

From: Henderson, Dave <Dave.Henderson@aecom.com>
Sent: Tuesday, June 9, 2020 1:30 PM
To: GravelPit; Kasdorf, James H Jr - DNR; Beggs, Tauren R - DNR
Subject: Newton Pit - Oct 2019 Semi-Annual Potable Well Sampling Report
Attachments: Transmittal letter - WDNR - Oct 2019.pdf

Team,

I'm submitting the October 2019 Semi-Annual Potable Well Sampling Report, the transmittal letter for the report is attached.

Due to the file size I am transmitting the report as follows:

- Notice of submittal, this email.
- Copy sent via web based file transfer.
- Official WDNR submittal via the portal.
- Hard copies, in the mail at a future date.

Let me know if you have any questions.

Thanks
dsh

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Letter of Transmittal

Attention:	Mr. Tauren Beggs Hydrogeologist, WDNR 2984 Shawano Ave Green Bay, WI 54313	Date:	6/8/2020
Project reference:	Former Newton Pit BRRTS No. 02-36-000268	Project number:	60135471

We are sending you the following:

Number of originals:	Number of copies:	Description:
One	Zero	October 2019 Semi-Annual Potable Well Monitoring Letter Report

Mr. Beggs,

Attached is the October 2019 Semi-Annual Potable Well Monitoring Letter Report for the Former Town of Newton Gravel Pit, Manitowoc Wisconsin.

Please let me know if you have any questions.

Thank you.



David Henderson, P.E.
Senior Project Manager
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Cc: Kathleen M. McDaniel, City Attorney, City of Manitowoc
Dan Koski, Director of Public Infrastructure, City of Manitowoc
Jim Kasdorf, Water Supply Specialist, WDNR



June 8, 2020

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

**Subject: October 2019 VOC 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 (City), 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 October 2019 volatile organic compounds (VOCs) monitoring event.

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

BACKGROUND INFORMATION

Regular monitoring has been ongoing since November 2013, when VOCs were discovered in private potable wells near the Former Town of Newton Gravel Pit. The most recent VOC sampling was conducted in accordance with the Wisconsin Department of Natural Resources (WDNR) approved Five Year Potable Well Monitoring Work Plan¹. The Work Plan grouped the potable wells into the following categories:

- Target Zone Wells – wells with detectable VOC contaminants of concern (COCs) associated with the Former Town of Newton Gravel Pit site.
- Target Zone Sentinel Wells – wells within the Target Zone and do not have detectable VOC COCs.
- Sentinel Zone Wells – wells outside and adjacent to the Target Zone that do not have detectable VOC 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 VOC 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.

¹ Five Year Potable Well Monitoring Work Plan, Former Town of Newton Gravel Pit, AECOM, May 8, 2017

VOC SAMPLING METHODOLOGY

The October 2019 sampling event included sampling on October 21, 22 and 30, 2019. In total, 33 water samples, excluding water quality and quality control samples, were obtained from 32 wells. Details of the monitoring event are as follows.

On October 21, 22 and 30, 2019 AECOM sampled semi-annual Target Zone Wells, annual Target Zone Sentinel wells, and 3-year Sentinel Zone Wells, as follows:

October 21, 22 and 30, 2019 Semi-Annual Target Zone Wells VOC Sampling Address	
3618 CTH CR	4027 Thunder Ridge Road
3911 Blackhawk Ct	4101 Thunder Ridge Road
3921 Blackhawk Ct	4111 Thunder Ridge Road
4159 Silver Creek Road	4127 Thunder Ridge Road
3817 Viebahn Street	2201 Elm Street
3327 Hecker Road	3008 S 26 th Street
3702 Hecker Road	3027 Orchard Lane
3461/3417 Hecker Road	

October 21, 22 and 30, 2019 Annual Target Zone Sentinel Wells VOC Sampling Address	
2832/2904 CTH CR	3533 CTH CR
2911 CTH CR	3611 CTH CR
3224 CTH CR	3626 (3626B) CTH CR
3312 CTH CR	3627 CTH CR
3322 CTH CR	3825 Viebahn St
3523 CTH CR	3412 CTH CR
3320 Hecker Road	3422 CTH CR

October 22 and 30, 2019 3-Year Sentinel Zone Wells VOC Sampling Address
2717 CTH CR
4024 CTH CR
3625 Hecker Road

AECOM continued the VOC sampling on November 26, 2019 to obtain a confirmation sample from 3817 Viebahn Street, as follows:

November 26, 2019 Semi-Annual Target Zone Wells VOC Sampling Address
3817 Viebahn Street (confirmation)

VOC 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 commercial laboratory (Synergy Environmental Lab, Inc., Appleton, Wisconsin) for analyses of VOCs by EPA Method 8260B.

VOC MONITORING RESULTS

The results for the October 2019 sampling events are discussed below. During this period a total of 33 VOC samples (not including water quality and quality control samples) were obtained from 32 wells.

Laboratory VOC Analytical Results

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

The concentration of the VOC 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:

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

VOC COCs with NR 140 ES exceedances:

There were four wells that had an ES exceedance for vinyl chloride during the October 2019 sampling event.

ES Exceedances Vinyl Chloride
3817 Viebahn Street
3008 South 26 th Street
2832/2904 CTH CR
4141 Viebahn Street/2717 CTH CR (non-potable)

Two of these wells have new vinyl chloride exceedances:

- 3817 Viebahn Street, the initial sample taken on October 21st had a vinyl chloride ES exceedance. The confirmation sample taken on November 26th was non-detect for vinyl chloride but continued to indicate cis-1,2-dce.
- 2832 (2904) CTH CR had a vinyl chloride ES exceedance on October 22nd.

The homeowner has been informed of the results but has not responded to numerous communication attempts. The City has tried multiple times to contact the homeowner via phone with no response. Three letters have been sent; on November 27, 2019, January 10, 2020 and by certified mail on February 26, 2020. The City received the certified mail acknowledgement from the post office showing the homeowner signed for the letter on February 28, 2020. The certified mail letter requested a response by March 26th. There has been no response from the homeowner as of the date of this report. The WDNR has been apprised of the situation.

The well at 3008 South 26th Street continues to have a vinyl chloride ES exceedance.

The non-potable well at 4141 Viebahn Street/2717 CTH CR continues to have vinyl chloride ES exceedance. This is a non-potable well left in-place as a monitoring point.

All vinyl chloride results were J coded meaning analyte was detected between the Limit of Detection (LOD) and Limit of Quantitation (LOQ).

There were no wells with cis-1,2-dce ES exceedances.

VOC COCs with NR 140 PAL exceedances:

There were no wells that had detections above the PAL and below the ES for vinyl chloride or cis-1,2-dce.

PAL Exceedances
No wells with PAL exceedances

Detected COCs with No Regulatory Exceedances:

There was a total of sixteen potable wells that only had a single COC (cis-1,2-dce) below regulatory (PAL) limits for the October 2019 sampling event.

Cis-1,2-dichloroethene	
Detects	
3327 Hecker Road	4111 Thunder Ridge Road
3461/3417 Hecker Road	3817 Viebahn Street
4159 Silver Creek Road	3027 Orchard Lane
3618 CTH CR	3911 Blackhawk Court
4027 Thunder Ridge Road	3921 Blackhawk Court
4101 Thunder Ridge Road	3008 South 26 th Street
2717 CTH CR	4024 CTH CR
2832/2904 CTH CR	4127 Thunder Ridge

Detected non-COCs with No Regulatory Exceedances:

There are three wells with detected VOCs that are not COCs associated with the Former Town of Newton Gravel Pit.

Toluene and Methyl tert-butyl ether (MTBE)
Detects
3461 Hecker Road - toluene
3626 CTH CR – toluene
4159 Silver Creek Road - MTBE

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

Observed VOC Changes Since Last Monitoring Event

The following changes were noted in the VOC analytical results since the May 2018 sampling event:

- Two wells have had its first detection for vinyl chloride.
 - 3817 Viebahn Street, vinyl chloride was detected at 0.25 J ug/L.
 - 2832/2904 CTH CR, vinyl chloride was detected at 0.25 J ug/L.
- Two wells had their first detection for cis-1,2-dce.
 - 2832/2904 CTH CR, cis-1,2-dce was detected at 0.44 J ug/L in conjunction with the new vinyl chloride detect.
 - 4024 CTH CR, cis-1,2-dce was detected at 0.51 J ug/L. Previously there have been no VOC detects at this address.
- One well has historical cis-1,2-dce detections to non-detection.
 - 3027 Orchard Lane, cis-1,2-dce changed from 0.59 J ug/L (detection) to <0.45 ug/L (non-detection).
- Two wells had detections for Toluene.
 - 3461/3417 Hecker Road, Toluene was detected at 0.25 J ug/L.
 - 3626 CTH CR, Toluene was detected at 0.81 ug/L.
- One well had a detection for Methyl tert-butyl ether (MTBE).
 - 4159 Silver Creek Road, Methyl tert-butyl ether (MTBE) was detected at 0.32 J ug/L.

Updates to VOC 5-Year Potable Well Monitoring Work Plan

The WDNR has approved a Five Year Potable Well Monitoring Work Plan dated May 8, 2017. The sampling schedule in the Work Plan for the May 2020 sampling event has been updated to include the latest impacted wells, see yellow highlighted addresses on Table 3, attached.

SUMMARY

The following is a summary of the October 2019 potable well monitoring event.

VOC analytical results indicate:

- Two new vinyl chloride ES exceedances (i.e. 2832/2904 CTH CR and 3817 Viebahn Street). Confirmation sampling was conducted at 3817 Viebahn Street.

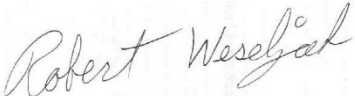
The homeowner at 2832/2904 CTH CR has been non-responsive to communication requesting confirmation sampling. The WDNR has been apprised of the situation.
- Continued vinyl chloride ES exceedance detects at 3008 South 26th Street.
- Two wells had their first detection for cis-1,2-dce.
 - 2832/2904 CTH CR, cis-1,2-dce was detected in conjunction with the new vinyl chloride detect.

- 4024 CTH CR, cis-1,2-dce was detected. Previously there have been no VOC detects at this address.
- All other monitored wells had no VOC COC detects above NR 140 PALs.
- Three wells had detects of VOCs that are non-COCs related to the Former Town of Newton Gravel Pit site.

The next semi-annual potable well monitoring event is scheduled for May 2020. VOC sampling will be conducted in accordance with the updated Five Year Potable Well Monitoring Work Plan as presented on Table 3.

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.



Robert Weseljak
Project Scientist



David Henderson, P.E.
Project Manager

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

Attachments:

- Table 1 – Summary of VOC Contaminants Detected in Potable Wells
- Table 2 – Summary of Contaminants Analyzed in Potable Wells (CD only)
- Table 3 – Summary of Five Year Potable Well Sampling Plan
- Figure 1 – Site Location
- Figure 2 – October 2019, VOC Potable Well Sampling Results
- Attachment A: VOC Laboratory Reports

Tables:

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

Table 1
SUMMARY OF VOC CONTAMINANTS DETECTED IN POTABLE WELLS

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

Analyte	Units	ES	PAL	3114 Hecker Rd			3303 Hecker Rd										
				10/22/13 Outside Spigot	11/8/13 Outside Spigot	5/28/14 Outside Spigot	Original Potable Well										
							10/23/13 Basement	11/7/13 Basement	6/3/14 Basement	06/03/14 (DUP) Basement	11/17/14 Basement	2/23/15 Basement	10/13/15 Basement	3/30/16 Basement			
Volatle Organic Compounds (VOCs) (µg/L):																	
1,1-Dichloroethene	ug/l	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		
1,2-Dichloroethane	ug/l	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		
Benzene	ug/l	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		
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46		
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43		
Chloromethane	ug/l	30	3	1.36	J	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9		
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	0.68	J	0.68	J	< 0.38	< 0.45	1.94	2.53	
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3		
Toluene	ug/l	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		
trans-1,2-Dichloroethene	ug/l	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		
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	0.44	J	0.51	J
Total Metals																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Miscellaneous (mg/L)																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

