

August 28, 2017

Mr. Tauren Beggs
Hydrogeologist
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313-6727

Subject: **May 2017 Semi-Annual Potable Well Monitoring Letter Report**
Former Town of Newton Gravel Pit
BRRTS No. 02-36-000268
AECOM Project No: 60135471(82518)

Dear Mr. Beggs:

AECOM Technical Services, Inc. (AECOM), on the behalf of the City of Manitowoc, is pleased to submit this Semi-Annual Potable Well Monitoring Letter Report for wells in the vicinity of the Former Town of Newton Gravel Pit site (See Figure1). The report provides the results from the May 2017 sampling event.

Presented below are site background information, sampling methodology, and the potable well monitoring results.

BACKGROUND INFORMATION

Regular monitoring has been ongoing since November 2013, when volatile organic compounds (VOCs) were discovered in private potable wells near the Former Town of Newton Gravel Pit. The most recent sampling was conducted in accordance with the Wisconsin Department of Natural Resources (WDNR) approved Five Year Potable Well Monitoring Work Plan. The Work Plan grouped the potable wells into the following categories:

- Target Zone Wells – wells with detectable contaminants of concern (COCs).
- Target Zone Sentinel Wells – wells within the Target Zone and do not have detectable COCs.
- Sentinel Zone Wells – wells outside and adjacent to the Target Zone that do not have detectable COCs.
 - Sentinel Zone 3-Year Wells – Sentinel Zone Wells which will be sampled once every three years on a rotating schedule.
 - Sentinel Zone 5-Year Wells – Sentinel Zone Wells which will be sampled once every five years on a rotating schedule.
- Replacement Wells – wells that were replaced due to regulatory standard exceedances of COCs.
- Upgradient and Historically Sampled Wells – wells outside the Sentinel Zone that have been sampled in the past but are not currently scheduled to be sampled.
- Former Potable Wells Now Connected to City Water – wells that were replaced with connections to the City of Manitowoc public water supply that are not currently scheduled to be sampled.

SAMPLING METHODOLOGY

The May 2017 sampling also includes reporting of monitoring conducted since the October 2016 event. In total, 24 water samples, excluding quality control samples, were obtained from 24 wells. Details of the monitoring event are as follows.

On February 23, 2017 the third sampling event on the replacement well at 3504 CTH CR was completed.

February 23, 2017
Target Zone Well
Sampling Address
3504 CTH CR
(replacement)

In May 2017, a total of 23 wells (a total of 26 samples with quality control sampling) were collected from the target zone and sentinel zone wells. Additionally, the first sampling event on the replacement wells at 4005 Thunder Ridge Road and 4010 Thunder Ridge Road were completed.

May 30 and 31, 2017
Sentinel and Target Zone Wells
Sampling Addresses

3817 Viebahn Street	4005 Thunder Ridge Road (replacement)
3327 Hecker Road	4010 Thunder Ridge Road (replacement)
3461 (3417) Hecker Road	3911 Blackhawk Court
3627 Hecker Road	3921 Blackhawk Court
3702 Hecker Road	3710 Silver Creek Road
3618 CTH CR	3780 Silver Creek Road
3904 CTH CR	3802 Silver Creek Road
4125 CTH CR	4159 Silver Creek Road
4101 Thunder Ridge Road	4220 Silver Creek Road
4027 Thunder Ridge Road	4314 Silver Creek Road
4111 Thunder Ridge Road	4315 Silver Creek Road
	3027 Orchard Lane

Samples were collected following purging from a cold water tap or spigot as near to the well as possible, and preferably before any storage/pressure tanks or physical/chemical treatment system that might be present.

Samples for VOC laboratory analyses were collected in three 40-ml glass vials with hydrochloric acid preservative and Teflon septa. The vials were filled to the top, leaving no headspace or bubbles, and then quickly capped. Samples were labeled and stored on ice for shipment, with chain of custody, to the laboratory.

Samples collected by AECOM were submitted to a Wisconsin Administrative Code (WAC) Chapter NR 149 certified laboratory (Synergy Environmental Lab, Inc., Appleton, Wisconsin) for analyses of VOCs by EPA Method 8260B.

MONITORING RESULTS

The results for the May 2017 sampling events are discussed below. During this period AECOM obtained a total of 24 water samples (not including quality control samples) from 24 wells.

A summary of the sampled wells with detected laboratory analytical results is presented on Table 1 and on Figure 2. Table 2 provides a summary of the analytical results for all wells sampled. The laboratory analytical reports are provided in Attachment A.

Laboratory Analytical Results

The laboratory analytical data indicates that contaminant compounds are present in some of the potable well water samples.

The concentration of the COCs found in the potable well water samples were compared to applicable WAC Chapter NR 140 Table 1 Public Health enforcement standards (ESs) and preventive action limits (PALs).

The laboratory analytical results are presented categorically as follows:

- COCs with NR 140 ES exceedances
- COCs with NR 140 PAL exceedances
- Detected COCs with no regulatory exceedances
- Observed changes in analytical results since the last monitoring event

Wells with NR 140 COC ES Exceedances:

There were no wells that had an ES exceedance for vinyl chloride or cis-1,2-dichloroethene (cis-1,2-dce).

**ES Exceedances
of Vinyl Chloride or cis-1,2-dce**
No wells with ES exceedances

Wells with NR 140 COC PAL Exceedances:

There were no wells that had a PAL exceedance for vinyl chloride or cis-1,2-dce.

**PAL Exceedances
of Vinyl Chloride or cis-1,2-dce**
No wells with PAL exceedances

Detected COCs with No Regulatory Exceedances:

There were a total of 11 potable wells that only had a single COC (cis-1,2-dce) below regulatory (PAL) limits.

Cis-1,2-dichloroethene Detects	
3817 Viebahn Street	4101 Thunder Ridge Road
3461 (3417) Hecker Road	4027 Thunder Ridge Road
3327 Hecker Road	4111 Thunder Ridge Road
3702 Hecker Road	3921 Blackhawk Court
3618 CTH CR	4159 Silver Creek Road
	3027 Orchard Lane

Additionally, the analytical results for the potable well at 3417 Hecker Road indicated chlorobenzene (i.e. monochlorobenzene) at 0.32 ug/l. The NR 140 PAL is 20 ug/l and the ES is 100 ug/l. Chlorobenzene is typically used as a solvent for some pesticide formulations and as a degreaser. This compound is not a known COC for the Newton Pit project. The chlorobenzene result has been noted on Table 1, but not included on Figure 2, since it is not a COC for the project site.

A summary of the sampled wells with detectable COC laboratory results is presented on Table 1 and on Figure 2. Table 2 provides a summary of the analytical results for all sampled wells. The laboratory analytical reports are provided in Attachment A.

OBSERVED CHANGES SINCE LAST MONITORING EVENT

Since the October 2016 sampling event two new replacement wells have been installed and sampled. There are currently a total of eleven replacement potable wells. The newest wells are located at:

- 4005 Thunder Ridge Road
- 4010 Thunder Ridge Road

The following changes were noted in the analytical results since the October 2016 sampling event:

- The following well had a change in cis-1,2-dce from a detect above the laboratory method detection limit (MDL) but below the PAL to a non-detect with continued non-detect of vinyl chloride. The well has historically had cis-1,2-dce detects.
 - 3911 Black Hawk Court
- The well at 3417 Hecker Road had a detect in chlorobenzene below the NR 140 PAL.

UPDATES TO POTABLE WELL MONITORING WORK PLAN

The WDNR has approved a Five Year Potable Well Monitoring Work Plan dated May 8, 2017. Based on the May 2017 sampling results, the sampling schedule in the Work Plan for the October 2017 sampling event does not require an update. The potable well monitoring schedule from the Work Plan is presented on Table 3, attached.

SUMMARY

The following is a summary of the May 2017 potable well monitoring event.

Analytical results from 11 potable well water samples indicate a single contaminant of concern (cis-1,2-dce) below regulatory (PAL) limits. One well, 3417 Hecker Road, had an additional detect of chlorobenzene below the PAL.

Two replacement potable wells have no VOC detects above laboratory MDLs.

All other monitored wells had no VOC detects above laboratory MDLs.

The next semi-annual potable well monitoring event is scheduled for October 2017. The sampling will be conducted in accordance with the Five Year Potable Well Monitoring Work Plan dated May 8, 2017.

If you have any questions regarding these results, please contact Dave Henderson at 414.944.6190 or dave.henderson@aecom.com.

Yours sincerely,
AECOM Technical Services, Inc.



Sarah Day
Project Scientist



David Henderson
Senior Project Manager

Cc: Kathleen M. McDaniel, City Attorney, City of Manitowoc
Dan Koski, Director of Public Infrastructure, City of Manitowoc
JaNelle Merry, Water Supply Specialist, WDNR

Attachments: Tables, Figures, Attachment A: Laboratory Reports

Tables:

- Table 1, Summary of Contaminates Detected in Potable Wells
- Table 2, Summary of Contaminates Analyzed in Potable Wells
 - (Table 2 provided only on electric (CD) copy of report)
- Table 3, Summary of Five Year Potable Well Sampling Plan

Table 1
SUMMARY OF CONTAMINANTS DETECTED IN POTABLE WELLS

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3303 Hecker Rd.													
			Original Potable Well							Replacement Potable Well						
			10/23/13	11/7/13	6/3/14	6/3/14(DUP)	11/17/14	2/23/15	10/13/15	3/30/16	8/8/16	9/26/16	10/24/16	11/8/16		
Basement			Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement		
Volatile Organic Compounds (VOCs) (µg/L):																
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44		
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24		
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.44	< 0.44	< 0.44	< 0.44		
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48		
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65		
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	0.68 J	0.68 J	< 0.38	< 0.45	1.94	2.53	< 0.45	< 0.45	< 0.45	< 0.45		
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54		
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44		
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	0.44 J	0.51 J	< 0.17	< 0.17	< 0.17	< 0.17		
RCRA Metals (mg/L):																
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3327 Hecker Rd.									
			10/23/13	11/7/13	5/28/14	8/25/14	11/10/14	2/23/15	10/14/15	3/31/16	10/5/16	5/30/17
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Kitchen Sink	Outside Spigot	Kitchen Sink	Outside Spigot	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.51	< 0.27
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.46	< 0.34
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.87	< 0.38
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 1.1	< 0.42
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	< 0.46
cis-1,2-Dichloroethene	70	7	11	11.6	6.4	6.9	5.6	4.3	4.2	3.2	3.3	2.38
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L)												
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3461(3417) Hecker Rd.																							
			10/24/13		11/12/13		5/30/14		8/26/14		11/10/14		2/24/15		10/13/15		3/30/16		3/30/16 (DUP)		10/6/16		10/6/16 (DUP)		5/31/17	
			Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink				
Volatile Organic Compounds (VOCs) (µg/L):																										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17					
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	0.32 J					
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34					
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.38					
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42					
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46					
cis-1,2-Dichloroethene	70	7	2.58	2.15	2.12	1.79	1.49	1.59	1.6	1.66	1.74	1.23 J	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	0.55 J				
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35					
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67					
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19					
RCRA Metals (mg/L):																										
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3515 Hecker Rd.										
			Original Potable Well						Replacement Potable Well				
			10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	8/28/14	9/29/14	11/4/14	2/23/15	10/14/15	10/5/16
Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank		
Volatile Organic Compounds (VOCs) (µg/L):													
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	70	7	7.4	7.2	7.4	NA	10	7.8	< 0.38	< 0.38	< 0.45	< 0.45	
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	
Toluene	800	160	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	
Vinyl Chloride	0.2	0.02	0.22 J	0.24 J	0.24 J	NA	0.47 J	0.28 J	< 0.18	< 0.18	< 0.17	< 0.17	
RCRA Metals (mg/L):													
Arsenic	0.01	0.001	NA	NA	NA	0.0019	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	0.15	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	0.00034 J	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	0.00006 J	NA	NA	NA	NA	NA	NA	

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3518 Hecker Rd.													
			Original Potable Well			Replacement Potable Well										
			10/23/13	11/7/13	11/7/13	3/11/14	3/11/14	3/31/14	4/22/14	5/29/14	5/29/14(DUP)	8/25/14	11/10/14	2/23/15	10/14/15	10/6/16
			Outside Spigot	Outside Spigot	Inside Kitchen	Outside Spigot	Duplicate	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank					
Volatile Organic Compounds (VOCs) (µg/L):																
Benzene	5	0.5	1.74	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Chlorobenzene	NL	NL	< 0.24	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 4.4	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	0.42 J	< 4.1	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
1,1-Dichloroethene	7	0.7	1.62	< 4	< 4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	7	510	510	530	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Toluene	800	160	< 0.69	< 6.9	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44
Vinyl Chloride	0.2	0.02	102	86	92	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17
RCRA Metals (mg/L):																
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3609 Hecker Rd.													
			Original Potable Well								Replacement Potable Well					
			10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	5/28/14(DUP)	7/11/14	8/25/16	8/25/14(DUP)	9/29/14	11/4/14	2/24/15	10/13/15	10/5/16
Volatile Organic Compounds (VOCs) (µg/L):																
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	7	45	45	46	NA	49	49	51	35	36	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	< 0.35	0.39 J	< 0.35	NA	0.42 J	0.37 J	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Toluene	800	160	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
Vinyl Chloride	0.2	0.02	1.0	1.09	1.02	NA	7.40	7.60	8.60	4.60	5.20	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
RCRA Metals (mg/L):																
Arsenic	0.01	0.001	NA	NA	NA	0.00032 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	0.065	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	0.00056 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	< 0.000049	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3702 Hecker Rd.									
			10/22/13	11/12/13	6/3/14	8/25/14	11/13/14	10/14/15	10/14/2015 (DUP)	3/31/16	10/11/16	5/30/17
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34
1,1-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.48	< 0.38
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46
cis-1,2-Dichloroethene	70	7	0.71 J	0.61 J	< 0.38	< 0.38	< 0.38	0.48 J	0.73 J	< 0.45	1.04 J	0.51 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L):												
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4159 Silver Creek Rd											
			12/12/13	1/6/14	6/4/14	6/4/14(DUP)	9/8/14	11/10/14	11/10/14 (DUP)	2/23/15	10/14/15	3/30/16	10/10/16	5/30/17
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):														
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.38
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46
cis-1,2-Dichloroethene	70	7	0.49 J	0.73 J	0.72 J	0.64 J	0.54 J	0.59 J	0.52 J	0.56 J	0.55 J	0.59 J	0.78 J	0.52 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L):														
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	2717 CTH CR(4141 Viebahn St.)						City Water Provided December 2016	Non-Potable Well		
			Original Potable Well									
			8/25/14	9/8/14	9/8/14(DUP)	11/10/14	2/23/15	10/13/15				
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank				
Volatile Organic Compounds (VOCs) (µg/L):												
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44		
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46		
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87		
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48		
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65		
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA		
cis-1,2-Dichloroethene	70	7	1.4	1.31	1.44	1.3	1.26 J	1.72	< 0.45	1.53		
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54		
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44		
Vinyl Chloride	0.2	0.02	<u>0.21 J</u>	<u>0.29 J</u>	<u>0.31 J</u>	<u>0.39 J</u>	<u>0.35 J</u>	<u>0.47 J</u>	< 0.17	<u>0.32 J</u>		
RCRA Metals (mg/L)												
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA		
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA		
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA		
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA		

