REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

October 16, 2019

Wisconsin Department of Natural Resources
Attn: Ms. Carrie Stoltz
107 Sutliff Avenue
Rhinelander, WI 54501

Subject:

Update Report
Karen's Korner
8816 County Road E
Bennett, WI 54873
BRRTS #03-16-544587
PECFA #54873-8259-16

Dear Ms. Stoltz:

Enclosed please find a copy of the above-mentioned Update Report. This report documents the completion of the recently approved scope of services which included redeveloping and resurveying the well network and a single round of groundwater sampling. Based on current site conditions, REI is recommending that this site be directed to the case closure review process.

If you have any questions or comments, please contact our office at (715) 675-9784.

Sincerely,
REI Engineering, Inc.

David N. Larsen P.G.
Senior Hydrogeologist/Project Manager

CC: Ms. April Lacostik, 8816 County Road E, Bennett, WI 54873

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Update Report
Karen's Korner
8816 County Road E
Bennett, WI 54873

BRRTS #03-16-544587
PECFA #54873-8259-16
REI Project #5619

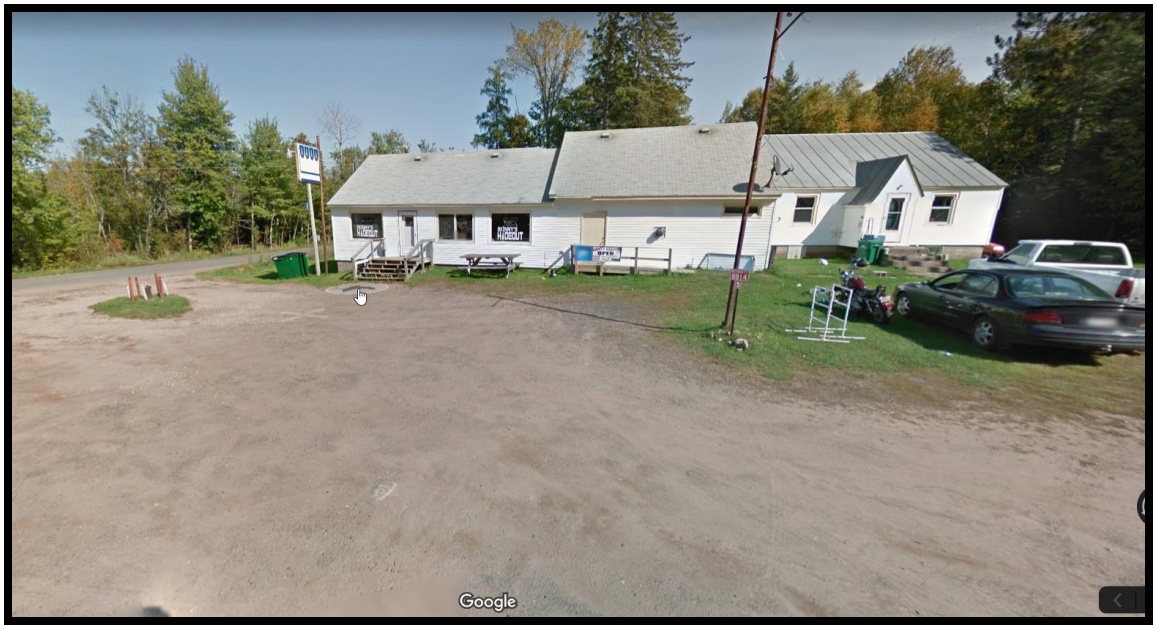
COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

KAREN'S KORNER
8816 COUNTY ROAD E
BENNETT, WI 54873

BRRTS#03-16-544587
PECFA#54873-8259-16

REI #5619



PREPARED FOR:

April Lakostik
8816 County Road E
Bennett, WI 54873

OCTOBER 2019

UPDATE REPORT

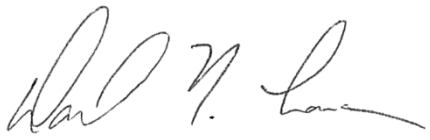
KAREN'S KORNER
8816 COUNTY ROAD E
BENNETT, WI 54873

BRRTS#03-16-544587
PECFA#54873-8259-16

REI #5619

The recommendations contained in this report are based on the information obtained from our study of the site and were arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location.

"I, David N. Larsen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Admn. Code, and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



Hydrogeologist — October 16, 2019 Date

"I, Brian J. Bailey, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Environmental Scientist — October 16, 2019 Date

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KAREN'S KORNER
8816 COUNTY ROAD E
BENNETT, WI 54873

BRRTS#03-16-544587
PECFA#54873-8259-16

REI #5619

1.0 WORK PERFORMED THIS PERIOD

REI is submitting an Update Report covering the site activities that have taken place at the above referenced location. Wisconsin Department of Natural Resources (WDNR) approved site work included sub-slab vapor sampling, redevelopment and resurvey of the existing monitoring wells, a single groundwater sampling event and report. The location of the site is shown on Figure 1. The location of the existing monitoring wells are presented in Figure 2a.

2.0 SITE LOCATION AND INVESTIGATION HISTORY

The Karen's Korner property is located at 8816 County Road E in the NW ¼ of the NW ¼ of Section 26 Township 46 North, Range 21 West, Town of Bennett, Douglas, County, Wisconsin (Figure 1). Figures 2a-b presents the locations of the monitoring well network and site boundaries. Following the completion of the case closure submittal in 2014, the project had stalled due to non-payment of required case closure review fees. The fees were satisfied in 2019 and site work resumed.

3.0 SUMMARY OF WORK

3.1 Groundwater Sampling and Analytical Results

The single approved round of groundwater sampling was completed by REI personnel on September 17, 2019. Each well was redeveloped prior to sampling. Well development forms are included in Appendix A. All development water waste generated during this scope of services was temporarily stored in 55-gallon WDOT

approved drums before final disposal at the City of Wausau waste water treatment facility.

Water elevation measurements from the REI sampling events are presented in Table 1. Groundwater samples were submitted to a state certified laboratory for analysis. Groundwater analytical results are summarized in Tables 2a-g. The laboratory analytical report is included as Appendix B.

The results from the groundwater sampling events are summarized below for each monitoring well.

MW1: Was not able to be sampled. Analytical results have been historically non-detect.
MW2: Analytical results have been historically non-detect.
MW3: Analytical results continue to decrease and all analytes were below threshold limits on September 17, 2019.
MW4: Analytical results have been below threshold limits or non-detect following the 2012 soil excavation.
MW5: Analytical results have been historically non-detect.
MW6: Analytical results have been historically non-detect.
MW7: Analytical results have been historically non-detect.
PZ1: Analytical results have been historically non-detect.
Potable Well: Analytical results have been historically non-detect.

3.2 Vapor Intrusion Screening Analysis

Vapor intrusion screening is used to determine the potential for vapor migration from a contaminated property. Vapor intrusion of petroleum compounds most often occurs when free phase petroleum compounds are located near building foundations, where petroleum impacted groundwater has entered a building, or when petroleum contaminated groundwater is in contact with a building foundation.

Vapor intrusion from petroleum releases tend to occur near the source of the petroleum release and are often detected by smelling petroleum odors in the building. When petroleum odors are not detected, vapor intrusion concerns can be dismissed if there is more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building.

An investigation into the potential for vapor migration should be completed in situations when there is not more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building or any of the following conditions:

- **Free phase product that has the potential for off gassing vapors underlies a building or is within 30 feet, horizontally or vertically of a building foundation.**

  Free product has never been observed on the property.
- **Petroleum contaminated soils with the potential for off gassing vapors are within 5 feet or less of a building foundation.**

  No known residual soil contamination is located within five (5) feet of the building foundation.
- **Benzene concentrations in groundwater underlying a building is >1,000 ppb and there is less than 20 feet of unsaturated soil between the groundwater and the building.**

  Benzene concentrations in the groundwater do not exceed 1,000 ppb.
- **Groundwater contaminated with petroleum product above Wisconsin's groundwater preventive action limit (PAL) is entering a building or in contact with a buildings foundation or is in water intercepted by the buildings foundation drainage system, including sumps.**

  A sump pump is located on the property and was sampled in 2011. The results were non detect for all analyzed parameters. No known petroleum impacted groundwater is entering the building.

- **Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (utility lines, fractured bedrock, etc.) into a building.**

  Based on residual soil and groundwater contaminant concentrations, petroleum vapors are likely not present in the soils above the shallow water table.

Based on the recorded depth to groundwater, soil types and contaminants of concern, it can be concluded that the threat for vapor migration from the petroleum release at the Karen's Korner site is not a possibility and further investigation into vapor migration is not warranted. Additionally, the WDNR conducted an internal review of the vapor intrusion pathways and determined that further investigation into vapor intrusion was not necessary. A copy of the documentation is included in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

REI has determined that no additional investigative work is necessary. REI is currently recommending that this investigation be directed to the case closure review process. A lien for the case closure fees has already been placed on the property.

Table 1
Depth to Water and Water Level Elevations
Karen's Korner
Bennett, WI

Depth to Water (feet) below Reference Elevation

Date	MW1	MW2	MW3	MW4	MW4R	MW5	MW6	MW7	PZ1
7/23/2008	7.82	6.02	6.38	6.33					6.10
4/29/2010	7.37	6.15	5.58	6.40					5.77
7/25/2010	6.97	5.83	5.26	6.24					5.51
4/28/2011	3.86	4.13	3.57	4.28					3.87
6/7/2011						3.28	4.47		
11/14/2011	7.63	6.60	5.23	6.21		4.57	7.03	6.85	5.03
9/13/2012	9.01	7.83	6.54	Abandoned		6.36	7.75	6.78	6.50
9/20/2012					7.79				
5/8/2013	7.38	5.90	5.18		4.17	3.59	5.60	5.23	5.47
8/19/2013	8.26	6.66	6.04		4.81	5.93	7.51	6.47	6.13
11/13/2013	7.19	5.68	5.11		4.78	4.31	5.70	5.27	5.26
9/17/2019		4.80	4.63		2.99	3.60	4.80	4.67	4.19

Measuring Point Elevations (top of well casing)

Elevations provided by others

Initial Survey	98.13	96.04	94.92	96.02		95.59	94.64		94.78
Resurvey (11-14-11)								99.83	
Resurvey (9-20-12)	103.45	101.35	100.11		101.36	99.99	101.02	99.83	100.00
Resurvey (9-17-19)		101.52	100.21		101.42	99.96	101.17	99.98	100.00

Ground Surface Elevation

Initial Survey	98.84	96.62	95.62	96.59		95.96	94.26		95.61
Resurvey (11-14-11)								97.42	
Resurvey (9-20-12)	103.95	101.92	100.59		101.80	100.42	98.56	97.42	100.42