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

Analyte	Units	ES	PAL	3303 Hecker Rd						3327 Hecker Rd								
				Replacement Potable Well						10/23/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Kitchen Sink	10/14/15 Outside Spigot	3/31/16 Kitchen Sink	10/5/16 Outside Spigot
				8/8/16 Basement	9/26/16 Basement	10/24/16 Basement	10/24/16 Basement-Vial 2	10/24/16 Basement-Vial 3	11/8/16 Basement									
Volatile Organic Compounds (VOCs) (ug/L):																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	6.8	< 1	2.6 J	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	11	11.6	6.4	6.9	5.6	4.3	4.2	3.2	3.3
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 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
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17
Total Metals																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	1374	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	2003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3327 Hecker Rd								3461(3417) Hecker Rd								
				5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	05/21/18 (DUP) Outside Spigot	11/20/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	10/21/19 (DUP) Outside Spigot	10/24/13 Inside Sink	11/12/13 Inside Sink	5/30/14 Inside Sink	8/26/14 Inside Sink	11/10/14 Inside Sink	2/24/15 Inside Sink	10/13/15 Inside Sink		
Volatiles Organic Compounds (VOCs) (ug/L):																				
1,1-Dichloroethene	ug/l	7	0.7	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48
Benzene	ug/l	5	0.5	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	2.38	4	4.5	4.2	4	3.6	3.07	3.4	2.58	2.15	2.12	1.79	1.49	1.59	1.6		
Methylene Chloride	ug/l	5	0.5	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17
Total Metals																				
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																				
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3461(3417) Hecker Rd									3515 Hecker Rd						
				3/30/16 Inside Sink	03/30/16 (DUP) Inside Sink	10/06/16 (DUP) Inside Sink	5/31/17 Inside Sink	10/25/17 Inside Sink	5/21/18 Inside Sink	11/20/18 Inside Sink	6/27/19 Inside Sink	10/22/19 Inside Sink	Original Potable Well						
													10/22/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	8/28/14 Outside Spigot	
Volatile Organic Compounds (VOCs) (ug/L):																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.46	0.32 J	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	1.02 J	< 0.81	< 0.81	NA	< 0.81	< 0.81	
cis-1,2-Dichloroethene	ug/l	70	7	1.66	1.74	1.51	0.55 J	1.35	1.87	1.75	1.89	1.78	7.4	7.4	7.2	NA	10	7.8	
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	NA	< 0.5	< 0.5	
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	0.25 J	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.35	NA	< 0.35	< 0.35	
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	0.22 J	0.24 J	0.24 J	NA	0.47 J	0.28 J	
Total Metals																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	150	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 J	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.061 J	NA	NA
Miscellaneous (mg/L)																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3515 Hecker Rd					3518 Hecker Rd								
				Replacement Potable Well			Replacement Potable Well		Original Potable Well			Replacement Potable Well					
				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	10/23/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Outside Spigot	3/11/14 Outside Spigot	03/11/14 (DUP) Outside Spigot	3/31/14 Outside Spigot	4/22/14 Outside Spigot	05/29/14 (DUP) Outside Spigot	8/25/14 Outside Spigot
Volatile Organic Compounds (VOCs) (ug/L):																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	1.62	< 4	< 4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	0.42 J	< 4.1	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	1.74	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 2.4	< 2.4	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 2.8	< 2.8	< 0.28	< 0.28	0.45 J	< 0.28	< 0.28	< 0.28
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 8.1	< 8.1	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	510	530	510	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 6.9	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	5.5	< 3.5	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	102	92	86	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
Total Metals																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	1504	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	2156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3518 Hecker Rd				3609 Hecker Rd								
				Replacement Potable Well				Original Potable Well								
				11/10/14 Outside Spigot	2/23/15 Pressure Tank	10/14/15 Pressure Tank	10/6/16 Pressure Tank	10/22/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Inside Kitchen	11/22/13 Outside Spigot	5/28/14 Outside Spigot	05/28/14 (DUP) Outside Spigot	7/11/14 Pressure Tank	8/25/14 Pressure Tank	08/25/14 (DUP) Pressure Tank
Volatile Organic Compounds (VOCs) (ug/L):																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	NA	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.54	< 0.48	< 0.48	< 0.41	< 0.41	< 0.41	NA	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Benzene	ug/l	5	0.5	< 0.24	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroform	ug/l	6	0.6	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	ug/l	30	3	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	NA	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.45	< 0.45	< 0.45	45	46	45	NA	49	49	51	35	36
Methylene Chloride	ug/l	5	0.5	< 0.5	< 1.3	< 1.3	< 1.3	0.82 J	< 0.5	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	ug/l	800	160	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	NA	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	0.39 J	NA	0.42 J	0.37 J	< 0.35	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.17	< 0.17	< 0.17	1	1.02	1.09	NA	7.4	7.6	8.6	4.6	5.2
Total Metals																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	0.32 J	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	65	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	0.56 J	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	< 0.049	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	1448	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	2064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3609 Hecker Rd					3702 Hecker Rd						
				Replacement Potable Well					10/22/13 Outside Spigot	11/12/13 Outside Spigot	6/3/14 Outside Spigot	8/25/14 Outside Spigot	11/13/14 Outside Spigot	10/14/15 Outside Spigot	10/14/15 (DUP) Outside Spigot
				9/29/14 Pressure Tank	11/4/14 Pressure Tank	2/24/15 Pressure Tank	10/13/15 Pressure Tank	10/5/16 Pressure Tank							
Volatile Organic Compounds (VOCs) (µg/L):															
1,1-Dichloroethene	ug/l	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
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	0.71 J	0.61 J	< 0.38	< 0.38	< 0.38	0.48 J	0.73 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	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
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17
Total Metals															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	1591	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	2264	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3702 Hecker Rd							
				3/31/16 Pressure Tank	10/11/16 Pressure Tank	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	11/20/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot
Volatile Organic Compounds (VOCs) (ug/L):											
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	1.04 J	0.51 J	< 0.41	< 0.37	< 0.37	0.4 J	< 0.37
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2
Total Metals											
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals											
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)											
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	4159 Silver Creek Rd											
				12/12/13 Pressure Tank	1/6/14 Pressure Tank	6/4/14 Pressure Tank	06/04/14 (DUP) Pressure Tank	9/8/14 Pressure Tank	11/10/14 Pressure Tank	11/10/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	10/14/15 Pressure Tank	3/30/16 Pressure Tank	10/10/16 Pressure Tank	5/30/17 Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):															
1,1-Dichloroethene	ug/l	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	< 0.46
1,2-Dichloroethane	ug/l	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	< 0.45
Benzene	ug/l	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	< 0.17
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.27
Chloroform	ug/l	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	< 0.96
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.3
cis-1,2-Dichloroethene	ug/l	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
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.94
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.67
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.19
Total Metals															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	4159 Silver Creek Rd					2717 CTH CR(4141 Viebahn St)								
				10/25/17 Pressure Tank	5/21/18 Pressure Tank	11/20/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	Original Potable Well						Non-Potable Well (City Water Provided Dec 2016)		
									8/25/14 Pressure Tank	9/8/14 Pressure Tank	09/08/14 (DUP) Pressure Tank	11/10/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	3/31/16 Garage Faucet	10/6/16 Garage Faucet	10/22/19 Outside Faucet
Volatile Organic Compounds (VOCs) (ug/L):																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.25
Benzene	ug/l	5	0.5	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.26
Chloroform	ug/l	6	0.6	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.26
Chloromethane	ug/l	30	3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.67 J	0.94 J	0.77 J	0.71 J	0.69 J	1.4	1.31	1.44	1.3	1.26 J	1.72	< 0.45	1.53	2.09
Methylene Chloride	ug/l	5	0.5	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.32
Toluene	ug/l	800	160	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	0.21 J	0.29 J	0.31 J	0.39 J	0.35 J	0.47 J	< 0.17	0.32 J	0.46 J
Total Metals																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	2734(2804) CTH CR							2832&2904 CTH CR					
				Original Potable Well (City Water Provided Dec 2016)							Original Potable Well					
				6/3/14 Garage Spigot	8/25/14 Garage Spigot	11/10/14 Garage Spigot	11/25/14 Garage Spigot	11/25/14 (DUP) Garage Spigot	2/24/15 Pressure Tank	10/14/15 Pressure Tank	2/4/14 Kitchen Sink	6/3/14 Kitchen Sink	3/30/16 Kitchen Sink	10/27/17 Kitchen Sink	10/11/18 Kitchen Sink	10/22/19 Other Building
Volatile Organic Compounds (VOCs) (ug/L):																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.46	< 0.42	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.41	< 0.48	< 0.45	< 0.25	< 0.25
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.17	< 0.22	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.27	< 0.26	< 0.26
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.96	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	24.3	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.3	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.77 J	0.77 J	0.63 J	0.93 J	1.02 J	0.7 J	0.94 J	< 0.38	< 0.38	< 0.45	< 0.41	< 0.37	0.44 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 0.94	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.69	< 0.69	< 0.44	< 0.67	< 0.19	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.34	< 0.34
Vinyl chloride	ug/l	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	< 0.18	< 0.17	< 0.19	< 0.2	0.25 J
Total Metals																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	2916 CTH CR								2917 CTH CR				
				Original Potable Well								Original Potable Well (City Water Provided Dec 2016)				
				2/4/14 Pressure Tank	5/28/14 Pressure Tank	8/25/14 Pressure Tank	11/10/14 Pressure Tank	11/25/14 Pressure Tank	3/11/15 Pressure Tank	03/11/15 (DUP) Pressure Tank	10/13/15 Pressure Tank	2/4/14 Kitchen Sink	5/30/14 Kitchen Sink	10/13/15 Spigot	10/27/15 Spigot	10/27/15 (DUP) Spigot
Volatile Organic Compounds (VOCs) (ug/L):																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	0.97 J	0.9 J	1.02 J	0.74 J	0.82 J	0.75 J	0.8 J	1.02 J	< 0.38	< 0.38	1.6	1.41	1.67
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.18 J	< 0.18	< 0.18	0.28 J	0.37 J	< 0.17	0.18 J	0.26 J	< 0.18	< 0.18	0.43 J	0.37 J	0.37 J
Total Metals																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3023 CTH CR									3120 CTH CR						
				Original Potable Well				Replacement Potable Well					Original Potable Well						
				2/4/14 Outside Spigot	02/04/14 (DUP) 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	1/3/14 Pressure Tank	2/4/14 Pressure Tank	5/28/14 Pressure Tank	05/28/14 (DUP) Pressure Tank	8/25/14 Pressure Tank	08/25/14 (DUP) Pressure Tank	
Volatile Organic Compounds (VOCs) (ug/L):																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41
Benzene	ug/l	5	0.5	< 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	< 0.24	< 0.24	< 0.24
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81
cis-1,2-Dichloroethene	ug/l	70	7	2.84	2.96	2.87	2.34	< 0.38	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	2.74	2.86	2.65	2.68	1.89	2.23
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69
trans-1,2-Dichloroethene	ug/l	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	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	0.55 J	0.58	0.41 J	0.33 J	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	0.6	0.43 J	0.35 J	0.26 J	0.27 J	0.24 J
Total Metals																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	1545	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	2164	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3120 CTH CR					3403 CTH CR								
				Replacement Potable Well					Original Potable Well				Replacement Potable Well				
				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	1/3/14 Kitchen Sink	2/5/14 Kitchen Sink	5/28/14 Kitchen Sink	8/25/14 Kitchen Sink	10/21/14 Kitchen Sink	11/4/14 Kitchen Sink	2/23/15 Kitchen Sink	10/13/15 Kitchen Sink	10/5/16 Outside Spigot
Volatile Organic Compounds (VOCs) (ug/L):																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	1.3	1.67	1.48	1.34	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	0.56 J	0.25 J	0.22 J	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
Total Metals																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	1309	NA	NA	NA	NA	NA	NA	NA	NA	1688	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	1966	NA	NA	NA	NA	NA	NA	NA	NA	2349	NA

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

Analyte	Units	ES	PAL	3618 CTH CR					4024 CTH CR			
				10/25/17 Kitchen Sink	5/21/18 Kitchen Sink	10/10/18 Kitchen Sink	6/27/19 Kitchen Sink	10/21/19 Kitchen Sink	12/12/13 Spigot in Barn	5/28/14 Spigot in Barn	10/6/16 Pressure Tank	10/22/19 Pressure Tank
Volatile Organic Compounds (VOCs) (ug/L):												
1,1-Dichloroethene	ug/l	7	0.7	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.4	< 0.4	< 0.65	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.41	< 0.41	< 0.48	< 0.25
Benzene	ug/l	5	0.5	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.44	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.24	< 0.24	< 0.46	< 0.26
Chloroform	ug/l	6	0.6	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.43	< 0.26
Chloromethane	ug/l	30	3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.81	< 0.81	< 1.9	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.95 J	1.23	1.14 J	1 J	1.09 J	< 0.38	< 0.38	< 0.45	0.51 J
Methylene Chloride	ug/l	5	0.5	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 1.32
Toluene	ug/l	800	160	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.69	< 0.69	< 0.44	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.54	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.18	< 0.17	< 0.2
Total Metals												
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)												
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	4002 Thunder Ridge Rd										
				Original Potable Well						Replacement Potable Well				
				1/3/14 Pressure Tank	8/25/14 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank	10/27/15 Pressure Tank	3/31/16 Pressure Tank	03/31/16 (DUP) Pressure Tank	5/23/16 Pressure Tank	6/2/16 Pressure Tank	6/23/16 Pressure Tank	10/5/16 Pressure Tank
Volatle Organic Compounds (VOCs) (µg/L):														
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	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	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	0.2 J	0.18 J	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Total Metals														
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)														
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1753
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2450

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

Analyte	Units	ES	PAL	4010 Thunder Ridge Rd												
				Original Potable Well						Replacement Potable Well						
				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	5/31/17 Outside Spigot	6/22/17 Pressure Tank	8/17/17 Pressure Tank	3/5/18 Pressure Tank	
Volatile Organic Compounds (VOCs) (µg/L):																
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	NA
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.45	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	NA
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	NA
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	NA
cis-1,2-Dichloroethene	ug/l	70	7	1.37	1.18 J	1.43	1.27 J	1.47	1.27 J	1.42	1.42	< 0.41	< 0.41	< 0.41	< 0.41	NA
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	NA
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.67	< 0.67	NA
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	NA
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	0.27 J	0.2 J	< 0.19	< 0.19	< 0.19	< 0.19	NA
Total Metals																
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	262
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.8
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.9
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.52
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4890
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68.4
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28200
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.2
Dissolved Metals																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	8.72	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	1588	1576	NA	1732	1888
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	2658	2652	NA	2702	2630

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

4111 Thunder Ridge Rd																	
Analyte	Units	ES	PAL	8/25/14 Outside Spigot	11/17/14 Outside Spigot	2/23/15 Outside Spigot	10/13/15 Outside Spigot	3/30/16 Pressure Tank	10/10/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	10/25/17 (DUP) Outside Spigot	5/21/18 Pressure Tank	6/5/18 Pressure Tank	10/11/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Volatile Organic Compounds (VOCs) (ug/L):																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.41 J	< 0.38	< 0.45	< 0.45	< 0.45	0.56 J	0.56 J	0.65 J	0.6 J	1.05 J	0.55 J	0.86 J	0.75 J	0.65 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.19	0.21 J	< 0.2	< 0.2	< 0.2	< 0.2
Total Metals																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	616	NA

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

Analyte	Units	ES	PAL	4127 Thunder Ridge Rd					3617(3621) Viebahn St					
				12/5/13 Outside Spigot	5/29/14 Outside Spigot	3/30/16 Outside Spigot	6/27/19 Outside Spigot	10/30/19 Outside Spigot	(Well Abandoned, City Water Provided)					
									11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/24/15 Pressure Tank	02/24/15 (DUP) Pressure Tank	10/13/15 Pressure Tank	3/30/16 Pressure Tank
Volatle Organic Compounds (VOCs) (µg/L):														
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.42	< 0.42	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.25	< 0.25	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.22	< 0.22	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.26	< 0.26	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.26	< 0.26	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 0.54	< 0.54	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	0.72 J	0.38 J	1.13 J	1.12 J	0.92 J	0.87 J	1.3 J	1.12 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.19	< 0.19	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.34	< 0.34	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.2	< 0.2	0.48 J	0.4 J	< 0.17	0.18 J	0.23 J	< 0.17
Total Metals														
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)														
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3701 Viebahn St						3815 Viebahn St					
				Original Potable Well (City Water Provided Dec 2016)						Original Potable Well (City Water Provided Dec 2016)					
				10/29/14 Pressure Tank	11/7/14 Pressure Tank	11/07/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	02/23/15 (DUP) Pressure Tank	10/14/15 Pressure Tank	10/14/15 (DUP) Pressure Tank	11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank
Volatile Organic Compounds (VOCs) (µg/L):															
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.23	1.18 J	1.29	1.31 J	1.09 J	1.55	1.48	0.74 J	0.94 J	0.9 J	1 J	1.12 J
Methylene Chloride	ug/l	5	0.5	1.5 J	1.17 J	1.12 J	< 1.3	< 1.3	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.29 J	0.32 J	0.49 J	0.31 J	0.33 J	0.34 J	0.37 J	0.33 J	0.31 J	0.25 J	0.2 J	0.32 J
Total Metals															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3817 Viebahn St											
				10/29/14 Outside Spigot	11/7/14 Outside Spigot	2/24/15 Pressure Tank	10/20/15 Outside Spigot	3/31/16 Outside Spigot	10/6/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/11/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot
Volatile Organic Compounds (VOCs) (ug/L):															
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.4 J	< 0.38	< 0.45	0.49 J	< 0.45	0.47 J	0.5 J	0.55 J	0.7 J	0.44 J	0.51 J	0.57 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	0.25 J
Total Metals															
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)															
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	4025 Viebahn St				4101 Viebahn St				3027 Orchard Ln							
				Original Potable Well (City Water Provided Dec 2016)				City Water Provided 2016				2/5/14	6/4/14	8/28/14	11/11/14	3/11/15	10/14/15	3/31/16	
				10/29/14	11/7/14	2/24/15	10/13/15	10/29/14	11/7/14	2/24/15	10/14/15								Pressure Tank
Volatile Organic Compounds (VOCs) (ug/L):																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	1.38	1.46	1.11 J	1.85	1.48	1.13 J	1.24 J	1.59	0.47 J	0.39 J	0.49 J	< 0.38	< 0.45	0.59 J	< 0.45	< 0.45
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3
Toluene	ug/l	800	160	0.95 J	< 0.69	< 0.44	< 0.44	< 0.69	< 0.69	< 0.44	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.35	< 0.35	< 0.54	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54
Vinyl chloride	ug/l	0.2	0.02	0.34 J	0.31 J	0.32 J	0.44 J	0.38 J	0.39 J	0.43 J	0.54	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17
Total Metals																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	3027 Orchard Ln						3911 Black Hawk Ct							
				10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/31/17 Pressure Tank	5/31/18 Pressure Tank	11/21/18 Pressure Tank	10/22/19 Pressure Tank	7/8/15 Spigot	10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/30/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Volatile Organic Compounds (VOCs) (ug/L):																	
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25
Benzene	ug/l	5	0.5	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	ug/l	6	0.6	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.46 J	0.54 J	< 0.41	< 0.37	0.57 J	0.58 J	< 0.45	0.59 J	< 0.41	< 0.41	0.58 J	0.58 J	0.5 J	0.61 J
Methylene Chloride	ug/l	5	0.5	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2
Total Metals																	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