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	2734(2804) CTH CR							Well Abandoned, City Water Provided December 2016	2916 CTH CR							Well Abandoned, City Water Provided December 2016					
			Original Potable Well								Original Potable Well												
			6/3/14	8/25/14	11/10/14	11/25/14	11/25/14 (DUP)	2/24/15	10/14/15		Pressure Tank	Pressure Tank	2/4/14	5/28/14	8/25/14	11/10/14	11/25/14	3/11/15	3/11/2015 (DUP)	10/13/15	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):																							
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44				< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44			
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46				< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46			
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87				< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87			
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48				< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.48			
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65				< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65			
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA			
cis-1,2-Dichloroethene	70	7	0.77 J	0.77 J	0.63 J	0.93 J	1.02 J	0.7 J	0.94 J				0.97 J	0.9 J	1.02 J	0.74 J	0.82 J	0.75 J	0.8 J	1.02 J			
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54				< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54			
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44				< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44			
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	0.26 J	0.38 J	0.43 J	0.2 J	0.45 J				0.18 J	< 0.18	< 0.18	0.28 J	0.37 J	< 0.17	0.18 J	0.26 J			
RCRA Metals (mg/L):																							
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA			
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA			
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA			
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA			

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	2917 CTH CR					Well Abandoned, City Water Provided December 2016	3023 CTH CR								
			Original Potable Well						Replacement Potable Well								
			2/4/14	5/30/14	10/13/15	10/27/15	10/27/15 (DUP)		2/4/14	6/2/14	8/25/14	10/8/14	11/4/14	2/24/15	10/13/15	10/5/16	
			Kitchen Sink	Kitchen Sink	Spigot	Spigot	Spigot		Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
Volatile Organic Compounds (VOCs) (µg/L):																	
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44		< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44		
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46		< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46		
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87		< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87		
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48		< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	1.6	1.41	1.67		2.84	2.87	2.34	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54		< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	
Toluene	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44		< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44		
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	<u>0.43 J</u>	<u>0.37 J</u>	<u>0.37 J</u>		<u>0.55 J</u>	<u>0.41 J</u>	<u>0.33 J</u>	< 0.18	< 0.18	< 0.17	< 0.17		
RCRA Metals (mg/L):																	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		
Barium	2	0.4	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		
Lead	0.015	0.0015	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		
Mercury	0.002	0.0002	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3120 CTH CR										
			Original Potable Well						Replacement Potable Well				
			1/3/14 Pressure Tank	2/4/14 Pressure Tank	5/28/14 Pressure Tank	5/28/14(DUP) Pressure Tank	8/25/14 Pressure Tank	8/25/14(DUP) Pressure Tank	10/8/14 Pressure Tank	11/4/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/6/16 Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):													
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	7	2.74	2.86	2.65	2.68	1.89	2.23	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
Vinyl Chloride	0.2	0.02	0.60	0.43 J	0.35 J	0.26 J	0.27 J	0.24 J	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
RCRA Metals (mg/L)													
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3403 CTH CR								
			Original Potable Well				Replacement Potable Well				
			1/3/14	2/5/14	5/28/14	8/25/14	10/21/14	11/4/14	2/23/15	10/13/15	10/5/16
Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	7	1.3	1.67	1.48	1.34	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
Vinyl Chloride	0.2	0.02	<u>0.56 J</u>	<u>0.25 J</u>	<u>0.22 J</u>	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
RCRA Metals (mg/L)											
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3504 CTH CR																Replacement Potable Well		
			Original Potable Well																		
			12/5/13	1/6/14	1/6/2014 (DUP)	2/5/14	5/30/14	5/30/14(DUP)	8/25/14	8/25/14(DUP)	11/18/14	11/18/2014 (DUP)	2/23/15	10/14/15	3/31/16	3/31/2016 (DUP)	10/11/16	10/24/16	11/8/16	2/23/17	
Volatile Organic Compounds (VOCs) (µg/L):																					
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	7	1.28	1.43	1.34	1.42	1.22	1.13 J	0.99 J	1.02 J	1.41	1.26	1.19 J	1.27 J	0.76 J	0.91 J	1.17 J	< 0.45	< 0.45	< 0.45	< 0.41
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	0.23 J	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	0.18 J	0.17 J	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L):																					
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3618 CTH CR								
			1/3/14	5/29/14	8/25/14	11/10/14	2/23/15	10/14/15	3/30/16	10/6/16	5/30/17
			Kitchen Sink	Pressure Tank	Kitchen Sink	Kitchen Sink	Kitchen Sink				
Volatile Organic Compounds (VOCs) (µg/L):											
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.38
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46
cis-1,2-Dichloroethene	70	7	1.24	1.16 J	0.48 J	0.83 J	0.95 J	0.89 J	1.06 J	0.88 J	0.99 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L):											
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4002 Thunder Ridge Rd.												
			Original Potable Well							Replacement Potable Well					
			1/3/14	8/25/14	10/13/15	10/13/2015 (DUP)	10/27/15	3/31/16	3/31/16 (DUP)	5/23/16	6/2/16	6/23/16	10/5/16		
Pressure Tank			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank		
Volatile Organic Compounds (VOCs) (µg/L):															
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44			
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46			
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87			
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48			
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65			
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
cis-1,2-Dichloroethene	70	7	1.67	1.29	1.3 J	1.14 J	1.26 J	0.68 J	1.03 J	< 0.45	< 0.45	< 0.45			
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54			
Toluene	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44			
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.17	<u>0.2 J</u>	0.18 J	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17			
RCRA Metals (mg/L):															
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4005 Thunder Ridge Rd.										Replacement Potable Well	
			Original Potable Well											
			5/29/14	8/26/14	11/11/14	2/23/15	10/14/15	3/30/16	10/10/16	10/24/16	11/8/16	5/30/16		
Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,2-Dichloroethene	70	7	0.83 J	0.9 J	< 0.38	0.81 J	0.91 J	0.97 J	1.35 J	1.1 J	0.66 J	< 0.45		
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	0.29 J	< 0.17	< 0.17	< 0.17	< 0.17	
RCRA Metals (mg/L)														
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 1

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

City of Manitowoc - Newton Gravel Pit

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4010 Thunder Ridge Rd.							Replacement Potable Well	4027 Thunder Ridge Rd.											
			5/28/14	8/26/14	2/24/15	10/20/15	3/31/16	10/7/16	10/24/16		5/29/14	8/26/14	11/11/14	11/11/14 (DUP)	2/24/15	10/13/15	3/31/16	10/6/16	10/6/16 (DUP)	5/30/17		
			Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot		Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank							
Volatile Organic Compounds (VOCs) (µg/L):																						
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.45	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34	
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.38	
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46	
cis-1,2-Dichloroethene	70	7	1.37	1.18 J	1.43	1.27 J	1.47 J	1.27 J	1.42	< 0.41	0.59 J	0.52 J	0.6 J	0.53 J	0.48 J	0.67 J	0.71 J	0.77 J	0.96 J	0.87 J		
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	
Toluene	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67		
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	0.27 J	0.20 J	< 0.19	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	
RCRA Metals (mg/L):																						
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4101 Thunder Ridge Rd.							4111 Thunder Ridge Rd.						
			8/26/14	11/17/14	3/11/15	10/14/15	3/30/16	11/8/16	5/30/17	8/25/14	11/17/14	2/23/15	10/13/15	3/30/16	10/10/16	5/30/17
			Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Outside Spigot				
Volatile Organic Compounds (VOCs) (µg/L):																
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.38	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.38
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	< 0.46	NA	NA	NA	NA	NA	NA	< 0.46
cis-1,2-Dichloroethene	70	7	0.73 J	0.63 J	0.76 J	0.87 J	0.71 J	1.02 J	0.73 J	0.41 J	< 0.38	< 0.45	< 0.45	< 0.45	0.56 J	0.56 J
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L):																
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3617(3621) Viebahn St.						3701 Viebahn St.							Well Abandoned, City Water Provided December 2016
			11/7/14	11/19/14	2/24/15	2/24/15 (DUP)	10/13/15	3/30/16	10/29/14	11/7/14	11/7/14 (DUP)	2/23/15	2/23/15 (DUP)	10/14/15	10/14/2015 (DUP)	
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	
Volatile Organic Compounds (VOCs) (µg/L):																
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	Well Abandoned, City Water Provided
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	Well Abandoned, City Water Provided
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	Well Abandoned, City Water Provided
1,1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.48	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48	Well Abandoned, City Water Provided
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	Well Abandoned, City Water Provided
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided
cis-1,2-Dichloroethene	70	7	1.13 J	1.12 J	0.92 J	0.87 J	1.3 J	1.12 J	1.23	1.18 J	1.29	1.31 J	1.09 J	1.55	1.48	Well Abandoned, City Water Provided
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	Well Abandoned, City Water Provided
Toluene	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	Well Abandoned, City Water Provided
Vinyl Chloride	0.2	0.02	0.48 J	0.4 J	< 0.17	0.18 J	0.23 J	< 0.17	0.29 J	0.32 J	0.49 J	0.31 J	0.33 J	0.34 J	0.37 J	Well Abandoned, City Water Provided
RCRA Metals (mg/L):																
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided

TABLE 1

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3815 Viebahn St.					3817 Viebahn St.					4025 Viebahn St.					Well Abandoned, City Water Provided December 2016						
			Original Potable Well					Original Potable Well					Original Potable Well											
			11/7/14	11/19/14	2/23/15	10/13/15	10/13/15 (DUP)	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	10/29/14	11/7/14	2/24/15	10/20/15	3/31/16	10/6/16	5/30/17	10/29/14	11/7/14	2/24/15	10/13/15	
Volatile Organic Compounds (VOCs) (µg/L):																								
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.17	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	Well Abandoned, City Water Provided December 2016
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.21	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	Well Abandoned, City Water Provided December 2016
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.34	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	Well Abandoned, City Water Provided December 2016
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.48	< 0.48	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.38	< 0.41	< 0.41	< 0.54	< 0.48	Well Abandoned, City Water Provided December 2016
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.42	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	Well Abandoned, City Water Provided December 2016
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided December 2016	
cis-1,2-Dichloroethene	70	7	0.74 J	0.94 J	0.90 J	1 J	1.12 J	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	0.4 J	< 0.38	< 0.45	0.49 J	< 0.45	0.47 J	0.50 J	1.38	1.46	1.11 J	1.85	Well Abandoned, City Water Provided December 2016
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	Well Abandoned, City Water Provided December 2016
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.67	0.95 J	< 0.69	< 0.44	< 0.44	< 0.44	Well Abandoned, City Water Provided December 2016
Vinyl Chloride	0.2	0.02	0.33 J	0.31 J	0.25 J	0.2 J	0.32 J	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	0.34 J	0.31 J	0.32 J	0.44 J	Well Abandoned, City Water Provided December 2016
RCRA Metals (mg/L):																								Well Abandoned, City Water Provided December 2016
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided December 2016	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided December 2016	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided December 2016	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Well Abandoned, City Water Provided December 2016	

TABLE 1

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

City of Manitowoc - Newton Gravel Pit

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4101 Viebahn St.				Well Abandoned, City Water Provided December 2016	3027 Orchard Ln.									Pressure Tank											
			Original Potable Well					3027 Orchard Ln.																				
			10/29/14	11/7/15	2/24/15	10/14/15		2/5/14	6/4/14	8/28/14	11/11/14	3/11/15	10/14/15	3/31/16	10/6/16	5/31/17												
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank		Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank						
Volatile Organic Compounds (VOCs) (µg/L):																												
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44		< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17											
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46		< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27											
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87		< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34											
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48		< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.38											
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65		< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42											
Carbon Disulfide	1000	200	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46											
cis-1,2-Dichloroethene	70	7	1.48	1.13 J	1.24 J	1.59 J		0.47 J	0.39 J	0.49 J	< 0.38	< 0.45	0.59 J	< 0.45	0.46 J	0.54 J												
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.54		< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35											
Toluene	800	160	< 0.69	< 0.69	< 0.44	< 0.44		< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67											
Vinyl Chloride	0.2	0.02	<u>0.38 J</u>	<u>0.39 J</u>	<u>0.43 J</u>	<u>0.54</u>		< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17											
RCRA Metals (mg/L)																												
Arsenic	0.01	0.001	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Barium	2	0.4	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Lead	0.015	0.0015	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											
Mercury	0.002	0.0002	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA											

TABLE 1

City of Manitowoc - Newton Gravel Pit

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3911 Black Hawk Ct.			3921 Black Hawk Ct.								
			7/8/15	10/6/16	5/31/17	2/4/14	6/2/14	8/26/14	11/10/14	2/24/15	10/14/15	3/31/16	10/5/16	5/30/17
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):														
Benzene	5	0.5	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Chlorobenzene	NL	NL	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Dichlorodifluoromethane	1000	200	< 0.87	< 0.87	< 0.38	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.34
1,2-Dichloroethane	5	0.5	< 0.48	< 0.48	< 0.45	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.38
1,1-Dichloroethene	7	0.7	< 0.65	< 0.65	< 0.46	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.46
cis-1,2-Dichloroethene	70	7	< 0.45	0.59 J	< 0.41	0.87 J	0.97 J	1.14 J	0.65 J	0.93 J	1.04 J	0.71 J	0.63 J	0.57 J
trans-1,2-Dichloroethene	100	20	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
Toluene	800	160	< 0.44	< 0.44	< 0.67	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Vinyl Chloride	0.2	0.02	< 0.17	< 0.17	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
RCRA Metals (mg/L):														
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**SUMMARY OF CONTAMINATES DETECTED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

NOTES:

(¹) Enforcement Standard from NR140, January 2012.

(²) Preventive Action Limit from NR140, January 2012.

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

ND - Not detected.

NM - Not measured.

NS - Not sampled.

J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

Q - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

& - LCS recovery was outside of control limits.

H - Holding time exceeded by (n) days

D - The result is from a dilution analysis.

A - Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

ED - Elevated detection limit due to matrix effects.

MS - Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.

E - Analyte concentration exceeds calibration range (see Sample Narrative).

* - Duplicate analyses not within control limits.

B(x) - Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

N - Spiked sample recovery not within control limits; post-digestion spike recovery accepted.

B - Analyte found in method blank.

OC - Elevated reporting limit due to analyte concentration.

Bold indicates a PAL exceedance.

Bold and underlining indicates an ES exceedance.