Depth to Water (feet) below Top of Casing

Average	7.28	5.96	5.35	5.89	4.91	4.52	6.12	5.88	5.38
Maximum	9.01	7.83	6.54	6.40	7.79	6.36	7.75	6.85	6.50
Minimum	3.86	4.13	3.57	4.28	2.99	3.28	4.47	4.67	3.87
Range	5.15	3.70	2.97	2.12	4.80	3.08	3.28	2.18	2.63

Water Level Elevation (feet MSL)

Date	MW1	MW2	MW3	MW4	MW4R	MW5	MW6	MW7	PZ1
7/23/2008	90.31	90.02	88.54	89.69					88.68
4/29/2010	90.76	89.89	89.34	89.62					89.01
7/25/2010	91.16	90.21	89.66	89.78					89.27
4/28/2011	94.27	91.91	91.35	91.74					90.91
6/7/2011						92.31	90.17		
11/14/2011	90.50	89.44	89.69	89.81		91.02	87.61	92.98	89.75
9/13/2012	94.44	93.52	88.38			89.23	86.89	93.05	88.28
9/20/2012					93.57				
5/8/2013	96.07	95.45	94.93		97.19	96.40	95.42	94.60	94.53
8/19/2013	95.19	94.69	94.07		96.55	94.06	93.51	93.36	93.87
11/13/2013	96.26	95.67	95.00		96.58	95.68	95.32	94.56	94.74
9/17/2019		96.72	95.58		98.43	96.36	96.37	95.31	95.81

Table 2a
Summary of Groundwater Analytical Results
Soil Borings
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	Icecor					
			Sample Location -->	SB2	SB3	SB5	SB6	SB7	SB8
			Date -->	11/6/2006	11/6/2006	11/6/2006	11/6/2006	11/6/2006	11/6/2006
	ES	PAL	Units						
GRO			µg/l	NS	55.1	< 50	< 50	< 50	< 50
VOC Parameters									
Benzene	5	0.5	µg/l	**103**	*0.48**	< 0.15	< 0.15	*1.18*	0.22*
Toluene	800	160	µg/l	*743*	4.72	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	*210*	1.59	< 0.10	0.11*	0.25*	0.25*
Xylenes (mixed isomers)	2,000	400	µg/l	433.10	2.91*	< 0.40	< 0.40	< 0.40	< 0.40
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Trimethylbenzenes (mixed isomers)	480	96	µg/l	67.8	0.28*	< 0.15	< 0.15	0.15*	0.15*
1,2-Dichloropropane	5	0.5	µg/l	*1.97*	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
2-Chlorotoluene			µg/l	28.80	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
4-Isopropyltoluene			µg/l	4.76	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Butylbenzene			µg/l	7.42	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Isopropylbenzene			µg/l	22.70	**0.12***	< 0.10	< 0.10	< 0.10	< 0.10
Propylbenzene			µg/l	43.00	0.26*	< 0.10	< 0.10	< 0.10	< 0.10
sec-Butylbenzene			µg/l	2.56	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2b
Summary of Groundwater Analytical Results
MW1
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	Icecor			REI Engineering, Inc.							
			Date -->	7/23/2008	4/29/2010	7/25/2010	4/28/2011	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units											
GRO			µg/l	< 50	NA	< 50	NA	NA		NA	NA	NA	NA	
VOC Parameters														
Benzene	5	0.5	µg/l	< 0.20	< 0.20	< 0.31	< 0.39	< 0.39	**Soil**	< 0.39	< 0.39	< 0.34	< 0.34	**Truck**
Toluene	800	160	µg/l	< 0.40	< 0.40	< 0.37	< 0.42	< 0.42	**Excavation**	< 0.42	< 0.42	< 0.34	< 0.34	**Parked**
Ethylbenzene	700	140	µg/l	< 0.20	< 0.20	< 0.50	< 0.41	< 0.41	**Completed**	< 0.41	< 0.41	< 0.34	< 0.34	**Over**
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.20	< 0.20	< 0.62	< 0.87	< 0.87		< 0.87	< 0.87	< 0.71	< 0.71	**Well**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50	< 0.50	< 0.30	< 0.38	< 0.38		< 0.38	< 0.38	< 0.37	< 0.37	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.20	< 0.20	< 0.44	< 0.43	< 0.43		< 0.43	< 0.43	< 0.36	< 0.36	**Not**
Naphthalene	100	10	µg/l	< 1.0	< 1.0	NA	NA	NA		< 0.40	< 0.40	< 0.37	< 0.37	**Sampled**
Chloroform	6	0.6	µg/l	< 0.20	0.33*	NA	NA	NA		NA	NA	NA	NA	
Inorganics														
Nitrate+Nitrite (as N)	10	2	mg/l	0.00	0.00	0.00	NA	NA		NA	NA	NA	NA	
Sulfate	250	125	mg/l	0.70	0.00	0.50	NA	NA		NA	NA	NA	NA	
Lead (Dissolved)	15	1.5	µg/l	< 0.60	NA	NA	NA	NA		NA	NA	NA	NA	
Iron (Dissolved)	0.3	0.15	mg/l	**1.00**	**1.00**	**1.50**	NA	NA		NA	NA	NA	NA	
Field Measurements														
Temperature			°F	60.08	58.64	59.36	NA	NA		NA	NA	NA	NA	
Conductivity			µS/cm	512	523	551	NA	NA		NA	NA	NA	NA	
Dissolved Oxygen			mg/l	6.73	7.87	6.65	NA	NA		NA	NA	NA	NA	
pH				6.25	7.02	7.22	NA	NA		NA	NA	NA	NA	
Redox Potential			mV	NA	NA	NA	NA	NA		NA	NA	NA	NA	

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2c
Summary of Groundwater Analytical Results
MW2
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	Icecor			REI Engineering, Inc.							
			Date -->	7/23/2008	4/29/2010	7/25/2010	4/28/2011	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units											
GRO			µg/l	< 50	NA	< 50	NA	NA		NA	NA	NA	NA	NA
VOC Parameters														
Benzene	5	0.5	µg/l	< 0.20	< 0.20	< 0.31	< 0.39	< 0.39	**Soil**	< 0.39	< 0.39	< 0.34	< 0.34	< 0.25
Toluene	800	160	µg/l	< 0.40	< 0.40	< 0.37	< 0.42	< 0.42	**Excavation**	< 0.42	< 0.42	< 0.34	< 0.34	< 0.17
Ethylbenzene	700	140	µg/l	< 0.20	< 0.20	< 0.50	< 0.41	< 0.41	**Completed**	< 0.41	< 0.41	< 0.34	< 0.34	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.20	< 0.20	< 0.62	< 0.87	< 0.87		< 0.87	< 0.87	< 0.71	< 0.71	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50	< 0.50	< 0.30	< 0.38	< 0.38		< 0.38	< 0.38	< 0.37	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.20	< 0.20	< 0.44	< 0.43	< 0.43		< 0.43	< 0.43	< 0.36	< 0.36	< 0.87
Naphthalene	100	10	µg/l	< 1.0	< 1.0	NA	NA	NA		< 0.40	< 0.40	< 0.37	< 0.37	< 1.2
1,1,1-Trichloroethane	200	40	µg/l	0.49*	0.64*	NA	NA	NA		NA	NA	NA	NA	NA
Chloromethane	3	0.3	µg/l	0.42*	< 0.40	NA	NA	NA		NA	NA	NA	NA	NA
Inorganics														
Nitrate+Nitrite (as N)	10	2	mg/l	0.00	0.00	0.00	NA	NA		NA	NA	NA	NA	NA
Sulfate	250	125	mg/l	0.20	0.10	0.00	NA	NA		NA	NA	NA	NA	NA
Lead (Dissolved)	15	1.5	µg/l	*3.20*	NA	NA	NA	NA		NA	NA	NA	NA	NA
Iron (Dissolved)	0.3	0.15	mg/l	**7.00**	**6.50**	**7.00**	NA	NA		NA	NA	NA	NA	NA
Field Measurements														
Temperature			°F	62.96	59.36	62.24	NA	NA		NA	NA	NA	NA	57.6
Conductivity			µS/cm	1,355	1,211	1,723	NA	NA		NA	NA	NA	NA	1,679
Dissolved Oxygen			mg/l	3.20	3.45	3.33	NA	NA		NA	NA	NA	NA	0.45
pH				5.96	6.96	7.25	NA	NA		NA	NA	NA	NA	5.86
Redox Potential			mV	NA	NA	NA	NA	NA		NA	NA	NA	NA	229.1

Notes:
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PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2d
Summary of Groundwater Analytical Results
MW3
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	Icecor			REI Engineering, Inc.							
			Date -->	7/23/2008	4/29/2010	7/25/2010	4/28/2011	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units											
GRO			µg/l	203	NA	510	NA	NA		NA	NA	NA	NA	NA
VOC Parameters														
Benzene	5	0.5	µg/l	**10.4**	**7.33**	**57**	**27.3**	**61.7**	**Soil**	**22.4**	**5.9**	**9.7**	**6.3**	0.34*
Toluene	800	160	µg/l	1.47	< 0.40	17.3	3.4	55.5	**Excavation**	0.64	18	0.54*	1.1	0.46*
Ethylbenzene	700	140	µg/l	13.3	1.07	38.8	25.5	112	**Completed**	10.7	21.2	3.4	18.3	5.8
Xylenes (mixed isomers)	2,000	400	µg/l	15.87	4.67	18.66	18.1	162.1		6.70	19.70	0.85*	8.40	5.4
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50	< 0.50	1.85*	2.0	1.8		< 0.38	< 0.38	< 0.37	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	9.38	7.2	23.03	8.9	58.3		7.8	7.16	0.42*	6.4	5.4
Naphthalene	100	10	µg/l	< 1.0	7.48	NA	*10.1*	*29.1*		4.0	4.6	3.7	7.8	< 1.2
1,1,1-Trichloroethane	200	40	µg/l	< 0.20	< 0.50	NA	NA	NA		NA	NA	NA	NA	NA
Chloromethane	3	0.3	µg/l	*0.59**	< 0.40	NA	NA	NA		NA	NA	NA	NA	NA
Isopropylbenzene			µg/l	1.84	< 0.20	NA	NA	NA		NA	NA	NA	NA	NA
Inorganics														
Nitrate+Nitrite (as N)	10	2	mg/l	0.00	0.00	0.00	NA	NA		NA	NA	NA	NA	NA
Sulfate	250	125	mg/l	0.00	0.10	0.10	NA	NA		NA	NA	NA	NA	NA
Lead (Dissolved)	15	1.5	µg/l	< 0.60	NA	NA	NA	NA		NA	NA	NA	NA	NA
Iron (Dissolved)	0.3	0.15	mg/l	**5.00**	**6.00**	**7.00**	NA	NA						
Field Measurements														
Temperature			°F	60.26	58.82	61.16	NA	NA		NA	NA	NA	NA	61.6
Conductivity			µS/cm	1,128	1,023	1,523	NA	NA		NA	NA	NA	NA	813
Dissolved Oxygen			mg/l	3.80	3.45	3.33	NA	NA		NA	NA	NA	NA	0.8
pH				6.26	7.13	6.88	NA	NA		NA	NA	NA	NA	6.14
Redox Potential			mV	NA	NA	NA	NA	NA		NA	NA	NA	NA	218.3