3921 Black Hawk Ct																		
Analyte	Units	ES	PAL	2/4/14 Pressure Tank	6/2/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/5/16 Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank	6/27/2019 Pressure Tank	10/22/19 Pressure Tank
Volatile Organic Compounds (VOCs) (ug/L):																		
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	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	0.51 J	0.95 J	0.9 J	0.79 J	0.79 J	0.92 J
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Total Metals																		
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Miscellaneous (mg/L)																		
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES	PAL	2918 S 26TH St									3008 S 26TH St				2201 Elm Road		
				Original Potable Well			Replacement Potable Well						11/08/17 ⁽³⁾ Spigot W Side	12/14/17 ⁽³⁾ Basement Tap	6/27/19 ⁽³⁾ Basement Tap	10/22/19 Basement Tap	12/19/17 ⁽³⁾ Basement Tap	2/14/18 ⁽³⁾ Basement Tap	6/27/19 ⁽³⁾ Basement Tap
				8/15/2017 ⁽⁴⁾ Exterior Spigot	9/5/17 Pressure Tank	09/05/17 (DUP) Pressure Tank	12/11/17 Pressure Tank	12/11/17 (DUP) Pressure Tank	3/5/18 Pressure Tank	3/5/18 Pressure Tank	6/27/19 Pressure Tank								
				< 0.5	< 0.46	< 0.46	< 0.46	< 0.46	NA	< 0.42	< 0.42	< 0.5							
Volatile Organic Compounds (VOCs) (µg/L):																			
1,1-Dichloroethene	ug/l	7	0.7	< 0.5	< 0.46	< 0.46	< 0.46	< 0.46	NA	< 0.42	< 0.42	< 0.5	< 0.5	< 0.42	< 0.42	< 0.5	< 0.22	< 0.42	
1,2-Dichloroethane	ug/l	5	0.5	< 0.5	< 0.45	< 0.45	< 0.45	< 0.45	NA	< 0.25	< 0.25	< 0.5	< 0.5	< 0.25	< 0.25	< 0.5	< 0.16	< 0.25	
Benzene	ug/l	5	0.5	< 0.3	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.22	< 0.22	< 0.3	< 0.3	< 0.22	< 0.22	< 0.3	< 0.1	< 0.22	
Carbon disulfide	ug/l	1000	200	< 0.3	NA	NA	NA	NA	NA	NA	NA	< 0.3	< 0.3	NA	NA	< 0.3	< 1	NA	
Chlorobenzene	ug/l	100	20	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.27	< 0.26	
Chloroform	ug/l	6	0.6	< 0.25	< 0.96	< 0.96	< 0.96	< 0.96	NA	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.1	< 0.26	
Chloromethane	ug/l	30	3	< 1	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 0.54	< 0.54	< 1	< 1	< 0.54	< 0.54	< 1	< 0.89	< 0.54	
cis-1,2-Dichloroethene	ug/l	70	7	1.1	0.85 J	0.75 J	< 0.41	< 0.41	NA	< 0.37	< 0.37	1	0.85	0.77 J	0.9 J	0.51	0.55	< 0.37	
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.94	< 0.94	< 0.94	< 0.94	NA	< 1.32	< 1.32	< 0.5	< 0.5	< 1.32	< 1.32	< 0.5	< 0.15	< 1.32	
Toluene	ug/l	800	160	< 0.25	< 0.67	< 0.67	< 0.67	< 0.67	NA	< 0.19	< 0.19	< 0.25	< 0.25	< 0.19	< 0.19	< 0.25	< 0.29	< 0.19	
trans-1,2-Dichloroethene	ug/l	100	20	< 0.5	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.34	< 0.34	< 0.5	< 0.5	< 0.34	< 0.34	< 0.5	< 0.22	< 0.34	
Vinyl chloride	ug/l	0.2	0.02	0.21 J	0.26 J	0.24 J	< 0.19	< 0.19	NA	< 0.2	< 0.2	0.47	0.55	< 0.2	0.25 J	< 0.2	0.2	< 0.2	
Total Metals																			
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	19.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	4.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	3110	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	123	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	30600	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	9.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	8.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Miscellaneous (mg/L)																			
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	1898	NA	1853	NA	NA	NA	NA	459	459	NA	NA	384	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	3007	NA	2980	NA	NA	NA	NA	712	712	NA	NA	628	

TABLE 1

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

NOTES:

⁽¹⁾ Enforcement Standard from NR140, February 2017.

⁽²⁾ Preventive Action Limit from NR140, February 2017.

⁽³⁾ Sample Collected by the WDNR.

⁽⁴⁾ Sample Collected by the Property Owner.

DUP - Field duplicate sample

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

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

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)

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3114 Hecker Rd			3121 Hecker Rd			
				10/22/13 Outside Spigot	11/8/13 Outside Spigot	5/28/14 Outside Spigot	10/22/13 Basement	11/7/13 Basement	5/28/14 Basement	10/14/15 Basement
Polycarbonated Biphenyls (PCBs):										
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Total Metals:										
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:										
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:										
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:										
Conductivity	uS/cm	NL	NL	617	443	502	877	635	689	785
Dissolved Oxygen	ppm	NL	NL	4.11	150.31	1.3	4.22	8.42	2.2	2.34
ORP	mV	NL	NL	20.2	90.5	70	90.1	95.7	38	-65.8
pH	SU	NL	NL	7.84	8.22	7.85	6.01	7.55	7.55	7.37
Temperature	deg C	NL	NL	10.54	10.09	10.5	9.72	10.25	10.4	11.73

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3320 Hecker Rd						
				10/22/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	3/30/16 Outside Spigot	10/25/17 Outside Spigot	11/20/18 Outside Spigot	10/22/19 Outside Spigot
Polycarbonated Biphenyls (PCBs):										
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA
Total Metals:										
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:										
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:										
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:										
Conductivity	uS/cm	NL	NL	598	455	477	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	4.03	6.51	0.89	NA	NA	NA	NA
ORP	mV	NL	NL	56	86.7	50	NA	NA	NA	NA
pH	SU	NL	NL	7.66	7.99	7.78	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.41	9.78	11	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3515 Hecker Rd										
				Original Potable Well				Replacement Potable Well						
				10/22/13 Outside Spigot	11/7/13 Inside Kitchen	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
Polycarbonated Biphenyls (PCBs):														
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	< 0.021	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	< 0.014	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	< 0.018	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	< 0.015	NA	NA	NA	NA	NA	NA	NA
Total Metals:														
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	1504	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.22	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:														
Arsenic	ug/l	10	1	NA	NA	NA	1.9	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	150	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	< 0.54	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	0.34 J	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	0.061 J	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	< 0.31	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:														
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	2156	NA
Field Screening Measurements:														
Conductivity	uS/cm	NL	NL	775	616	634	NA	694	783	NA	NA	2219	2127	NA
Dissolved Oxygen	ppm	NL	NL	3.81	5.46	5.75	NA	2.13	1.73	NA	NA	5.19	1.85	NA
ORP	mV	NL	NL	20.1	91.8	74.8	NA	92	231	NA	NA	-154.6	-51	NA
pH	SU	NL	NL	8.02	7.44	7.77	NA	7.75	7.97	NA	NA	7.81	7.16	NA
Temperature	deg C	NL	NL	9.56	10.48	10.1	NA	10.6	11.7	NA	NA	7.19	11.73	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3518 Hecker Rd											
				Original Potable Well			Replacement Potable Well								
				10/23/13 Outside Spigot	11/7/13 Inside Kitchen	11/7/13 Outside Spigot	3/11/14 Outside Spigot	03/11/14 (DUP) Outside Spigot	3/31/14 Outside Spigot	4/22/14 Outside Spigot	05/29/14 (DUP) Outside Spigot	8/25/14 Outside Spigot	11/10/14 Outside Spigot	2/23/15 Pressure Tank	10/14/15 Pressure Tank
Polycarbonated Biphenyls (PCBs):															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1448	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.01	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2064	NA
Field Screening Measurements:															
Conductivity	uS/cm	NL	NL	744	554	554	NA	NA	NA	NA	1571	2080	1942	1948	NA
Dissolved Oxygen	ppm	NL	NL	3.21	3.85	3.32	NA	NA	NA	NA	3.87	1.22	1.93	4.83	NA
ORP	mV	NL	NL	74.1	93.1	92	NA	NA	NA	NA	-190	178	-109.4	-123.8	NA
pH	SU	NL	NL	6.16	7.4	7.48	NA	NA	NA	NA	7.37	7.9	7.74	8	NA
Temperature	deg C	NL	NL	9.89	10.58	9.36	NA	NA	NA	NA	11.2	12.5	10.11	7.33	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3625 Hecker Rd						3627 Hecker Rd			
				10/22/13 Outside Spigot	11/7/13 Outside Spigot	5/28/14 Outside Spigot	10/5/16 Outside Spigot	10/05/16 (DUP) Outside Spigot	10/30/19 Outside Spigot	10/23/13 Outside Spigot	11/7/13 Outside Spigot	5/29/14 Outside Spigot	5/30/17 Outside Spigot
Polycarbonated Biphenyls (PCBs):													
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:													
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:													
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:													
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:													
Conductivity	uS/cm	NL	NL	782	552	NA	NA	NA	NA	707	531	576	NA
Dissolved Oxygen	ppm	NL	NL	4.54	5.31	NA	NA	NA	NA	4.53	4.69	2.53	NA
ORP	mV	NL	NL	68.4	85.9	NA	NA	NA	NA	45.1	91.3	137	NA
pH	SU	NL	NL	7.38	7.77	NA	NA	NA	NA	7.98	7.75	7.18	NA
Temperature	deg C	NL	NL	11.04	10.92	NA	NA	NA	NA	10.13	9.63	11.5	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with 19 columns for dates and 18 columns for analyte concentrations. Includes sections for Volatile Organic Compounds (VOCs) and other chemical categories. Data points include concentrations in ug/l and detection limits (DL) or non-detect (ND) status.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4159 Silver Creek Rd																
				12/12/13 Pressure Tank	1/6/14 Pressure Tank	6/4/14 Pressure Tank	06/04/14 (DUP) Pressure Tank	9/8/14 Pressure Tank	11/10/14 Pressure Tank	11/10/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	10/14/15 Pressure Tank	3/30/16 Pressure Tank	10/10/16 Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	11/20/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Polycarbonated Biphenyls (PCBs):																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals:																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals:																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids:																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements:																				
Conductivity	uS/cm	NL	NL	979	593	562	562	562	562	654	646	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	2.59	5.87	2.3	2.3	2.3	4.12	3.56	3.18	NA	NA	NA	NA	NA	NA	NA	NA	
ORP	mV	NL	NL	101	135.2	146	146	146	-63.9	-63.9	-138.9	NA	NA	NA	NA	NA	NA	NA	NA	
pH	SU	NL	NL	8.75	7.99	7.53	7.53	7.53	7.93	7.93	7.94	NA	NA	NA	NA	NA	NA	NA	NA	
Temperature	deg C	NL	NL	9.8	9.72	12.4	12.4	12.4	11.23	11.23	8.29	12.91	NA	NA	NA	NA	NA	NA	NA	

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4220 Silver Creek Rd		4314 Silver Creek Rd		4315 Silver Creek Rd			4609 Silver Creek Rd		4620 Silver Creek Rd			
				5/30/14 Kitchen Sink	5/30/17 Kitchen Sink	12/5/13 Pump Spigot	6/4/14 Pump Spigot	5/30/17 Pressure Tank	12/12/13 Pressure Tank	6/2/14 Pressure Tank	5/31/17 Pressure Tank	12/3/2013 ⁽³⁾ Pressure Tank	6/3/14 Pressure Tank	11/8/13 House-Outside	11/12/13 Barn-Inside	5/28/14 Barn-Inside
Polycarbonated Biphenyls (PCBs):																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																
Conductivity	uS/cm	NL	NL	835	NA	956	958	NA	789	545	NA	526	534	493	576	614
Dissolved Oxygen	ppm	NL	NL	4.54	NA	7.32	2.97	NA	4.01	1.91	NA	2.61	10.33	3.49	4.3	0.99
ORP	mV	NL	NL	145	NA	87	168	NA	105	111	NA	165	86.7	114.5	88	89
pH	SU	NL	NL	7.11	NA	8.05	7.48	NA	8.32	7.38	NA	7.25	7.84	7.53	7.68	7.84
Temperature	deg C	NL	NL	11.4	NA	8.64	11.7	NA	6.8	12.3	NA	12.4	10.58	8.23	8.2	10.2

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4752 Silver Creek Rd		4808 Silver Creek Rd		5202 Silver Creek Rd		2706 CTH CR		2716 CTH CR			
				12/5/13 Kitchen Sink	6/2/14 Kitchen Sink	12/5/13 Pump Spigot	5/30/14 Pump Spigot	1/9/08 Hose Bib	12/5/13 Inside Barn	8/26/14 Outside Spigot	10/5/16 Outside Spigot	9/8/14 Pressure Tank	11/18/14 Pressure Tank	10/13/15 Pressure Tank	11/20/18 Pressure Tank
Polycarbonated Biphenyls (PCBs):															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals:															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals:															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids:															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements:															
Conductivity	uS/cm	NL	NL	535	530	588	538	NA	609	540	NA	658	374	409	
Dissolved Oxygen	ppm	NL	NL	5.22	1.21	7.21	1.58	NA	5.32	1.76	NA	2.11	7.32	5.22	
ORP	mV	NL	NL	69.9	138	83.4	137	NA	81.1	227	NA	131	20.6	-91	
pH	SU	NL	NL	7.39	7.64	6.54	7.69	NA	8.72	7.59	NA	7.59	8.61	7.87	
Temperature	deg C	NL	NL	12.19	12.1	8.93	11.4	NA	7.5	14.2	NA	12.83	8.45	11.9	

TABLE 2

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2717 CTH CR(4141 Viebahn St)									2734(2804) CTH CR						
				Original Potable Well					Non-Potable Well (City Water Provided Dec 2016)				Original Potable Well (City Water Provided Dec 2016)						
				8/25/14 Pressure Tank	9/8/14 Pressure Tank	09/08/14 (DUP) Pressure Tank	11/10/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	3/31/16 Garage Faucet	10/6/16 Garage Faucet	10/22/19 Outside Faucet	6/3/14 Garage Spigot	8/25/14 Garage Spigot	11/10/14 Garage Spigot	11/25/14 Garage Spigot	11/25/14 (DUP) Garage Spigot	2/24/15 Pressure Tank	10/14/15 Pressure Tank
Polycarbonated Biphenyls (PCBs):																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																			
Conductivity	uS/cm	NL	NL	640	721	NA	625	662	621	NA	NA	NA	485	606	661	NA	NA	597	594
Dissolved Oxygen	ppm	NL	NL	2.28	1.73	NA	3.39	4.63	1.45	NA	NA	0.97	0.96	1.79	NA	NA	6.15	1.01	1.01
ORP	mV	NL	NL	239	221	NA	-65	-162.7	-113.4	NA	NA	NA	161	237	-99.4	NA	NA	-133.9	-121.2
pH	SU	NL	NL	8.03	7.87	NA	7.95	8.15	7.73	NA	NA	NA	7.32	8.01	7.87	NA	NA	7.96	7.53
Temperature	deg C	NL	NL	8.03	9.15	NA	12.28	6.49	13.1	NA	NA	NA	12.2	15.5	10.42	NA	NA	6.11	13.1

