24/20 13:02	91-20-3	
Toluene	<0.27	ug/L	0.90	0.27	1		04/24/20 13:02	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/24/20 13:02	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/24/20 13:02	108-67-8	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/24/20 13:02	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/24/20 13:02	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		04/24/20 13:02	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/24/20 13:02	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		04/24/20 13:02	460-00-4	

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QUALITY CONTROL DATA

Project: 10565.00 RATH
Pace Project No.: 40206595

QC Batch: 353267 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40206595001

METHOD BLANK: 2045006 Matrix: Water
Associated Lab Samples: 40206595001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/24/20 07:36	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/24/20 07:36	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/24/20 07:36	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/24/20 07:36	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/24/20 07:36	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/24/20 07:36	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/24/20 07:36	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	04/24/20 07:36	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/24/20 07:36	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/24/20 07:36	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/24/20 07:36	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/24/20 07:36	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/24/20 07:36	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/24/20 07:36	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/24/20 07:36	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/24/20 07:36	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/24/20 07:36	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/24/20 07:36	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/24/20 07:36	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/24/20 07:36	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/24/20 07:36	
2-Chlorotoluene	ug/L	<0.93	5.0	04/24/20 07:36	
4-Chlorotoluene	ug/L	<0.76	2.5	04/24/20 07:36	
Benzene	ug/L	<0.25	1.0	04/24/20 07:36	
Bromobenzene	ug/L	<0.24	1.0	04/24/20 07:36	
Bromochloromethane	ug/L	<0.36	5.0	04/24/20 07:36	
Bromodichloromethane	ug/L	<0.36	1.2	04/24/20 07:36	
Bromoform	ug/L	<4.0	13.2	04/24/20 07:36	
Bromomethane	ug/L	<0.97	5.0	04/24/20 07:36	
Carbon tetrachloride	ug/L	<1.1	3.6	04/24/20 07:36	
Chlorobenzene	ug/L	<0.71	2.4	04/24/20 07:36	
Chloroethane	ug/L	<1.3	5.0	04/24/20 07:36	
Chloroform	ug/L	<1.3	5.0	04/24/20 07:36	
Chloromethane	ug/L	<2.2	7.3	04/24/20 07:36	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/24/20 07:36	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/24/20 07:36	
Dibromochloromethane	ug/L	<2.6	8.7	04/24/20 07:36	
Dibromomethane	ug/L	<0.94	3.1	04/24/20 07:36	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/24/20 07:36	
Diisopropyl ether	ug/L	<1.9	6.3	04/24/20 07:36	

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QUALITY CONTROL DATA

Project: 10565.00 RATH
Pace Project No.: 40206595

METHOD BLANK: 2045006 Matrix: Water
Associated Lab Samples: 40206595001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	04/24/20 07:36	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	04/24/20 07:36	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	04/24/20 07:36	
m&p-Xylene	ug/L	<0.47	2.0	04/24/20 07:36	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/24/20 07:36	
Methylene Chloride	ug/L	<0.58	5.0	04/24/20 07:36	
n-Butylbenzene	ug/L	<0.71	2.4	04/24/20 07:36	
n-Propylbenzene	ug/L	<0.81	5.0	04/24/20 07:36	
Naphthalene	ug/L	<1.2	5.0	04/24/20 07:36	
o-Xylene	ug/L	<0.26	1.0	04/24/20 07:36	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/24/20 07:36	
sec-Butylbenzene	ug/L	<0.85	5.0	04/24/20 07:36	
Styrene	ug/L	<3.0	10.0	04/24/20 07:36	
tert-Butylbenzene	ug/L	<0.30	1.0	04/24/20 07:36	
Tetrachloroethene	ug/L	<0.33	1.1	04/24/20 07:36	
Toluene	ug/L	<0.27	0.90	04/24/20 07:36	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	04/24/20 07:36	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/24/20 07:36	
Trichloroethene	ug/L	<0.26	1.0	04/24/20 07:36	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/24/20 07:36	
Vinyl chloride	ug/L	<0.17	1.0	04/24/20 07:36	
4-Bromofluorobenzene (S)	%	95	70-130	04/24/20 07:36	
Dibromofluoromethane (S)	%	101	70-130	04/24/20 07:36	
Toluene-d8 (S)	%	101	70-130	04/24/20 07:36	

LABORATORY CONTROL SAMPLE: 2045007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	64-131	
1,1,2-Trichloroethane	ug/L	50	50.1	100	70-130	
1,1-Dichloroethane	ug/L	50	56.4	113	69-163	
1,1-Dichloroethene	ug/L	50	53.4	107	77-123	
1,2,4-Trichlorobenzene	ug/L	50	49.3	99	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	50.0	100	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	70-130	
1,2-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,2-Dichloroethane	ug/L	50	54.9	110	78-142	
1,2-Dichloropropane	ug/L	50	49.7	99	86-134	
1,3-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Bromodichloromethane	ug/L	50	46.8	94	70-130	
Bromoform	ug/L	50	41.7	83	70-130	