Notes:
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PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2e
Summary of Groundwater Analytical Results
MW4/MW4R
Karen's Korner
Bennett, Wisconsin

Sample Location -->				MW4							MW4R				
Sampled By -->				Icecor			REI				REI Engineering, Inc.				
Date -->				7/23/2008	4/29/2010	7/25/2010	4/28/2011	11/14/2011	9/12/2012	9/13/2012	9/20/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units												
GRO			µg/l	5,090	NA	31,100	NA	NA			NA	NA	NA	NA	NA
VOC Parameters															
Benzene	5	0.5	µg/l	**107**	**54.1**	**146***	**65.2**	**31.3**	**MW4**	**Soil**	< 0.39	< 0.39	< 0.34	< 0.34	< 0.25
Toluene	800	160	µg/l	*612*	**2,330**	**4,010**	**3,160**	*635*	**Abandoned**	**Excavation**	3.3	< 0.42	< 0.34	< 0.34	< 0.17
Ethylbenzene	700	140	µg/l	*382*	**1,850**	**1,740**	**1,820**	**876**		**Completed**	0.48*	< 0.41	< 0.34	< 0.34	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	*816*	**11,220**	**10,220**	**12,320**	**4,510**			5.2	1.7*	< 0.71	< 0.71	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 5.0	< 5.0	< 30	11.1	< 9.5			< 0.38	< 0.38	< 0.37	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*416*	**6,120**	**3,854**	**4,123**	**1,659**			0.78*	0.78*	< 0.36	< 0.36	< 0.87
Naphthalene	100	10	µg/l	*78.3*	**315**	NA	**400**	**217**			0.51*	< 0.40	< 0.37	< 0.37	< 1.2
1,1,1-Trichloroethane	200	40	µg/l	< 2.0	< 5.0	NA	NA	NA			NA	NA	NA	NA	
Chloromethane	3	0.3	µg/l	9.16*	< 4.0	NA	NA	NA			NA	NA	NA	NA	NA
Isopropylbenzene			µg/l	33.7	177	NA	NA	NA			NA	NA	NA	NA	NA
4-Isopropyltoluene			µg/l	5.85*	< 4.0	NA	NA	NA			NA	NA	NA	NA	NA
Butylbenzene			µg/l	63.5	< 4.0	NA	NA	NA			NA	NA	NA	NA	NA
Inorganics															
Nitrate+Nitrite (as N)	10	2	mg/l	0.00	0.00	0.00	NA	NA			NA	NA	NA	NA	NA
Sulfate	250	125	mg/l	1.00	1.10	1.20	NA	NA			NA	NA	NA	NA	NA
Lead (Dissolved)	15	1.5	µg/l	< 0.60	NA	NA	NA	NA			NA	NA	NA	NA	NA
Iron (Dissolved)	0.3	0.15	mg/l	**1.50**	**1.50**	**1.50**	NA	NA			NA	NA	NA	NA	NA
Field Measurements															
Temperature			°F	54.32	55.76	58.1	NA	NA			NA	NA	NA	NA	61.6
Conductivity			µS/cm	555.00	515	625	NA	NA			NA	NA	NA	NA	568.1
Dissolved Oxygen			mg/l	5.10	5.78	6.44	NA	NA			NA	NA	NA	NA	1.68
pH				6.52	7.44	7.05	NA	NA			NA	NA	NA	NA	6.52
Redox Potential			mV	NA	NA	NA	NA	NA			NA	NA	NA	NA	203.5

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2f
Summary of Groundwater Analytical Results
MW5
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	REI Engineering, Inc.							
			Date -->	6/7/2011	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units								
VOC Parameters											
Benzene	5	0.5	µg/l	0.25*	< 0.39	**Soil**	< 0.39	< 0.39	< 0.34	< 0.34	< 0.25
Toluene	800	160	µg/l	*1.8**	< 0.42	**Excavation**	< 0.42	< 0.42	< 0.34	< 0.34	< 0.17
Ethylbenzene	700	140	µg/l	*0.75**	< 0.41	**Completed**	< 0.41	< 0.41	< 0.34	< 0.34	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	*2.7**	< 0.87		< 0.87	< 0.87	< 0.71	< 0.71	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.23	< 0.38		< 0.38	< 0.38	< 0.37	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*2.04**	< 0.43		< 0.43	< 0.43	< 0.36	< 0.36	< 0.87
Naphthalene	100	10	µg/l	*1.3**	< 0.40		< 0.40	< 0.40	< 0.37	< 0.37	< 1.2
Field Measurements											
Temperature			°F	NA	NA		NA	NA	NA	NA	59.9
Conductivity			µS/cm	NA	NA		NA	NA	NA	NA	538.2
Dissolved Oxygen			mg/l	NA	NA		NA	NA	NA	NA	4.49
pH				NA	NA		NA	NA	NA	NA	6.33
Redox Potential			mV	NA	NA		NA	NA	NA	NA	215.2

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2g
Summary of Groundwater Analytical Results
MW6
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	REI Enginering, Inc.							
			Date -->	7/23/2008	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units								
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.25	< 0.39	**Soil**	< 0.39	< 0.39	< 0.34	< 0.34	< 0.25
Toluene	800	160	µg/l	*1.6**	< 0.42	**Excavation**	< 0.42	< 0.42	< 0.34	< 0.34	< 0.17
Ethylbenzene	700	140	µg/l	*0.82**	< 0.41	**Completed**	< 0.41	< 0.41	< 0.34	< 0.34	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	*2.8**	< 0.87		< 0.87	< 0.87	< 0.71	< 0.71	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.23	< 0.38		< 0.38	< 0.38	< 0.37	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*2.34*	< 0.43		< 0.43	< 0.43	< 0.36	< 0.36	< 0.87
Naphthalene	100	10	µg/l	*1.2**	< 0.40		< 0.40	< 0.40	< 0.37	< 0.37	< 1.2
Field Measurements											
Temperature			°F	NA	NA		NA	NA	NA	NA	58.7
Conductivity			µS/cm	NA	NA		NA	NA	NA	NA	1,852
Dissolved Oxygen			mg/l	NA	NA		NA	NA	NA	NA	2.0
pH				NA	NA		NA	NA	NA	NA	5.97
Redox Potential			mV	NA	NA		NA	NA	NA	NA	216.1

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2h
Summary of Groundwater Analytical Results
MW7
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	REI Engineering, Inc.						
			Date -->	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units							
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.39	**Soil**	< 0.39	< 0.39	< 0.34	< 0.34	< 0.25
Toluene	800	160	µg/l	< 0.42	**Excavation**	< 0.42	< 0.42	< 0.34	< 0.34	< 0.17
Ethylbenzene	700	140	µg/l	< 0.41	**Completed**	< 0.41	< 0.41	< 0.34	< 0.34	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.87		< 0.87	< 0.87	< 0.71	< 0.71	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.38		< 0.38	< 0.38	< 0.37	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.43		< 0.43	< 0.43	< 0.36	< 0.36	< 0.87
Naphthalene	100	10	µg/l	< 0.40		< 0.40	< 0.40	< 0.37	< 0.37	< 1.2
Field Measurements										
Temperature			°F	NA	NA	NA	NA	NA	NA	57.4
Conductivity			µS/cm	NA	NA	NA	NA	NA	NA	568.1
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	1.68
pH				NA	NA	NA	NA	NA	NA	6.52
Redox Potential			mV	NA	NA	NA	NA	NA	NA	203.5

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2i
Summary of Groundwater Analytical Results
PZ1
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	Icecor			REI Engineering, Inc.							
			Date -->	7/23/2008	4/29/2010	7/25/2010	4/28/2011	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
	ES	PAL	Units											
GRO			µg/l	< 50	NA	59.9	NA	NA		NA	NA	NA	NA	NA
VOC Parameters									**Soil**					
Benzene	5	0.5	µg/l	< 0.20	< 0.20	< 0.31	< 0.39	< 0.39	**Excavation**	< 0.39	< 0.39	< 0.34	< 0.34	< 0.25
Toluene	800	160	µg/l	< 0.40	< 0.40	< 0.37	< 0.42	< 0.42	**Completed**	< 0.42	< 0.42	< 0.34	< 0.34	< 0.17
Ethylbenzene	700	140	µg/l	0.31*	< 0.20	< 0.50	< 0.41	< 0.41		< 0.41	< 0.41	< 0.71	< 0.34	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	0.69*	< 0.40	< 0.62	< 0.87	< 0.87		< 0.87	< 0.87	< 0.37	< 0.71	< 0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 5.0	< 5.0	< 0.30	< 0.38	< 0.38		< 0.38	< 0.38	< 0.36	< 0.37	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	0.20*	< 0.20	< 0.44	< 0.43	< 0.43		< 0.43	< 0.43	< 0.37	< 0.36	< 0.87
Naphthalene	100	10	µg/l	< 1.0	< 1.0	NA	< 0.40	< 0.40		< 0.40	< 0.40	< 0.37	< 0.37	< 1.2
1,1,1-Trichloroethane	200	40	µg/l	< 2.0	< 2.0	NA	NA	NA		NA	NA	NA	NA	NA
Chloromethane	3	0.3	µg/l	0.82*	< 0.40	NA	NA	NA		NA	NA	NA	NA	NA
Isopropylbenzene			µg/l	< 0.10	< 0.10	NA	NA	NA		NA	NA	NA	NA	NA
4-Isopropyltoluene			µg/l	< 0.20	< 0.20	NA	NA	NA		NA	NA	NA	NA	NA
Butylbenzene			µg/l	< 0.40	< 0.40	NA	NA	NA		NA	NA	NA	NA	NA
Inorganics														
Nitrate+Nitrite (as N)	10	2	mg/l	0.00	0.00	0.00	NA	NA		NA	NA	NA	NA	NA
Sulfate	250	125	mg/l	0.50	0.00	0.50	NA	NA		NA	NA	NA	NA	NA
Lead (Dissolved)	15	1.5	µg/l	< 0.60	NA	NA	NA	NA		NA	NA	NA	NA	NA
Iron (Dissolved)	0.3	0.15	mg/l	**1.00**	**1.00**	**0.50**	NA	NA		NA	NA	NA	NA	NA
Field Measurements														
Temperature			°C	17.10	16.2	15.5	NA	NA		NA	NA	NA	NA	60.9
Conductivity			µS/cm	253.00	250	278	NA	NA		NA	NA	NA	NA	1,117
Dissolved Oxygen			mg/l	5.20	6.02	6.23	NA	NA		NA	NA	NA	NA	6.45
pH				7.10	7.45	7.23	NA	NA		NA	NA	NA	NA	7.17
Redox Potential			mV	NA	NA	NA	NA	NA		NA	NA	NA	NA	216.4