Table 2
SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
(Table 2 provided on CD copy of report)

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3114 Hecker Rd.				3121 Hecker Rd.				3303 Hecker Rd.													
							Original Potable Well												Replacement Potable Well					
			10/22/13	11/8/13	5/28/14	10/22/13	11/7/13	5/28/14	10/14/15	10/23/13	11/7/13	6/3/14	6/3/14(DUP)	11/17/14	2/23/15	10/13/15	3/30/16	8/8/16	9/26/16	10/24/16	11/8/16			
			Outside Spigot	Outside Spigot	Outside Spigot	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement
Volatile Organic Compounds (VOCs) (µg/L):																								
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	
Chloromethane	3	0.3	1.36 J	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46		
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44		
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41		
1,1-Dichloroethane	850	85	< 0.3	<																				

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3114 Hecker Rd.			3121 Hecker Rd.			3303 Hecker Rd.													
			10/22/13	11/8/13	5/28/14	10/22/13	11/7/13	5/28/14	10/14/15	10/23/13	11/7/13	6/3/14	6/3/14(DUP)	11/17/14	2/23/15	10/13/15	3/30/16	8/8/16	9/26/16	10/24/16	11/8/16	
			Outside Spigot	Outside Spigot	Outside Spigot	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	Basement	
RCRA Metals (mg/L):																						
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Polychlorinated Biphenyls (PCBs) (µg/L):																						
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																						
pH (IU)	--	--	7.84	8.22	7.85	6.01	7.55	7.37	8.13	7.32	7.32	7.85	8.04	7.43	NM							
Conductivity (µS)	--	--	617	443	502	877	635	689	785	585	538	538	587	618	531	NM	NM	NM	NM	NM	NM	
Temperature (°C)	--	--	10.54	10.09	10.5	9.72	10.25	10.4	11.73	9.69	10.31	10.31	8.83	7.31	11.19	NM	NM	NM	NM	NM	NM	
Dissolved Oxygen (ppm)	--	--	4.11	150.31	1.3	4.22	8.42	2.2	2.34	4.22	2.41	2.41	6.84	7.1	6.69	NM	NM	NM	NM	NM	NM	
Redox Potential (mV)	--	--	20.2	90.5	70	90.1	95.7	38	-65.8	62	76.4	76.4	9.2	-131.9	-58.2	NM	NM	NM	NM	NM	NM	

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3320 Hecker Rd.				3327 Hecker Rd.										3461(3417) Hecker Rd.												
			10/22/13	11/7/13	5/28/14	3/30/16	10/23/13	11/7/13	5/28/14	8/25/14	11/10/14	2/23/15	10/14/15	3/31/16	10/5/16	5/30/17	10/24/13	11/12/13	5/30/14	8/26/14	11/10/14	2/24/15	10/13/15	3/30/16	3/30/16 (DUP)	10/6/16	10/6/16 (DUP)	5/31/17	
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Kitchen Sink	Outside Spigot	Kitchen Sink	Outside Spigot	Outside Spigot	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	Inside Sink	
RCRA Metals (mg/L):																													
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (ug/L):																													
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements																													
pH (IU)	--	--	7.66	7.99	7.78	NM	8.38	7.82	7.81	7.72	8.04	8.13	7.38	NM	NM	NM	7.55	7.27	7.45	7.89	7.81	7.83	7.94	NM	NM	NM	NM	N	

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3515 Hecker Rd.											
			Original Potable Well						Replacement Potable Well					
			10/22/13 Outside Spigot	11/7/13 Outside Spigot	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	8/28/14 Outside Spigot	9/29/14 Outside Spigot	11/4/14 Outside Spigot	2/23/15 Pressure Tank	10/14/15 Pressure Tank	10/5/16 Pressure Tank	
Volatile Organic Compounds (VOCs) ($\mu\text{g/L}$):														
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	NA	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	< 0.51	< 0.51	< 0.51
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	NA	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	3	0.3	1.02 J	< 0.81	< 0.81	NA	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	NA	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	NA	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.54
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1
cis-1,2-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	NA	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	NA	< 0.33	< 0.33	< 0.33	< 0.33	< 0.45	< 0.45	< 0.45	< 0.45
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	NA	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	NA	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	NA	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	NA	< 0.3	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	NA	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	NA	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6
n-Propylbenzene	NL	NL	< 0.25	< 0.25										

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3515 Hecker Rd.									
			Original Potable Well						Replacement Potable Well			
			10/22/13 Outside Spigot	11/7/13 Outside Spigot	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	8/28/14 Outside Spigot	9/29/14 Outside Spigot	11/4/14 Outside Spigot	2/23/15 Outside Spigot	10/14/15 Pressure Tank
RCRA Metals (mg/L):												
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	0.0019	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	0.15	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	< 0.00016	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	< 0.00054	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	0.00034 J	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	0.000061 J	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	< 0.00038	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	< 0.00031	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (ug/L):												
Aroclor-1016	--	--	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	< 0.021	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	< 0.014	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	< 0.018	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	< 0.015	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA
Field Screening Measurements:												
pH (IU)	--	--	8.02	7.77	7.44	NM	7.75	7.97	NM	NM	7.81	7.16
Conductivity (µS)	--	--	775	634	616	NM	694	783	NM	NM	2219	2127
Temperature (°C)	--	--	9.56	10.1	10.48	NM	10.6	11.7	NM	NM	7.19	11.73
Dissolved Oxygen (ppm)	--	--	3.81	5.75	5.46	NM	2.13	1.73	NM	NM	5.19	1.85
Redox Potential (mV)	--	--	20.1	74.8	91.8	NM	92	231	NM	NM	-154.6	-51

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3518 Hecker Rd.												
			Original Potable Well				Replacement Potable Well								
			10/23/13 Outside Spigot	11/7/13 Outside Spigot	11/7/13 Inside Kitchen	3/11/14 Outside Spigot	3/11/2014 (DUP) Outside Spigot	3/31/14 Outside Spigot	4/22/14 Outside Spigot	5/29/14 Outside Spigot	5/29/14(DUP) Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Outside Spigot	10/14/15 Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):															
Benzene	5	0.5	1.74	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Bromobenzene	NL	NL	< 0.32	< 3.2	< 3.2	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.6	0.06	< 0.37	< 3.7	< 3.7	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46
Bromoform	4.4	0.44	< 0.35	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46
tert-Butylbenzene	NL	NL	< 0.36	< 3.6	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1
sec-Butylbenzene	NL	NL	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2
n-Butylbenzene	NL	NL	< 0.35	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	0.5	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	< 0.51	< 0.51
Chlorobenzene	NL	NL	< 0.24	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46
Chloroethane	400	80	< 0.63	< 6.3	< 6.3	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65
Chloroform	6	0.6	< 0.28	< 2.8	< 2.8	< 0.28	< 0.28	0.45 J	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	3	0.3	< 0.81	< 8.1	< 8.1	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9
2-Chlorotoluene	NL	NL	< 0.21	< 2.1	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4
4-Chlorotoluene	NL	NL	< 0.21	< 2.1	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 8.8	< 8.8	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4
Dibromochloromethane	60	6	< 0.22	< 2.2	< 2.2	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49
1,3-Dichlorobenzene	600	120	< 0.28	< 2.8	< 2.8	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52
1,2-Dichlorobenzene	600	60	< 0.36	< 3.6	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 4.4	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	0.42 J	< 4.1	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.54
1,1-Dichloroethane	850	85	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1
Gis-1,2-Dichloroethene	70	7	510	510	530	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54
1,2-Dichloropropane	5	0.5	< 0.32	< 3.2	< 3.2	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43
2,2-Dichloropropane	NL	NL	< 0.36	< 3.6	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1
1,3-Dichloropropane	NL	NL	< 0.33	< 3.3	< 3.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 2.3	< 2.3	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 4.4	< 4.4	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63
Ethylbenzene	700	140	< 0.55	< 5.5	< 5.5	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71
Hexachlorobutadiene	NL	NL	< 1.5	< 15	< 15	< 1.5	< 1.5	< 1.5</td							

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3518 Hecker Rd.												
			Original Potable Well				Replacement Potable Well								
			10/23/13 Outside Spigot	11/7/13 Outside Spigot	11/7/13 Inside Kitchen	3/11/14 Outside Spigot	3/11/2014 (DUP) Outside Spigot	3/31/14 Outside Spigot	4/22/14 Outside Spigot	5/29/14 Outside Spigot	5/29/14(DUP) Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Outside Spigot	10/14/15 Pressure Tank
RCRA Metals (mg/L):															
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Banum	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):															
Arcolor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arcolor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arcolor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arcolor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arcolor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arcolor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arcolor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements															
pH (ILU)	--	--	6.16	7.48	7.4	NM	NM	NM	7.37	7.37	7.9	7.74	8.00	7.23	NM
Conductivity (µS)	--	--	744	554	554	NM	NM	NM	1571	1571	2080	1942	1948	2078	NM
Temperature (°C)	--	--	9.89	9.36	10.58	NM	NM	NM	11.2	11.2	12.5	10.11	7.33	13.37	NM
Dissolved Oxygen (ppm)	--	--	3.21	3.32	3.85	NM	NM	NM	3.87	3.87	1.22	1.93	4.83	1.37	NM
Redox Potential (mV)	--	--	74.1	92	93.1	NM	NM	NM	-190	-190	178	-109.4	-123.8	-90	NM

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3609 Hecker Rd.												3625 Hecker Rd.						3627 Hecker Rd.				
			Original Potable Well						Replacement Potable Well						3609 Hecker Rd.			3625 Hecker Rd.			3627 Hecker Rd.				
			10/22/13	11/7/13	11/7/13	11/22/13	5/28/14	5/28/14(DUP)	7/11/14	8/25/16	8/25/14(DUP)	9/29/14	11/4/14	2/24/15	10/13/15	10/5/16	10/22/13	11/7/13	11/7/13	10/5/16	10/5/16(DUP)	10/23/13	11/7/13	5/29/14	5/30/17
RCRA Metals (mg/L):																									
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	0.00032 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	0.065	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	< 0.00016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	< 0.00054	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	0.00056 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	< 0.00005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	< 0.00038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	< 0.00031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):																									
Aroclor-1016	--	--	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	< 0.021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	< 0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	< 0.018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	< 0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements																									
pH (IU)	--	--	7.56	7.28	7.42	NM	7.5	7.5	7.91	7.7	7.7	NM	7.77	7.72	7.17	NM	7.38	7.77	7.75	NM	NM	7.98	7.75	7.18	NM
Conductivity (µS)	--	--	754	558	614	NM	634	634	983	675	675	NM	2248	2203	2290	NM	782	552	651	NM	NM	707	531	576	NM
Temperature (°C)	--	--	10.53	9.99	12.84	NM	11.1	11.1	15.2	12.4	12.4	NM	10.69	7.01	7.17	NM	11.04	10.92	15.5	NM	NM	10.13	9.63	11.5	NM
Dissolved Oxygen (ppm)	--	--	4.02	3.9	4.14	NM	1.43	1.43	2.11	2.79	2.79	NM	3.42	7.78	1.92	NM	4.54	5.31	1.71	NM	NM	4.53	4.69	2.53	NM
Redox Potential (mV)	--	--	73	95.4	91.6	NM	60	60	131	199	199	NM	-141.9	-118.4	-75	NM	68.4	85.9	119	NM	NM	45.1	91.3	137	NM

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAI ⁽²⁾	3702 Hecker Rd.												3720 Hecker Rd.					3710 Silver Creek Rd	3780 Silver Creek Rd	3802 Silver Creek Rd	3812 Silver Creek Rd		3902 Silver Creek Rd		4004 Silver Creek Rd	
			10/22/13	11/12/13	6/3/14	8/25/14	11/13/14	10/14/15	10/14/15 (DUP)	3/31/16	10/11/16	5/30/17	10/22/13	11/12/13	6/2/14	3/31/16	5/31/17	5/30/17	5/30/17	5/28/14	1/14/16	11/18/14	10/10/16	11/18/14	10/13/15			
			RSRA Metals (mg/L)	Outside Spigot	Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot							
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Poychlorinated Biphenyls (PCBs) (µg/L):																												
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Field Screening Measurements																												
pH (IU)	--	--	7.83	8.28	7.62	7.87	7.87	7.59	7.59	NM	NM	NM	8.03	7.86	7.43	NM	NM	NM	7.97	NM	8.26	NM	7.96	7.49				
Conductivity (µS)	--	--	757	522	552	657	635	635	NM	NM	NM	NM	775	529	622	NM	NM	NM	520	NM	654	NM	826	917				
Temperature (°C)	--	--	9.82	10.58	14	14.1	14.1	12.51	12.51	NM	NM	NM	9.56	10.58	12.1	NM	NM	NM	10.4	NM	10	NM	9.68	10.88				
Dissolved Oxygen (ppm)	--	--	4.73	8.16	4.6	3.77	3.77	6.25	6.25	NM	NM	NM	3.81	7.26	1.22	NM	NM	NM	NM	1.98	NM	7.75	NM	2.8	3.87			
Redox Potential (mV)	--	--	52.9	100.4	158	245	245	-91.9	-91.9	NM	NM	NM	20.1	87.4	155	NM	NM	NM	112.0	NM	-38.0	NM	65.8	-48.6				

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4156 Silver Creek Rd				4159 Silver Creek Rd												4220 Silver Creek Rd				4314 Silver Creek Rd				4315 Silver Creek Rd							
			5/28/14	3/30/16	12/12/13	1/6/14	6/4/14	6/4/14(DUP)	9/8/14	11/10/14	11/10/14 (DUP)	2/23/15	10/14/15	3/30/16	10/10/16	5/30/17	5/30/14	5/30/17	12/5/13	6/4/14	5/30/17	12/12/13	6/2/14	5/31/17	12/3/13	6/3/14								
			Outside Spigot	Kitchen Sink	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Kitchen Sink	Kitchen Sink	Pump Spigot	Pump Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank							
Volatile Organic Compounds (VOCs) ($\mu\text{g/L}$):																																		
Benzene	5	0.5	< 0.24	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.17	< 0.24	< 0.24	< 0.17	< 0.24	< 0.24	< 0.17	< 0.15	< 0.24									
Bromobenzene	NL	NL	< 0.32	< 0.48	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.15	< 0.32								
Bromoform	4.4	0.44	< 0.35	< 0.46	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.35	< 0.49	< 0.35	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49						
tert-Butylbenzene	NL	NL	< 0.36	< 1.1	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 0.39	< 0.39	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36					
sec-Butylbenzene	NL	NL	< 0.33	< 1.2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.33	< 0.33	< 0.24	< 0.33	< 0.33	< 0.24	< 0.33	< 0.33	< 0.24	< 0.33	< 0.24	< 0.33	< 0.24	< 0.33	< 0.33					
n-Butylbenzene	NL	NL	< 0.35	< 1	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 0.34	< 0.35	< 0.35	< 0.34	< 0.35	< 0.35	< 0.34	< 0.35	< 0.35	< 0.34	< 0.35	< 0.35	< 0.34	< 0.35	< 0.35	< 0.35					
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Carbon Tetrachloride	5	0.5	< 0.33	< 0.51	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51	< 0.21	< 0.33	< 0.21	< 0.33	< 0.33	< 0.21	< 0.33	< 0.21	< 0.33	< 0.21	< 0.33	< 0.21	< 0.33	< 0.21	< 0.33	< 0.21	< 0.33				
Chlorobenzene	NL	NL	< 0.24	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.24	< 0.27	< 0.24	< 0.24	< 0.27	< 0.24	< 0.27	< 0.24	< 0.27	< 0.24	< 0.27	< 0.24	< 0.27	< 0.24	< 0.27					
Chloroethane	400	80	< 0.63	< 0.65	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63					
Chloroform	6	0.6	< 0.28	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.28	< 0.96	< 0.28	< 0.28	< 0.96	< 0.28	< 0.28	< 0.96	< 0.28	< 0.28	< 0.96	< 0.28	< 0.28	< 0.96	< 0.28					
Chloromethane	3	0.3	< 0.81	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3					
2-Chlorotoluene	NL	NL	< 0.21	< 0.4	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.21	< 0.36	< 0.21	< 0.21	< 0.36	< 0.21	< 0.21	< 0.36	< 0.21	< 0.21	< 0.36	< 0.21	< 0.21	< 0.36	< 0.21					
4-Chlorotoluene	NL	NL	< 0.21	< 0.63	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.21	< 0.35	< 0.21	< 0.21	< 0.35	< 0.21	< 0.21	< 0.35	< 0.21	< 0.21	< 0.35	< 0.21	< 0.21	< 0.35	< 0.21					
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 1.4	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 0.88	< 1.88	< 0.88	< 1.88	< 0.88	< 1.88	< 0.88	< 1.88	< 0.88	< 1.88	< 0.88	< 1.88	< 0.88	< 1.88	< 0.88						
Dibromochloromethane	60	6	< 0.22	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.45	< 0.45	< 0.22	< 0.45	< 0.45	< 0.22	< 0.45	< 0.45	< 0.22	< 0.45	< 0.45	< 0.22	< 0.45	< 0.45	< 0.22					
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15				
1,4-Dichlorobenzene	75	15	< 0.3	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.3	< 0.42	< 0.3	< 0.42	< 0.3	< 0.42	< 0.3	< 0.42	< 0.3	< 0.42	< 0.3	< 0.42	< 0.3	< 0.42	< 0.3					
1,3-Dichlorobenzene	600	120	< 0.28	< 0.52	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.28	< 0.45	< 0.28	< 0.45	< 0.28	< 0.45	< 0.28	< 0.45	< 0.28	< 0.45	< 0.28	< 0.45	< 0.28	< 0.45	< 0.28					
1,2-Dichlorobenzene	600	60	< 0.36	< 0.46	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.36	< 0.36	< 0.34	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36					
Dichlorodifluoromethane	1000	200	< 0.44	< 0.87	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38	< 0.44	< 0.38				
1,2-Dichloroethane	5	0.5	< 0.41	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.54	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45				
1,1-Dichloroethane	70	7	< 0.38	< 0.45	0.49 J	< 0.38	0.73 J	< 0.38	0.72 J	< 0.64 J	0.54 J	< 0.59 J	0.52 J	< 0.56 J	0.55 J	< 0.59 J	0.50 J	< 0.55 J	0.50 J	< 0.55 J	0.50 J	< 0.55 J	0.50 J	< 0.55 J	< 0.55 J	< 0.55 J	< 0.55 J	< 0.55 J	< 0.55 J	< 0.55 J				
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35	< 0.54	< 0.35				
2,2-Dichloropropane	5	0.5	< 0.32	< 0.43	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39			
1,3-Dichloropropene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.33	< 0.42	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33	< 0.49	< 0.33			
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Di-isopropyl ether	NL	NL	< 0.23	< 0.44	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.23																			