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2832&2904 CTH CR						2911 CTH CR					
				2/4/14 Kitchen Sink	6/3/14 Kitchen Sink	3/30/16 Kitchen Sink	10/27/17 Kitchen Sink	10/11/18 Kitchen Sink	10/22/19 Other Building	5/29/14 Pressure Tank	10/7/16 Pressure Tank	10/27/17 Pressure Tank	10/27/17 (DUP) Pressure Tank	10/11/18 Pressure Tank	10/21/19 Pressure Tank
Polycarbonated Biphenyls (PCBs):															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:															
Conductivity	uS/cm	NL	NL	411	588	NA	NA	NA	NA	727	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	2.35	NA	NA	NA	NA	2.98	NA	NA	NA	NA	NA
ORP	mV	NL	NL	95.2	167	NA	NA	NA	NA	115	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.32	7.6	NA	NA	NA	NA	7.19	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	6.61	14.5	NA	NA	NA	NA	11.7	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and 15 sampling locations (2916 CTH CR Original Potable Well and 2917 CTH CR Original Potable Well) with results for various VOCs.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2916 CTH CR								2917 CTH CR				
				Original Potable Well								Original Potable Well (City Water Provided Dec 2016)				
				2/4/14	5/28/14	8/25/14	11/10/14	11/25/14	3/11/15	03/11/15 (DUP)	10/13/15	2/4/14	5/30/14	10/13/15	10/27/15	10/27/15 (DUP)
				Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Pressure Tank	Kitchen Sink	Kitchen Sink	Spigot	Spigot	Spigot
Polycarbonated Biphenyls (PCBs):																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																
Conductivity	uS/cm	NL	NL	396	1329	NA	601	NA	NA	NA	614	962	1709	1134	NA	NA
Dissolved Oxygen	ppm	NL	NL	5.32	1.5	1.73	1.64	NA	NA	NA	4.4	NA	1.22	1.49	NA	NA
ORP	mV	NL	NL	110	121	138	-85.3	NA	NA	NA	-104.5	113.2	134	-135.9	NA	NA
pH	SU	NL	NL	7.35	12.6	7.53	7.91	NA	NA	NA	7.58	7.32	7.82	7.39	NA	NA
Temperature	deg C	NL	NL	9.6	12.6	11.5	10.5	NA	NA	NA	11.98	9.01	11.9	12.32	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3023 CTH CR								
				Original Potable Well				Replacement Potable Well				
				2/4/14 Outside Spigot	02/04/14 (DUP) 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
Polycarbonated Biphenyls (PCBs):												
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:												
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	1545	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	5.17	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:												
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:												
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	2164	NA
Field Screening Measurements:												
Conductivity	uS/cm	NL	NL	NA	404	562	619	NA	2352	2286	2337	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	1.5	0.87	NA	2.21	3.74	2.63	NA
ORP	mV	NL	NL	NA	113.2	152	222	NA	-126.3	-112	-68.2	NA
pH	SU	NL	NL	NA	7.32	7.42	7.75	NA	7.7	7.64	7.21	NA
Temperature	deg C	NL	NL	NA	9.16	11.1	12.8	NA	10.3	8.17	13.01	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	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	05/28/14 (DUP) Pressure Tank	8/25/14 Pressure Tank	08/25/14 (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
Polycarbonated Biphenyls (PCBs):														
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:														
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	1309	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.82	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:														
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	1966	NA
Field Screening Measurements:														
Conductivity	uS/cm	NL	NL	566	570	616	616	649	649	NA	2177	2051	2119	NA
Dissolved Oxygen	ppm	NL	NL	5.32	5.32	4.79	4.79	1.24	1.24	NA	3.21	4.58	2.5	NA
ORP	mV	NL	NL	158.1	157.3	111	111	247	247	NA	-135.6	-112.7	-77.4	NA
pH	SU	NL	NL	7.51	7.38	7.8	7.8	7.91	7.91	NA	7.61	7.79	7.19	NA
Temperature	deg C	NL	NL	8.27	8.04	11.2	11.2	7.91	7.91	NA	10.3	7.94	12.73	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3224 CTH CR									3312 CTH CR						
				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	10/25/17 Pressure Tank	10/10/18 Pressure Tank	10/21/19 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	10/31/17 Bath Tub	10/10/18 Bath Tub	10/21/19 Bath Tub
Polycarbonated Biphenyls (PCBs):																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																			
Conductivity	uS/cm	NL	NL	383	513	653	598	NA	NA	NA	NA	NA	416	765	2750	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	2.87	1.91	2.61	NA	NA	NA	NA	NA	2.48	0.57	3.11	NA	NA	NA	NA
ORP	mV	NL	NL	111.3	170	235	-55.8	NA	NA	NA	NA	NA	87	225	40.3	NA	NA	NA	NA
pH	SU	NL	NL	NA	7.66	8.17	7.98	NA	NA	NA	NA	NA	7.93	7.75	7.98	NA	NA	NA	NA
Temperature	deg C	NL	NL	9.24	11.5	13.1	8.69	NA	NA	NA	NA	NA	11.8	11.7	10.63	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES, PAL, 3322 CTH CR (Kitchen Sinks), 3403 CTH CR (Original Potable Well, Replacement Potable Well), and various dates from 1/6/14 to 10/5/16. Rows include Polycarbonated Biphenyls (PCBs), Total Metals, Dissolved Metals, and Field Screening Measurements.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3412 CTH CR							3422 CTH CR							
				1/3/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	3/31/16 Pressure Tank	10/25/17 Pressure Tank	11/20/18 Pressure Tank	10/22/19 Pressure Tank	1/6/14 Pressure Tank	5/30/14 Pressure Tank	8/25/14 Pressure Tank	11/18/14 Pressure Tank	10/5/16 Pressure Tank	10/30/17 Pressure Tank	11/19/18 Pressure Tank	10/22/19 Pressure Tank
Polycarbonated Biphenyls (PCBs):																		
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																		
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																		
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																		
Conductivity	uS/cm	NL	NL	909	521	512	NA	NA	NA	NA	627	605	633	653	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	5.52	1.25	2.82	NA	NA	NA	NA	5.32	4.07	2.53	7.38	NA	NA	NA	NA
ORP	mV	NL	NL	155	238	-51.5	NA	NA	NA	NA	142	1.32	246	-84.2	NA	NA	NA	NA
pH	SU	NL	NL	7.02	7.98	7.95	NA	NA	NA	NA	7.13	7.62	8.07	8	NA	NA	NA	NA
Temperature	deg C	NL	NL	8.99	13.6	10.65	NA	NA	NA	NA	8.81	12.3	14.2	10.56	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3504 CTH CR																
				Original Potable Well																
				12/5/13 Outside Spigot	12/05/13 (DUP) Outside Spigot	1/6/14 Basement	01/06/14 (DUP) Basement	2/5/14 Basement	5/30/14 Basement	05/30/14 (DUP) Basement	8/25/14 Basement	08/25/14 (DUP) Basement	11/18/14 Basement	11/18/14 (DUP) Basement	2/23/15 Basement	10/14/15 Basement	10/20/15	3/31/16 Basement	03/31/16 (DUP) Basement	10/11/16 Basement
Polycarbonated Biphenyls (PCBs):																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals:																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals:																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids:																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements:																				
Conductivity	uS/cm	NL	NL	633	NA	636	636	503	586	586	699	699	687	687	715	709	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	4.58	NA	7.7	7.7	5.06	2.3	2.3	2.42	2.42	5.33	5.33	4.71	4.46	NA	NA	NA	
ORP	mV	NL	NL	75.3	NA	124.4	124.4	38.2	144	144	242	242	-100.7	-100.7	-122.8	-109.5	NA	NA	NA	
pH	SU	NL	NL	8.15	NA	7.53	7.53	7.13	7.39	7.39	7.75	7.75	8.05	8.05	7.92	7.5	NA	NA	NA	
Temperature	deg C	NL	NL	12.49	NA	9.07	9.07	11.49	12.1	12.1	13.8	13.8	9.79	9.79	8.25	12.19	NA	NA	NA	

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3504 CTH CR			3523 CTH CR						3533 CTH CR					
				Replacement Potable Well			1/3/14 Basement	6/3/14 Basement	10/14/15 Basement	10/25/17 Basement	10/10/18 Basement	10/21/19 Basement	1/6/14 Basement	6/3/14 Basement	3/30/16 Basement	10/27/17 Basement	10/11/18 Basement	10/21/19 Basement
				10/24/16 Basement	11/8/16 Basement	2/23/17 Basement												
Volatile Organic Compounds (VOCs):																		
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.48	< 0.48	< 0.47	< 0.33	< 0.33	< 0.48	< 0.47	< 0.35	< 0.35	< 0.33	< 0.33	< 0.48	< 0.47	< 0.35	
1,1,1-Trichloroethane	ug/l	200	40	< 0.84	< 0.84	< 0.35	< 0.33	< 0.33	< 0.84	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.35	< 0.33	
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.52	< 0.52	< 0.69	< 0.45	< 0.45	< 0.52	< 0.69	< 0.3	< 0.3	< 0.45	< 0.45	< 0.52	< 0.69	< 0.3	
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.65	< 0.34	< 0.34	< 0.48	< 0.65	< 0.42	< 0.42	< 0.34	< 0.34	< 0.48	< 0.65	< 0.42	
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	ug/l	850	85	< 1.1	< 1.1	< 0.42	< 0.3	< 0.3	< 1.1	< 0.42	< 0.36	< 0.36	< 0.3	< 0.3	< 1.1	< 0.42	< 0.36	
1,1-Dichloroethene	ug/l	7	0.7	< 0.65	< 0.65	< 0.46	< 0.4	< 0.4	< 0.65	< 0.46	< 0.42	< 0.42	< 0.4	< 0.4	< 0.65	< 0.46	< 0.42	
1,1-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 2.7	< 2.7	< 0.83	< 1.8	< 1.8	< 2.7	< 0.83	< 1.71	< 1.71	< 1.8	< 1.8	< 2.7	< 0.83	< 1.71	
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	ug/l	70	14	< 1.7	< 1.7	< 1.29	< 0.98	< 0.98	< 1.7	< 1.29	< 1.15	< 1.15	< 0.98	< 0.98	< 1.7	< 1.29	< 1.15	
1,2,4-Trimethylbenzene	ug/l	480	96	< 1.6	< 1.6	< 1.14	< 2.2	< 2.2	< 1.6	< 1.14	< 0.8	< 0.8	< 2.2	< 2.2	< 1.6	< 1.14	< 0.8	
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 1.4	< 1.4	< 1.88	< 0.88	< 0.88	< 1.4	< 1.88	< 2.96	< 2.96	< 0.88	< 0.88	< 1.4	< 1.88	< 2.96	
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.63	< 0.63	< 0.34	< 0.44	< 0.44	< 0.63	< 0.34	< 0.34	< 0.34	< 0.44	< 0.44	< 0.63	< 0.34	< 0.44	
1,2-Dichlorobenzene	ug/l	600	60	< 0.46	< 0.46	< 0.34	< 0.36	< 0.36	< 0.46	< 0.34	< 0.86	< 0.86	< 0.36	< 0.36	< 0.46	< 0.34	< 0.86	
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.45	< 0.41	< 0.41	< 0.48	< 0.45	< 0.25	< 0.25	< 0.41	< 0.41	< 0.48	< 0.45	< 0.25	
1,2-Dichloropropane	ug/l	5	0.5	< 0.43	< 0.43	< 0.39	< 0.32	< 0.32	< 0.43	< 0.39	< 0.44	< 0.44	< 0.32	< 0.32	< 0.43	< 0.39	< 0.44	
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.5	< 1.5	< 0.91	< 1.4	< 1.4	< 1.5	< 0.91	< 0.63	< 0.63	< 1.4	< 1.4	< 1.5	< 0.91	< 0.63	
1,3-Dichlorobenzene	ug/l	600	120	< 0.52	< 0.52	< 0.45	< 0.28	< 0.28	< 0.52	< 0.45	< 0.85	< 0.85	< 0.28	< 0.28	< 0.52	< 0.45	< 0.85	
1,3-Dichloropropane	ug/l	NL	NL	< 0.42	< 0.42	< 0.49	< 0.33	< 0.33	< 0.42	< 0.49	< 0.3	< 0.3	< 0.33	< 0.33	< 0.42	< 0.49	< 0.3	
1,4-Dichlorobenzene	ug/l	75	15	< 0.49	< 0.49	< 0.42	< 0.3	< 0.3	< 0.49	< 0.42	< 0.7	< 0.7	< 0.3	< 0.3	< 0.49	< 0.42	< 0.7	
2,2-Dichloropropane	ug/l	NL	NL	< 3.1	< 3.1	NA	< 0.36	< 0.36	< 3.1	NA	NA	NA	< 0.36	< 0.36	< 3.1	NA	NA	
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Chlorotoluene	ug/l	NL	NL	< 0.4	< 0.4	< 0.36	< 0.21	< 0.21	< 0.4	< 0.36	< 0.31	< 0.31	< 0.21	< 0.21	< 0.4	< 0.36	< 0.31	
4-Chlorotoluene	ug/l	NL	NL	< 0.63	< 0.63	< 0.35	< 0.21	< 0.21	< 0.63	< 0.35	< 0.26	< 0.26	< 0.21	< 0.21	< 0.63	< 0.35	< 0.26	
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.17	< 0.24	< 0.24	< 0.44	< 0.17	< 0.22	< 0.22	< 0.24	< 0.24	< 0.44	< 0.17	< 0.22	
Bromobenzene	ug/l	NL	NL	< 0.48	< 0.48	< 0.43	< 0.32	< 0.32	< 0.48	< 0.43	< 0.44	< 0.44	< 0.32	< 0.32	< 0.48	< 0.43	< 0.44	
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	ug/l	0.6	0.06	< 0.46	< 0.46	< 0.31	< 0.37	< 0.37	< 0.46	< 0.31	< 0.33	< 0.33	< 0.37	< 0.37	< 0.46	< 0.31	< 0.33	
Bromoform	ug/l	4.4	0.44	< 0.46	< 0.46	< 0.49	< 0.35	< 0.35	< 0.46	< 0.49	< 0.45	< 0.45	< 0.35	< 0.35	< 0.46	< 0.49	< 0.45	
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon tetrachloride	ug/l	5	0.5	< 0.51	< 0.51	< 0.21	< 0.33	< 0.33	< 0.51	< 0.21	< 0.31	< 0.31	< 0.33	< 0.33	< 0.51	< 0.21	< 0.31	
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.27	< 0.24	< 0.24	< 0.46	< 0.27	< 0.26	< 0.26	< 0.24	< 0.24	< 0.46	< 0.27	< 0.26	
Chloroethane	ug/l	400	80	< 0.65	< 0.65	< 0.5	< 0.63	< 0.63	< 0.65	< 0.5	< 0.61	< 0.61	< 0.63	< 0.63	< 0.65	< 0.5	< 0.61	
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.96	< 0.28	< 0.28	< 0.43	< 0.96	< 0.26	< 0.26	0.28 J	< 0.28	< 0.43	< 0.96	< 0.26	
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.3	< 0.81	< 0.81	< 1.9	< 1.3	< 0.54	< 0.54	< 0.81	< 0.81	< 1.9	< 1.3	< 0.54	
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	< 0.45	< 0.41	< 0.38	< 0.38	< 0.45	< 0.41	< 0.37	< 0.37	< 0.38	< 0.38	< 0.45	< 0.41	< 0.37	
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	< 0.21	NA	NA	NA	< 0.21	< 0.26	< 0.26	NA	NA	< 0.21	< 0.26	< 0.26	
Dibromochloromethane	ug/l	60	6	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	ug/l	1000	200	< 0.87	< 0.87	< 0.38	< 0.44	< 0.44	< 0.87	< 0.38	< 0.32	< 0.32	< 0.44	< 0.44	< 0.87	< 0.38	< 0.32	
Ethylbenzene	ug/l	700	140	< 0.71	< 0.71	< 0.2	< 0.55	< 0.55	< 0.71	< 0.2	< 0.26	< 0.26	< 0.55	< 0.55	< 0.71	< 0.2	< 0.26	
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 2.2	< 2.2	< 1.47	< 1.5	< 1.5	< 2.2	< 1.47	< 1.34	< 1.34	< 1.5	< 1.5	< 2.2	< 1.47	< 1.34	
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Isopropyl ether	ug/l	NL	NL	< 0.44	< 0.44	< 0.26	< 0.23	< 0.23	< 0.44	< 0.26	< 0.21	< 0.21	< 0.23	< 0.23	< 0.44	< 0.26	< 0.21	
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.82	< 0.82	< 0.29	< 0.3	< 0.3	< 0.82	< 0.29	< 0.78	< 0.78	< 0.3	< 0.3	< 0.82	< 0.29	< 0.78	
m,p-Xylenes	ug/l	2000	400	< 2.2	< 2.2	< 1.56	< 0.69	< 0.69	< 2.2	< 1.56	< 0.43	< 0.43	< 0.69	< 0.69	< 2.2	< 1.56	< 0.43	
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 0.94	< 0.5	< 0.5	< 1.3	< 0.94	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 0.94	< 1.32	
Methyl-tert-butyl ether	ug/l	60	12	< 1.1	< 1.1	< 0.82	< 0.23	< 0.23	< 1.1	< 0.82	< 0.28	< 0.28	< 0.23	< 0.23	< 1.1	< 0.82	< 0.28	
Naphthalene	ug/l	100	10	< 1.6	< 1.6	< 2.17	< 1.7	< 1.7	< 1.6	< 2.17	< 2.1	< 2.1	< 1.7	< 1.7	< 1.6	< 2.17	< 2.1	
n-Butylbenzene	ug/l	NL	NL	< 1	< 1	< 0.34	< 0.35	< 0.35	< 1	< 0.34	< 0.71	< 0.71	< 0.35	< 0.35	< 1	< 0.34	< 0.71	
n-Propylbenzene	ug/l	NL	NL	< 0.77	< 0.77	< 0.19	< 0.25	< 0.25	< 0.77	< 0.19	< 0.61	< 0.61	< 0.25	< 0.25	< 0.77	< 0.19	< 0.61	
o-Xylene	ug/l	2000	400	< 0.9	< 0.9	< 0.39	< 0.63	< 0.63	< 0.9	< 0.39	< 0.29	< 0.29	< 0.63	< 0.63	< 0.9	< 0.39	< 0.29	
p-Isopropyltoluene	ug/l	NL	NL	< 1.1	< 1.1	< 0.28	< 0.31	< 0.31	< 1.1	< 0.28</								