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2j
Summary of Groundwater Analytical Results
Sump Pump
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	REI
			Date -->	4/28/2011
	ES	PAL	Units	
VOC Parameters				
Benzene	5	0.5	µg/l	< 0.39
Toluene	800	160	µg/l	< 0.42
Ethylbenzene	700	140	µg/l	< 0.41
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.87
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.38
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.43
Naphthalene	100	10	µg/l	< 0.40

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 2k
Summary of Groundwater Analytical Results
Potable Water Supply Well
Karen's Korner
Bennett, Wisconsin

			Sampled By -->	Icecor	REI Engineering, Inc.							
			Date -->	11/6/2006	4/28/2011	11/14/2011	9/13/2012	9/13/2012	5/8/2013	8/19/2013	11/13/2013	9/17/2019
GRO				< 50	NA	NA		NA	NS	NS	NA	NA
VOC Parameters	ES	PAL	Units									
Benzene	5	0.5	µg/l	< 0.15	< 0.038	< 0.047	**Soil**	< 0.41	NS	NS	<0.24	< 0.12
Toluene	800	160	µg/l	< 0.40	< 0.045	< 0.065	**Excavation**	< 0.67	NS	NS	< 0.22	< 0.078
Ethylbenzene	700	140	µg/l	< 0.10	< 0.034	< 0.078	**Completed**	< 0.54	NS	NS	< 0.21	< 0.11
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.40	< 0.16	< 0.27		< 1.8	NS	NS	< 0.75	< 0.30
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.10	< 0.040	< 0.048		< 0.61	NS	NS	< 0.25	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.15	< 0.050	< 0.86		< 0.97	NS	NS	< 0.54	< 0.23
Chloromethane			µg/l	0.47*	< 0.021	0.20*		< 0.24	NS	NS	< 0.50	< 0.15

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
NS = Not Sampled
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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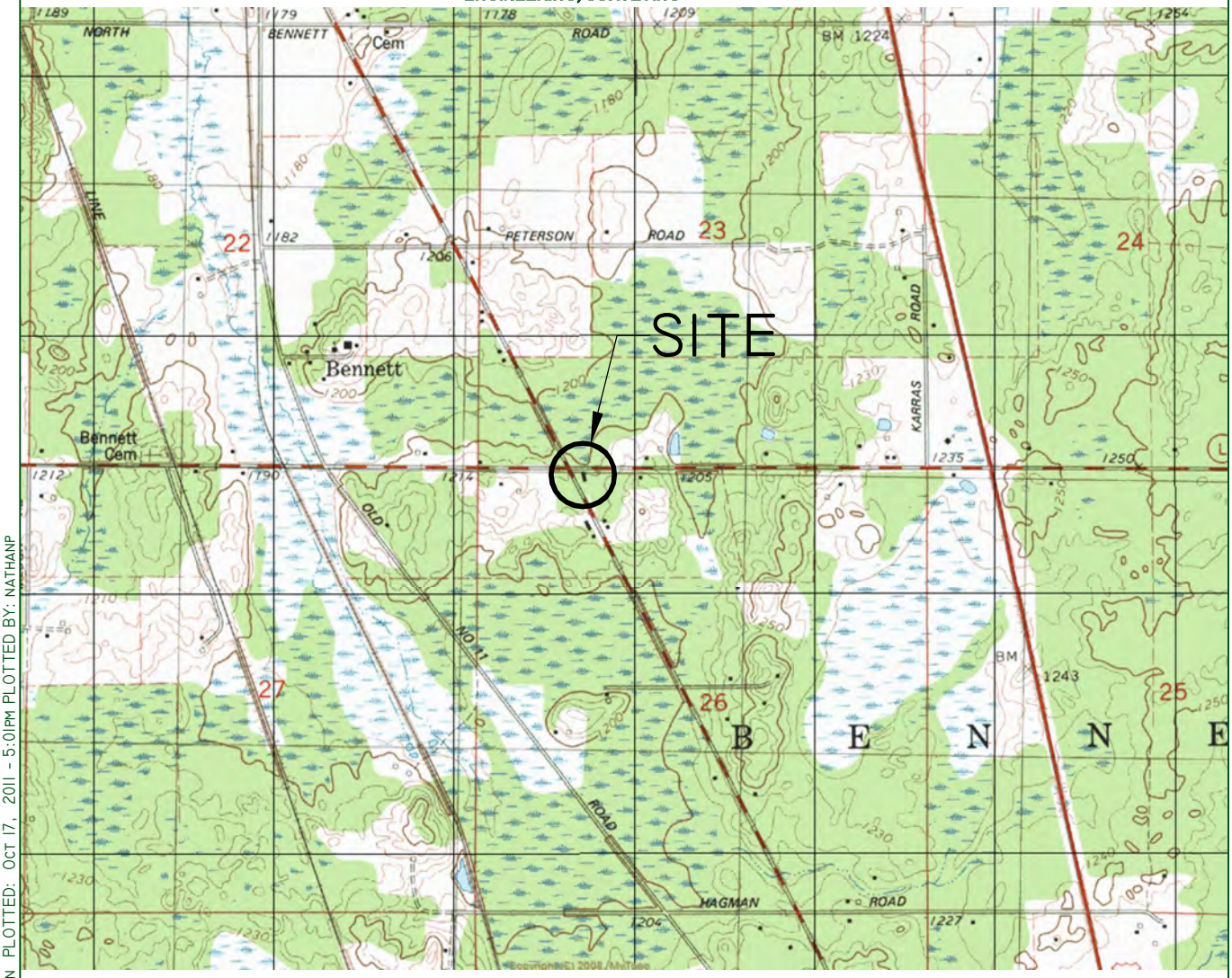
ENGINEERING, SURVEYING



SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

UTM GRID AND 1981 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

BENNETT, WIS.
NE/4 SOLON SPRINGS 15' QUADRANGLE
N4622.5–W9145/7.5
1981

REI Engineering, INC.

KAREN'S KORNER
8816 COUNTY ROAD E
BENNETT, WISCONSIN

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
5619	TAW	5/10/2011

DRAWING FILE: J:\DRAFTING\5619-KAREN'S KORNER\DWG\5619-VICN.DWG LAYOUT: VICN PLOTTED: OCT 17, 2011 - 5:01PM PLOTTED BY: NATHANP

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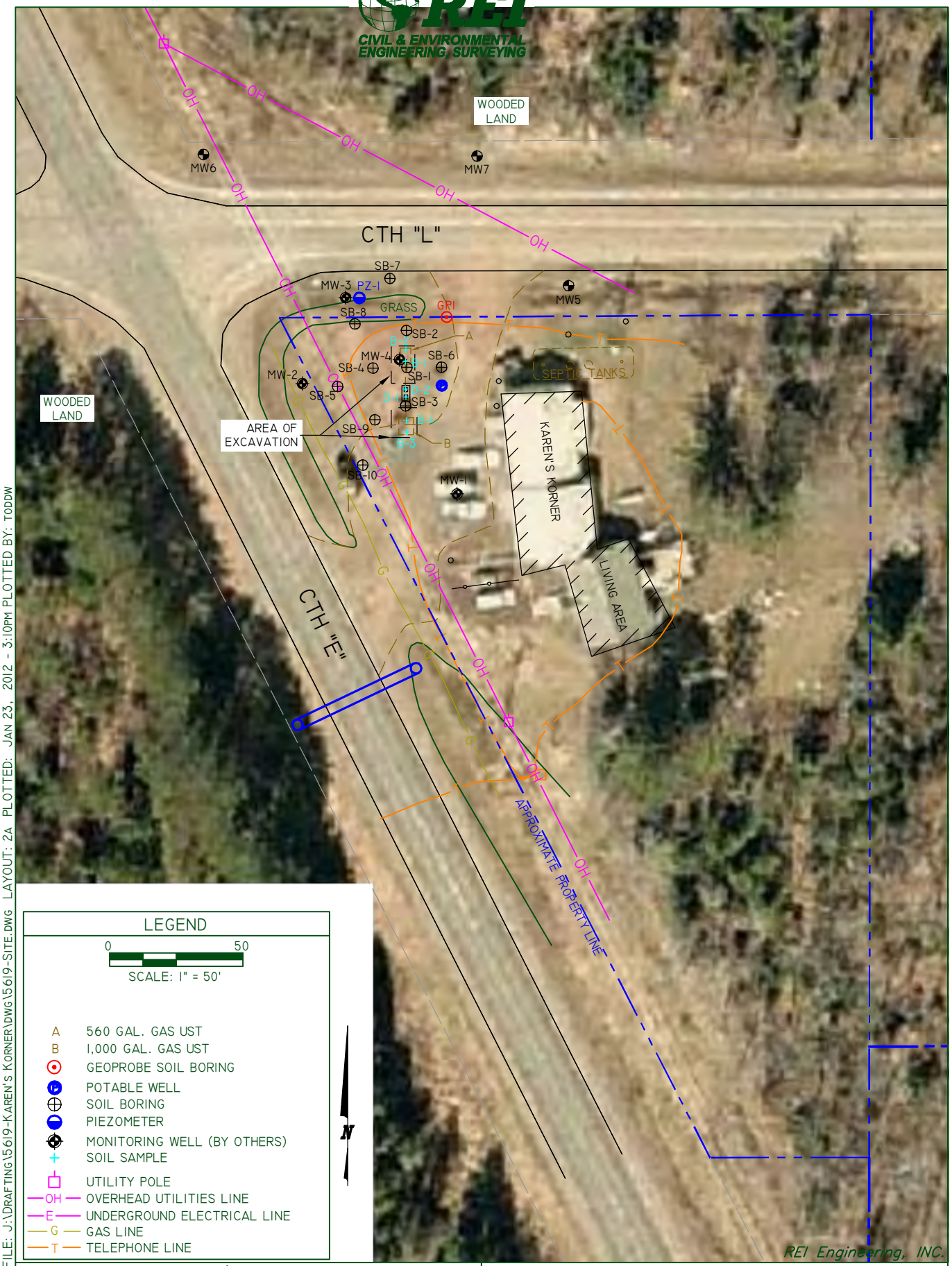

LEGEND

0 50

SCALE: 1" = 50'

- A — 560 GAL. GAS UST
- B — 1,000 GAL. GAS UST
- GEOPROBE SOIL BORING
- POTABLE WELL
- SOIL BORING
- PIEZOMETER
- MONITORING WELL (BY OTHERS)
- SOIL SAMPLE
- UTILITY POLE
- OH — OVERHEAD UTILITIES LINE
- E — UNDERGROUND ELECTRICAL LINE
- G — GAS LINE
- T — TELEPHONE LINE

REI Engineering, INC.