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QUALITY CONTROL DATA

Project: 10565.00 RATH
Pace Project No.: 40206595

LABORATORY CONTROL SAMPLE: 2045007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	41.6	83	39-129	
Carbon tetrachloride	ug/L	50	44.5	89	70-132	
Chlorobenzene	ug/L	50	50.9	102	70-130	
Chloroethane	ug/L	50	49.8	100	66-140	
Chloroform	ug/L	50	47.4	95	75-132	
Chloromethane	ug/L	50	43.5	87	32-143	
cis-1,2-Dichloroethene	ug/L	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.5	101	70-130	
Dibromochloromethane	ug/L	50	46.7	93	70-130	
Dichlorodifluoromethane	ug/L	50	41.6	83	10-141	
Ethylbenzene	ug/L	50	53.4	107	80-120	
Isopropylbenzene (Cumene)	ug/L	50	53.5	107	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	57.5	115	61-129	
Methylene Chloride	ug/L	50	54.4	109	70-130	
o-Xylene	ug/L	50	52.0	104	70-130	
Styrene	ug/L	50	54.6	109	70-130	
Tetrachloroethene	ug/L	50	46.3	93	70-130	
Toluene	ug/L	50	52.0	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.8	110	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.6	103	69-130	
Trichloroethene	ug/L	50	48.9	98	70-130	
Trichlorofluoromethane	ug/L	50	53.9	108	75-145	
Vinyl chloride	ug/L	50	49.4	99	51-140	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2045062 2045063

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40206595001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50	52.6	53.5	105	107	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50	52.6	55.5	105	111	64-137	5	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50	52.8	53.4	106	107	70-137	1	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	50	60.7	61.7	121	123	69-163	2	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	50	54.8	56.0	110	112	77-129	2	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	51.8	54.2	104	108	68-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50	49.5	51.7	99	103	60-130	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50	51.0	52.4	102	105	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50	52.8	55.5	106	111	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50	57.1	58.1	114	116	78-145	2	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50	52.9	54.0	106	108	86-135	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50	52.6	56.0	105	112	70-130	6	20	

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QUALITY CONTROL DATA

Project: 10565.00 RATH
Pace Project No.: 40206595

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2045062		2045063		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40206595001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.5	55.1	105	110	70-130	5	20	
Benzene	ug/L	<0.25	50	50	55.6	56.1	111	112	70-136	1	20	
Bromodichloromethane	ug/L	<0.36	50	50	50.2	51.7	100	103	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	42.4	44.7	85	89	69-130	5	20	
Bromomethane	ug/L	<0.97	50	50	41.6	43.3	83	87	39-138	4	20	
Carbon tetrachloride	ug/L	<1.1	50	50	48.9	49.3	98	99	70-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	55.3	55.8	111	112	70-130	1	20	
Chloroethane	ug/L	<1.3	50	50	47.2	46.9	94	94	61-149	1	20	
Chloroform	ug/L	<1.3	50	50	50.4	51.4	101	103	75-133	2	20	
Chloromethane	ug/L	<2.2	50	50	36.4	35.9	73	72	32-143	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.2	50.0	100	100	70-130	0	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	52.7	55.8	105	112	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.6	51.7	97	103	70-130	6	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.2	27.2	54	54	10-141	0	20	
Ethylbenzene	ug/L	<0.32	50	50	58.6	59.2	117	118	80-120	1	20	
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	58.8	60.2	118	120	70-130	2	20	
m&p-Xylene	ug/L	<0.47	100	100	120	122	120	122	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	59.4	60.3	119	121	61-136	2	20	
Methylene Chloride	ug/L	<0.58	50	50	58.2	58.4	116	117	68-137	0	20	
o-Xylene	ug/L	<0.26	50	50	57.1	58.1	114	116	70-130	2	20	
Styrene	ug/L	<3.0	50	50	58.0	59.7	116	119	70-130	3	20	
Tetrachloroethene	ug/L	<0.33	50	50	51.1	52.7	102	105	70-130	3	20	
Toluene	ug/L	<0.27	50	50	55.7	57.0	111	114	80-120	2	20	
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	58.9	60.3	118	121	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	55.0	56.0	110	112	69-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	52.5	53.9	105	108	70-130	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	53.9	53.8	108	108	74-157	0	20	
Vinyl chloride	ug/L	<0.17	50	50	44.8	44.9	90	90	51-140	0	20	
4-Bromofluorobenzene (S)	%						106	104	70-130			
Dibromofluoromethane (S)	%						101	100	70-130			
Toluene-d8 (S)	%						102	101	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10565.00 RATH
Pace Project No.: 40206595

QC Batch: 353216 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206595002, 40206595003, 40206595004