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3504 CTH CR			3523 CTH CR					3533 CTH CR						
				Replacement Potable Well			1/3/14 Basement	6/3/14 Basement	10/14/15 Basement	10/25/17 Basement	10/10/18 Basement	10/21/19 Basement	1/6/14 Basement	6/3/14 Basement	3/30/16 Basement	10/27/17 Basement	10/11/18 Basement	10/21/19 Basement
				10/24/16 Basement	11/8/16 Basement	2/23/17 Basement												
Polycarbonated Biphenyls (PCBs):																		
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																		
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	1380	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	12.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																		
Total Dissolved Solids	mg/L	NL	NL	NA	NA	2330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																		
Conductivity	uS/cm	NL	NL	NA	NA	NA	506	506	567	NA	NA	NA	739	885	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	2.96	2.96	4.69	NA	NA	NA	5.91	1.85	NA	NA	NA	NA
ORP	mV	NL	NL	NA	NA	NA	187	187	-101.9	NA	NA	NA	157.2	138	NA	NA	NA	NA
pH	SU	NL	NL	NA	NA	NA	7.93	7.93	7.5	NA	NA	NA	7.49	6.84	NA	NA	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	11.71	11.71	11.29	NA	NA	NA	9.92	12.5	NA	NA	NA	NA

SUMMARY OF CONTAMINANTS (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3611 CTH CR						3618 CTH CR							
				5/30/14 Outside Spigot	10/5/16 Outside Spigot	10/25/17 Outside Spigot	10/10/18 Outside Spigot	10/22/19 Outside Spigot	10/22/19 (DUP) Outside Spigot	1/3/14 Kitchen Sink	5/29/14 Kitchen Sink	8/25/14 Kitchen Sink	11/10/14 Kitchen Sink	2/23/15 Kitchen Sink	10/14/15 Pressure Tank	3/30/16 Kitchen Sink	10/6/16 Kitchen Sink
Volatile Organic Compounds (VOCs):																	
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.48	< 0.47	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.47
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.84	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.35
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.52	< 0.69	< 0.3	< 0.3	< 0.3	< 0.45	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.69
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.48	< 0.65	< 0.42	< 0.42	< 0.42	< 0.45	< 0.44	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.65
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 1.1	< 0.42	< 0.36	< 0.36	< 0.36	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 0.42
1,1-Dichloropropene	ug/l	7	0.7	< 0.4	< 0.65	< 0.46	< 0.42	< 0.42	< 0.42	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.46
1,1-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 2.7	< 0.83	< 1.71	< 1.71	< 1.71	< 1.8	< 1.8	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 0.83
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 1.7	< 1.29	< 1.15	< 1.15	< 1.15	< 0.98	< 0.98	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.29
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 1.6	< 1.14	< 0.8	< 0.8	< 0.8	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.14
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 1.4	< 1.88	< 2.96	< 2.96	< 2.96	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.88
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.46	< 0.34	< 0.86	< 0.86	< 0.86	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.36
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.48	< 0.45	< 0.25	< 0.25	< 0.25	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48	< 0.48	< 0.48	< 0.45
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.43	< 0.39	< 0.44	< 0.44	< 0.44	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.39
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.5	< 0.91	< 0.63	< 0.63	< 0.63	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 0.91
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.52	< 0.45	< 0.85	< 0.85	< 0.85	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.45
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.42	< 0.49	< 0.3	< 0.3	< 0.3	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.33
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.49	< 0.42	< 0.7	< 0.7	< 0.7	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.42
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 3.1	NA	NA	NA	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.4	< 0.36	< 0.31	< 0.31	< 0.31	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.36
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.63	< 0.35	< 0.26	< 0.26	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.35
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.44	< 0.17	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.17
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.48	< 0.43	< 0.44	< 0.44	< 0.44	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.43
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.46	< 0.31	< 0.33	< 0.33	< 0.33	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.31
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.46	< 0.49	< 0.45	< 0.45	< 0.45	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.49
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.51	< 0.21	< 0.31	< 0.31	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51	< 0.51	< 0.51	< 0.21
Chlorobenzene	ug/l	100	20	< 0.24	< 0.46	< 0.27	< 0.26	< 0.26	< 0.26	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.27
Chloroethane	ug/l	400	80	< 0.63	< 0.65	< 0.5	< 0.61	< 0.61	< 0.61	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.5
Chloroform	ug/l	6	0.6	< 0.28	< 0.43	< 0.96	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.96
Chloromethane	ug/l	30	3	< 0.81	< 1.9	< 1.3	< 0.54	< 0.54	< 0.54	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.3
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.45	< 0.41	< 0.37	< 0.37	< 0.37	1.24	1.16 J	0.48 J	0.83 J	0.95 J	0.89 J	1.06 J	0.88 J
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	< 0.21	< 0.26	< 0.26	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.21
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.87	< 0.38	< 0.32	< 0.32	< 0.32	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.38
Ethylbenzene	ug/l	700	140	< 0.55	< 0.71	< 0.2	< 0.26	< 0.26	< 0.26	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.2
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 2.2	< 1.47	< 1.34	< 1.34	< 1.34	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 1.47
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.44	< 0.26	< 0.21	< 0.21	< 0.21	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.26
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.82	< 0.29	< 0.78	< 0.78	< 0.78	< 0.3	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.29
m,p-Xylenes	ug/l	2000	400	< 0.69	< 2.2	< 1.56	< 0.43	< 0.43	< 0.43	< 0.69	< 0.69	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 1.56
Methylene Chloride	ug/l	5	0.5	< 0.5	< 1.3	< 0.94	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 0.94
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 1.1	< 0.82	< 0.28	< 0.28	< 0.28	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 0.82
Naphthalene	ug/l	100	10	< 1.7	< 1.6	< 2.17	< 2.1	< 2.1	< 2.1	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 2.17
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 1	< 0.34	< 0.71	< 0.71	< 0.71	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 0.34
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.77	< 0.19	< 0.61	< 0.61	< 0.61	< 0.25	< 0.25	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.19
o-Xylene	ug/l	2000	400	< 0.63	< 0.9	< 0.39	< 0.29	< 0.29	< 0.29	< 0.63	< 0.63	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.39
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 1.1	< 0.28	< 0.24	< 0.24	< 0.24	< 0.31	< 0.31	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 0.28
sec-Butylbenzene	ug/l	NL	NL	< 0.33	< 1.2	< 0.24	< 0.79	< 0.79	< 0.79	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 0.24
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 0.36	< 1.1	< 0.39	< 0.25	< 0.25	< 0.25	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 0.39
Tetrachloroethene	ug/l	5	0.5	< 0.33	< 0.49	< 0.48	< 0.38	< 0.38	< 0.38	< 0.33	< 0.33	< 0.33	< 0.33	< 0.49	< 0.49	< 0.49	< 0.48
Tetrahydrofuran	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	800	160	< 0.69	< 1.44	< 0.67	< 0.19	< 0.19	< 0.1								