KAREN'S KORNER
8816 COUNTY ROAD E
BENNETT, WISCONSIN

FIGURE 2a : SITE MAP WITH PROPERTY BOUNDARY

PROJECT NO.	DRAWN BY:	DATE:
5619	TAW	1/23/2012

DRAWING FILE: J:\DRAFTING\5619-KAREN'S KORNER\DWG\5619-SITE.DWG LAYOUT: 2A PLOTTED: JAN 23, 2012 - 3:10PM PLOTTED BY: TODDW

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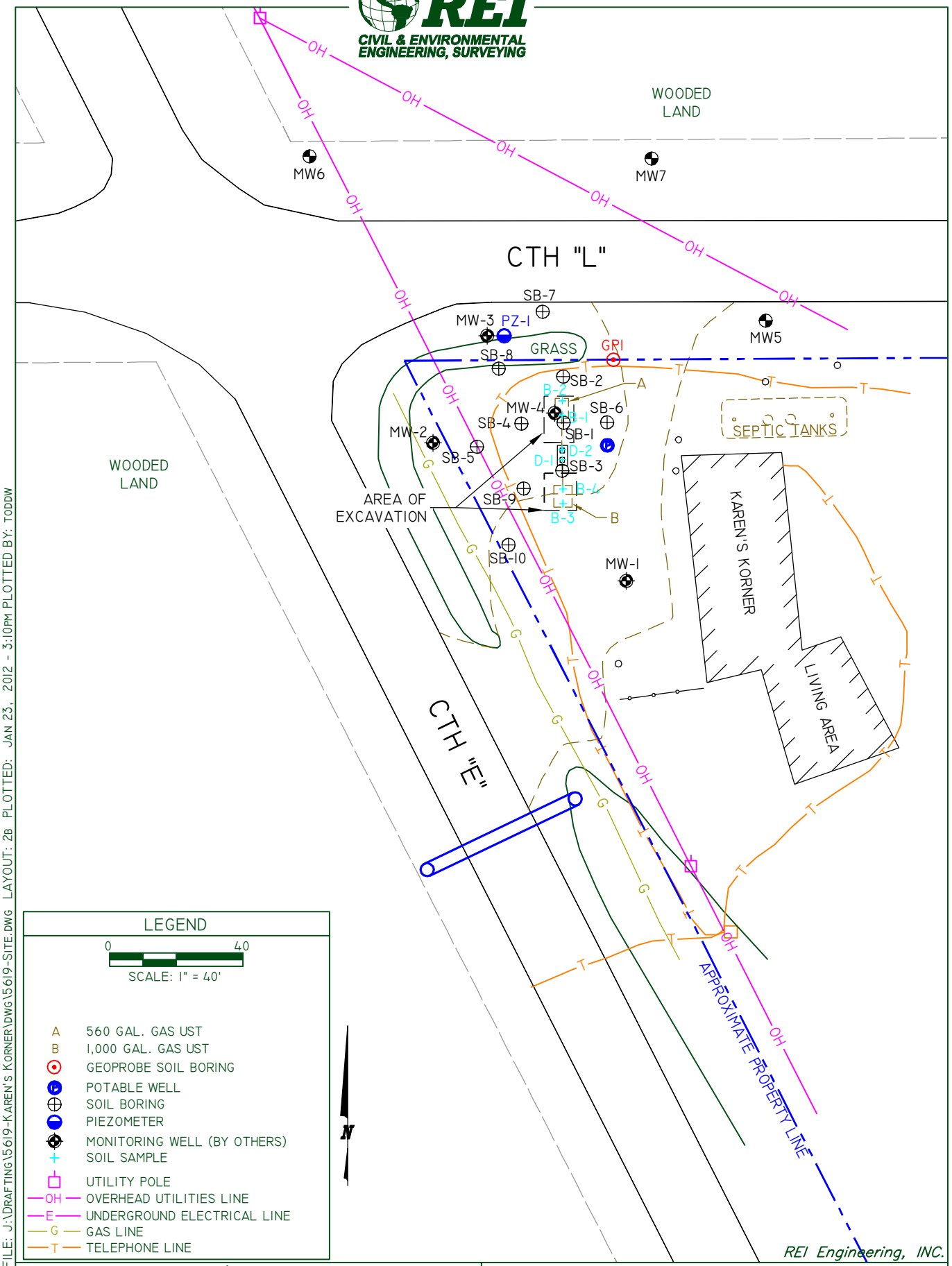

REI Engineering, INC.

KAREN'S KORNER
8816 COUNTY ROAD E
BENNETT, WISCONSIN

FIGURE 2b : SITE MAP

PROJECT NO.	DRAWN BY:	DATE:
5619	TAW	1/23/2012

DRAWING FILE: J:\DRAFTING\5619-KAREN'S KORNER\DWG\5619-SITE.DWG LAYOUT: 2B PLOTTED: JAN 23, 2012 - 3:10PM PLOTTED BY: TODDW

APPENDIX A

WELL DEVELOPMENT FORMS

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	MW2	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and balled	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.80 *ft.*	*ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 9:30 ☐ p.m. ☒ a.m.	10:00 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	MW3	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and balled	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.63 *ft.*	*ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 9:25 ☐ p.m. ☒ a.m.	9:55 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D N L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	MW4R	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and balled	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.99 *ft.*	*ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 9:55 ☐ p.m. ☒ a.m.	10:25 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D M L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	MW5	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and balled	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.60 *ft.*	*ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 9:37 ☐ p.m. ☒ a.m.	10:07 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D M L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	MW6	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

		Before Development	After Development
surged with bailer and balled	☐ 41		
surged with bailer and pumped	☒ 61		
surged with block and bailed	☐ 42		
surged with block and pumped	☐ 62		
surged with block, bailed and pumped	☐ 70		
compressed air	☐ 20		
bailed only	☐ 10		
pumped only	☐ 51		
pumped slowly	☐ 50		
Other _____	☐		

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.80 *ft.*	*ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 9:25 ☐ p.m. ☒ a.m.	9:55 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: _____

Print Initials: D L L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	MW7	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and balled	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.67 *ft.*	*ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 9:00 ☐ p.m. ☒ a.m.	9:30 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: _____

Print Initials: D M L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Karen's Korner	Douglas	PZ1	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	16		

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and balled	☐ 41
surged with bailer and pumped	☒ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 30 *min.*

4. Depth of well (from top of Casing) 27.91 *ft.*

5. Inside diameter of well 2.07 *in.*

6. Volume of water in filter pack and well casing *gal.*

7. Volume of water removed from well *gal.*

8. Volume of water added (If any) 0 *gal.*

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes. attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.19 *ft.*	18.26 *ft.*
Data *mm/dd/yy*	b. 9/17/19	9/17/19
Time	c. 10:05 ☐ p.m. ☒ a.m.	10:35 ☐ p.m. ☒ a.m.
12. Sediment in well bottom	*inches*	0 *inches*
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Water clear to start and remained clear. Removed 12 gallons

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: D M L

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

APPENDIX B

LABORATORY ANALYTICAL REPORT

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

September 30, 2019

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on September 21, 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40195699001	**MW2**	Water	09/17/19 10:00	09/21/19 10:00
40195699002	**MW3**	Water	09/17/19 09:55	09/21/19 10:00
40195699003	**MW4R**	Water	09/17/19 10:25	09/21/19 10:00
40195699004	**MW5**	Water	09/17/19 10:07	09/21/19 10:00
40195699005	**MW6**	Water	09/17/19 09:55	09/21/19 10:00
40195699006	**MW7**	Water	09/17/19 09:30	09/21/19 10:00
40195699007	**PZ1**	Water	09/17/19 10:35	09/21/19 10:00
40195699008	**POTABLE**	Water	09/17/19 10:29	09/21/19 10:00

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40195699001	**MW2**	EPA 8260	LAP	12	PASI-G
40195699002	**MW3**	EPA 8260	LAP	12	PASI-G
40195699003	**MW4R**	EPA 8260	LAP	12	PASI-G
40195699004	**MW5**	EPA 8260	LAP	12	PASI-G
40195699005	**MW6**	EPA 8260	LAP	12	PASI-G
40195699006	**MW7**	EPA 8260	LAP	12	PASI-G
40195699007	**PZ1**	EPA 8260	LAP	12	PASI-G
40195699008	**POTABLE**	EPA 524.2	DS2	62	PASI-M

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Sample: MW2 **Lab ID: 40195699001** Collected: 09/17/19 10:00 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/24/19 15:50	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/24/19 15:50	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/24/19 15:50	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/24/19 15:50	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/24/19 15:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/24/19 15:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/24/19 15:50	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/24/19 15:50	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/24/19 15:50	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		09/24/19 15:50	1868-53-7	
Toluene-d8 (S)	109	%	70-130		1		09/24/19 15:50	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		09/24/19 15:50	460-00-4	

Sample: MW3 **Lab ID: 40195699002** Collected: 09/17/19 09:55 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.34J**	ug/L	1.0	0.25	1		09/24/19 16:12	71-43-2	
Ethylbenzene	**5.8**	ug/L	1.0	0.22	1		09/24/19 16:12	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/24/19 16:12	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/24/19 16:12	91-20-3	
Toluene	**0.46J**	ug/L	5.0	0.17	1		09/24/19 16:12	108-88-3	
1,2,4-Trimethylbenzene	**5.4**	ug/L	2.8	0.84	1		09/24/19 16:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/24/19 16:12	108-67-8	
m&p-Xylene	**5.4**	ug/L	2.0	0.47	1		09/24/19 16:12	179601-23-1	
o-Xylene	**0.76J**	ug/L	1.0	0.26	1		09/24/19 16:12	95-47-6	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		09/24/19 16:12	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		09/24/19 16:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		1		09/24/19 16:12	460-00-4	