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4156 Silver Creek Rd		4159 Silver Creek Rd												4220 Silver Creek Rd		4314 Silver Creek Rd			4315 Silver Creek Rd			4609 Silver Creek Rd		
			5/28/14	3/30/16	12/12/13	1/6/14	6/4/14	6/4/14(DUP)	9/8/14	11/10/14	11/10/14 (DUP)	2/23/15	10/14/15	3/30/16	10/10/16	5/30/17	5/30/14	5/30/17	12/5/13	6/4/14	5/30/17	12/12/13	6/2/14	5/31/17	12/3/13	6/3/14	
			Outside Spigot	Kitchen Sink	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Kitchen Sink	Kitchen Sink	Pump Spigot	Pump Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	
RCRA Metals (mg/L):																											
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):																											
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																											
pH (IU)	--	--	7.91	NM	8.75	7.99	7.53	7.53	7.93	7.93	7.94	7.51	NM	NM	7.11	NM	8.05	7.48	NM	8.32	7.38	NM	NM	7.25			
Conductivity (µS)	--	--	683	NM	979	593	562	562	654	646	NM	NM	835	NM	856	958	NM	789	545	NM	NM	526					
Temperature (°C)	--	--	12.2	NM	9.8	9.72	12.4	12.4	11.23	11.23	8.29	12.91	NM	NM	11.4	NM	8.64	11.7	NM	6.8	12.3	NM	NM	12.4			
Dissolved Oxygen (ppm)	--	--	3.76	NM	2.59	5.87	2.3	2.3	4.12	4.12	3.56	3.18	NM	NM	4.54	NM	7.32	2.97	NM	4.01	1.91	NM	NM	2.6			

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FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

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FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3023 CTH CR							
			Original Potable Well			Replacement Potable Well				
			2/4/14 Outside Spigot	6/2/14 Outside Spigot	8/25/14 Outside Spigot	10/8/14 Outside Spigot	11/4/14 Outside Spigot	2/24/15 Outside Spigot	10/13/15 Outside Spigot	10/5/16 Outside Spigot
Volatile Organic Compounds (VOCs) (µg/L):										
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65
cis-1,2-Dichloroethene	70	7	2.84	2.87	2.34	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43
2,2-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.33	< 0.42	< 0.42
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2
Isopropylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82
p-Isopropyltoluene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6
n-Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52
1,1,2-Tetrachloroethene	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48
Tetrachloroethene	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.49	< 0.49	< 0.49	< 0.49
Toluene	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44
1,2,4-Trichlorobenzene	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7
1,2,3-Trichlorobenzene	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7
1,1,1-Trichloroethane	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84
1,1,2-Trichloroethane	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48
Trichloroethene (TCE)	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.47	< 0.47	< 0.47	< 0.47
Trichlorofluoromethane	NL	NL	< 0.71	< 0.71	< 0.71	< 0.71	< 0.87	< 0.87	< 0.87	< 0.87
1,2,3-Trichloropropane	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	--	--	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6
1,3,5-Trimethylbenzene	--	--	< 1.4	< 1.						

TABLE 2

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FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3023 CTH CR							
			Original Potable Well				Replacement Potable Well			
			2/4/14 Outside Spigot	6/2/14 Outside Spigot	8/25/14 Outside Spigot	10/8/14 Outside Spigot	11/4/14 Outside Spigot	2/24/15 Outside Spigot	10/13/15 Outside Spigot	10/5/16 Outside Spigot
RCRA Metals (mg/L):										
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):										
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:										
pH (IU)	--	--	7.32	7.42	7.75	NM	7.7	7.64	7.21	NM
Conductivity (µS)	--	--	404	562	619	NM	2352	2286	2337	NM
Temperature (°C)	--	--	9.16	11.10	12.80	NM	10.30	8.17	13.01	NM
Dissolved Oxygen (ppm)	--	--	NM	1.5	0.87	NM	2.21	3.74	2.63	NM
Redox Potential (mV)	--	--	113.2	152	222	NM	-126.3	-112	-68.2	NM

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FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3120 CTH CR										3224 CTH CR							3312 CTH CR							3322 CTH CR						
			Original Potable Well					Replacement Potable Well					3120 CTH CR				3224 CTH CR				3312 CTH CR				3322 CTH CR								
			1/3/14	2/4/14	5/28/14	5/28/14(DUP)	8/25/14	8/25/14(DUP)	10/8/14	11/4/14	2/23/15	10/13/15	10/6/16	2/4/14	6/4/14	8/25/14	11/17/14	3/31/16	2/26/14	6/2/14	8/26/14	11/10/14	10/5/16	1/6/14	6/4/14	8/25/14	11/10/14	10/13/15					
Volatile Organic Compounds (VOCs) ($\mu\text{g/L}$):																																	
Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44					
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.32	< 0.32	< 0.32	< 0.48	< 0.32	< 0.32	< 0.32	< 0.48	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48				
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.35	< 0.35	< 0.35	< 0.46	< 0.35	< 0.35	< 0.35	< 0.46	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46					
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 0.36	< 0.36	< 0.36	< 1.1	< 0.36	< 0.36	< 0.36	< 1.1	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36				
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 0.33	< 0.33	< 0.33	< 1.2	< 0.33	< 0.33	< 0.33	< 1.2	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2					
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 0.35	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 1				
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.65	< 0.51	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51					
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.46				
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.63	< 0.65	< 0.63	< 0.65					
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.28	< 0.28	< 0.28	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28					
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 0.81	< 0.81	< 1.9	< 0.81	< 0.81	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9				
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21					
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.63					
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 1.4						
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.45						
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49			
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28				
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36				
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44				
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.41	< 0.41	< 0.54	< 0.41	< 0.41	< 0.54	< 0.41	< 0.41	< 0.54	< 0.41	< 0.41	< 0.54	< 0.41	< 0.41	< 0.54	< 0.41	< 0.41				
cis-1,2-Dichloroethene	70	7	2.74	2.86	2.65	2.68	1.89	2.23	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45					
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35				
2,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32				
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33				
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Diisopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.23	< 0.23	< 0.44	< 0.23	< 0.23</																	

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3120 CTH CR										3224 CTH CR						3312 CTH CR						3322 CTH CR					
			Original Potable Well					Replacement Potable Well					3224 CTH CR					3312 CTH CR			3322 CTH CR			3322 CTH CR						
			1/3/14 Pressure Tank	2/4/14 Pressure Tank	5/28/14 Pressure Tank	5/28/14(DUP) Pressure Tank	8/25/14 Pressure Tank	8/25/14(DUP) Pressure Tank	10/8/14 Pressure Tank	11/4/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/6/16 Pressure Tank	2/4/14 Pressure Tank	6/4/14 Pressure Tank	8/25/14 Pressure Tank	11/17/14 Pressure Tank	3/31/16 Pressure Tank	2/26/14 Bath Tub	6/2/14 Bath Tub	8/26/14 Outside Spigot	11/10/14 Outside Spigot	10/5/16 Bath Tub	1/6/14 Kitchen Sink	6/4/14 Kitchen Sink	8/25/14 Kitchen Sink	11/10/14 Kitchen Sink	10/13/15 Kitchen Sink		
RCRA Metals (mg/L):																														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Polychlorinated Biphenyls (PCBs) (ug/L):																														
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements:																														
pH (IU)	--	--	7.51	7.38	7.8	7.8	7.91																							

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3403 CTH CR								3412 CTH CR						3422 CTH CR								
			Original Potable Well				Replacement Potable Well				3403 CTH CR			3412 CTH CR			3422 CTH CR								
			1/3/14	2/5/14	5/28/14	8/25/14	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	10/21/14	11/4/14	2/23/15	10/13/15	10/5/16	1/3/14	8/26/14	11/10/14	3/31/16	1/6/14	5/30/14	8/25/14	11/18/14	10/5/16	
RCRA Metals (mg/L)																									
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):																									
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																									
pH (IU)	--	--	7.51	7.18	7.64	7.74	NM	7.69	7.66	7.15	NM	7.02	7.98	7.95	NM	7.13	7.62	8.07	8	NM					
Conductivity (µS)	--	--	935	682	1060	1094	NM	2528	2436	2361	NM	909	521	512	NM	627	605	633	653	NM					
Temperature (°C)	--	--	7.63	8.12	10.50	12.90	NM	11.76	6.99	16.42	NM	8.99	13.60	10.65	NM	8.81	12.30	14.20	10.56	NM					
Dissolved Oxygen (ppm)	--	--	6.51	5.01	1.19	3.23	NM	1.49	5.2	1.52	NM	5.52	1.25	2.82	NM	5.32	4.07	2.53	7.38	NM					
Redox Potential (mV)	--	--	166.6	32.2	84	236	NM	-219.9	-129.3	-41.4	NM	155.0	238.0	-51.5	NM	142.0	1.3	246.0	-84.2	NM					

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3504 CTH CR																3523 CTH CR				3533 CTH CR				3611 CTH CR			
			Original Potable Well								Replacement Potable Well																			
			12/5/13 Outside Spigot	1/6/14 Basement	1/6/2014 (DUP) Basement	2/5/14 Basement	5/30/14 Basement	5/30/14(DUP) Basement	8/25/14 Basement	8/25/14(DUP) Basement	11/18/14 Basement	11/18/2014 (DUP) Basement	2/23/15 Basement	10/14/15 Basement	3/31/16 Basement	3/31/2016 (DUP) Basement	10/11/16 Basement	10/24/16 Basement	11/8/16 Basement	2/23/17 Basement	1/3/14 Basement	6/3/14 Basement	10/14/15 Basement	1/6/14 Basement	6/3/14 Basement	3/30/16 Basement	5/30/14 Outside Spigot	10/5/16 Outside Spigot		
RCRA Metals (mg/L):																														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):																														
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																														
pH (U)	--	--	8.15	7.53	7.53	7.13	7.39																							