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3611 CTH CR						3618 CTH CR								
				5/30/14 Outside Spigot	10/5/16 Outside Spigot	10/25/17 Outside Spigot	10/10/18 Outside Spigot	10/22/19 Outside Spigot	10/22/19 (DUP) Outside Spigot	1/3/14 Kitchen Sink	5/29/14 Kitchen Sink	8/25/14 Kitchen Sink	11/10/14 Kitchen Sink	2/23/15 Kitchen Sink	10/14/15 Pressure Tank	3/30/16 Kitchen Sink	10/6/16 Kitchen Sink	5/30/17 Kitchen Sink
Polycarbonated Biphenyls (PCBs):																		
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																		
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																		
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																		
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																		
Conductivity	uS/cm	NL	NL	931	NA	NA	NA	NA	NA	543	520	658	674	674	649	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	3.95	NA	NA	NA	NA	NA	5.32	2.24	0.8	1.44	1.44	1.49	NA	NA	NA
ORP	mV	NL	NL	166	NA	NA	NA	NA	NA	147.6	136	238	-102.5	-102.5	-14.7	NA	NA	NA
pH	SU	NL	NL	6.98	NA	NA	NA	NA	NA	7.02	7.8	7.87	7.95	7.95	7.79	NA	NA	NA
Temperature	deg C	NL	NL	10.3	NA	NA	NA	NA	NA	9.02	7.8	18.3	11.33	11.33	16.22	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3618 CTH CR					3626 CTH CR					
				10/25/17	5/21/18	10/10/18	6/27/19	10/21/19	12/5/13	5/30/14	10/14/15	10/27/17	10/11/18	10/30/19
				Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Kitchen Sink	Bathroom	Bathroom	Bathroom	Bathroom	Bathroom	Bathroom
Volatile Organic Compounds (VOCs):														
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.47	< 0.35	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.48	< 0.47	< 0.35	< 0.35
1,1,1-Trichloroethane	ug/l	200	40	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.35	< 0.33	< 0.33
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.69	< 0.3	< 0.3	< 0.3	< 0.3	< 0.45	< 0.45	< 0.52	< 0.69	< 0.3	< 0.3
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.65	< 0.42	< 0.42	< 0.42	< 0.42	< 0.34	< 0.34	< 0.48	< 0.65	< 0.42	< 0.42
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Dichloroethane	ug/l	850	85	< 0.42	< 0.36	< 0.36	< 0.36	< 0.36	< 0.3	< 0.3	< 1.1	< 0.42	< 0.36	< 0.36
1,1-Dichloroethane	ug/l	7	0.7	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.4	< 0.4	< 0.65	< 0.46	< 0.42	< 0.42
1,1-Dichloropropene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 0.83	< 1.71	< 1.71	< 1.71	< 1.71	< 1.8	< 1.8	< 2.7	< 0.83	< 1.71	< 1.71
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 1.29	< 1.15	< 1.15	< 1.15	< 1.15	< 0.98	< 0.98	< 1.7	< 1.29	< 1.15	< 1.15
1,2,4-Trimethylbenzene	ug/l	480	96	< 1.14	< 0.8	< 0.8	< 0.8	< 0.8	< 2.2	< 2.2	< 1.6	< 1.14	< 0.8	< 0.8
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 1.88	< 2.96	< 2.96	< 2.96	< 2.96	< 0.88	< 0.88	< 1.4	< 1.88	< 2.96	< 2.96
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.44	< 0.44	< 0.63	< 0.34	< 0.34	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.34	< 0.86	< 0.86	< 0.86	< 0.86	< 0.36	< 0.36	< 0.46	< 0.34	< 0.86	< 0.86
1,2-Dichloroethane	ug/l	5	0.5	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.41	< 0.41	< 0.48	< 0.45	< 0.25	< 0.25
1,2-Dichloropropane	ug/l	5	0.5	< 0.39	< 0.44	< 0.44	< 0.44	< 0.44	< 0.32	< 0.32	< 0.43	< 0.39	< 0.44	< 0.44
1,3,5-Trimethylbenzene	ug/l	480	96	< 0.91	< 0.63	< 0.63	< 0.63	< 0.63	< 1.4	< 1.4	< 1.5	< 0.91	< 0.63	< 0.63
1,3-Dichlorobenzene	ug/l	600	120	< 0.45	< 0.85	< 0.85	< 0.85	< 0.85	< 0.28	< 0.28	< 0.52	< 0.45	< 0.85	< 0.85
1,3-Dichloropropane	ug/l	NL	NL	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3	< 0.33	< 0.33	< 0.42	< 0.49	< 0.3	< 0.3
1,4-Dichlorobenzene	ug/l	75	15	< 0.42	< 0.7	< 0.7	< 0.7	< 0.7	< 0.3	< 0.3	< 0.49	< 0.42	< 0.7	< 0.7
2,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	< 0.36	< 0.36	< 3.1	NA	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.36	< 0.31	< 0.31	< 0.31	< 0.31	< 0.21	< 0.21	< 0.4	< 0.36	< 0.31	< 0.31
4-Chlorotoluene	ug/l	NL	NL	< 0.35	< 0.26	< 0.26	< 0.26	< 0.26	< 0.21	< 0.21	< 0.63	< 0.35	< 0.26	< 0.26
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.24	< 0.24	< 0.44	< 0.17	< 0.22	< 0.22
Bromobenzene	ug/l	NL	NL	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44	< 0.32	< 0.32	< 0.48	< 0.43	< 0.44	< 0.44
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33	< 0.37	< 0.37	< 0.46	< 0.31	< 0.33	< 0.33
Bromoform	ug/l	4.4	0.44	< 0.49	< 0.45	< 0.45	< 0.45	< 0.45	< 0.35	< 0.35	< 0.46	< 0.49	< 0.45	< 0.45
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31	< 0.33	< 0.33	< 0.51	< 0.21	< 0.31	< 0.31
Chlorobenzene	ug/l	100	20	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.24	< 0.24	< 0.46	< 0.27	< 0.26	< 0.26
Chloroethane	ug/l	400	80	< 0.5	< 0.61	< 0.61	< 0.61	< 0.61	< 0.63	< 0.63	< 0.65	< 0.5	< 0.61	< 0.61
Chloroform	ug/l	6	0.6	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.43	< 0.96	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.81	< 0.81	< 1.9	< 1.3	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.95	J 1.23	1.14	J 1	J 1.09	< 0.38	< 0.38	< 0.45	< 0.41	< 0.37	< 0.37
cis-1,3-Dichloropropene	ug/l	0.4	0.04	< 0.21	< 0.26	< 0.26	< 0.26	< 0.26	NA	NA	NA	< 0.21	< 0.26	< 0.26
Dibromochloromethane	ug/l	60	6	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32	< 0.44	< 0.44	< 0.87	< 0.38	< 0.32	< 0.32
Ethylbenzene	ug/l	700	140	< 0.2	< 0.26	< 0.26	< 0.26	< 0.26	< 0.55	< 0.55	< 0.71	< 0.2	< 0.26	< 0.26
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.47	< 1.34	< 1.34	< 1.34	< 1.34	< 1.5	< 1.5	< 2.2	< 1.47	< 1.34	< 1.34
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21	< 0.23	< 0.23	< 0.44	< 0.26	< 0.21	< 0.21
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.29	< 0.78	< 0.78	< 0.78	< 0.78	< 0.3	< 0.3	< 0.82	< 0.29	< 0.78	< 0.78
m,p-Xylenes	ug/l	2000	400	< 1.56	< 0.43	< 0.43	< 0.43	< 0.43	< 0.69	< 0.69	< 2.2	< 1.56	< 0.43	< 0.43
Methylene Chloride	ug/l	5	0.5	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 0.94	< 1.32	< 1.32
Methyl-tert-butyl ether	ug/l	60	12	< 0.82	< 0.28	< 0.28	< 0.28	< 0.28	< 0.23	< 0.23	< 1.1	< 0.82	< 0.28	< 0.28
Naphthalene	ug/l	100	10	< 2.17	< 2.1	< 2.1	< 2.1	< 2.1	< 1.7	< 1.7	< 1.6	< 2.17	< 2.1	< 2.1
n-Butylbenzene	ug/l	NL	NL	< 0.34	< 0.71	< 0.71	< 0.71	< 0.71	< 0.35	< 0.35	< 1	< 0.34	< 0.71	< 0.71
n-Propylbenzene	ug/l	NL	NL	< 0.19	< 0.61	< 0.61	< 0.61	< 0.61	< 0.25	< 0.25	< 0.77	< 0.19	< 0.61	< 0.61
o-Xylene	ug/l	2000	400	< 0.39	< 0.29	< 0.29	< 0.29	< 0.29	< 0.63	< 0.63	< 0.9	< 0.39	< 0.29	< 0.29
p-Isopropyltoluene	ug/l	NL	NL	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.31	< 0.31	< 1.1	< 0.28	< 0.24	< 0.24
sec-Butylbenzene	ug/l	NL	NL	< 0.24	< 0.79	< 0.79	< 0.79	< 0.79	< 0.33	< 0.33	< 1.2	< 0.24	< 0.79	< 0.79
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25	< 0.36	< 0.36	< 1.1	< 0.39	< 0.25	< 0.25
Tetrachloroethene	ug/l	5	0.5	< 0.48	< 0.38	< 0.38	< 0.38	< 0.38	< 0.33	< 0.33	< 0.49	< 0.48	< 0.38	< 0.38
Tetrahydrofuran	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	800	160	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19	< 0.69	< 0.69	< 0.44	< 0.67	< 0.19	0.81
Total Trimethylbenzene	ug/l	NL	NL	< 1.14	NA	< 0.8	NA	NA	< 2.2	< 2.2	< 1.6	< 1.14	< 0.8	NA
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34	< 0.35	< 0.35	< 0.54	< 0.35	< 0.34	< 0.34
trans-1,3-Dichloropropene	ug/l	0.4	0.04	< 0.42	< 0.32	< 0.32	< 0.32	< 0.32	NA	NA	NA	< 0.42	< 0.32	< 0.32
Trichloroethene	ug/l	5	0.5	< 0.45	< 0.3	< 0.3	< 0.3	< 0.3	< 0.33	< 0.33	< 0.47	< 0.45	< 0.3	< 0.3
Trichlorofluoromethane	ug/l	3490	698	< 0.64	< 0.35	< 0.35	< 0.35	< 0.35	< 0.71	< 0.71	< 0.87	< 0.64	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.19	< 0.2	< 0.2	< 0.2	< 0.						

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3618 CTH CR					3626 CTH CR					
				10/25/17 Kitchen Sink	5/21/18 Kitchen Sink	10/10/18 Kitchen Sink	6/27/19 Kitchen Sink	10/21/19 Kitchen Sink	12/5/13 Bathroom	5/30/14 Bathroom	10/14/15 Bathroom	10/27/17 Bathroom	10/11/18 Bathroom	10/30/19 Bathroom
Polycarbonated Biphenyls (PCBs):														
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:														
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:														
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:														
Conductivity	uS/cm	NL	NL	NA	NA	NA	NA	NA	519	500	578	578	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	NA	NA	5.73	1.83	2.52	2.52	NA	NA
ORP	mV	NL	NL	NA	NA	NA	NA	NA	90	143	-110.8	-110.8	NA	NA
pH	SU	NL	NL	NA	NA	NA	NA	NA	842	7.58	7.86	7.86	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	NA	NA	8.69	11.98	11.99	11.99	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES¹	PAL²	3627 CTH CR						3904 CTH CR				4024 CTH CR				4101 CTH CR			
				12/5/13 Basement	5/29/14 Basement	3/30/16 Basement	10/25/17 Basement	10/10/18 Basement	10/21/19 Basement	12/5/13 Pressure Tank	5/28/14 Pressure Tank	5/30/17 Outside Spigot	05/30/17 (DUP) Outside Spigot	12/12/13 Spigot in Barn	5/28/14 Spigot in Barn	10/6/16 Pressure Tank	10/22/19 Pressure Tank	5/29/14 Pressure Tank	10/14/15 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank
Volatile Organic Compounds (VOCs):																					
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.48	< 0.47	< 0.35	< 0.35	< 0.33	< 0.33	< 0.47	< 0.47	< 0.33	< 0.33	< 0.48	< 0.35	< 0.33	< 0.48	< 0.35	< 0.35
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.84	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.35	< 0.35	< 0.33	< 0.33	< 0.84	< 0.33	< 0.33	< 0.84	< 0.33	< 0.33
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.52	< 0.69	< 0.3	< 0.3	< 0.45	< 0.45	< 0.69	< 0.69	< 0.45	< 0.45	< 0.52	< 0.3	< 0.45	< 0.52	< 0.3	< 0.3
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.48	< 0.48	< 0.42	< 0.42	< 0.34	< 0.34	< 0.48	< 0.48	< 0.34	< 0.34	< 0.48	< 0.48	< 0.34	< 0.48	< 0.42	< 0.42
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 1.1	< 0.42	< 0.36	< 0.36	< 0.3	< 0.3	< 0.42	< 0.42	< 0.3	< 0.3	< 1.1	< 0.36	< 0.3	< 1.1	< 0.36	< 0.36
1,1-Dichloroethane	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.46	< 0.42	< 0.42	< 0.4	< 0.4	< 0.46	< 0.46	< 0.4	< 0.4	< 0.65	< 0.42	< 0.4	< 0.65	< 0.42	< 0.42
1,1-Dichloropropene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 2.7	< 0.83	< 1.71	< 1.71	< 1.8	< 1.8	< 0.83	< 0.83	< 1.8	< 1.8	< 2.7	< 1.71	< 1.8	< 2.7	< 1.71	< 1.71
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 1.7	< 1.29	< 1.15	< 1.15	< 0.98	< 0.98	< 1.29	< 1.29	< 0.98	< 0.98	< 1.7	< 1.15	< 0.98	< 1.7	< 1.15	< 1.15
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 1.6	< 1.14	< 0.8	< 0.8	< 2.2	< 2.2	< 1.14	< 1.14	< 2.2	< 2.2	< 1.6	< 0.8	< 2.2	< 1.6	< 0.8	< 0.8
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 1.4	< 1.88	< 2.96	< 2.96	< 0.88	< 0.88	< 1.88	< 1.88	< 0.88	< 0.88	< 1.4	< 2.96	< 0.88	< 1.4	< 2.96	< 2.96
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.63	< 0.34	< 0.34	< 0.34	< 0.44	< 0.44	< 0.34	< 0.34	< 0.44	< 0.44	< 0.63	< 0.34	< 0.44	< 0.63	< 0.34	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.46	< 0.36	< 0.46	< 0.46	< 0.36	< 0.36	< 0.46	< 0.46	< 0.36	< 0.36	< 0.46	< 0.46	< 0.36	< 0.46	< 0.46	< 0.46
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.48	< 0.45	< 0.25	< 0.25	< 0.41	< 0.41	< 0.45	< 0.45	< 0.41	< 0.41	< 0.48	< 0.25	< 0.41	< 0.48	< 0.25	< 0.25
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.43	< 0.39	< 0.44	< 0.44	< 0.32	< 0.32	< 0.39	< 0.39	< 0.32	< 0.32	< 0.43	< 0.44	< 0.32	< 0.43	< 0.44	< 0.44
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.5	< 0.91	< 0.63	< 0.63	< 1.4	< 1.4	< 0.91	< 0.91	< 1.4	< 1.4	< 1.5	< 0.63	< 1.4	< 1.5	< 0.63	< 0.63
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.52	< 0.45	< 0.85	< 0.85	< 0.28	< 0.28	< 0.45	< 0.45	< 0.28	< 0.28	< 0.52	< 0.85	< 0.28	< 0.52	< 0.85	< 0.85
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.42	< 0.49	< 0.3	< 0.3	< 0.33	< 0.33	< 0.49	< 0.49	< 0.33	< 0.33	< 0.42	< 0.3	< 0.33	< 0.42	< 0.3	< 0.3
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.49	< 0.42	< 0.7	< 0.7	< 0.3	< 0.3	< 0.42	< 0.42	< 0.3	< 0.3	< 0.49	< 0.7	< 0.3	< 0.49	< 0.7	< 0.7
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 3.1	NA	NA	NA	< 0.36	< 0.36	NA	NA	< 0.36	< 0.36	< 3.1	NA	< 0.36	< 3.1	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.4	< 0.36	< 0.31	< 0.31	< 0.21	< 0.21	< 0.36	< 0.36	< 0.21	< 0.21	< 0.4	< 0.31	< 0.21	< 0.4	< 0.31	< 0.31
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.63	< 0.35	< 0.26	< 0.26	< 0.21	< 0.21	< 0.35	< 0.35	< 0.21	< 0.21	< 0.63	< 0.26	< 0.21	< 0.63	< 0.26	< 0.26
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.17	< 0.22	< 0.22	< 0.24	< 0.24	< 0.17	< 0.17	< 0.24	< 0.24	< 0.44	< 0.22	< 0.24	< 0.44	< 0.22	< 0.22
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.48	< 0.43	< 0.44	< 0.44	< 0.32	< 0.32	< 0.43	< 0.43	< 0.32	< 0.32	< 0.48	< 0.44	< 0.32	< 0.48	< 0.44	< 0.44
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.46	< 0.31	< 0.33	< 0.33	< 0.37	< 0.37	< 0.31	< 0.31	< 0.37	< 0.37	< 0.46	< 0.33	< 0.37	< 0.46	< 0.33	< 0.33
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.46	< 0.49	< 0.45	< 0.45	< 0.35	< 0.35	< 0.49	< 0.49	< 0.35	< 0.35	< 0.46	< 0.45	< 0.35	< 0.46	< 0.45	< 0.45
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.51	< 0.21	< 0.31	< 0.31	< 0.33	< 0.33	< 0.21	< 0.21	< 0.33	< 0.33	< 0.51	< 0.31	< 0.33	< 0.51	< 0.31	< 0.31
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.27	< 0.26	< 0.26	< 0.24	< 0.24	< 0.27	< 0.27	< 0.24	< 0.24	< 0.46	< 0.26	< 0.24	< 0.46	< 0.26	< 0.26
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.65	< 0.5	< 0.61	< 0.61	< 0.63	< 0.63	< 0.5	< 0.5	< 0.63	< 0.63	< 0.65	< 0.61	< 0.63	< 0.65	< 0.61	< 0.61
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.96	< 0.26	< 0.26	< 0.28	< 0.28	< 0.96	< 0.96	< 0.28	< 0.28	< 0.43	< 0.26	< 0.28	< 0.43	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.3	< 0.54	< 0.54	< 0.81	< 0.81	< 1.3	< 1.3	< 0.81	< 0.81	< 1.9	< 0.54	< 0.81	< 1.9	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.41	< 0.37	< 0.37	< 0.38	< 0.38	< 0.41	< 0.41	< 0.38	< 0.38	< 0.45	0.51 J	< 0.38	< 0.45	< 0.37	< 0.37
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	< 0.21	< 0.26	< 0.26	NA	NA	< 0.21	< 0.21	NA	NA	< 0.26	NA	NA	< 0.26	NA	NA
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.87	< 0.38	< 0.32	< 0.32	< 0.44	< 0.44	< 0.38	< 0.38	< 0.44	< 0.44	< 0.87	< 0.32	< 0.44	< 0.87	< 0.32	< 0.32
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.71	< 0.2	< 0.26	< 0.26	< 0.55	< 0.55	< 0.2	< 0.2	< 0.55	< 0.55	< 0.71	< 0.26	< 0.55	< 0.71	< 0.26	< 0.26
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 2.2	< 1.47	< 1.34	< 1.34	< 1.5	< 1.5	< 1.47	< 1.47	< 1.5	< 1.5	< 2.2	< 1.34	< 1.5	< 2.2	< 1.34	< 1.34
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.44	< 0.26	< 0.21	< 0.21	< 0.23	< 0.23	< 0.26	< 0.26	< 0.23	< 0.23	< 0.44	< 0.21	< 0.23	< 0.44	< 0.21	< 0.21
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.82	< 0.29	< 0.78	< 0.78	< 0.3	< 0.3	< 0.29	< 0.29	< 0.3	< 0.3	< 0.82	< 0.78	< 0.3	< 0.82	< 0.78	< 0.78
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 2.2	< 1.56	< 0.43	< 0.43	< 0.69	< 0.69	< 1.56	< 1.56	< 0.69	< 0.69	< 2.2	< 1.56	< 0.69	< 2.2	< 1.56	< 1.56
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 0.94	< 1.32	< 1.32	< 0.5	< 0.5	< 0.94	< 0.94	< 0.5	< 0.5	< 1.3	< 0.94	< 0.5	< 1.3	< 1.32	< 1.32
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 1															