Sample: MW4R **Lab ID: 40195699003** Collected: 09/17/19 10:25 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/25/19 07:09	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/25/19 07:09	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/25/19 07:09	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/25/19 07:09	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/25/19 07:09	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Sample: MW4R **Lab ID: 40195699003** Collected: 09/17/19 10:25 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/25/19 07:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/25/19 07:09	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/25/19 07:09	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/25/19 07:09	95-47-6	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		09/25/19 07:09	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/25/19 07:09	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		09/25/19 07:09	460-00-4	

Sample: MW5 **Lab ID: 40195699004** Collected: 09/17/19 10:07 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/24/19 16:34	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/24/19 16:34	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/24/19 16:34	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/24/19 16:34	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/24/19 16:34	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/24/19 16:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/24/19 16:34	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/24/19 16:34	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/24/19 16:34	95-47-6	
Surrogates									
Dibromofluoromethane (S)	105	%	70-130		1		09/24/19 16:34	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		09/24/19 16:34	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/24/19 16:34	460-00-4	

Sample: MW6 **Lab ID: 40195699005** Collected: 09/17/19 09:55 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/24/19 16:56	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/24/19 16:56	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/24/19 16:56	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/24/19 16:56	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/24/19 16:56	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/24/19 16:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/24/19 16:56	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/24/19 16:56	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/24/19 16:56	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Sample: MW6 **Lab ID: 40195699005** Collected: 09/17/19 09:55 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		09/24/19 16:56	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		09/24/19 16:56	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		09/24/19 16:56	460-00-4	

Sample: MW7 **Lab ID: 40195699006** Collected: 09/17/19 09:30 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/24/19 17:18	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/24/19 17:18	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/24/19 17:18	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/24/19 17:18	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/24/19 17:18	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/24/19 17:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/24/19 17:18	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/24/19 17:18	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/24/19 17:18	95-47-6	
Surrogates									
Dibromofluoromethane (S)	104	%	70-130		1		09/24/19 17:18	1868-53-7	
Toluene-d8 (S)	111	%	70-130		1		09/24/19 17:18	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		09/24/19 17:18	460-00-4	

Sample: PZ1 **Lab ID: 40195699007** Collected: 09/17/19 10:35 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/24/19 17:40	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/24/19 17:40	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/24/19 17:40	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/24/19 17:40	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/24/19 17:40	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/24/19 17:40	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/24/19 17:40	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/24/19 17:40	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/24/19 17:40	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		09/24/19 17:40	1868-53-7	
Toluene-d8 (S)	108	%	70-130		1		09/24/19 17:40	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		09/24/19 17:40	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Sample: POTABLE **Lab ID: 40195699008** Collected: 09/17/19 10:29 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.12**	ug/L	0.41	0.12	1		09/27/19 19:36	71-43-2	
Bromobenzene	**<0.23**	ug/L	0.76	0.23	1		09/27/19 19:36	108-86-1	
Bromochloromethane	**<0.30**	ug/L	0.99	0.30	1		09/27/19 19:36	74-97-5	
Bromodichloromethane	**<0.15**	ug/L	0.50	0.15	1		09/27/19 19:36	75-27-4	
Bromoform	**<0.45**	ug/L	1.5	0.45	1		09/27/19 19:36	75-25-2	
Bromomethane	**<0.62**	ug/L	2.1	0.62	1		09/27/19 19:36	74-83-9	
n-Butylbenzene	**<0.14**	ug/L	0.47	0.14	1		09/27/19 19:36	104-51-8	
sec-Butylbenzene	**<0.20**	ug/L	0.68	0.20	1		09/27/19 19:36	135-98-8	
tert-Butylbenzene	**<0.14**	ug/L	0.46	0.14	1		09/27/19 19:36	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	0.67	0.20	1		09/27/19 19:36	56-23-5	
Chlorobenzene	**<0.12**	ug/L	0.40	0.12	1		09/27/19 19:36	108-90-7	
Chloroethane	**<0.14**	ug/L	0.47	0.14	1		09/27/19 19:36	75-00-3	
Chloroform	**<0.31**	ug/L	1.0	0.31	1		09/27/19 19:36	67-66-3	
Chloromethane	**<0.15**	ug/L	0.51	0.15	1		09/27/19 19:36	74-87-3	
2-Chlorotoluene	**<0.086**	ug/L	0.29	0.086	1		09/27/19 19:36	95-49-8	
4-Chlorotoluene	**<0.093**	ug/L	0.31	0.093	1		09/27/19 19:36	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	6.5	2.0	1		09/27/19 19:36	96-12-8	N2
Dibromochloromethane	**<0.24**	ug/L	0.81	0.24	1		09/27/19 19:36	124-48-1	
1,2-Dibromoethane (EDB)	**<0.17**	ug/L	0.57	0.17	1		09/27/19 19:36	106-93-4	N2
Dibromomethane	**<0.23**	ug/L	0.76	0.23	1		09/27/19 19:36	74-95-3	
1,2-Dichlorobenzene	**<0.18**	ug/L	0.58	0.18	1		09/27/19 19:36	95-50-1	
1,3-Dichlorobenzene	**<0.14**	ug/L	0.46	0.14	1		09/27/19 19:36	541-73-1	
1,4-Dichlorobenzene	**<0.086**	ug/L	0.29	0.086	1		09/27/19 19:36	106-46-7	
Dichlorodifluoromethane	**<0.26**	ug/L	0.87	0.26	1		09/27/19 19:36	75-71-8	
1,1-Dichloroethane	**<0.16**	ug/L	0.55	0.16	1		09/27/19 19:36	75-34-3	
1,2-Dichloroethane	**<0.13**	ug/L	0.45	0.13	1		09/27/19 19:36	107-06-2	
1,1-Dichloroethene	**<0.19**	ug/L	0.62	0.19	1		09/27/19 19:36	75-35-4	
cis-1,2-Dichloroethene	**<0.14**	ug/L	0.46	0.14	1		09/27/19 19:36	156-59-2	
trans-1,2-Dichloroethene	**<0.18**	ug/L	0.59	0.18	1		09/27/19 19:36	156-60-5	
1,2-Dichloropropane	**<0.19**	ug/L	0.64	0.19	1		09/27/19 19:36	78-87-5	
1,3-Dichloropropane	**<0.11**	ug/L	0.35	0.11	1		09/27/19 19:36	142-28-9	N2
2,2-Dichloropropane	**<0.16**	ug/L	0.53	0.16	1		09/27/19 19:36	594-20-7	
1,1-Dichloropropene	**<0.10**	ug/L	0.35	0.10	1		09/27/19 19:36	563-58-6	
cis-1,3-Dichloropropene	**<0.21**	ug/L	0.69	0.21	1		09/27/19 19:36	10061-01-5	
trans-1,3-Dichloropropene	**<0.24**	ug/L	0.81	0.24	1		09/27/19 19:36	10061-02-6	
Ethylbenzene	**<0.11**	ug/L	0.36	0.11	1		09/27/19 19:36	100-41-4	
Hexachloro-1,3-butadiene	**<0.28**	ug/L	0.92	0.28	1		09/27/19 19:36	87-68-3	
Isopropylbenzene (Cumene)	**<0.17**	ug/L	0.57	0.17	1		09/27/19 19:36	98-82-8	
p-Isopropyltoluene	**<0.21**	ug/L	0.71	0.21	1		09/27/19 19:36	99-87-6	N2
Methylene Chloride	**<0.44**	ug/L	1.5	0.44	1		09/27/19 19:36	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	0.56	0.17	1		09/27/19 19:36	1634-04-4	
Naphthalene	**<0.18**	ug/L	0.60	0.18	1		09/27/19 19:36	91-20-3	
n-Propylbenzene	**<0.13**	ug/L	0.44	0.13	1		09/27/19 19:36	103-65-1	
Styrene	**<0.18**	ug/L	0.59	0.18	1		09/27/19 19:36	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.12**	ug/L	0.39	0.12	1		09/27/19 19:36	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.17**	ug/L	0.56	0.17	1		09/27/19 19:36	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Sample: POTABLE **Lab ID: 40195699008** Collected: 09/17/19 10:29 Received: 09/21/19 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Tetrachloroethene	**<0.17**	ug/L	0.56	0.17	1		09/27/19 19:36	127-18-4	
Toluene	**<0.078**	ug/L	0.26	0.078	1		09/27/19 19:36	108-88-3	
1,2,3-Trichlorobenzene	**<0.25**	ug/L	0.83	0.25	1		09/27/19 19:36	87-61-6	
1,2,4-Trichlorobenzene	**<0.19**	ug/L	0.64	0.19	1		09/27/19 19:36	120-82-1	
1,1,1-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		09/27/19 19:36	71-55-6	
1,1,2-Trichloroethane	**<0.19**	ug/L	0.62	0.19	1		09/27/19 19:36	79-00-5	
Trichloroethene	**<0.12**	ug/L	0.39	0.12	1		09/27/19 19:36	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	0.70	0.21	1		09/27/19 19:36	75-69-4	
1,2,3-Trichloropropane	**<0.39**	ug/L	1.3	0.39	1		09/27/19 19:36	96-18-4	
1,2,4-Trimethylbenzene	**<0.23**	ug/L	0.76	0.23	1		09/27/19 19:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.15**	ug/L	0.49	0.15	1		09/27/19 19:36	108-67-8	N2
Vinyl chloride	**<0.086**	ug/L	0.29	0.086	1		09/27/19 19:36	75-01-4	
Xylene (Total)	**<0.30**	ug/L	1.0	0.30	1		09/27/19 19:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	75-125		1		09/27/19 19:36	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		09/27/19 19:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%.	75-125		1		09/27/19 19:36	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

QC Batch: 635041
QC Batch Method: EPA 524.2
Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV
Associated Lab Samples: 40195699008

METHOD BLANK: 3422603
Matrix: Water
Associated Lab Samples: 40195699008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.12	0.39	09/27/19 17:14	
1,1,1-Trichloroethane	ug/L	<0.19	0.62	09/27/19 17:14	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	0.56	09/27/19 17:14	
1,1,2-Trichloroethane	ug/L	<0.19	0.62	09/27/19 17:14	
1,1-Dichloroethane	ug/L	<0.16	0.55	09/27/19 17:14	
1,1-Dichloroethene	ug/L	<0.19	0.62	09/27/19 17:14	
1,1-Dichloropropene	ug/L	<0.10	0.35	09/27/19 17:14	
1,2,3-Trichlorobenzene	ug/L	<0.25	0.83	09/27/19 17:14	
1,2,3-Trichloropropane	ug/L	<0.39	1.3	09/27/19 17:14	
1,2,4-Trichlorobenzene	ug/L	<0.19	0.64	09/27/19 17:14	
1,2,4-Trimethylbenzene	ug/L	<0.23	0.76	09/27/19 17:14	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	6.5	09/27/19 17:14	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	0.57	09/27/19 17:14	N2
1,2-Dichlorobenzene	ug/L	<0.18	0.58	09/27/19 17:14	
1,2-Dichloroethane	ug/L	<0.13	0.45	09/27/19 17:14	MN
1,2-Dichloropropane	ug/L	<0.19	0.64	09/27/19 17:14	
1,3,5-Trimethylbenzene	ug/L	<0.15	0.49	09/27/19 17:14	N2
1,3-Dichlorobenzene	ug/L	<0.14	0.46	09/27/19 17:14	
1,3-Dichloropropane	ug/L	<0.11	0.35	09/27/19 17:14	N2
1,4-Dichlorobenzene	ug/L	<0.086	0.29	09/27/19 17:14	
2,2-Dichloropropane	ug/L	<0.16	0.53	09/27/19 17:14	
2-Chlorotoluene	ug/L	<0.086	0.29	09/27/19 17:14	
4-Chlorotoluene	ug/L	<0.093	0.31	09/27/19 17:14	
Benzene	ug/L	<0.12	0.41	09/27/19 17:14	
Bromobenzene	ug/L	<0.23	0.76	09/27/19 17:14	
Bromochloromethane	ug/L	<0.30	0.99	09/27/19 17:14	
Bromodichloromethane	ug/L	<0.15	0.50	09/27/19 17:14	
Bromoform	ug/L	<0.45	1.5	09/27/19 17:14	
Bromomethane	ug/L	<0.62	2.1	09/27/19 17:14	
Carbon tetrachloride	ug/L	<0.20	0.67	09/27/19 17:14	
Chlorobenzene	ug/L	<0.12	0.40	09/27/19 17:14	
Chloroethane	ug/L	<0.14	0.47	09/27/19 17:14	
Chloroform	ug/L	<0.31	1.0	09/27/19 17:14	MN
Chloromethane	ug/L	<0.15	0.51	09/27/19 17:14	
cis-1,2-Dichloroethene	ug/L	<0.14	0.46	09/27/19 17:14	
cis-1,3-Dichloropropene	ug/L	<0.21	0.69	09/27/19 17:14	
Dibromochloromethane	ug/L	<0.24	0.81	09/27/19 17:14	
Dibromomethane	ug/L	<0.23	0.76	09/27/19 17:14	
Dichlorodifluoromethane	ug/L	<0.26	0.87	09/27/19 17:14	
Ethylbenzene	ug/L	<0.11	0.36	09/27/19 17:14	
Hexachloro-1,3-butadiene	ug/L	<0.28	0.92	09/27/19 17:14	

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: 5619 KAREN'S KORNER
Pace Project No.: 40195699

METHOD BLANK: 3422603 Matrix: Water
Associated Lab Samples: 40195699008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.17	0.57	09/27/19 17:14	
Methyl-tert-butyl ether	ug/L	<0.17	0.56	09/27/19 17:14	
Methylene Chloride	ug/L	<0.44	1.5	09/27/19 17:14	
n-Butylbenzene	ug/L	<0.14	0.47	09/27/19 17:14	
n-Propylbenzene	ug/L	<0.13	0.44	09/27/19 17:14	
Naphthalene	ug/L	<0.18	0.60	09/27/19 17:14	
p-Isopropyltoluene	ug/L	<0.21	0.71	09/27/19 17:14	N2
sec-Butylbenzene	ug/L	<0.20	0.68	09/27/19 17:14	
Styrene	ug/L	<0.18	0.59	09/27/19 17:14	
tert-Butylbenzene	ug/L	<0.14	0.46	09/27/19 17:14	
Tetrachloroethene	ug/L	<0.17	0.56	09/27/19 17:14	
Toluene	ug/L	<0.078	0.26	09/27/19 17:14	
trans-1,2-Dichloroethene	ug/L	<0.18	0.59	09/27/19 17:14	
trans-1,3-Dichloropropene	ug/L	<0.24	0.81	09/27/19 17:14	
Trichloroethene	ug/L	<0.12	0.39	09/27/19 17:14	
Trichlorofluoromethane	ug/L	<0.21	0.70	09/27/19 17:14	
Vinyl chloride	ug/L	<0.086	0.29	09/27/19 17:14	
Xylene (Total)	ug/L	<0.30	1.0	09/27/19 17:14	
1,2-Dichloroethane-d4 (S)	%.	98	75-125	09/27/19 17:14	
4-Bromofluorobenzene (S)	%.	97	75-125	09/27/19 17:14	
Toluene-d8 (S)	%.	100	75-125	09/27/19 17:14	

LABORATORY CONTROL SAMPLE: 3422604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	101	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.3	96	70-130	
1,1,2-Trichloroethane	ug/L	20	19.5	97	70-130	
1,1-Dichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethene	ug/L	20	19.2	96	70-130	
1,1-Dichloropropene	ug/L	20	19.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	20	20.1	101	70-130	
1,2,3-Trichloropropane	ug/L	20	20.3	102	70-130	
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	70-130	
1,2,4-Trimethylbenzene	ug/L	20	20.1	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.9	98	70-130	N2
1,2-Dibromoethane (EDB)	ug/L	20	19.9	100	70-130	N2
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	18.2	91	70-130	
1,2-Dichloropropane	ug/L	20	16.6	83	70-130	
1,3,5-Trimethylbenzene	ug/L	20	19.9	99	70-130	N2
1,3-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,3-Dichloropropane	ug/L	20	19.8	99	70-130	N2

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

LABORATORY CONTROL SAMPLE: 3422604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	20	19.5	98	70-130	
2,2-Dichloropropane	ug/L	20	18.4	92	70-130	
2-Chlorotoluene	ug/L	20	18.7	93	70-130	
4-Chlorotoluene	ug/L	20	18.9	94	70-130	
Benzene	ug/L	20	18.2	91	70-130	
Bromobenzene	ug/L	20	20.3	101	70-130	
Bromochloromethane	ug/L	20	19.6	98	70-130	
Bromodichloromethane	ug/L	20	19.2	96	70-130	
Bromoform	ug/L	20	22.0	110	70-130	
Bromomethane	ug/L	20	22.2	111	70-130	
Carbon tetrachloride	ug/L	20	19.5	97	70-130	
Chlorobenzene	ug/L	20	19.3	96	70-130	
Chloroethane	ug/L	20	19.4	97	70-130	
Chloroform	ug/L	20	18.8	94	70-130	
Chloromethane	ug/L	20	20.5	103	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.0	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	21.6	108	70-130	
Dibromomethane	ug/L	20	19.3	96	70-130	
Dichlorodifluoromethane	ug/L	20	19.1	96	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Hexachloro-1,3-butadiene	ug/L	20	20.5	103	70-130	
Isopropylbenzene (Cumene)	ug/L	20	19.4	97	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Methylene Chloride	ug/L	20	18.7	94	70-130	
n-Butylbenzene	ug/L	20	20.1	100	70-130	
n-Propylbenzene	ug/L	20	19.9	99	70-130	
Naphthalene	ug/L	20	20.3	101	70-130	
p-Isopropyltoluene	ug/L	20	19.6	98	70-130	N2
sec-Butylbenzene	ug/L	20	19.9	99	70-130	
Styrene	ug/L	20	20.2	101	70-130	
tert-Butylbenzene	ug/L	20	19.9	99	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	19.3	96	70-130	
Vinyl chloride	ug/L	20	18.0	90	70-130	
Xylene (Total)	ug/L	60	57.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	75-125	
4-Bromofluorobenzene (S)	%.			103	75-125	
Toluene-d8 (S)	%.			100	75-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3422605 3422606

Parameter	Units	40195702007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.12	20	20	20.4	21.4	102	107	70-130	5	20	
1,1,1-Trichloroethane	ug/L	<0.19	20	20	21.1	20.7	105	104	70-130	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.17	20	20	19.3	19.8	96	99	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.19	20	20	18.8	19.3	94	96	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.16	20	20	19.2	18.7	96	94	70-130	2	20	
1,1-Dichloroethene	ug/L	<0.19	20	20	20.9	20.1	105	100	70-130	4	20	
1,1-Dichloropropene	ug/L	<0.10	20	20	20.8	20.8	104	104	70-130	0	20	
1,2,3-Trichlorobenzene	ug/L	<0.25	20	20	20.9	21.8	105	109	70-130	4	20	
1,2,3-Trichloropropane	ug/L	<0.39	20	20	18.8	20.3	94	102	70-130	8	20	
1,2,4-Trichlorobenzene	ug/L	<0.19	20	20	20.6	21.3	103	107	70-130	3	20	
1,2,4-Trimethylbenzene	ug/L	<0.23	20	20	20.6	22.0	103	110	70-130	7	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	50	50	46.0	49.3	92	99	70-130	7	20	N2
1,2-Dibromoethane (EDB)	ug/L	<0.17	20	20	20.2	20.3	101	101	70-130	0	20	N2
1,2-Dichlorobenzene	ug/L	<0.18	20	20	20.1	21.4	101	107	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.13	20	20	18.5	18.5	93	93	70-130	0	20	
1,2-Dichloropropane	ug/L	<0.19	20	20	16.6	16.5	83	83	70-130	0	20	
1,3,5-Trimethylbenzene	ug/L	<0.15	20	20	20.1	21.5	101	108	70-130	7	20	N2
1,3-Dichlorobenzene	ug/L	<0.14	20	20	20.2	21.6	101	108	70-130	7	20	
1,3-Dichloropropane	ug/L	<0.11	20	20	20.1	20.2	101	101	70-130	0	20	N2
1,4-Dichlorobenzene	ug/L	<0.086	20	20	19.9	21.0	99	105	70-130	6	20	
2,2-Dichloropropane	ug/L	<0.16	20	20	19.3	19.4	97	97	70-130	1	20	
2-Chlorotoluene	ug/L	<0.086	20	20	19.0	20.2	95	101	70-130	6	20	
4-Chlorotoluene	ug/L	<0.093	20	20	19.1	20.3	96	101	70-130	6	20	
Benzene	ug/L	<0.12	20	20	19.3	18.7	96	94	70-130	3	20	
Bromobenzene	ug/L	<0.23	20	20	20.0	20.6	100	103	70-130	3	20	
Bromochloromethane	ug/L	<0.30	20	20	19.6	20.1	98	100	70-130	2	20	
Bromodichloromethane	ug/L	<0.15	20	20	19.3	19.3	96	97	70-130	0	20	
Bromoform	ug/L	<0.45	20	20	21.9	22.3	109	112	70-130	2	20	
Bromomethane	ug/L	<0.62	20	20	22.2	21.5	111	108	70-130	3	20	
Carbon tetrachloride	ug/L	<0.20	20	20	20.9	21.0	104	105	70-130	1	20	
Chlorobenzene	ug/L	<0.12	20	20	19.9	20.3	100	102	70-130	2	20	
Chloroethane	ug/L	<0.14	20	20	20.7	20.7	103	104	70-130	0	20	
Chloroform	ug/L	<0.31	20	20	19.5	19.2	97	96	70-130	2	20	
Chloromethane	ug/L	<0.15	20	20	20.6	19.3	103	97	70-130	6	20	
cis-1,2-Dichloroethene	ug/L	<0.14	20	20	19.3	18.5	96	93	70-130	4	20	
cis-1,3-Dichloropropene	ug/L	<0.21	20	20	18.9	19.1	95	96	70-130	1	20	
Dibromochloromethane	ug/L	<0.24	20	20	21.3	22.2	106	111	70-130	4	20	
Dibromomethane	ug/L	<0.23	20	20	19.4	19.5	97	97	70-130	0	20	
Dichlorodifluoromethane	ug/L	<0.26	20	20	20.3	19.4	102	97	70-130	5	20	
Ethylbenzene	ug/L	<0.11	20	20	19.2	20.3	96	101	70-130	5	20	
Hexachloro-1,3-butadiene	ug/L	<0.28	20	20	23.1	21.8	116	109	70-130	6	20	
Isopropylbenzene (Cumene)	ug/L	<0.17	20	20	19.9	21.7	99	109	70-130	9	20	
Methyl-tert-butyl ether	ug/L	<0.17	20	20	18.8	19.3	94	96	70-130	2	20	
Methylene Chloride	ug/L	<0.44	20	20	18.9	19.0	95	95	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3422605 3422606