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3618 CTH CR										3626 CTH CR			3627 CTH CR			3904 CTH CR			
			1/3/14	5/29/14	8/25/14	11/10/14	2/23/15	10/14/15	3/30/16	10/6/16	5/30/17	12/5/13	5/30/14	10/14/15	12/5/13	5/29/14	3/30/16	12/5/13	5/28/14	5/30/17	5/30/2017 (DUE)	
			Kitchen Sink	Pressure Tank	Kitchen Sink	Kitchen Sink	Bathroom	Bathroom	Bathroom	Basement	Basement	Basement	Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot						
Volatile Organic Compounds (VOCs) ($\mu\text{g/L}$):																						
α -Benzene	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.44	< 0.24	< 0.24	< 0.44	< 0.24	< 0.24	< 0.17	< 0.17		
3-Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.43	< 0.32	< 0.32	< 0.48	< 0.32	< 0.32	< 0.48	< 0.32	< 0.32	< 0.43	< 0.43		
3-Bromodichloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.37	< 0.37	< 0.46	< 0.37	< 0.37	< 0.46	< 0.37	< 0.37	< 0.31	< 0.31	
3-Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.35	< 0.35	< 0.46	< 0.35	< 0.35	< 0.46	< 0.35	< 0.35	< 0.49	< 0.49	
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 0.39	< 0.36	< 0.36	< 1.1	< 0.36	< 0.36	< 1.1	< 0.36	< 0.36	< 0.39	< 0.39	< 0.39	
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 0.24	< 0.33	< 0.33	< 1.2	< 0.33	< 0.33	< 1.2	< 0.33	< 0.33	< 0.24	< 0.24	< 0.24	
1-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 0.34	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.21	< 0.33	< 0.51	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.21	< 0.21	
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.27	< 0.27	
Chloroethane	400	80	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.5	< 0.5	< 0.5	
Chloroform	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.28	< 0.28	< 0.43	< 0.28	< 0.28	< 0.43	< 0.28	< 0.28	< 0.96	< 0.96	
Chloromethane	3	0.3	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.3	< 0.81	< 0.81	< 1.9	< 0.81	< 0.81	< 1.9	< 0.81	< 0.81	< 1.3	< 1.3	< 1.3	
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.21	< 0.4	< 0.21	< 0.21	< 0.4	< 0.21	< 0.21	< 0.36	< 0.36	< 0.36	
3-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.35	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.35	< 0.35	< 0.35	
2,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 1.88	< 1.88	< 1.88	< 1.88	
1-Bromochloromethane	60	6	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.45	< 0.22	< 0.45	< 0.22	< 0.45	< 0.22	< 0.45	< 0.22	< 0.45	< 0.45	< 0.45	
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.42	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.42	< 0.42
3,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.45	< 0.45	< 0.45	
2,3-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.36	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.34	< 0.34	< 0.34	
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.44	< 0.38	< 0.38	< 0.38	
2,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.45	< 0.41	< 0.48	< 0.41	< 0.41	< 0.48	< 0.41	< 0.41	< 0.41	< 0.45	< 0.45	< 0.45	
2,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 0.42	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.3	< 0.3	< 0.42	< 0.42
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.4	< 0.65	< 0.4	< 0.65	< 0.4	< 0.65	< 0.4	< 0.4	< 0.46	< 0.46	
cis-1,2-Dichloroethene	70	7	1.24	1.16 J	0.48 J	0.83 J	0.95 J	0.89 J	1.06 J	0.88 J	0.99 J	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45	< 0.41	< 0.41
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	
2,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.39	< 0.39	
2,3-Dichloropropane	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< NA	< 0.36	< 0.36	< 3.1	< 0.36	< 0.36	< 3.1	< 0.36	< 0.36	NA	NA	NA	
1,3-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	< 0.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	< 0.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	
Di-isopropyl ether	NL	NL	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.23	< 0.23	< 0.44	< 0.23	< 0.23	< 0.44	< 0.23	< 0.23	< 0.23	< 0.26	< 0.26	
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.34	< 0.44	< 0.44	< 0.63	< 0.44	< 0.44	< 0.63	< 0.44	< 0.44	< 0.44	< 0.34	< 0.34	
Ethylbenzene	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.2	< 0.55	< 0.55	< 0.71	< 0.55	< 0.55	< 0.71	< 0.55	< 0.55	< 0.55	< 0.2	< 0.2	
Hexachlorobutadiene	NL	NL	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.5	< 2.2	< 1.47	< 1.5	< 2.2	< 1.5	< 2.2	< 1.5	< 2.2	< 1.47	< 1.47	
Propylbenzene	NS	NS	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.3	< 0.3	< 0.82	< 0.3	< 0.3	< 0.82	< 0.3	< 0.3	< 0.29	< 0.29	< 0.29	
Isopropylbenzene	NL	NL	< 0.31	< 0.31	< 0.31	< 0.31	< 0.41	< 0.41	< 0.41	< 0.28	< 0.31	< 0.31	< 0.41	< 0.31	< 0.31	< 0.41	< 0.31	< 0.31	< 0.28	< 0.28	< 0.28	
Methylene Chloride	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.94	< 0.5	< 0.5	< 1.3	< 0.5	< 0.5	< 1.3	< 0.5	< 0.5	< 0.5	< 0.94	< 0.94	
Methyl tert-butyl ether (MTBE)	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 0.82	< 0.23	< 0.23	< 1.1	< 0.82	< 0.23	< 0.23	< 1.1	< 0.82	< 0.23	< 0.23	< 0.23	
Naphthalene	100	10	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 0.98	< 0.27	< 0.27	< 1.6	< 0.98	< 0.27	< 0.27	< 1.6	< 0.98	< 0.98	< 1.29	< 1.29	
Propylbenzene	NL	NL	< 0.25	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.19	< 0.25	< 0.25	< 0.77	< 0.19	< 0.25	< 0.25	< 0.77	< 0.25	< 0.25	< 0.19	< 0.19	
Styrene	100	10	NA	NA	NA	NA	NA	NA	NA	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	
1,1,2,2-Tetrachloroethane	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.45	< 0.45	< 0.52	< 0.45	< 0.45	< 0.52	< 0.45	< 0.45	< 0.45	< 0.69	< 0.69	
1,1,2,3-Tetrachloroethane	70	7	< 0.33	< 0.33	< 0.33	< 0.48</td																

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3618 CTH CR									3626 CTH CR			3627 CTH CR			3904 CTH CR						
			1/3/14	5/29/14	8/25/14	11/10/14	2/23/15	10/14/15	3/30/16	10/6/16	5/30/17	12/5/13	5/30/14	10/14/15	12/5/13	5/29/14	3/30/16	12/5/13	5/28/14	5/30/17	5/30/2017 (D)			
			Kitchen Sink	Pressure Tank	Kitchen Sink	Kitchen Sink	Kitchen Sink	Bathroom	Bathroom	Bathroom	Basement	Basement	Basement	Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot							
RCRA Metals (mg/L):																								
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):																								
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																								
pH (IU)	--	--	7.02	7.8	7.87	7.95	7.95	7.79	NM	NM	NM	8.42	7.58	7.86	8.49	7.5	NM	8.05	7.88	NM	NM	NM	NM	
Conductivity (µS)	--	--	543	520	658	674	674	649	NM	NM	NM	519	500	578	655	861	NM	828	905	NM	NM	NM	NM	
Temperature (°C)	--	--	9.02	7.80	18.30	11.33	11.33	16.22	NM	NM	NM	8.69	11.98	11.99	12.16	15.1	NM	8.43	11.5	NM	NM	NM	NM	
Dissolved Oxygen (ppm)	--	--	5.32	2.24	0.8	1.44	1.44	1.49	NM	NM	NM	5.73	1.83	2.52	4.92	1.46	NM	5.32	3.84	NM	NM	NM	NM	
Redox Potential (mV)	--	--	147.6	136	238	-102.5	-102.5	-14.7	NM	NM	NM	90.0	143.0	-110.8	91.3	152	NM	96.9	138	NM	NM	NM	NM	

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4024 CTH CR			4101 CTH CR		4125 CTH CR		4002 Thunder Ridge Rd.																									
			12/12/13		5/28/14	10/6/16	5/29/14		10/14/15	5/31/17		5/31/17 (DUP)		1/3/14		8/25/14		10/13/15		10/13/2015 (DUP)		10/27/15		3/31/16		3/31/16 (DUP)		5/23/16		6/2/16		6/23/16		10/5/16	
			Spigot in Barn	Spigot in Barn	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank									
Volatile Organic Compounds (VOCs) ($\mu\text{g/L}$):																																			
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.24	< 0.44	< 0.17	< 0.17	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44					
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.48	< 0.32	< 0.48	< 0.43	< 0.43	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48					
Bromochloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Bromodichloromethane	0.6	0.06	< 0.37	< 0.37	< 0.46	< 0.37	< 0.46	< 0.31	< 0.31	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46					
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.46	< 0.35	< 0.46	< 0.49	< 0.49	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46					
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 1.1	< 0.36	< 1.1	< 0.39	< 0.39	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1					
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 1.2	< 0.33	< 1.2	< 0.24	< 0.24	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2					
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 1	< 0.35	< 1	< 0.34	< 0.34	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1					
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.51	< 0.33	< 0.51	< 0.21	< 0.21	< 0.33	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51						
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.24	< 0.46	< 0.27	< 0.27	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46						
Chloroethane	400	80	< 0.63	< 0.63	< 0.65	< 0.63	< 0.65	< 0.5	< 0.5	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65						
Chloroform	6	0.6	< 0.28	< 0.28	< 0.43	< 0.28	< 0.43	< 0.96	< 0.96	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43						
Chloromethane	3	0.3	< 0.81	< 0.81	< 1.9	< 0.81	< 1.9	< 1.3	< 1.3	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9					
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.4	< 0.21	< 0.4	< 0.4	< 0.36	< 0.36	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4						
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.63	< 0.21	< 0.63	< 0.35	< 0.35	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63						
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 1.4	< 0.88	< 1.4	< 1.88	< 1.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4						
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.45	< 0.22	< 0.45	< 0.45	< 0.22	< 0.45	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45						
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA					
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.49	< 0.3	< 0.49	< 0.42	< 0.42	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49						
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.52	< 0.28	< 0.52	< 0.45	< 0.45	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52						
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.46	< 0.36	< 0.46	< 0.34	< 0.34	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46						
Dichlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.44	< 0.87	< 0.38	< 0.38	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44						
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.48	< 0.41	< 0.48	< 0.41	< 0.48	< 0.41	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48						
cis-1,2-Dichloroethene	70	7	< 0.38	< 0.38	< 0.45	< 0.38	< 0.45	< 0.41	< 0.41	< 1.67	< 1.29	< 1.3 J	< 1.14 J	< 1.26 J	< 0.68 J	< 1.03 J	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45								
trans-1,2-Dichloroethene	100	20	< 0.35	< 0.35	< 0.54	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54							
1,2-Dichloropropane	5	0.5	< 0.32	< 0.32	< 0.43	< 0.32	< 0.43	< 0.39	< 0.39	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43							
cis-1,2-Dichloropropene	NL	NL	< 0.36	< 0.36	< 3.1	< 0.36	< 3.1	< 0.49	< 0.49	< 0.33	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49							
trans-1,3-Dichloropropene	NL	NL	< 0.25	< 0.25	< 0.77	< 0.25	< 0.77	< 0.19	< 0.19	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25							
Diisopropyl ether	NL	NL	< 0.23	< 0.23	< 0.44	< 0.23	< 0.44	< 0.26	< 0.26	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44						
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.44	< 0.44	< 0.63	< 0.44	< 0.63	< 0.34	< 0.34	&																									

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4024 CTH CR			4101 CTH CR			4125 CTH CR			4002 Thunder Ridge Rd.											
			12/12/13	5/28/14	10/6/16	5/29/14	10/14/15	5/31/17	5/31/17 (DUP)	1/3/14	8/25/14	10/13/15	10/13/2015 (DUP)	10/27/15	3/31/16	3/31/16 (DUP)	5/23/16	6/2/16	6/23/16	10/5/16			
			Spigot in Barn	Spigot in Barn	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank									
REGRA Metals (mg/L):																							
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Banum	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Polychlorinated Biphenyls (PCBs) (µg/L):																							
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Field Screening Measurements																							
pH (IU)	--	--	8.32	7.65	NM	7.42	7.65	NM	NM	7.21	7.32	7.45	7.45	NM									
Conductivity (µS)	--	--	599	565	NM	598	687	NM	NM	583	740	774	774	NM									
Temperature (°C)	--	--	5.6	12.3	NM	12.4	12.93	NM	NM	8.51	13.1	12.74	12.74	NM									
Dissolved Oxygen (ppm)	--	--	4.71	1.44	NM	2.3	2.54	NM	NM	5.32	3.49	1.42	1.42	NM									
Redox Potential (mV)	--	--	99	124	NM	126	-75	NM	NM	159.0	237.0	-135.8	-135.8	NM									

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4005 Thunder Ridge Rd.										4010 Thunder Ridge Rd.										
			Original Potable Well							Replacement Potable Well	Original Potable Well							Replacement Potable Well					
			5/29/14	8/26/14	11/11/14	2/23/15	10/14/15	3/30/16	10/10/16	10/24/16	11/8/16	5/30/17	5/28/14	8/26/14	2/24/15	10/20/15	3/31/16	10/7/16	10/24/16	5/31/17			
Volatile Organic Compounds (VOCs) (µg/L):																							
Benzene	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17			
Bromobenzene	NL	NL	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43			
Bromoform	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31			
tert-Butylbenzene	NL	NL	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.39	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.39			
sec-Butylbenzene	NL	NL	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24			
n-Butylbenzene	NL	NL	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 1	< 0.34	< 0.35	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 0.34		
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Tetrachloride	5	0.5	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.21	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.21			
Chlorobenzene	NL	NL	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27			
Chloroethane	400	80	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5			
Chloroform	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96			
Chloromethane	3	0.3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3			
2-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36			
4-Chlorotoluene	NL	NL	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35			
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88			
Dibromochloromethane	60	6	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45		
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	75	15	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42			
1,3-Dichlorobenzene	600	120	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45			
1,2-Dichlorobenzene	600	60	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34			
Chlorodifluoromethane	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38			
1,2-Dichloroethane	5	0.5	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45			
1,1-Dichloroethane	850	85	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42		
1,1-Dichloroethene	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46			
cis-1,2-Dichloroethene	70	7	0.83 J	0.9 J	< 0.38	0.81 J	0.91 J	0.97 J	1.35 J	1.1 J	0.66 J	0.41	1.37	1.18 J	1.43	1.43	1.27 J	1.47 J	1.47 J	1.42	< 0.41		
trans-1,2-Dichloroethene	100	20																					

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4005 Thunder Ridge Rd.										4010 Thunder Ridge Rd.										
			Original Potable Well								Replacement Potable Well	Original Potable Well								Replacement Potable Well			
			5/29/14 Outside Spigot	8/26/14 Outside Spigot	11/11/14 Outside Spigot	2/23/15 Outside Spigot	10/14/15 Outside Spigot	3/30/16 Outside Spigot	10/10/16 Outside Spigot	10/24/16 Outside Spigot		5/30/17 Pressure Tank	5/28/14 Outside Spigot	8/26/14 Outside Spigot	2/24/15 Pressure Tank	10/20/15 Outside Spigot	3/31/16 Outside Spigot	10/7/16 Outside Spigot	10/24/16 Outside Spigot	5/31/17 Outside Spigot			
RCRA Metals (mg/L):																							
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):																							
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																							
pH (IU)	--	--	7.75	8.06	8.00	8.06	7.23	NM	NM	NM	NM	7.97	7.85	8.15	7.71	NM	NM	NM	NM	NM	NM	NM	
Conductivity (µS)	--	--	663	781	774	744	778	NM	NM	NM	NM	687	742	746	0.762	NM	NM	NM	NM	NM	NM	NM	
Temperature (°C)	--	--	12	14.9	9.71	8.1	10.7	NM	NM	NM	NM	14.2	13.3	8.83	12.79	NM	NM	NM	NM	NM	NM	NM	
Dissolved Oxygen (ppm)	--	--	1.43	1.35	1.66	8.33	4.65	NM	NM	NM	NM	0.99	2.35	6.62	4.18	NM	NM	NM	NM	NM	NM	NM	
Redox Potential (mV)	--	--	122.0	199.0	-120.9	-195.4	-73.6	NM	NM	NM	NM	118.0	245.0	-158.0	-99.1	NM	NM	NM	NM	NM	NM	NM	

TABLE 3

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4027 Thunder Ridge Rd.										4101 Thunder Ridge Rd.										4111 Thunder Ridge Rd.						
			5/29/14	8/26/14	11/11/14	11/11/14 (DUP)	2/24/15	10/13/15	3/31/16	10/6/16	10/6/16 (DUP)	5/30/17	8/26/14	11/17/14	3/11/15	10/14/15	3/30/16	11/8/16	5/30/17	8/25/14	11/17/14	2/23/15	10/13/15	3/30/16	10/10/16	5/30/17			
			Outside Spigot	Outside Spigot	Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Pressure Tank	Outside Spigot	Outside Spigot	Outside Spigot														
RCRA Metals (mg/L):																													
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated Biphenyls (PCBs) (µg/L):																													
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements																													
pH (IU)	--	--	7.52	7.43	7.95	7.95	7.94	7.25	NM	NM	NM	7.75	7.7	NM	6.91	NM	NM	NM	7.65	7.99	7.98	7.68	NM	NM	NM	NM	NM	NM	
Conductivity (µS)	--	--	702	837	890	890	1928	820	NM	NM	NM	836	777	NM	846	NM	NM	NM	809	786	818	827	NM	NM	NM	NM	NM	NM	
Temperature (°C)	--	--	12	13	11.13	11.13	8.09	11.61	NM	NM	NM	15.4	9.74	NM	10.58	NM	NM	NM	12.8	8.88	7.83	13.73	NM	NM	NM	NM	NM	NM	
Dissolved Oxygen (ppm)	--	--	2.1	1.96	3.25	3.25	4.48	3.29	NM	NM	NM	1.4	1.24	NM	3.21	NM	NM	NM	0.97	5.9	4.31	1.68	NM	NM	NM	NM	NM	NM	
Redox Potential (mV)	--	--	132.0	229.0	-109.8	-109.8	-150.9	-79.9	NM	NM	NM	236.0	-33.7	NM	-66.8	NM	NM	NM	236.0	-41.4	-155.3	-120.9	NM	NM	NM	NM	NM	NM	