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3627 CTH CR						3904 CTH CR				4024 CTH CR				4101 CTH CR			
				12/5/13 Basement	5/29/14 Basement	3/30/16 Basement	10/25/17 Basement	10/10/18 Basement	10/21/19 Basement	12/5/13 Pressure Tank	5/28/14 Pressure Tank	5/30/17 Outside Spigot	05/30/17 (DUP) Outside Spigot	12/12/13 Spigot in Barn	5/28/14 Spigot in Barn	10/6/16 Pressure Tank	10/22/19 Pressure Tank	5/29/14 Pressure Tank	10/14/15 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank
Polycarbonated Biphenyls (PCBs):																					
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																					
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																					
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																					
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																					
Conductivity	uS/cm	NL	NL	655	861	NA	NA	NA	NA	828	905	NA	NA	599	565	NA	NA	598	687	NA	NA
Dissolved Oxygen	ppm	NL	NL	4.92	1.46	NA	NA	NA	NA	5.32	3.84	NA	NA	4.71	1.44	NA	NA	2.3	2.54	NA	NA
ORP	mV	NL	NL	91.3	152	NA	NA	NA	NA	96.9	138	NA	NA	99	124	NA	NA	126	-75	NA	NA
pH	SU	NL	NL	8.49	7.5	NA	NA	NA	NA	8.05	7.88	NA	NA	8.32	7.65	NA	NA	7.42	7.65	NA	NA
Temperature	deg C	NL	NL	12.16	15.1	NA	NA	NA	NA	8.43	11.5	NA	NA	5.6	12.3	NA	NA	12.4	12.93	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4125 CTH CR		4002 Thunder Ridge Rd										
				5/31/17 Pressure Tank	05/31/17 (DUP) Pressure Tank	Original Potable Well					Replacement Potable Well					
						1/3/14 Pressure Tank	8/25/14 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank	10/27/15 Pressure Tank	3/31/16 Pressure Tank	03/31/16 (DUP) Pressure Tank	5/23/16 Pressure Tank	6/2/16 Pressure Tank	6/23/16 Pressure Tank	10/5/16 Pressure Tank
Polycarbonated Biphenyls (PCBs):																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1753	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.5	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2450	NA
Field Screening Measurements:																
Conductivity	uS/cm	NL	NL	NA	NA	583	740	774	774	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	5.32	3.49	1.42	1.42	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	NA	NA	159	237	-135.8	-135.8	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	NA	NA	7.21	7.32	7.45	7.45	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	NA	NA	8.51	13.1	12.74	12.74	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4005 Thunder Ridge Rd															
				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	11/8/16 Outside Spigot	5/30/17 Pressure Tank	5/30/17 Pressure Tank	6/22/17 Pressure Tank	8/17/17 Pressure Tank	03/05/18 Pressure Tank		
Volatile Organic Compounds (VOCs):																			
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47	< 0.47	< 0.47	< 0.47	NA	
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	NA
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	NA
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	NA
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	NA
1,1-Dichloropropene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	NA
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29	< 1.29	< 1.29	< 1.29	< 1.29	NA
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14	< 1.14	< 1.14	< 1.14	< 1.14	NA
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	NA
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	NA
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	NA
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	NA
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	NA
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	NA
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	NA
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	NA
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	NA
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	NA
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	NA
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
Bromofrom	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	NA
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.33	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	NA
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	NA
cis-1,2-Dichloroethene	ug/l	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	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	NA
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	NA
Dibromochloromethane	ug/l	60	6	< 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	NA
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	NA
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	NA
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29	NA
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56	< 1.56	< 1.56	< 1.56	< 1.56	NA
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	NA
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	NA
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.7	< 1.6	<											

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4005 Thunder Ridge Rd													
				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	11/8/16 Outside Spigot	5/30/17 Pressure Tank	5/30/17 Pressure Tank	6/22/17 Pressure Tank	8/17/17 Pressure Tank	03/05/18 Pressure Tank
Polycarbonated Biphenyls (PCBs):																	
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																	
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.3
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	317
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	552
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.9
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.73
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	1873	1573	NA	1696	1860
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.83	6.98	NA	4.05	4.83
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11.9
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.2
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.67
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4240
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43.5
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29000
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7
Dissolved Metals:																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.24	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	2706	2700	NA	2714	2700
Field Screening Measurements:																	
Conductivity	uS/cm	NL	NL	663	781	774	744	778	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	1.43	1.35	1.66	8.33	4.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	122	199	-120.9	-195.4	-73.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.75	8.06	8	8.06	7.23	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	12	14.9	9.71	8.1	10.7	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4010 Thunder Ridge Rd								Replacement Potable Well				
				Original Potable Well								Replacement Potable Well				
				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	5/31/17 Outside Spigot	6/22/17 Pressure Tank	8/17/17 Pressure Tank	03/05/18 Pressure Tank	
Volatile Organic Compounds (VOCs):																
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47	< 0.47	< 0.47	< 0.47	NA
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35	< 0.35	< 0.35	< 0.35	NA
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	< 0.69	< 0.69	NA
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65	< 0.65	< 0.65	< 0.65	NA
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.42	< 0.42	< 0.42	NA
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	NA
1,1-Dichloropropene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83	< 0.83	< 0.83	< 0.83	NA
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29	< 1.29	< 1.29	< 1.29	NA
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14	< 1.14	< 1.14	< 1.14	NA
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	< 1.88	< 1.88	< 1.88	NA
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	NA
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.34	< 0.34	< 0.34	NA
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.45	NA
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	NA
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91	< 0.91	< 0.91	< 0.91	NA
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	NA
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49	< 0.49	< 0.49	< 0.49	NA
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.42	< 0.42	< 0.42	NA
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	NA	NA	NA	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.36	< 0.36	< 0.36	NA
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.35	< 0.35	< 0.35	NA
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	NA
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.43	< 0.43	< 0.43	NA
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.31	< 0.31	< 0.31	NA
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.49	< 0.49	< 0.49	NA
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51	< 0.51	< 0.51	< 0.21	< 0.21	< 0.21	< 0.21	NA
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	NA
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.5	< 0.5	< 0.5	NA
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	NA
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	NA
cis-1,2-Dichloroethene	ug/l	70	7	1.37	1.18	1.43	1.27	1.47	1.27	1.42	1.42	< 0.41	< 0.41	< 0.41	< 0.41	NA
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	NA
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	NA
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.38	< 0.38	< 0.38	NA
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2	< 0.2	< 0.2	< 0.2	NA
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.47	< 1.47	< 1.47	NA
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.26	< 0.26	< 0.26	NA
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.29	< 0.29	< 0.29	NA
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56	< 1.56	< 1.56	< 1.56	NA
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	NA
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82	< 0.82	< 0.82	< 0.82	NA
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 2.17	< 2.17	< 2.17	< 2.17	NA
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 1	< 1	< 0.34	< 0.34	< 0.34	< 0.34	NA
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.19	< 0.19	< 0.19	< 0.19	NA
o-Xylene	ug/l	2000	400	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.39	< 0.39	< 0.39	< 0.39	NA
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.28	< 0.28	< 0.28	< 0.28	NA
sec-Butylbenzene	ug/l	NL	NL	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.24	< 0.24	< 0.24	NA
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.39	< 0.39	< 0.39	< 0.39	NA
Tetrachloroethene	ug/l	5	0.5	< 0.33	< 0.33	< 0.74	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.48	< 0.48	< 0.48	< 0.48	NA
Tetrahydrofuran	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44									

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4010 Thunder Ridge Rd											
				Original Potable Well						Replacement Potable Well					
				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	5/31/17 Outside Spigot	6/22/17 Pressure Tank	8/17/17 Pressure Tank	03/05/18 Pressure Tank
Polycarbonated Biphenyls (PCBs):															
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:															
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.8
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	262
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	558
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	1588	1576	NA	1732	1888
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	9.77	3.96	NA	3.51	4.82
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.9
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32.8
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.9
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.2
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.52
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4890
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 8.4
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68.4
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28200
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.2
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25.2
Dissolved Metals:															
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	8.72	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:															
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	2658	2652	NA	2702	2630
Field Screening Measurements:															
Conductivity	uS/cm	NL	NL	687	742	746	0.762	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	0.99	2.35	6.62	4.18	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	118	245	-158	-99.1	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.97	7.85	8.15	7.71	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	14.2	13.3	8.83	12.79	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4027 Thunder Ridge Rd															
				5/29/14 Outside Spigot	11/11/14 Outside Spigot	11/11/14 (DUP) Outside Spigot	2/24/15 Pressure Tank	10/13/15 Pressure Tank	3/31/16 Pressure Tank	10/6/16 Pressure Tank	10/06/16 (DUP) Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	5/31/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	
Volatile Organic Compounds (VOCs):																			
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47	< 0.47	< 0.35	< 0.35	< 0.35	< 0.35		
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33		
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	< 0.3	< 0.3	< 0.3	< 0.3		
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65	< 0.65	< 0.42	< 0.42	< 0.42	< 0.42		
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.42	< 0.36	< 0.36	< 0.36	< 0.36		
1,1-Dichloropropane	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42		
1,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83	< 0.83	< 1.71	< 1.71	< 1.71	< 1.71		
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29	< 1.29	< 1.15	< 1.15	< 1.15	< 1.15		
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14	< 1.14	< 0.8	< 0.8	< 0.8	< 0.8		
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	< 1.88	< 2.96	< 2.96	< 2.96	< 2.96		
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34		
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.34	< 0.86	< 0.86	< 0.86	< 0.86		
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25		
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.44	< 0.44	< 0.44	< 0.44		
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91	< 0.91	< 0.63	< 0.63	< 0.63	< 0.63		
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.45	< 0.85	< 0.85	< 0.85	< 0.85		
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3		
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.42	< 0.7	< 0.7	< 0.7	< 0.7		
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	NA	NA	NA	NA	NA	NA		
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.36	< 0.31	< 0.31	< 0.31	< 0.31		
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.35	< 0.26	< 0.26	< 0.26	< 0.26		
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22		
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44		
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33		
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.49	< 0.45	< 0.45	< 0.45	< 0.45		
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.33	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.21	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31		
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26		
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.5	< 0.61	< 0.61	< 0.61	< 0.61		
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26		
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54		
cis-1,2-Dichloroethane	ug/l	70	7	0.59 J	0.6 J	0.53 J	0.48 J	0.67 J	0.71 J	0.71 J	0.96 J	0.77 J	0.87 J	1.08 J	1.32	1 J	1.58	1.03 J	1.24
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.26	< 0.26	< 0.26	< 0.26		
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22		
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32		
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2	< 0.2	< 0.26	< 0.26	< 0.26	< 0.26		
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.47	< 1.34	< 1.34	< 1.34	< 1.34		
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21		
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.29	< 0.78	< 0.78	< 0.78	< 0.78		
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56	< 1.56	< 0.43	< 0.43	< 0.43	< 0.43		
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32		
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82	< 0.82	< 0.28	< 0.28	< 0.28	< 0.28		
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 2.17	< 2.17	< 2.1	< 2.1	< 2.1	< 2.1		
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 1	< 0.34	< 0.34	< 0.71	< 0.71	< 0.71	< 0.71		
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.19	< 0.19	< 0.61	< 0.61	< 0.61	< 0.61		
o-Xylene	ug/l	2000	400	< 0.63	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.39	< 0.39	< 0.29	< 0.29	< 0.29	< 0.29		
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.28	< 0.						

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4027 Thunder Ridge Rd															
				5/29/14 Outside Spigot	11/11/14 Outside Spigot	11/11/14 (DUP) Outside Spigot	2/24/15 Pressure Tank	10/13/15 Pressure Tank	3/31/16 Pressure Tank	10/6/16 Pressure Tank	10/06/16 (DUP) Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	5/31/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank	
Polycarbonated Biphenyls (PCBs):																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals:																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	377	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.98	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals:																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids:																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	534	
Field Screening Measurements:																			
Conductivity	uS/cm	NL	NL	702	890	890	1928	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	2.1	3.25	3.25	4.48	3.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ORP	mV	NL	NL	132	-109.8	-109.8	-150.9	-79.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH	SU	NL	NL	7.52	7.95	7.95	7.94	7.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Temperature	deg C	NL	NL	12	11.13	11.13	8.09	11.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

		4101 Thunder Ridge Rd															
Analyte	Units	ES ¹	PAL ²	8/26/14 Outside Spigot	11/17/14 Outside Spigot	3/11/15 Pressure Tank	10/14/15 Outside Spigot	3/30/16 Outside Spigot	11/8/16 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/10/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot
Volatile Organic Compounds (VOCs):																	
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47	< 0.47	< 0.47	< 0.47	< 0.35	< 0.35	< 0.35	< 0.35
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	< 0.69	< 0.69	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65	< 0.65	< 0.65	< 0.65	< 0.42	< 0.42	< 0.42	< 0.42
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.42	< 0.42	< 0.42	< 0.36	< 0.36	< 0.36	< 0.36
1,1-Dichloropropene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83	< 0.83	< 0.83	< 0.83	< 1.71	< 1.71	< 1.71	< 1.71
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29	< 1.29	< 1.29	< 1.29	< 1.15	< 1.15	< 1.15	< 1.15
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14	< 1.14	< 1.14	< 1.14	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	< 1.88	< 1.88	< 1.88	< 2.96	< 2.96	< 2.96	< 2.96
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.34	< 0.34	< 0.34	< 0.86	< 0.86	< 0.86	< 0.86
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.39	< 0.39	< 0.44	< 0.44	< 0.44	< 0.44
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91	< 0.91	< 0.91	< 0.91	< 0.63	< 0.63	< 0.63	< 0.63
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.85	< 0.85	< 0.85	< 0.85
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49	< 0.49	< 0.49	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.42	< 0.42	< 0.42	< 0.7	< 0.7	< 0.7	< 0.7
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.36	< 0.36	< 0.36	< 0.31	< 0.31	< 0.31	< 0.31
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.35	< 0.35	< 0.35	< 0.26	< 0.26	< 0.26	< 0.26
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.43	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.31	< 0.31	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.49	< 0.49	< 0.49	< 0.45	< 0.45	< 0.45	< 0.45
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.65	< 0.65	< 0.65	< 0.65	< 0.21	< 0.21	< 0.21	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.5	< 0.5	< 0.5	< 0.61	< 0.61	< 0.61	< 0.61
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.73 J	0.63 J	0.76 J	0.87 J	0.71 J	1.02 J	0.73 J	0.7 J	0.68 J	0.84 J	1.32	1.09 J	1.1 J	1.13 J
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.38	< 0.38	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2	< 0.2	< 0.2	< 0.2	< 0.26	< 0.26	< 0.26	< 0.26
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.47	< 1.47	< 1.47	< 1.34	< 1.34	< 1.34	< 1.34
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.26	< 0.26	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.29	< 0.29	< 0.29	< 0.78	< 0.78	< 0.78	< 0.78
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56	< 1.56	< 1.56	< 1.56	< 0.43	< 0.43	< 0.43	< 0.43
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82	< 0.82	< 0.82	< 0.82	< 0.28	< 0.28	< 0.28	< 0.28
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 2.17	< 2.17	< 2.17	< 2.17	< 2.1	< 2.1	< 2.1	< 2.1
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 0.34	< 0.34	< 0.34	< 0.34	< 0.71	< 0.71	< 0.71	< 0.71
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.19	< 0.19	< 0.19	< 0.19	< 0.61	< 0.61	< 0.61	< 0.61
o-Xylene	ug/l	2000	400	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.29	< 0.29	< 0.29	< 0.29
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 0.28	< 0.28	< 0.28	< 0				