Parameter	Units	40195702007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
n-Butylbenzene	ug/L	<0.14	20	20	21.2	21.5	106	107	70-130	1	20	
n-Propylbenzene	ug/L	<0.13	20	20	20.2	21.9	101	109	70-130	8	20	
Naphthalene	ug/L	<0.18	20	20	19.9	22.2	100	111	70-130	11	20	
p-Isopropyltoluene	ug/L	<0.21	20	20	21.0	21.4	105	107	70-130	2	20	N2
sec-Butylbenzene	ug/L	<0.20	20	20	21.0	21.6	105	108	70-130	3	20	
Styrene	ug/L	<0.18	20	20	20.5	21.3	102	107	70-130	4	20	
tert-Butylbenzene	ug/L	<0.14	20	20	20.5	21.8	103	109	70-130	6	20	
Tetrachloroethene	ug/L	<0.17	20	20	20.9	22.1	105	110	70-130	5	20	
Toluene	ug/L	<0.078	20	20	20.0	20.4	100	102	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.18	20	20	20.1	19.3	101	96	70-130	4	20	
trans-1,3-Dichloropropene	ug/L	<0.24	20	20	19.2	19.3	96	96	70-130	1	20	
Trichloroethene	ug/L	<0.12	20	20	20.3	19.9	102	99	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	20	20	20.1	19.5	100	98	70-130	3	20	
Vinyl chloride	ug/L	<0.086	20	20	19.4	18.4	97	92	70-130	5	20	
Xylene (Total)	ug/L	<0.30	60	60	58.9	61.9	98	103	70-130	5	20	
1,2-Dichloroethane-d4 (S)	%.						97	98	75-125			
4-Bromofluorobenzene (S)	%.						101	99	75-125			
Toluene-d8 (S)	%.						98	100	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

QC Batch: 334876 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40195699001, 40195699002, 40195699003, 40195699004, 40195699005, 40195699006, 40195699007

METHOD BLANK: 1944842 Matrix: Water
Associated Lab Samples: 40195699001, 40195699002, 40195699003, 40195699004, 40195699005, 40195699006, 40195699007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/24/19 10:41	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/24/19 10:41	
Benzene	ug/L	<0.25	1.0	09/24/19 10:41	
Ethylbenzene	ug/L	<0.22	1.0	09/24/19 10:41	
m&p-Xylene	ug/L	<0.47	2.0	09/24/19 10:41	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/24/19 10:41	
Naphthalene	ug/L	<1.2	5.0	09/24/19 10:41	
o-Xylene	ug/L	<0.26	1.0	09/24/19 10:41	
Toluene	ug/L	<0.17	5.0	09/24/19 10:41	
4-Bromofluorobenzene (S)	%	92	70-130	09/24/19 10:41	
Dibromofluoromethane (S)	%	102	70-130	09/24/19 10:41	
Toluene-d8 (S)	%	105	70-130	09/24/19 10:41	

LABORATORY CONTROL SAMPLE: 1944843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.6	99	70-130	
Ethylbenzene	ug/L	50	53.8	108	80-124	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	54.2	108	54-137	
o-Xylene	ug/L	50	53.4	107	70-130	
Toluene	ug/L	50	53.7	107	80-126	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1945141 1945142

Parameter	Units	40195702005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	51.4	51.4	103	103	70-130	0	20	
Ethylbenzene	ug/L	<0.22	50	50	54.3	57.7	109	115	80-125	6	20	
m&p-Xylene	ug/L	<0.47	100	100	109	118	109	118	70-130	8	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	55.7	57.9	111	116	51-145	4	20	
o-Xylene	ug/L	<0.26	50	50	56.0	57.7	112	115	70-130	3	20	
Toluene	ug/L	<0.17	50	50	53.5	58.8	107	118	80-131	9	20	
4-Bromofluorobenzene (S)	%						100	104	70-130			
Dibromofluoromethane (S)	%						103	103	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1945141 1945142

Parameter	Units	40195702005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						103	109	70-130			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALIFIERS

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5619 KAREN'S KORNER
Pace Project No.: 40195699

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40195699008	**POTABLE**	EPA 524.2	635041		
40195699001	**MW2**	EPA 8260	334876		
40195699002	**MW3**	EPA 8260	334876		
40195699003	**MW4R**	EPA 8260	334876		
40195699004	**MW5**	EPA 8260	334876		
40195699005	**MW6**	EPA 8260	334876		
40195699006	**MW7**	EPA 8260	334876		
40195699007	**PZ1**	EPA 8260	334876		

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	
Project Contact:	DAVID LARSEN
Phone:	715-675-9784
Project Number:	5619
Project Name:	KARCHER'S KORNER
Project State:	WI
Sampled By (Print):	DAVID LARSEN
Sampled By (Sign):	
PO #:	
Regulatory Program:	RCRA

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

CHAIN OF CUSTODY

JTB

Page 1 of

40195699

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

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

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW2	9-17-19	10:00	GW	N	B	X PARIN			
002	MW3		9:55							
003	MW4R		10:25							
004	MW5		10:07							
005	MW6		9:55							
006	MW7		9:30							
007	PZ1		10:35		—	—				
008	POTABLE	—	10:29	DW		J	DW VOC			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	9/20/19 2:30		
Walter	9/21/19 1000		9/21/19 1000
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40195699

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: RE1 Project # 40195699

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

Initial when completed: Date/ Time:

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

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008															3																		2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
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014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, 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	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	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	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	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#: 40195699

40195699

Client Name: REI

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

Tracking #: 218303941-2

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 - NB **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 20.1 /Corr:

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 9/21/19
Initials: AMS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. mail, invoice, page # AMS 9/21/19
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. 002 time 1010, 004 time 1010 AMS 9/21/19
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑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:

Project Manager Review: Date: 9-23-19

APPENDIX C

VAPOR INTRUSION DOCUMENTATION

Dave Larsen

From: Stoltz, Carrie R - DNR <Carrie.Stoltz@wisconsin.gov>
Sent: Friday, September 6, 2019 8:48 AM
To: Dave Larsen
Subject: FW: VI sampling ?-Karen's Korner
Attachments: 20190904071237384.pdf

FYI, please see below. If there are no preferential pathways then there are no VI issues

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Carrie Stoltz
Phone (715)365-8942
Carrie.Stoltz@Wisconsin.gov

From: Borski, Jennifer - DNR <Jennifer.Borski@wisconsin.gov>
Sent: Friday, September 06, 2019 8:20 AM
To: Stoltz, Carrie R - DNR <Carrie.Stoltz@wisconsin.gov>
Cc: Hunt, John T - DNR <JohnT.Hunt@wisconsin.gov>
Subject: FW: VI sampling ?-Karen's Korner

Carrie,

Thank you for sending this data and discussing the site with me this morning. The screening guidelines for PVOCs are shown on Figure 3b of RR-800. According to the data provided, it appears there is no residual soil contamination and the residual groundwater contamination (benzene) is just slightly above the ES away from the building. Based on this information, this site screens out under our current guidelines and a vapor investigation is not necessary.

Let me know if you have further questions.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Jennifer Borski
Vapor Intrusion Team Leader / Hydrogeologist
Remediation & Redevelopment Program / Environmental Management Division
Wisconsin Department of Natural Resources
625 E. County Road Y, STE 700
Oshkosh, WI 54901-9731
Phone: (920) 424-7887
Cell Phone: (920) 360-0853
jennifer.borski@wisconsin.gov

dnr.wi.gov

From: Stoltz, Carrie R - DNR <Carrie.Stoltz@wisconsin.gov>
Sent: Wednesday, September 4, 2019 11:00 AM

To: Borski, Jennifer - DNR <Jennifer.Borski@wisconsin.gov>
Subject: VI sampling ?-Karen's Korner

HI Jenna, I have a question on VI sampling for Karen's Korner (03-16-544587) in Douglas County- petroleum contamination. The latest report I have is from 2014. According to REI the basement floor in the former bar is ½ concrete and ½ dirt. There is no walls between the concrete and dirt floors. This area of the building is the closest to the former tanks. The house is also connected to the former bar building and has a full-basement. Based on the results (attached) from 2013, would it be possible to just perform indoor air sampling in the bar basement only? GW flow is away from the building. MW-3 and PZ-1 results show little to no detects and MW-4R was hot before the excavation however, last sampling that I have is from 2013. I have closure meeting on Thursday from 9:30 to noon and am in Friday from 6:30 to 3:30PM. Thanks, Carrie

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Carrie Stoltz
Hydrogeologist-Remediation and Redevelopment, AWARE Division
Wisconsin Department of Natural Resources
107 Sutliff Avenue, Rhinelander, WI 54501
Phone: (715)365-8942
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