METHOD BLANK: 2044663 Matrix: Water
Associated Lab Samples: 40206595002, 40206595003, 40206595004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/24/20 07:25	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/24/20 07:25	
Benzene	ug/L	<0.25	1.0	04/24/20 07:25	
Ethylbenzene	ug/L	<0.32	1.1	04/24/20 07:25	
m&p-Xylene	ug/L	<0.47	2.0	04/24/20 07:25	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/24/20 07:25	
Naphthalene	ug/L	<1.2	5.0	04/24/20 07:25	
o-Xylene	ug/L	<0.26	1.0	04/24/20 07:25	
Toluene	ug/L	<0.27	0.90	04/24/20 07:25	
4-Bromofluorobenzene (S)	%	94	70-130	04/24/20 07:25	
Dibromofluoromethane (S)	%	96	70-130	04/24/20 07:25	
Toluene-d8 (S)	%	96	70-130	04/24/20 07:25	

LABORATORY CONTROL SAMPLE: 2044664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.5	99	70-130	
Ethylbenzene	ug/L	50	52.8	106	80-120	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	47.2	94	61-129	
o-Xylene	ug/L	50	52.7	105	70-130	
Toluene	ug/L	50	50.5	101	80-120	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2044807 2044808

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40206597006 Result	Spike Conc.	Spike Conc.	Conc.								
Benzene	ug/L	<0.25	50	50	50.8	53.3	102	107	70-136	5	20		
Ethylbenzene	ug/L	<0.32	50	50	54.8	56.1	110	112	80-120	2	20		
m&p-Xylene	ug/L	<0.47	100	100	108	110	108	110	70-130	2	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	50.1	52.2	100	104	61-136	4	20		
o-Xylene	ug/L	<0.26	50	50	55.0	56.3	110	113	70-130	2	20		
Toluene	ug/L	<0.27	50	50	52.6	54.1	105	108	80-120	3	20		
4-Bromofluorobenzene (S)	%						100	102	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10565.00 RATH

Pace Project No.: 40206595

Parameter	Units	2044807		2044808		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40206597006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Dibromofluoromethane (S)	%					103	103	70-130			
Toluene-d8 (S)	%					99	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 10565.00 RATH

Pace Project No.: 40206595

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10565.00 RATH
Pace Project No.: 40206595

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40206595001	WATER SUPPLY	EPA 8260	353267		
40206595002	MW-1	EPA 8260	353216		
40206595003	MW-3	EPA 8260	353216		
40206595004	MW-2	EPA 8260	353216		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: Seymour Environmental Services Project # 4000595

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

Lab Lot# of pH paper: _____

Lab Std #ID of preservation (if pH adjusted): _____

Initial when completed: _____

Date/Time: _____

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Lab #	Glass	Plastic	Vials	Jars	General		VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
					SP5T	ZPLC							
001	AG1U												
002	BG1U												
003	AG1H												
004	AG4S												
005	AG4U												
006	AG5U												
007	AG2S												
008	BG3U												
009	BP1U												
010	BP3U												
011	BP3B												
012	BP3N												
013	BP3S												
014	VG9A												
015	DG9T												
016	VG9U												
017	VG9H												
018	VG9M												
019	VG9D												
020	JGFU												
	JG9U												
	WGFU												
	WPFU												
	SP5T												
	ZPLC												
	GN												

Exceptions to preservation check: VOA, Zoliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (<6mm): Yes No N/A *If yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	
BG3U	250 mL clear glass unpres						

Sample Condition Upon Receipt Form (SCUR)

Client Name: Seymour Environmental Services

Project #:

WO# : 40206595

Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____



Tracking #: 406042120

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

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROF Corr: ROI

Person examining contents:

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Date: 4-22-20 / Initials: MLR

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: JL

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>invoice to phase PO #</u> <u>MLR 4-22-20</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>no time, only "pm"</u> <u>MLR 4-22-20</u>
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 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.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
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. <u>001111 V694t time is "11:02", 003 (1) V694t</u>
- Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>time is 48:16 "12:00"</u> <u>MLR 4-22-20 MLR 4-22-20</u> <u>MLR 4-22-20</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>MLR 4-22-20</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir

ATTACHMENT B

**HYDRAULIC TESTING
DATA**

HYDRAULIC TEST DATA (MW-1) RATH PROPERTY - Cuba City, WI

Well Depth	40.6
Top of Screen	25.6
GW Depth	31.92
Water Column	8.86
Well Diameter	2.08"
Borehole Diameter	8.25"
Slug Volume	0.5 gallon

Fully Penetrating Well

$$\ln(R_e / r_w) = \left[\frac{1.1}{\ln(H / r_w)} + \frac{C}{(L / r_w)} \right]^{-1}$$