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	4127 Thunder Ridge Rd.			3107 Fricke Dr.	3617(3621) Viebahn St.							3701 Viebahn St.							3815 Viebahn St.							Well Abandoned; City Water Provided December 2015		
			12/5/13	5/29/14	3/30/16		12/5/13	11/7/14	11/19/14	2/24/15	2/24/15 (DUP)	10/13/15	3/30/16	10/29/14	11/7/14	11/7/14 (DUP)	2/23/15	2/23/15 (DUP)	10/14/15	10/14/2015 (DUP)	11/7/14	11/19/14	2/23/15	10/13/15	10/13/15 (DUP)	11/7/14	11/19/14	2/23/15	10/13/15	10/13/15 (DUP)
			Outside Spigot	Outside Spigot	Outside Spigot		Well Pump	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank							
RCRA Metals (mg/L):																														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Polychlorinated Biphenyls (PCBs) (µg/L):																														
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																														
pH (IU)	--	--	8.24	7.32	NM	7.63	8.12	7.99	8.32	8.32	7.39	NM	8.38	7.76	7.76	8.04	8.04	7.32	7.32	8.01	7.63	7.68	7.43	7.43						
Conductivity (uS)	--	--	1033	1046	NM	561	646	590	511	511	663	NM	630	658	658	618	618	624	624	644	561	664	645	645						

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3817 Viebahn St.							3825 Viebahn St.							4025 Viebahn St.							4101 Viebahn St.				4219 Viebahn St.	5107 Viebahn St.	
			10/29/14 11/7/14 2/24/15 10/20/15 3/31/16 10/6/16 5/30/17							10/29/14 11/7/14 2/23/15 2/23/15 (DUP) 10/14/15 3/31/16 10/6/16							10/29/14 11/7/14 2/24/15 10/13/15							Original Potable Well						
			Outside Spigot	Outside Spigot	Pressure Tank	Outside Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank												
RCRA Metals (mg/L):																														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Poychlorinated Biphenyls (PCBs) (µg/L):																														
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements																														
pH (IU)	--	--	7.83	8.31	8.13	8.27	NM	NM	7.87	8.21	8.03	8.03	7.67	NM	NM	7.87														

TABLE 2

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3609 M&M Ln.		3027 Orchard Ln.								3128 Orchard Ln.				3318 Orchard Ln.			3420 Orchard Ln.			3523 Orchard Ln.		3524 Orchard Ln.				
					12/4/13	12/16/13	2/5/14	6/4/14	8/28/14	11/11/14	3/11/15	10/14/15	3/31/16	10/6/16	5/31/17	2/4/14	6/4/14	10/14/15	7/11/14	10/24/16	2/4/14	6/2/14	10/6/16	2/4/14	5/28/14	2/4/14	6/2/14	6/2/2014(DUP)	10/13/15
			Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Outside Spigot	Outside Spigot	Kitchen Sink	Kitchen Sink	Outside Spigot	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink
RCRA Metals (mg/L):																													
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sliver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):																													
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements																													
pH (IU)	--	--	NM	NM	7.21	7.25	7.82	8.03	NM	7.88	NM	NM	7.32	7.63	7.61	7.52	NM	7.1	8.06	NM									

TABLE 2

SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3911 Black Hawk Ct.			3921 Black Hawk Ct.								
			7/8/15 10/6/16 5/31/17			2/4/14 6/2/14 8/26/14			11/10/14 2/24/15 10/14/15			3/31/16 10/5/16 5/30/17		
			Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
Volatile Organic Compounds (VOCs) ($\mu\text{g/L}$):														
Benzene	5	0.5	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	
Bromobenzene	NL	NL	< 0.48	< 0.48	< 0.43	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	
Bromo-chloromethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromo-dichloromethane	0.6	0.06	< 0.46	< 0.46	< 0.31	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	
Bromoform	4.4	0.44	< 0.46	< 0.46	< 0.49	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.49	
tert-Butylbenzene	NL	NL	< 1.1	< 1.1	< 0.39	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 0.39	
sec-Butylbenzene	NL	NL	< 1.2	< 1.2	< 0.24	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	
n-Butylbenzene	NL	< 1	< 1	< 0.34	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 0.34	
Carbon Disulfide	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon Tetrachloride	5	0.5	< 0.51	< 0.51	< 0.21	< 0.33	< 0.33	< 0.33	< 0.51	< 0.51	< 0.51	< 0.51	< 0.21	
Chlorobenzene	NL	NL	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	
Chloroethane	400	80	< 0.65	< 0.65	< 0.5	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	
Chloroform	6	0.6	< 0.43	< 0.43	< 0.96	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	
Chloromethane	3	0.3	< 1.9	< 1.9	< 1.3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	
2-Chlorotoluene	NL	NL	< 0.4	< 0.4	< 0.36	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	
4-Chlorotoluene	NL	NL	< 0.63	< 0.63	< 0.35	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02	< 1.4	< 1.4	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	
Dibromochloromethane	60	6	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	
Dibromomethane	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	75	15	< 0.49	< 0.49	< 0.42	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	
1,3-Dichlorobenzene	600	120	< 0.52	< 0.52	< 0.45	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	
1,2-Dichlorobenzene	600	60	< 0.46	< 0.46	< 0.34	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	
Dichlorodifluoromethane	1000	200	< 0.87	< 0.87	< 0.38	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	
1,2-Dichloroethane	5	0.5	< 0.48	< 0.48	< 0.45	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.54	< 0.45	
1,1-Dichloroethane	850	85	< 1.1	< 1.1	< 0.42	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	
1,1-Dichloroethene	7	0.7	< 0.65	< 0.65	< 0.46	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	
cis-1,2-Dichloroethene	70	7	< 0.45	0.59 J	< 0.41	0.87 J	0.97 J	1.14 J	0.65 J	0.93 J	1.04 J	0.71 J	0.63	0.57 J
trans-1,2-Dichloroethene	100	20	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	
1,2-Dichloropropane	5	0.5	< 0.43	< 0.43	< 0.39	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	
2,2-Dichloropropane	NL	NL	< 3.1	< 3.1	NA	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	< NA	
1,3-Dichloropropane	NL	NL	< 0.33	< 0.33	< 0.49	< 0.33	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.42	< 0.49	
1,1-Dichloropropene	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
cis-1,3-Dichloropropene	0.4	0.04	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	< 0.21	
trans-1,3-Dichloropropene	0.4	0.04	NA	NA	< 0.42	NA	NA	NA	NA	NA	NA	NA	< 0.42	
Di-isopropyl ether	NL	NL	< 0.44	< 0.44	< 0.26	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	
EDB (1,2-Dibromoethane)	0.05	0.005	< 0.63	< 0.63	< 0.34	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	
Ethylbenzene	700	140	< 0.71	< 0.71	< 0.2	< 0.55	< 0.55	< 0.55	< 1.7	< 1.7	< 1.7	< 1.7	< 0.2	
Hexachlorobutadiene	NL	NL	< 2.2	< 2.2	< 1.47	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	
Isopropylbenzene	NS	NS	< 0.82	< 0.82	< 0.29	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	
p-Isopropyltoluene	NL	NL	< 1.1	< 1.1	< 0.28	< 0.31	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 0.28	
Methylene Chloride	5	0.5	< 1.3	< 1.3	< 0.94	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	<	

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SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	ES ⁽¹⁾	PAL ⁽²⁾	3911 Black Hawk Ct.			3921 Black Hawk Ct.								
			7/8/15	10/6/16	5/31/17	2/4/14	6/2/14	8/26/14	11/10/14	2/24/15	10/14/15	3/31/16	10/5/16	5/30/17
			Spigot	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank
RCRA Metals (mg/L):														
Antimony	0.006	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.01	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	0.004	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.005	0.0005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.1	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1.3	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.015	0.0015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	0.05	0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.002	0.0002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	0.1	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	0.05	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	increase of 10		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.002	0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Poychlorinated Biphenyls (PCBs) (µg/L):														
Aroclor-1016	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements														
pH (IU)	--	--	NM	NM	NM	7.21	7.61	7.45	7.95	7.99	7.5	NM	NM	NM
Conductivity (µS)	--	--	NM	NM	NM	468	636	762	754	810	742	NM	NM	NM
Temperature (°C)	--	--	NM	NM	NM	10.06	12.7	14.3	11.85	8.8	13.77	NM	NM	NM
Dissolved Oxygen (ppm)	--	--	NM	NM	NM	NM	2.83	1.34	5.53	7.64	2.48	NM	NM	NM
Redox Potential (mV)	--	--	NM	NM	NM	100.3	148	206	-27.2	-160.9	-124.6	NM	NM	NM

**SUMMARY OF CONTAMINATES ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

NOTES:

(¹) Enforcement Standard from NR140, January 2012.

(²) Preventive Action Limit from NR140, January 2012.

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

ND - Not detected.

NM - Not measured.

NS - Not sampled.

J - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

Q - Compound was detected at a concentration between the limit of detection (LOD) and the limit of quantitation (LOQ).

& - LCS recovery was outside of control limits.

H - Holding time exceeded by (n) days

D - The result is from a dilution analysis.

A - Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

ED - Elevated detection limit due to matrix effects.

MS - Either the matrix spike or matrix spike duplicate was outside of the acceptable control limits. All other supporting QC was within the acceptable control limits.

E - Analyte concentration exceeds calibration range (see Sample Narrative).

* - Duplicate analyses not within control limits.

B(x) - Analyte is detected in the method blank at "x" concentration. Method blank criteria is evaluated to the laboratory LOD. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.

N - Spiked sample recovery not within control limits; post-digestion spike recovery accepted.

B - Analyte found in method blank.

OC - Elevated reporting limit due to analyte concentration.

Bold indicates a PAL exceedance.

Bold and underlining indicates an ES exceedance.

Table 3
POTABLE WELL MONITORING WORK PLAN

SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (UPDATED JUNE 2017)
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	Map Color Code	Date of Previous Sampling Event	2017		2018		2019		2020		2021	
			May	October								
Target Zone Wells (semi-annual sampling)												
3817 Viebahn St	●	May 2017	4	1	1	1	1	1	1	1	1	1
3327 Hecker Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
3461(3417) Hecker Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
3702 Hecker Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
3618 CTH CR	●	May 2017	4	1	1	1	1	1	1	1	1	1
4027 Thunder Ridge Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
4101 Thunder Ridge Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
4111 Thunder Ridge Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
3911 Blackhawk Ct	●	May 2017	4	1	1	1	1	1	1	1	1	1
3921 Black Hawk Ct	●	May 2017	4	1	1	1	1	1	1	1	1	1
4159 Silver Creek Rd	●	May 2017	4	1	1	1	1	1	1	1	1	1
3027 Orchard Ln	●	May 2017	4	1	1	1	1	1	1	1	1	1
Target Zone Sentinel Wells (sample annually)												
3320 Hecker Rd	●	Oct 2016		1		1		1		1		1
3825 Viebahn St	●	Oct 2016		1		1		1		1		1
2832 (2904) CTH CR	●	Oct 2016		1		1		1		1		1
2911 CTH CR	●	Oct 2016		1		1		1		1		1
3224 CTH CR	●	Oct 2016		1		1		1		1		1
3312 CTH CR	●	Oct 2016		1		1		1		1		1
3322 CTH CR	●	Oct 2016		1		1		1		1		1
3412 CTH CR	●	Oct 2016		1		1		1		1		1
3422 CTH CR	●	Oct 2016		1		1		1		1		1
3523 CTH CR	●	Oct 2016		1		1		1		1		1
3533 CTH CR	●	Oct 2016		1		1		1		1		1
3611 CTH CR	●	Oct 2016		1		1		1		1		1
3626(3626B) CTH CR	●	Oct 2016		1		1		1		1		1
3627 CTH CR	●	Oct 2016		1		1		1		1		1
Sentinel Zone 3-Year Wells (sample every 3rd year)												
3625 Hecker Rd	●	Oct 2016						1				Oct 2022
2717 CTH CR (4141 Viebahn St) non-potable well	●	Oct 2016						1				Oct 2022
2716 CTH CR	●	Oct 2015					1					1
3904 CTH CR	●	May 2017	4						1			
4024 CTH CR	●	Oct 2016						1				Oct 2022
4101 CTH CR	●	Oct 2015				1						1
4127 Thunder Ridge Rd	●	March 2016						1				May 2022
3128 Orchard Ln	●	Oct 2015				1						1
4212 Silver Creek Rd												
4220 Silver Creek Rd (3 Properties Share Well)	●	May 2017	4						1			
4236 Silver Creek Rd												
4314 Silver Creek Rd	●	June 2014	4						1			
Sentinel Zone 5-Year Wells (sample every 5th year)												
4219 Viebahn St	●	Oct 2015							1			
3121 Hecker Rd	●	Oct 2015							1			
3720 Hecker Rd	●	March 2016								1		
3627 Hecker Rd	●	May 2017	4									May 2022
2706 CTH CR	●	Oct 2016										1
4125 CTH CR	●	May 2017	4									May 2022
3318 Orchard Ln.	●	Oct 2016										1
3420 Orchard Ln.	●	Oct 2016										1
3524 Orchard Ln.	●	Oct 2015							1			
3710 Silver Creek Rd	●	May 2017	4									May 2022
3780 Silver Creek Rd	●	May 2017	4									May 2022
3802 Silver Creek Rd	●	May 2017	4									May 2022
3812 Silver Creek Rd	●	January 2016								1		
3902 Silver Creek Rd	●	Oct 2016										1
4004 Silver Creek Rd	●	Oct 2015							1			
4156 Silver Creek Rd	●	March 2016								1		
4315 Silver Creek Rd	●	May 2017	4									May 2022
Replacement Wells (sample every 5th year)												
3303 Hecker Rd	●	Oct 2016										1
3515 Hecker Rd	●	Oct 2016										1
3518 Hecker Rd	●	Oct 2016										1
3609 Hecker Rd	●	Oct 2016										1
3023 CTH CR	●	Oct 2016										1
3120 CTH CR	●	Oct 2016										1
3403 CTH CR	●	Oct 2016										1
3504 CTH CR	●	Feb 2017	4									1
4002 Thunder Ridge Rd	●	Oct 2016										1
4005 Thunder Ridge Rd	●	May 2017	4									May 2022
4010 Thunder Ridge Rd	●	May 2017	4									May 2022

SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (UPDATED JUNE 2017)
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Well Address	Map Color Code	Date of Previous Sampling Event	2017		2018		2019		2020		2021	
			May	October								
Historically Sampled Wells												
5107 Veibahn St	▲	December 2013										
2925 Fricke Rd	▲	Feb 1993										
3107 Fricke Rd	▲	December 2013										
3610 Gass Lake Rd	▲	Feb 1993										
3609 M&M Ln	▲	December 2013										
3717 M&M Ln	▲	Feb 1993										
3840 M&M Ln	▲	Feb 1993										
3114 Hecker Rd	▲	May 2014										
2881 CTH CR	▲	Well Out of Service										
4314 Silver Creek Rd	▲	June 2014										
4609 Silver Creek Rd	▲	June 2014										
4620 Silver Creek Rd (two wells)	▲	May 2014										
4752 Silver Creek Rd	▲	June 2014										
4808 Silver Creek Rd	▲	May 2014										
5202 Silver Creek Rd	▲	December 2013										
3523 Orchard Ln	▲	May 2014										
Former Potable Wells Now Connected to City Water												
3617(3621) Viebahn St	○	March 2016										
3701 Viebahn St	○	Oct 2015										
3815 Viebahn St	○	Oct 2015										
4025 Viebahn St	○	Oct 2015										
4101 Viebahn St	○	Oct 2015										
2716 CTH CR (4141 Viebahn St)	○	Oct 2015										
2734(2804) CTH CR	○	Oct 2015										
2916 CTH CR	○	Oct 2015										
2917 CTH CR	○	Oct 2015										
		Wells Sampled per Event	24	26	12	29	13	29	15	30	15	42

Notes:

4 indicates sample has been collected and the sampling event is complete

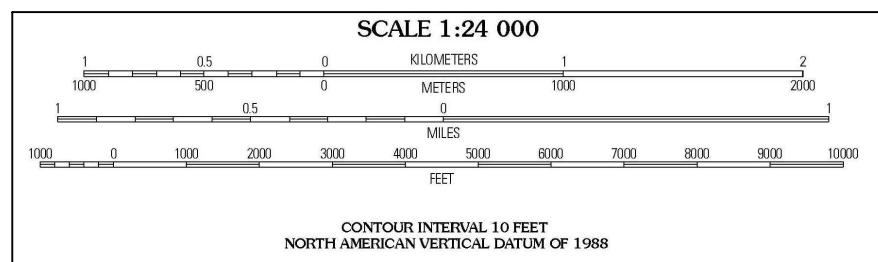
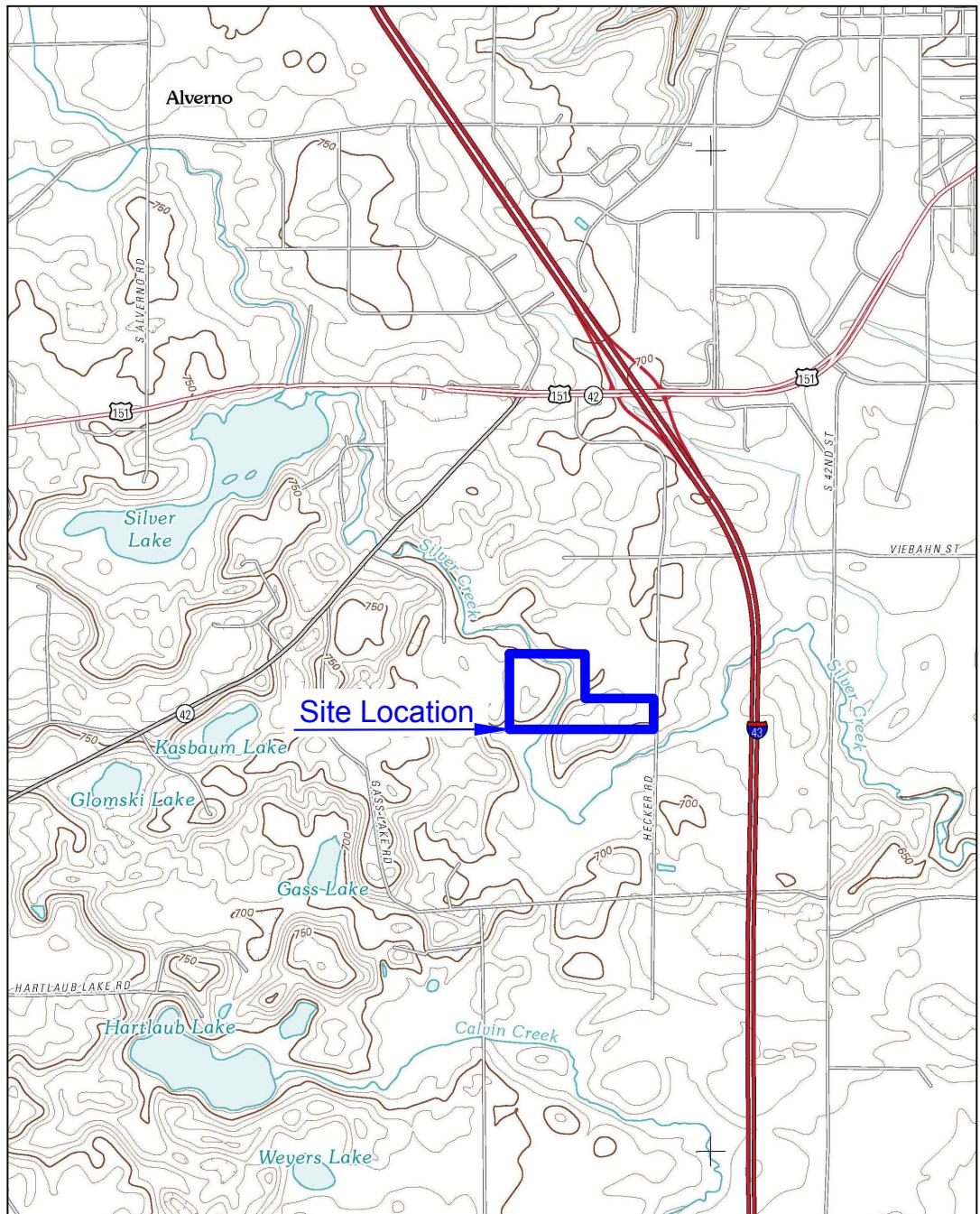
Wells are typically up-gradient or side gradient - no additional sampling anticipated

City Water Provided - No Potable Well Sampling Required

Figures:

Figure 1; Site Location

Figure 2; May 2017 Potable Well Sampling Results



Topographic Map courtesy of the
United States Geological Survey

[http://store.usgs.gov/b2c_usgs/usgs/maplocator/ctype=areaDetails&xcm=3standardpix_prd&area=%24ROOT&layout=6_1_61_48&uiarea=2\).do](http://store.usgs.gov/b2c_usgs/usgs/maplocator/ctype=areaDetails&xcm=3standardpix_prd&area=%24ROOT&layout=6_1_61_48&uiarea=2).do)

Map Date: 2010

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

FORMER NEWTON GRAVEL PIT

SITE LOCATION

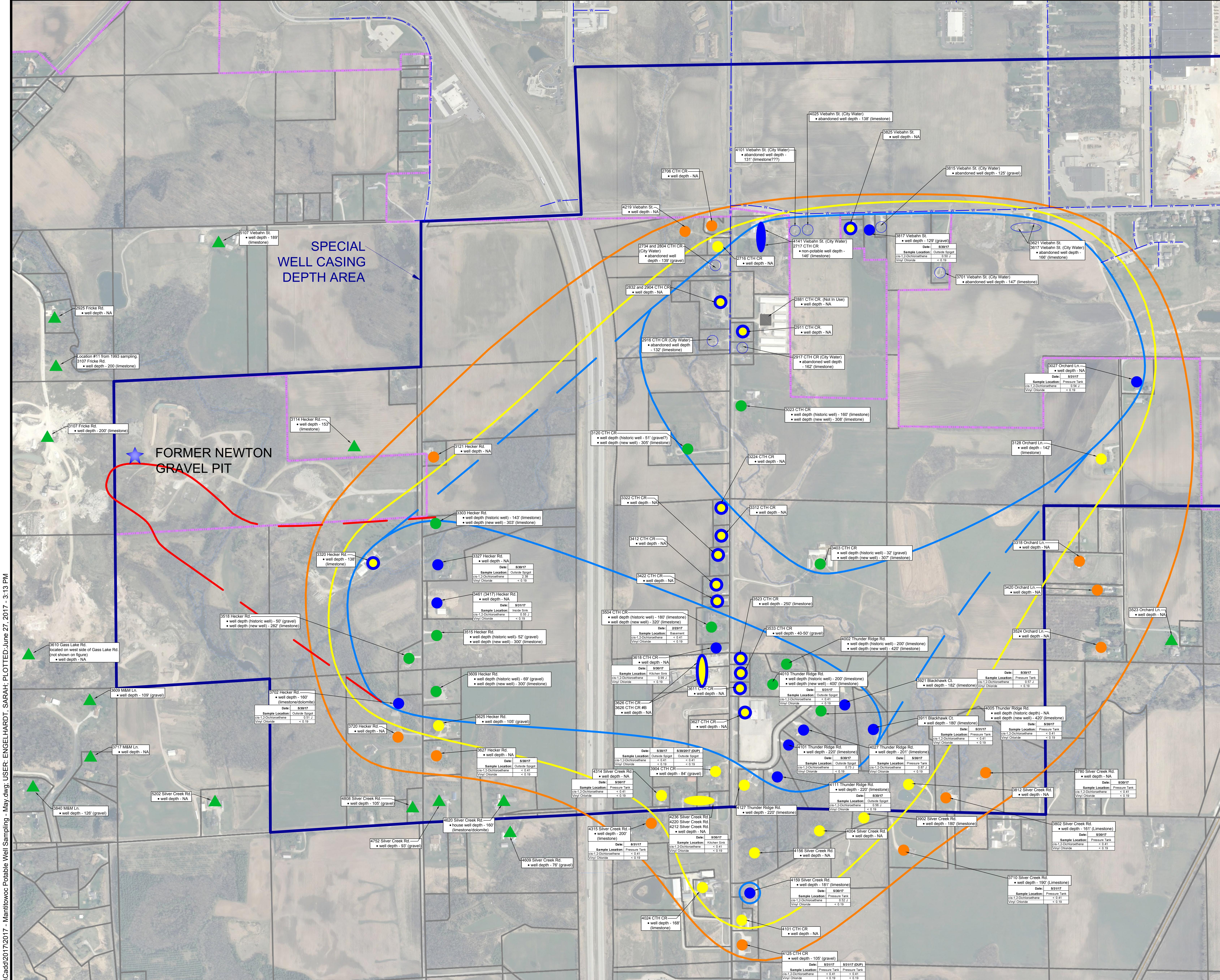
AECOM

Project Number:
60311767

Drawn By:
SAE

Date:
6/27/2017

Figure No. 1



LEGEND:

- PROPERTY BOUNDARY
- PROPERTY BOUNDARY - CITY LIMITS
- UTILITIES:
 - POTABLE WATER SUPPLY (from City of Manitowoc)
- POTABLE WELL SAMPLE LOCATIONS
 - WITHIN TARGET ZONE
 - WITHIN TARGET ZONE WITH NO DETECTS
 - WITHIN SENTINEL ZONE-3 YEAR
 - REPLACEMENT WELL WITHIN TARGET ZONE
 - UPGRADIENT AND HISTORICALLY SAMPLED WELLS
 - WELL OUT OF SERVICE

POTABLE WELL SAMPLE LOCATIONS (CONTINUED)

- WITHIN SENTINEL ZONE-5 YEAR
- REPLACEMENT WELL WITHIN TARGET ZONE
- SENTINEL ZONE-3 YEAR
- SENTINEL ZONE-5 YEAR
- UPGRADIENT AND HISTORICALLY SAMPLED WELLS
- FORMER TARGET ZONE WELL, NOW ON CITY WATER
- WELL OUT OF SERVICE

NOTES:

NA - NOT AVAILABLE

VOCs DETECTED FROM LIKELY LABORATORY OR SAMPLING CROSS-CONTAMINATION NOT REPORTED ON FIGURE.

VOC VALUES FOR MAY 2017 SAMPLING EVENT REPORTED ON FIGURE.

ANALYTICAL DATA PRESENTED IN MICROGRAMS PER LITER (UG/L)

SCALE

AECOM
Milwaukee Office
1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

FORMER NEWTON GRAVEL PIT
MAY 2017
POTABLE WELL SAMPLING RESULTS

Project Number:
60311767

Drawn By:
SAE

Date:
6/27/2017

Figure No. 2

Attachment A:

Laboratory Reports

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date 09-Mar-17

Project Name NEWTON PIT
Project #

Invoice # E32536

Lab Code 5032536A
Sample ID 3504 CTH CR
Sample Matrix Water
Sample Date 2/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Total	12.9	mg/l	0.008	0.026	1	8260B				
Organic							3/6/2017	CWT		1
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B				
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B				
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B				
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B				
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B				
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B				
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B				
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B				
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B				
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B				
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B				
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B				
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B				
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B				
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B				
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B				
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B				
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B				
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B				
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B				
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B				
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B				
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B				
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B				
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B				

Project Name NEWTON PIT
Project #

Invoice # E32536

Lab Code 5032536A
Sample ID 3504 CTH CR
Sample Matrix Water
Sample Date 2/23/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		3/1/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		3/1/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		3/1/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		3/1/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		3/1/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		3/1/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		3/1/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		3/1/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		3/1/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		3/1/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		3/1/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		3/1/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		3/1/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		3/1/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		3/1/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		3/1/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		3/1/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		3/1/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		3/1/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		3/1/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		3/1/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		3/1/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		3/1/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		3/1/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		3/1/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		3/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		3/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		3/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		3/1/2017	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		3/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			1	8260B		3/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		3/1/2017	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		3/1/2017	CJR	1

Wet Chemistry

General

Hardness, Total Unfiltered	1380	mg/l	0.2	0.67	1	200.7		3/6/2017	CWT	1
Solids, Total Dissolved	2330	mg/l	20	20	1	2540c		3/2/2017	BLE	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

BLE denotes sub contract lab - Certification #445023150

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature



Synergy

Chain # No 280

Page 1 of 1

Lab I.D. #	
Account No. :	Quote No.:
Project #: <i>Newton Pt</i>	
Sampler: (signature) <i>DSH</i>	

Environmental Lab, Inc.

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

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

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

1-Sample, Raw H₂O

Sample Integrity - To be completed by receiving lab.		Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Method of Shipment:		<u>S.M.</u>					
Temp. of Temp. Blank		°C On Ice:	X				
Cooler seal intact upon receipt:		X	Yes	No			
		Received in Laboratory By:	<u>D.S. Anderson</u>		Time: <u>10:00</u>	Date: <u>2/25/17</u>	

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date 05-Jun-17

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995A
Sample ID 3327 HECKER RD
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31		1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l		1.3	4.15	1	8260B		CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	2.38	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995A
Sample ID 3327 HECKER RD
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/1/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/1/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/1/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/1/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/1/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/1/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/1/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/1/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/1/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/1/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/1/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/1/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/1/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/1/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/1/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/1/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/1/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/1/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/1/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/1/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995B
Sample ID 3921 BLACK HAW
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.57 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995B
Sample ID 3921 BLACK HAW
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	123	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995C
Sample ID 3802 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995C
Sample ID 3802 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995D
Sample ID 4220 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995D
Sample ID 4220 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995E
Sample ID 4027 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.87 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995E
Sample ID 4027 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995F
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.73 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995F
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995G
Sample ID 4314 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995G
Sample ID 4314 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995H
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.70 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995H
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995I
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.68 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995I
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	88	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995J
Sample ID 4159 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.52 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995J
Sample ID 4159 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	129	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995K
Sample ID 3780 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995K
Sample ID 3780 SILVER CREE
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995L
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.99 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995L
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995M
Sample ID 3904 CTH CR
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995M
Sample ID 3904 CTH CR
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	114	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995N
Sample ID 3904 CTH CR DUP
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995N
Sample ID 3904 CTH CR DUP
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995O
Sample ID 3627 HECKER
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995O
Sample ID 3627 HECKER
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995P
Sample ID 3702 HECKER
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.51 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995P
Sample ID 3702 HECKER
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	112	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	106	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995Q
Sample ID 4111 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.56 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995Q
Sample ID 4111 THUNDER RI
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995R
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.50 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32995

Lab Code 5032995R
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	89	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		6/2/2017	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

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

Authorized Signature



Lab I.D. #	
Account No.:	Quote No.:
Project #:	
Sampler: (signature) Sarah Day Sarah E. Day	

Environmental Lab, Inc.

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

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Project (Name / Location): NENTON GRAVEL PIT - MANITOWOC WI

Reports To: DAVE HENDERSON

Invoice To: SEE LEFT

Company AECOM

Company

Address 1555 N. River Center Dr Ste 214

Address

City State Zip Milwaukee, WI 53212

City State Zip

Phone 414-944-6190

Phone

FAX 414-944-6081

FAX

Analysis Requested

Other Analysis

PID/
FID

Lab I.D.	Sample I.D.	Collection Date	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 6270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCCA METALS	
S032995A	3827 Hecker Road 5/30/17 0817			X	N	3	GW	HCl															
B	3921 Black Hawk St 5/30/17 0945			X	N	3	GW	HCl															
C	3802 Silver Creek 5/30/17 0915			X	N	3	GW	HCl															
D	4220 Silver Creek 5/30/17 0930			X	N	3	GW	HCl															
E	4027 Thunder Ridge 5/30/17 1010			X	N	3	GW	HCl															
F	4101 Thunder Ridge 5/30/17 1040			X	N	3	GW	HCl															
G	4314 Silver Creek 4/30/17 1115			X	N	3	GW	HCl															
H	4101 Thunder Ridge 5/30/17 1040			X	N	3	GW	HCl															
I	4101 Thunder Ridge 5/30/17 1040			X	N	3	GW	HCl															
J	4159 Silver Creek 5/30/17 1155			X	N	3	GW	HCl															

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

ANALYSIS PER CONTRACT

Sample Integrity - To be completed by receiving lab.

Method of Shipment: bcTemp. of Temp. Blank ____ °C On Ice: XCooler seal intact upon receipt: X Yes No

Relinquished By: (sign)

Sarah E Day 1930 5/30/17

Time

Date

Received By: (sign)

Time

Date

Received in Laboratory By: Chad J. D.

Time: 8:00

Date: 5/31/17

Synergy

Chain # No 3478

Page 2 of 2

Lab I.D. #	
Account No.:	Quote No.:
Project #:	

Environmental Lab, Inc.

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

Project (Name / Location): NEWTON GRAVEL PIT - MANITOWOC WI

Reports To: DAVE HENDERSON

Invoice To: SEE LEFT

Company AECOM

Company

Address 1555 N RIVER CENTER DR STE 219 Address

Address

City State Zip MILWAUKEE WI 53212

City State Zip

Phone 414-944-6190

Phoenix

FAX 414-944-6081

FAX

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

ANALYSIS PER CONTRACT

Sample Integrity - To be completed by receiving lab.

Method of Shipment: C

Temp. of Temp. Blank _____ °C On Ice: ✓

Cooler seal intact upon receipt: X Yes _____ No _____

Befurnished By: (sign)

Time

Date

Received By: (sign)

Trinity

Date _____

Sarah E Day 1930 5/30/17

Received in Laboratory By

Time: 8:00

Date: 5/31/17

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date 05-Jun-17

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32994

Lab Code 5032994A
Sample ID 4005 THDR RAW
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	5.24	mg/l	0.03	0.1	1	8260B		6/2/2017	CWT	1
Iron, Total	9.83	mg/l	0.03	0.1	1	8260B		6/2/2017	CWT	1
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		5/31/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		5/31/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31		1	8260B		5/31/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		5/31/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		5/31/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		5/31/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		5/31/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		5/31/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		5/31/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		5/31/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		5/31/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		5/31/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		5/31/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		5/31/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		5/31/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		5/31/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		5/31/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		5/31/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		5/31/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		5/31/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		5/31/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		5/31/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		5/31/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		5/31/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32994

Lab Code 5032994A
Sample ID 4005 THDR RAW
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		5/31/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		5/31/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		5/31/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		5/31/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		5/31/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		5/31/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/31/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		5/31/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		5/31/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		5/31/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		5/31/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		5/31/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/31/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		5/31/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		5/31/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		5/31/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		5/31/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		5/31/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		5/31/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		5/31/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		5/31/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		5/31/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		5/31/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		5/31/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		5/31/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		5/31/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		5/31/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		5/31/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		5/31/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		5/31/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		5/31/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		5/31/2017	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		5/31/2017	CJR	1
SUR - Toluene-d8	106	REC %			1	8260B		5/31/2017	CJR	1

Wet Chemistry

General

Hardness, Total Unfiltered	1873	mg/l	1.85	6.15	5	200.7		6/2/2017	CWT	1
Solids, Total Dissolved	2706	mg/l	20	20	1	2540c		6/2/2017	BLE	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32994

Lab Code 5032994B
Sample ID 4005 THDR TAP
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic Metals										
Iron, Total										
	6.98	mg/l	0.03	0.1	1	200.7		6/2/2017	CWT	1
Organic VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		5/31/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		5/31/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		5/31/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		5/31/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		5/31/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		5/31/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		5/31/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		5/31/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		5/31/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		5/31/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		5/31/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		5/31/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		5/31/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		5/31/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		5/31/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		5/31/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		5/31/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		5/31/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		5/31/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		5/31/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		5/31/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		5/31/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		5/31/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		5/31/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		5/31/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		5/31/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		5/31/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		5/31/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		5/31/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		5/31/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/31/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		5/31/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		5/31/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		5/31/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		5/31/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		5/31/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/31/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		5/31/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		5/31/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		5/31/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		5/31/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		5/31/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		5/31/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		5/31/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		5/31/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		5/31/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32994

Lab Code 5032994B
Sample ID 4005 THDR TAP
Sample Matrix Water
Sample Date 5/30/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		5/31/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		5/31/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		5/31/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		5/31/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		5/31/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		5/31/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		5/31/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		5/31/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		5/31/2017	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		5/31/2017	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/31/2017	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		5/31/2017	CJR	1

Wet Chemistry

General

Hardness, Total Unfiltered	1573	mg/l	0.74	2.46	2	200.7		6/2/2017	CWT	1
Solids, Total Dissolved	2700	mg/l	20	20	1	2540c		6/2/2017	BLE	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code	Comment
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1	Laboratory QC within limits.
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BLE denotes sub contract lab - Certification #445023150

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1035 KEPLER DRIVE
GREEN BAY WI 54311

Report Date 05-Jun-17

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014A
Sample ID 3027 ORCHARD
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31		1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l		1.3	4.15	1	8260B		CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.54 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014A
Sample ID 3027 ORCHARD
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/2/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/2/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/2/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/2/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/2/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/2/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/2/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/2/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/2/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/2/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/2/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/2/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/2/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/2/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/2/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/2/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/2/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014B
Sample ID 4315 SILVER CREE
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014B
Sample ID 4315 SILVER CREE
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014C
Sample ID 4125 CTH CR
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		6/2/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		6/2/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		6/2/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		6/2/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		6/2/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		6/2/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		6/2/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		6/2/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		6/2/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		6/2/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		6/2/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		6/2/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		6/2/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		6/2/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		6/2/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		6/2/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		6/2/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		6/2/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		6/2/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		6/2/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/2/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/2/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		6/2/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		6/2/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		6/2/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/2/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/2/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/2/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/2/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/2/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/2/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/2/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/2/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/2/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/2/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/2/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/2/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/2/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/2/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/2/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/2/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014C
Sample ID 4125 CTH CR
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014D
Sample ID 4125 CTH CR DUP
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014D
Sample ID 4125 CTH CR DUP
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014E
Sample ID 3417 HECKER
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B			CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B			CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B			CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B			CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B			CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B			CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B			CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B			CJR	1
Chlorobenzene	0.32 "J"	ug/l	0.27	0.86	1	8260B			CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B			CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B			CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B			CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B			CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B			CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B			CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B			CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B			CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B			CJR	1
cis-1,2-Dichloroethene	0.55 "J"	ug/l	0.41	1.29	1	8260B			CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B			CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B			CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B			CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B			CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B			CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B			CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B			CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B			CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B			CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B			CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B			CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B			CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B			CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B			CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B			CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B			CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B			CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B			CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B			CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B			CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B			CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B			CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B			CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B			CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B			CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B			CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014E
Sample ID 3417 HECKER
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014F
Sample ID 3710 SILVER CREE
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		6/2/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		6/2/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		6/2/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		6/2/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		6/2/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		6/2/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		6/2/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		6/2/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		6/2/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		6/2/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		6/2/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		6/2/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		6/2/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		6/2/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		6/2/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		6/2/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		6/2/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		6/2/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		6/2/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		6/2/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/2/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/2/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		6/2/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		6/2/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		6/2/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/2/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/2/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/2/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/2/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/2/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/2/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/2/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/2/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/2/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/2/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/2/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/2/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/2/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/2/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/2/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/2/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014F
Sample ID 3710 SILVER CREE
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014G
Sample ID 3911 BLACKHAWK
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		6/2/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		6/2/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		6/2/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		6/2/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		6/2/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		6/2/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		6/2/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		6/2/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		6/2/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		6/2/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		6/2/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		6/2/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		6/2/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		6/2/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		6/2/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		6/2/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		6/2/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		6/2/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		6/2/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		6/2/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/2/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/2/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		6/2/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		6/2/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		6/2/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/2/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/2/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/2/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/2/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/2/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/2/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/2/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/2/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/2/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/2/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/2/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/2/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/2/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/2/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/2/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/2/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/2/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/2/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/2/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/2/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E33014

Lab Code 5033014G
Sample ID 3911 BLACKHAWK
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/2/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/2/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/2/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/2/2017	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		6/2/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		6/2/2017	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		6/2/2017	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		6/2/2017	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

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

Authorized Signature



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

Lab I.D. #		
Account No. :	Quote No.:	
Project #:		
Sampler: (signature) <u>Sarah Day</u>		

Project (Name / Location): NEWTON GRAVEL PIT / MANITOWOC WIReports To: Dave Henderson Invoice To: SEE LEFTCompany AECON CompanyAddress 1555 N River Center Dr STE 214 AddressCity State Zip Milwaukee WI 53212 City State ZipPhone 944-6190 (414) PhoneFAX 414-944-6081 FAX**Sample Handling Request**

Rush Analysis Date Required

(Rushes accepted only with prior authorization)

 Normal Turn Around

Lab I.D.	Sample I.D.	Collection Date	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	Analysis Requested				Other Analysis				PID/ FID					
									DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS
3053014 A	3027 Orchard	5/31/17 0815		X	N	3	GW	HCl														
B	4315 Silver Creek	5/31/17 1005		X	N	3	GW	HCl														
C	4125 CTH CR	5/31/17 1035		X	N	3	GW	HCl														
D	4125 CTH CR DUP	5/31/17 1035		X	N	3	GW	HCl														
E	3417 Hecker	5/31/17 1110		X	N	3	GW	HCl														
F	3710 Silver Creek	5/31/17 1110		X	N	3	GW	HCl														
G	3911 Black Hawk	5/31/17 1750		X	N	3	GW	HCl														

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

ANALYSIS PER CONTRACT

Sample Integrity - To be completed by receiving lab.

Method of Shipment: SELTemp. of Temp. Blank °C On Ice: Cooler seal intact upon receipt: Yes No

Relinquished By: (sign)

Sarah E Day

Time

1945 5/31/17

Date

Received By: (sign)

Time

Date

Received in Laboratory By:

Mel - SEE

Time: 7:30 AM Date: 6-2-17

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date 05-Jun-17

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32999

Lab Code 5032999A
Sample ID 4010 THDR RAW
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	8.72	mg/l	0.03	0.1	1	8260B				
Iron, Total	9.77	mg/l	0.03	0.1	1	8260B	6/2/2017	CWT		1
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B				
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B	6/1/2017	CJR		1
Bromodichloromethane	< 0.31	ug/l	0.31		1	8260B	6/1/2017	CJR		1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B	6/1/2017	CJR		1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B	6/1/2017	CJR		1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B	6/1/2017	CJR		1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B	6/1/2017	CJR		1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B	6/1/2017	CJR		1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B	6/1/2017	CJR		1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B	6/1/2017	CJR		1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B	6/1/2017	CJR		1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B	6/1/2017	CJR		1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B	6/1/2017	CJR		1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B	6/1/2017	CJR		1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B	6/1/2017	CJR		1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B	6/1/2017	CJR		1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B	6/1/2017	CJR		1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B	6/1/2017	CJR		1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B	6/1/2017	CJR		1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B	6/1/2017	CJR		1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B	6/1/2017	CJR		1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B	6/1/2017	CJR		1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B	6/1/2017	CJR		1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B	6/1/2017	CJR		1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32999

Lab Code 5032999A
Sample ID 4010 THDR RAW
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/1/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/1/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		6/1/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		6/1/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		6/1/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/1/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/1/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/1/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/1/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/1/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/1/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/1/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/1/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/1/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/1/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/1/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/1/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/1/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/1/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/1/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/1/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/1/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/1/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/1/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/1/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		6/1/2017	CJR	1

Wet Chemistry

General

Hardness, Total Unfiltered	1588	mg/l	0.74	2.46	2	200.7		6/2/2017	CWT	1
Solids, Total Dissolved	2658	mg/l	20	20	1	2540c		6/2/2017	BLE	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32999

Lab Code 5032999B
Sample ID 4010 THDR TAP
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic Metals										
Iron, Total										
Iron, Total	3.96	mg/l	0.03	0.1	1	200.7		6/2/2017	CWT	1
Organic VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		6/1/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		6/1/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		6/1/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		6/1/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		6/1/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		6/1/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		6/1/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		6/1/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		6/1/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		6/1/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		6/1/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		6/1/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		6/1/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		6/1/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		6/1/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		6/1/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		6/1/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		6/1/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		6/1/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		6/1/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		6/1/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		6/1/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		6/1/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		6/1/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		6/1/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		6/1/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		6/1/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		6/1/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		6/1/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		6/1/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		6/1/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		6/1/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		6/1/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		6/1/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		6/1/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		6/1/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		6/1/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		6/1/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		6/1/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		6/1/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		6/1/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		6/1/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		6/1/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		6/1/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		6/1/2017	CJR	1

Project Name NEWTON GRAVEL PIT
Project #

Invoice # E32999

Lab Code 5032999B
Sample ID 4010 THDR TAP
Sample Matrix Water
Sample Date 5/31/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		6/1/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		6/1/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		6/1/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		6/1/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		6/1/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		6/1/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		6/1/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		6/1/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		6/1/2017	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		6/1/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		6/1/2017	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		6/1/2017	CJR	1

Wet Chemistry

General

Hardness, Total Unfiltered	1576	mg/l	0.74	2.46	2	200.7
Solids, Total Dissolved	2652	mg/l	20	20	1	2540c

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code	Comment
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1	Laboratory QC within limits.
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BLE denotes sub contract lab - Certification #445023150

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature