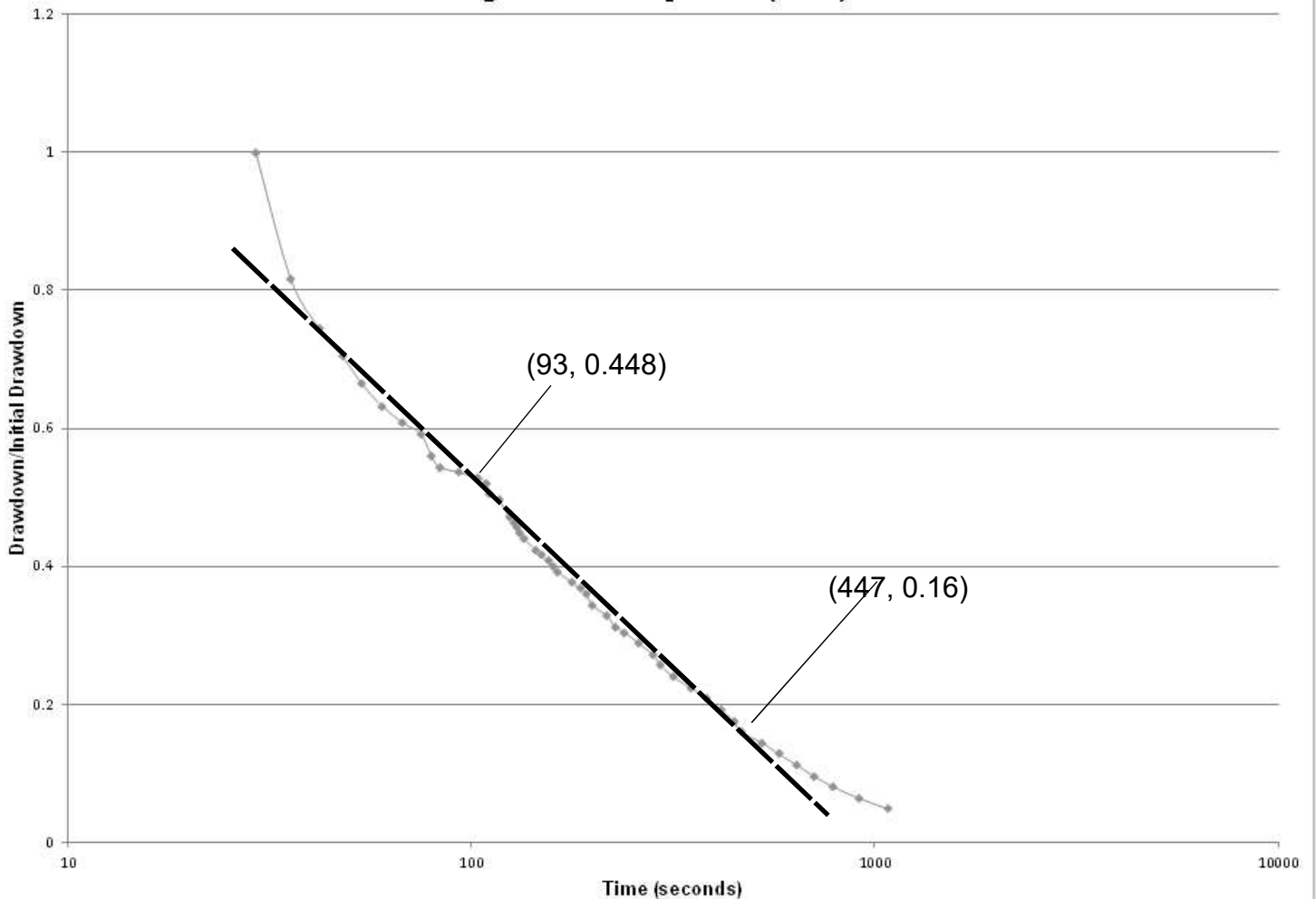
C = 1.798 (from curve match)

$$\ln(R_e / r_w) = 2.112$$

$$K = \frac{r_c^2 \ln(R_e / r_w)}{2L} \frac{1}{t} \ln \frac{y_o}{y_t}$$

K = 0.22 ft/day or 7.93 x 10⁻⁵ cm/sec

Slug Test Recovery Curve (MW-1)



ATTACHMENT C

**CONSTRUCTION LOGS OF SELECT NEARBY
WATER-SUPPLY WELLS**

1. COUNTY Grant CHECK ONE Town Village City NAME Smelser

2. LOCATION (Number and Street or 1/4 section, section, township and range. Also give subdivision name, lot and block numbers when available.)
S.E. 1/4 S.E. Sec 21-T2N-R1W.

3. OWNER AT TIME OF DRILLING James Lup

4. OWNER'S COMPLETE MAIL ADDRESS Cuba City Wis R. R. 2. 53807

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER	FLOOR DRAIN	FOUNDATION DRAIN	WASTE WATER DRAIN
C.I.	TILE	C.I.	SEWER CONNECTED	C.I. TILE
18		38		22 septic connected

CLEAR WATER DRAIN	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILLO	ABANDONED WELL	SINK HOLE
C.I. TILE								
galv. down sp. 32	78			143			10 Sealed	

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: home

7. DRILLHOLE						10. FORMATIONS		
Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)	Kind	From (ft.)	To (ft.)
10	Surface	40	6	40	160	clay	Surface	20
						Yellow Buff	20	113
						Grey limestone	113	160

8. CASING, LINER, CURBING, AND SCREEN			
Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Standard Steel	Surface	40
	new pipe 19.45 # per ft		
	280 wall		

9. GROUT OR OTHER SEALING MATERIAL		
Kind	From (ft.)	To (ft.)
port cement	Surface	40

11. MISCELLANEOUS DATA

Yield test: 1 1/2 Hrs. at 14 GPM Well is terminated 14 inches above below final grade

Depth from surface to normal water level 70 ft. Well disinfected upon completion Yes No

Depth to water level when pumping 70 ft. Well sealed watertight upon completion Yes No

Water sample sent to Wis. Stat. Laboratory of Hygiene laboratory on: Oct 11 1967

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumphrooms, access pits, etc., should be given on reverse side.

SIGNATURE Arthur J. Bauer Registered Well Driller COMPLETE MAIL ADDRESS R.R. 2. Cuba City Wis 53807

Please do not write in space below

COLIFORM TEST RESULT	GAS - 24 HRS.	GAS - 48 HRS.	CONFIRMED	REMARKS
846				

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER TN847

State of WI - Private Water Systems - DG/2 Form 3300-77A
 Department of Natural Resources, Box 7921 (R 8/00)
 Madison, WI 53707
 Please type or Print using a black Pen
 Please Use Decimals Instead of Fractions.

Property Owner **POPP, DALE** Telephone **608-744-3739**
 Mailing Address **1323 CHURCH RD**
 City **CUBA CITY** State **WI** Zip Code **53807**
 County of Well Location **Grant** County Well Permit No. **W** Well Completion Date **07/13/2007**

1. Well Location
 Town City Village
 of **SMELSER**
 Fire # (if available)

Grid or Street Address or Road Name and Number
1323 CHURCH RD

Subdivision Name Lot # Block #

Well Constructor (Business Name) **JEFFERY A FAHERTY** License # **6819** Facility ID Number (Public Wells)
 Address **FAHERTY & SON WELL DRLG** Public Well Plan Approval #
 City **PLATTEVILLE** State **WI** Zip Code **53818** Date of Approval (mm/dd/yyyy)
 Hicap Permanent well # Common Well # Specific Capacity **.8 gpm/ft**

Gov't Lot # or **NE** 1/4 of **NE** 1/4 of
 Section **28** T **2 N; R 1** E W
 Latitude Deg. Min. Longitude Deg. Min.

2. Well Type New Replacement Reconstruction Lat/Long Method

of previous unique well # constructed in Reason for replaced or Reconstructed Well?
SHARED WELL

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No Distance in Feet from Well to Nearest:
 1. Landfill 2. Building Overhang 3. Septic Holding Tank
100 4. Sewage Absorption Unit 5. Nonconforming Pit 6. Buried Home Heating Oil Tank 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool
 9. Downspout/Yard Hydrant 10. Privy 11. Foundation Drain to Clearwater 12. Foundation Drain to Sewer 13. Building Drain
 Cast Iron or Plastic Other
30 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer: Sanitary units in. diam. Storm =< 6 > 6
 16. Clearwater Sump 17. Wastewater Sump 18. Paved Animal Barn Pen 19. Animal Yard or Shelter 20. Silo 21. Barn Gutter 22. Manure Pipe Gravity Pressure Cast Iron or Plastic Other 23. Other Manure Storage 24. Ditch 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)	From (ft.)	To (ft.)		
10	0	80	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
			<input checked="" type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
6	80	160	<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
			<input type="checkbox"/> --4. Drill-Through Casing Hammer	
			<input type="checkbox"/> --5. Reverse Rotary	
			<input type="checkbox"/> --6. Cable-tool Bit in. dia-----	<input type="checkbox"/>
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
			<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. 22 depth (ft)	
			Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			If no, why not?	

8. Geology	From (ft.)	To (ft.)
--C- CLAY	0	19
--L- GALENA LIMESTONE	19	150
--L- UPPER PLATTEVILLE DOLOMITE	150	160

6. Casing, Liner, Screen Material, Weight, Specification From To
 Dia. (in.) Manufacturer & Method of Assembly (ft.) (ft.)
6 A-53B 19.45 LBS./FT. WHEATLAND T&C 0 80

9. Static Water Level ft. above ground surface **50** ft. below ground surface
 10. Pump Test Pumping Level **75** ft. below surface Pumping at **20** GPM for **.5** hours
 11. Well is: Above Grade **18** in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

7. Grout or Other Sealing Material. Method: **PRES. PUMPED TRMI** From To # Sacks
 Kind of Sealing Material (ft.) (ft.) Cement
NEAT CEMENT 0 80 35

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain:
 13. Signature of the Well Constructor or Supervisory Driller **JF** Date signed **07/17/2007**
 Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER TN828

State of WI - Private Water Systems - DG/2
 Department of Natural Resources, Box 7921
 Madison, WI 53707
 Please type or Print using a black Pen
 Please Use Decimals Instead of Fractions.

Form 3300-77A
 (R 8/00)

Property Owner MITCHELL, BILL		Telephone 847-774-2460	
Mailing Address 2545 W HOMER ST #2			
City CHICAGO		State IL	Zip Code 60647
County of Well Location Grant	County Well Permit No. W	Well Completion Date 01/17/2007	

1. Well Location <input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village of SMELSER	Fire # (if available)
--	-----------------------

Grid or Street Address or Road Name and Number 3269 CO HWY D
--

Subdivision Name	Lot #	Block #
------------------	-------	---------

Well Constructor (Business Name) JEFFERY A FAHERTY	License # 6819	Facility ID Number (Public Wells)
Address FAHERTY & SON WELL DRLG		Public Well Plan Approval # W--
City PLATTEVILLE	State WI	Zip Code 53818
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity 1 gpm/ft

Gov't Lot #	or	NE 1/4 of	NE 1/4 of
Section 28	T	2 N; R 1	<input type="checkbox"/> E <input checked="" type="checkbox"/> W
Latitude Deg.	Min.		
Longitude Deg.	Min.		

2. Well Type <input type="checkbox"/> Replacement <input checked="" type="checkbox"/> New <input type="checkbox"/> Reconstruction	Lat/Long Method
of previous unique well # constructed in Reason for replaced or Reconstructed Well? NEW WELL	

3. Well serves 1 # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)	High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No

Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:

Well located in floodplain? Yes No

Distance in Feet from Well to Nearest:

- Landfill
- Building Overhang
- Septic Holding Tank
- Sewage Absorption Unit
- Nonconforming Pit
- Buried Home Heating Oil Tank
- Buried Petroleum Tank
- Shoreline Swimming Pool
- Downspout/Yard Hydrant
- Privy
- Foundation Drain to Clearwater
- Foundation Drain to Sewer
- Building Drain
 Cast Iron or Plastic Other
- Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
- Collector or Street Sewer:
 Sanitary units in diam.
 Storm =< 6 > 6
- Clearwater Sump

- Wastewater Sump
- Paved Animal Barn Pen
- Animal Yard or Shelter
- Silo
- Barn Gutter
- Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
- Other Manure Storage
- Ditch
- Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method			Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)	From (ft.)	To (ft.)		
10	0	80	<input type="checkbox"/> --1. Rotary - Mud Circulation-----	<input type="checkbox"/>
			<input checked="" type="checkbox"/> --2. Rotary - Air-----	<input type="checkbox"/>
			<input type="checkbox"/> --3. Rotary - Air and Foam-----	<input type="checkbox"/>
			<input type="checkbox"/> --4. Drill-Through Casing Hammer	
			<input type="checkbox"/> --5. Reverse Rotary	
			<input type="checkbox"/> --6. Cable-tool Bit 10 in. dia-----	<input type="checkbox"/>
			<input type="checkbox"/> 7. Dual Rotary	<input type="checkbox"/>
			<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. 13 depth (ft)	
			Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			If no, why not?	

8. Geology Type, Caving/Noncaving, Color, Hardness, etc.	From (ft.)	To (ft.)
--C- CLAY	0	12
--L- GALENA LIMESTONE	12	173

6. Casing, Liner, Screen Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6 A-53B	19.45 LBS/FT IPSCO T&C	0	80

9. Static Water Level ft. above ground surface 65 ft. below ground surface	11. Well is: <input checked="" type="checkbox"/> Above Grade 18 in. <input type="checkbox"/> Below Grade
10. Pump Test Pumping Level 85 ft. below surface Pumping at 20 GPM for .5 hours	Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

7. Grout or Other Sealing Material. Method: Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
PRESS PUMPED TREMIE NEATA CEMENT	0	80	40

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: NA	
13. Signature of the Well Constructor or Supervisory Driller JF	Date signed 01/19/2007
Signature of Drill Rig Operator (Mandatory unless same as above) Date signed	

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

Well Construction Report For
WISCONSIN UNIQUE WELL NUMBER SY882

State of WI - Private Water Systems - DG/2 Form 3300-77A
 Department of Natural Resources, Box 7921 (R 8/00)
 Madison, WI 53707
 Please type or Print using a black Pen
 Please Use Decimals Instead of Fractions.

Property Owner JENAMANN, DANIEL		Telephone Number 608-744-2039	
Mailing Address 1339 ST ROSE RD			
City CUBA CITY		State WI	Zip Code 53807
County of Well Location Grant	County Well Permit No. W	Well Completion Date 05/23/2005	

1. Well Location
 Town City Village
 of **SMELSER**

Grid or Street Address or Road Name and Number

Subdivision Name Lot # Block #

Well Constructor (Business Name) CORPIAN WELL DRILLING INC	License # 61	Facility ID Number (Public Wells)
Address 4747 OLD C RD		Public Well Plan Approval # W--
City BOSCOBEL	State WI	Zip Code 53805
Date of Approval (mm/dd/yyyy)		
Hicap Permanent well #	Common Well #	Specific Capacity .1 gpm/ft

Gov't Lot # or **NE** 1/4 of **NE** 1/4 of
 Section **28** T **2** N; R **1** E W
 Latitude Deg. Min. Longitude Deg. Min.

2. Well Type New Replacement Reconstruction
 Lat/Long Method **GPS008**
 of previous unique well # constructed in Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and/or (e.g. barn, restaurant, church, school, industry, etc.)
 High capacity Well? Yes No
 Property? Yes No

Drilled Driven Point Jetted Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? Yes No
 Well located within 1,200 feet of a quarry? Yes No If yes, distance in feet from quarry:
 Well located in floodplain? Yes No
 Distance in Feet from Well to Nearest:
 1. Landfill
20 2. Building Overhang
>60 3. Septic Holding Tank
>60 4. Sewage Absorption Unit
 5. Nonconforming Pit
 6. Buried Home Heating Oil Tank
 7. Buried Petroleum Tank
 8. Shoreline Swimming Pool

9. Downspout/Yard Hydrant
 10. Privy
 11. Foundation Drain to Clearwater
 12. Foundation Drain to Sewer
 13. Building Drain
 Cast Iron or Plastic Other
 14. Building Sewer Gravity Pressure
 Cast Iron or Plastic Other
 15. Collector or Street Sewer:
 Sanitary units in. diam.
 Storm =< 6 > 6
 16. Clearwater Sump
 17. Wastewater Sump
 18. Paved Animal Barn Pen
 19. Animal Yard or Shelter
 20. Silo
 21. Barn Gutter
 22. Manure Pipe Gravity Pressure
 Cast Iron or Plastic Other
 23. Other Manure Storage
 24. Ditch
 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method		Upper Enlarged Drillhole	Lower Open Bedrock
Dia. (in.)	From (ft.)	To (ft.)	
10	0	84	<input type="checkbox"/> ---1. Rotary - Mud Circulation----- <input type="checkbox"/>
			<input checked="" type="checkbox"/> ---2. Rotary - Air----- <input type="checkbox"/>
6	84	160	<input checked="" type="checkbox"/> ---3. Rotary - Air and Foam----- <input checked="" type="checkbox"/>
			<input type="checkbox"/> ---4. Drill-Through Casing Hammer
			<input type="checkbox"/> ---5. Reverse Rotary
			<input type="checkbox"/> ---6. Cable-tool Bit in. dia----- <input type="checkbox"/>
			<input type="checkbox"/> 7. Dual Rotary <input type="checkbox"/>
			<input checked="" type="checkbox"/> 8. Temp. Outer Casing 10 in. dia. 11 depth (ft) Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, why not?

8. Geology	From (ft.)	To (ft.)
--I- DIRT	0	11
--L- LIMEROCK & SOAPSONTE	11	78
--L- LIMEROCK	78	160

6. Casing, Liner, Screen	Material, Weight, Specification	From (ft.)	To (ft.)
6 NEW BLACK STEEL PLAIN END WHEATLAND ASTMA53B 6X21 #18.97		0	84
Dia. (in.)	Screen type, material & slot size		

9. Static Water Level
 ft. above ground surface
77 ft. below ground surface

11. Well is: Above Grade
24 in. Below Grade
 Developed? Yes No
 Disinfected? Yes No
 Capped? Yes No

10. Pump Test
 Pumping Level **145** ft. below surface
 Pumping at **10** GPM for **24** hours

7. Grout or Other Sealing Material. Method:	From (ft.)	To (ft.)	# Sacks Cement
Method: TREMIE PUMPED Kind of Sealing Material NEAT CEMENT	0	84	28

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
 Yes No If no, explain: **NONE**

13. Signature of the Well Constructor or Supervisory Driller **SAA** Date signed **06/14/2005**
 Signature of Drill Rig Operator (Mandatory unless same as above) **SAA** Date signed **06/14/2005**

Make additional comments on reverse side about geology, additional screens, water quality, etc. Variance issued Yes No

AUG 18 1976

State of Wisconsin
Department of Natural Resources
Box 450
Madison, Wisconsin 53701

NOTE:

White Copy - Division's Copy
Green Copy - Driller's Copy
Yellow Copy - Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15
Rev. 10-75

1. COUNTY Grant CHECK (✓) ONE: Town Village City Name Smelser

2. LOCATION 1/4 Section SW Section 21 Township TAN Range R1W 3. NAME OWNER AGENT AT TIME OF DRILLING CHECK (✓) ONE Steve Jones
OR - Grid or Street No. Street Name ADDRESS R2

AND - If available subdivision name, lot & block No. POST OFFICE Cuba City, Wis

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain	Sanitary Bldg. Sewer	Floor Drain Connected To:	Storm Bldg. Drain	Storm Bldg. Sewer
	C.I. Other	C.I. Other	C.I. Sewer Other Sewer	C.I. Other	C.I. Other

Street Sewer	Other Sewers	Foundation Drain Connected to:	Sewage Sump	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit
San. Storm	C.I. Other	Sewer Sewage Sump Clearwater Dr.	C.I. Other		<u>50</u>		Seepage Pit Seepage Bed Seepage Trench <u>6.5</u>

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well Pump Tank	Nonconforming Existing							

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)
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5. Well is intended to supply water for: Trailer

9. FORMATIONS

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
<u>10</u>	<u>Surface</u>	<u>120</u>			
<u>6</u>	<u>120</u>	<u>124</u>			

Kind	From (ft.)	To (ft.)
<u>Clay</u>	<u>Surface</u>	<u>30</u>
<u>galena lime</u>	<u>30</u>	<u>120</u>
<u>Hay Rock</u>	<u>120</u>	<u>124</u>

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
<u>6</u>	<u>new steel 19.75</u>	<u>Surface</u>	<u>120</u>
	<u>A-53 youngtown</u>		

10. TYPE OF DRILLING MACHINE USED

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
<u>Cement</u>	<u>Surface</u>	<u>153</u>

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary-hammer w/drilling mud & air	<input type="checkbox"/> Jetting with
<input type="checkbox"/> Rotary-air w/drilling mud	<input checked="" type="checkbox"/> Rotary-hammer & air	<input type="checkbox"/> Air
<input type="checkbox"/> Rotary-w/drilling mud	<input type="checkbox"/> Reverse Rotary	<input type="checkbox"/> Water

Well construction completed on 7-14 1976

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 30 GPM
Depth from surface to normal water level 55 Ft.
Depth of water level when pumping 60 Ft. Stabilized Yes No

Well is terminated 8 inches above below final grade
Well disinfected upon completion Yes No
Well sealed watertight upon completion Yes No

Water sample sent to Madison laboratory on Aug 12 1976

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature 842
Ralph Faherty
Registered Well Driller

Complete Mail Address
FAHERTY DRILLING CO., INC.
1120 Broadway
PLATTEVILLE, WISCONSIN 53818

NOTE:

White Copy - Division's Copy
Green Copy - Driller's Copy
Yellow Copy - Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15
Rev. 10-75

FEB 18 1977

1. COUNTY <u>Grant</u>		CHECK (✓) ONE: <input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City		Name <u>Smelser</u>	
2. LOCATION OR - Grid or Street No. <u>SE 21</u> Section <u>21</u> Township <u>T2N</u> Range <u>R1W</u>		3. NAME <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> AGENT AT TIME OF DRILLING		CHECK (✓) ONE <u>Stone Jones</u>	
AND - If available subdivision name, lot & block No.		ADDRESS <u>Rd</u>		POST OFFICE <u>Oshtemo City</u>	
4. Distance in feet from well to nearest: (Record answer in appropriate block)		Building		Sanitary Bldg. Drain	
		Sanitary Bldg. Sewer		Floor Drain Connected To:	
		C.I. Other		C.I. Sewer Other Sewer	
		Sanitary Bldg. Drain		Storm Bldg. Drain	
		C.I. Other		C.I. Other	
Street Sewer		Other Sewers		Foundation Drain Connected to:	
San. Storm C.I. Other		Sewer		Sewage Sump	
		Clearwater Dr.		Clearwater Sump	
				Clearwater Sump	
Privy		Pet Waste Pit		Pit: Nonconforming Existing	
				Well	
				Pump	
				Tank	
Temporary Manure Stack		Watertight Liquid Manure Tank		Solid Manure Storage Structure	
				Subsurface Gasoline or Oil Tank	
				Waste Pond or Land Disposal Unit (Specify Type)	
				Other (Give Description)	
5. Well is intended to supply water for: <u>Home</u>		9. FORMATIONS			
6. DRILLHOLE		Kind		From (ft.) To (ft.)	
Dia. (in.) From (ft.) To (ft.) Dia. (in.) From (ft.) To (ft.)		<u>Clay</u>		Surface <u>30</u>	
<u>10</u> Surface <u>120</u>		<u>Galena Rock</u>		<u>30</u> <u>120</u>	
<u>6</u> <u>120</u> <u>124</u>		<u>Gray Rock</u>		<u>120</u> <u>124</u>	
7. CASING, LINER, CURBING AND SCREEN		Material, Weight, Specification & Method of Assembly			
Dia. (in.) From (ft.) To (ft.)		From (ft.) To (ft.)			
<u>6" New Steel to c. 19.45</u>		Surface <u>120</u>			
<u>A-53 youngstown</u>					
8. GROUT OR OTHER SEALING MATERIAL		Kind		From (ft.) To (ft.)	
<u>Cement</u>		Surface		<u>120</u>	
11. MISCELLANEOUS DATA		Yield Test: <u>2</u> Hrs. at <u>30</u> GPM		Well construction completed on <u>7-14</u> 19 <u>76</u>	
Depth from surface to normal water level <u>55</u> Ft.		Well is terminated <u>8</u> inches		<input checked="" type="checkbox"/> above final grade <input type="checkbox"/> below	
Depth of water level when pumping <u>60</u> Ft. Stabilized <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Well disinfected upon completion		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Water sample sent to <u>Madison</u> laboratory on <u>Feb 10</u> 19 <u>77</u>		Well sealed watertight upon completion		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.		PROPERTY DRILLERS CO., INC. 1120 Baring PLATTVILLE, WISCONSIN 53818			
Signature <u>Ralph J. Faherty</u> GR843 Registered Well Driller		Complete Mail Address			