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4101 Thunder Ridge Rd													
				8/26/14 Outside Spigot	11/17/14 Outside Spigot	3/11/15 Pressure Tank	10/14/15 Outside Spigot	3/30/16 Outside Spigot	11/8/16 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/10/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot
Polycarbonated Biphenyls (PCBs):																	
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																	
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																	
Conductivity	uS/cm	NL	NL	836	777	NA	846	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	1.4	1.24	NA	3.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	236	-33.7	NA	-66.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.75	7.7	NA	6.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	15.4	9.74	NA	10.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Analyte	Units	ES ¹	PAL ²	4111 Thunder Ridge Rd													
				8/25/14 Outside Spigot	11/17/14 Outside Spigot	2/23/15 Outside Spigot	10/13/15 Outside Spigot	3/30/16 Pressure Tank	10/10/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	10/25/17 (DUP) Outside Spigot	5/21/18 Pressure Tank	6/5/18 Pressure Tank	10/11/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Volatile Organic Compounds (VOCs):																	
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47	< 0.47	< 0.47	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	< 0.69	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65	< 0.65	< 0.65	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.42	< 0.42	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,1-Dichloropropene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83	< 0.83	< 0.83	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29	< 1.29	< 1.29	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14	< 1.14	< 1.14	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	< 1.88	< 1.88	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.34	< 0.34	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.39	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91	< 0.91	< 0.91	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.45	< 0.45	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49	< 0.49	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.42	< 0.42	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.36	< 0.36	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.35	< 0.35	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.31	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.49	< 0.49	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51	< 0.21	< 0.21	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.5	< 0.5	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	0.41 J	< 0.38	< 0.45	< 0.45	< 0.45	< 0.45	0.56 J	0.56 J	0.65 J	0.6 J	1.05 J	0.55 J	0.86 J	0.75 J
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.38	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2	< 0.2	< 0.2	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.47	< 1.47	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.26	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.29	< 0.29	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56	< 1.56	< 1.56	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82	< 0.82	< 0.82	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 2.17	< 2.17	< 2.17	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 0.34	< 0.34	< 0.34	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.19	< 0.19	< 0.19	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61
o-Xylene	ug/l	2000	400	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.9	< 0.39	< 0.39	< 0.39	< 0.29	< 0.29	< 0.29	< 0.29	< 0.29
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 0.28	< 0.28	< 0.28	< 0.24	<			

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4111 Thunder Ridge Rd													
				8/25/14 Outside Spigot	11/17/14 Outside Spigot	2/23/15 Outside Spigot	10/13/15 Outside Spigot	3/30/16 Pressure Tank	10/10/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	10/25/17 (DUP) Outside Spigot	5/21/18 Pressure Tank	6/5/18 Pressure Tank	10/11/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Polycarbonated Biphenyls (PCBs):																	
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																	
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																	
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																	
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																	
Conductivity	uS/cm	NL	NL	809	786	818	827	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	0.97	5.9	4.31	1.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	236	-41.4	-155.3	-120.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	7.65	7.99	7.98	7.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	12.8	8.88	7.83	13.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	4127 Thunder Ridge Rd					3617(3621) Viebahn St					3701 Viebahn St							
				12/5/13 Outside Spigot	5/29/14 Outside Spigot	3/30/16 Outside Spigot	6/27/19 Outside Spigot	10/30/19 Outside Spigot	(Well Abandoned, City Water Provided)					Original Potable Well (City Water Provided Dec 2016)							
									11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/24/15 Pressure Tank	02/24/15 (DUP) Pressure Tank	10/13/15 Pressure Tank	3/30/16 Pressure Tank	10/29/14 Pressure Tank	11/7/14 Pressure Tank	11/07/14 (DUP) Pressure Tank	2/23/15 Pressure Tank	02/23/15 (DUP) Pressure Tank	10/14/15 Pressure Tank	10/14/15 (DUP) Pressure Tank
Polycarbonated Biphenyls (PCBs):																					
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																					
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																					
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																					
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																					
Conductivity	uS/cm	NL	NL	1033	1046	NA	NA	NA	646	590	511	511	663	NA	630	658	658	618	618	624	624
Dissolved Oxygen	ppm	NL	NL	5.21	1.33	NA	NA	NA	3.7	1.93	3.89	3.89	1.67	NA	6.51	4.68	4.68	7.1	7.1	3.3	3.3
ORP	mV	NL	NL	95	132	NA	NA	NA	-29.2	-147.6	-185.7	-185.7	-123.4	NA	-58.3	13.3	13.3	-131.9	-131.9	-90.3	-90.3
pH	SU	NL	NL	8.24	7.32	NA	NA	NA	8.12	7.99	8.32	8.32	7.39	NA	8.38	7.76	7.76	8.04	8.04	7.32	7.32
Temperature	deg C	NL	NL	8.53	11.5	NA	NA	NA	10.44	9.95	9	9	12.06	NA	10.13	9.68	9.68	7.31	7.31	10.57	10.57

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES, PAL, and sampling dates for 3815 Viebahn St and 3817 Viebahn St. Rows include various organic compounds like VOCs, chlorinated hydrocarbons, and pesticides.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3815 Viebahn St					3817 Viebahn St													
				Original Potable Well (City Water Provided Dec 2016)					10/29/14 Outside Spigot	11/7/14 Outside Spigot	2/24/15 Pressure Tank	10/20/15 Outside Spigot	3/31/16 Outside Spigot	10/6/16 Outside Spigot	5/30/17 Outside Spigot	10/25/17 Outside Spigot	5/21/18 Outside Spigot	10/11/18 Outside Spigot	6/27/19 Outside Spigot	10/21/19 Outside Spigot	11/26/19 Outside Spigot	
				11/7/14 Pressure Tank	11/19/14 Pressure Tank	2/23/15 Pressure Tank	10/13/15 Pressure Tank	10/13/15 (DUP) Pressure Tank														
Polycarbonated Biphenyls (PCBs):																						
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																						
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																						
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																						
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																						
Conductivity	uS/cm	NL	NL	644	561	664	645	645	631	658	746	649	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	2.54	5.32	3.51	5.54	5.54	3.22	3.37	2.72	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	21.5	80.3	-113.7	-66.5	-66.5	-95.3	14	-158.6	-42.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	8.01	7.63	7.68	7.43	7.43	7.83	8.31	8.13	8.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	10.05	8.58	7.84	11.71	11.71	10.85	10.42	9.47	13.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3825 Viebahn St								
				10/29/14 Outside Spigot	11/7/14 Outside Spigot	2/23/15 Pressure Tank	02/23/15 (DUP) Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/6/16 Pressure Tank	10/25/17 Pressure Tank	
Volatile Organic Compounds (VOCs):												
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46
1,1-Dichloropropene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.54	< 0.54	< 0.48	< 0.48	< 0.48	< 0.48	< 0.45
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.65	< 0.65	< 0.51	< 0.51	< 0.51	< 0.51	< 0.21
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.38	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.41
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 2.17
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 1	< 1	< 0.34
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.25	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.19
o-Xylene	ug/l	2000	400	< 0.63	< 0.63	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	< 0.39
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 0.31	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.28
sec-Butylbenzene	ug/l	NL	NL	< 0.33	< 0.33	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 0.36	< 0.36	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 0.39
Tetrachloroethene	ug/l	5	0.5	< 0.33	< 0.33	< 0.74	< 0.74	< 0.49	< 0.49	< 0.49	< 0.49	< 0.48
Tetrahydrofuran	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	800	160	< 0.69	< 0.69	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.67
Total Trimethylbenzene	ug/l	NL	NL	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.35	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.35
trans-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42
Trichloroethene	ug/l	5	0.5	< 0.33	< 0.33	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.45
Trichlorofluoromethane	ug/l	3490	698	< 0.71	< 0.71	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.64
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.19
Xylene (Total)	ug/l	2000	400	< 0.69	< 0.69	< 0.9	< 0.9	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3825 Viebahn St							
				10/29/14 Outside Spigot	11/7/14 Outside Spigot	2/23/15 Pressure Tank	02/23/15 (DUP) Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/6/16 Pressure Tank	10/25/17 Pressure Tank
Polycarbonated Biphenyls (PCBs):											
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:											
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:											
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:											
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:											
Conductivity	uS/cm	NL	NL	674	668	670	670	655	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	2.94	6.05	4.32	4.32	1.16	NA	NA	NA
ORP	mV	NL	NL	-104.5	-21.3	-120.7	-120.7	-116.2	NA	NA	NA
pH	SU	NL	NL	7.87	8.21	8.03	8.03	7.67	NA	NA	NA
Temperature	deg C	NL	NL	10.27	9.86	7.43	7.43	12.83	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3825 Viebahn St		4025 Viebahn St				4101 Viebahn St (City Water Provided 2016)				4219 Viebahn St		5107 Viebahn St
				10/10/18 Outside Spigot	10/21/19 Outside Spigot	Original Potable Well (City Water Provided Dec 2016)				Original Potable Well				9/8/14 Outside Spigot	10/27/15 Outside Spigot	12/5/13 Well Pump
						10/29/14 Pressure Tank	11/7/14 Pressure Tank	2/24/15 Pressure Tank	10/13/15 Pressure Tank	10/29/14 Pressure Tank	11/7/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank			
Volatile Organic Compounds (VOCs):																
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.35	< 0.35	< 0.33	< 0.33	< 0.48	< 0.48	< 0.33	< 0.33	< 0.48	< 0.48	< 0.33	< 0.48	< 0.33
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.33	< 0.33	< 0.84	< 0.84	< 0.33	< 0.84	< 0.33
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.3	< 0.3	< 0.45	< 0.45	< 0.52	< 0.52	< 0.45	< 0.45	< 0.52	< 0.52	< 0.45	< 0.52	< 0.45
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.42	< 0.42	< 0.34	< 0.34	< 0.48	< 0.48	< 0.34	< 0.34	< 0.48	< 0.48	< 0.34	< 0.48	< 0.34
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.36	< 0.36	< 0.3	< 0.3	< 1.1	< 1.1	< 0.3	< 0.3	< 1.1	< 1.1	< 0.3	< 1.1	< 0.3
1,1-Dichloropropene	ug/l	7	0.7	< 0.42	< 0.42	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.4	< 0.65	< 0.65	< 0.4	< 0.65	< 0.4
1,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.71	< 1.71	< 1.8	< 1.8	< 2.7	< 2.7	< 1.8	< 1.8	< 2.7	< 2.7	< 1.8	< 2.7	< 1.8
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 1.15	< 1.15	< 0.98	< 0.98	< 1.7	< 1.7	< 0.98	< 0.98	< 1.7	< 1.7	< 0.98	< 1.7	< 0.98
1,2,4-Trimethylbenzene	ug/l	480	96	< 0.8	< 0.8	< 2.2	< 2.2	< 1.6	< 1.6	< 2.2	< 2.2	< 1.6	< 1.6	< 2.2	< 1.6	< 2.2
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 2.96	< 2.96	< 0.88	< 0.88	< 1.4	< 1.4	< 0.88	< 0.88	< 1.4	< 1.4	< 0.88	< 1.4	< 0.88
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.34	< 0.34	< 0.44	< 0.44	< 0.63	< 0.63	< 0.44	< 0.44	< 0.63	< 0.63	< 0.44	< 0.63	< 0.44
1,2-Dichlorobenzene	ug/l	600	60	< 0.86	< 0.86	< 0.36	< 0.36	< 0.46	< 0.46	< 0.36	< 0.36	< 0.46	< 0.46	< 0.36	< 0.46	< 0.36
1,2-Dichloroethane	ug/l	5	0.5	< 0.25	< 0.25	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.41	< 0.54	< 0.48	< 0.41	< 0.48	< 0.41
1,2-Dichloropropane	ug/l	5	0.5	< 0.44	< 0.44	< 0.32	< 0.32	< 0.43	< 0.43	< 0.32	< 0.32	< 0.43	< 0.43	< 0.32	< 0.43	< 0.32
1,3,5-Trimethylbenzene	ug/l	480	96	< 0.63	< 0.63	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.5	< 1.4
1,3-Dichlorobenzene	ug/l	600	120	< 0.85	< 0.85	< 0.28	< 0.28	< 0.52	< 0.52	< 0.28	< 0.28	< 0.52	< 0.52	< 0.28	< 0.52	< 0.28
1,3-Dichloropropane	ug/l	NL	NL	< 0.3	< 0.3	< 0.33	< 0.33	< 0.42	< 0.42	< 0.33	< 0.33	< 0.42	< 0.42	< 0.33	< 0.42	< 0.33
1,4-Dichlorobenzene	ug/l	75	15	< 0.7	< 0.7	< 0.3	< 0.3	< 0.49	< 0.49	< 0.3	< 0.3	< 0.49	< 0.49	< 0.3	< 0.49	< 0.3
2,2-Dichloropropane	ug/l	NL	NL	NA	NA	< 0.36	< 0.36	< 3.1	< 3.1	< 0.36	< 0.36	< 3.1	< 3.1	< 0.36	< 3.1	< 0.36
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.31	< 0.31	< 0.21	< 0.21	< 0.4	< 0.4	< 0.21	< 0.21	< 0.4	< 0.4	< 0.21	< 0.4	< 0.21
4-Chlorotoluene	ug/l	NL	NL	< 0.26	< 0.26	< 0.21	< 0.21	< 0.63	< 0.63	< 0.21	< 0.21	< 0.63	< 0.63	< 0.21	< 0.63	< 0.21
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.22	< 0.22	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.24	< 0.44	< 0.44	< 0.24	< 0.44	< 0.24
Bromobenzene	ug/l	NL	NL	< 0.44	< 0.44	< 0.32	< 0.32	< 0.48	< 0.48	< 0.32	< 0.32	< 0.48	< 0.48	< 0.32	< 0.48	< 0.32
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.33	< 0.33	< 0.37	< 0.37	< 0.46	< 0.46	< 0.37	< 0.37	< 0.46	< 0.46	< 0.37	< 0.46	< 0.37
Bromoform	ug/l	4.4	0.44	< 0.45	< 0.45	< 0.35	< 0.35	< 0.46	< 0.46	< 0.35	< 0.35	< 0.46	< 0.46	< 0.35	< 0.46	< 0.35
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.31	< 0.31	< 0.33	< 0.33	< 0.65	< 0.51	< 0.33	< 0.33	< 0.65	< 0.51	< 0.33	< 0.51	< 0.33
Chlorobenzene	ug/l	100	20	< 0.26	< 0.26	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.24	< 0.46	< 0.46	< 0.24	< 0.46	< 0.24
Chloroethane	ug/l	400	80	< 0.61	< 0.61	< 0.63	< 0.63	< 0.65	< 0.65	< 0.63	< 0.63	< 0.65	< 0.65	< 0.63	< 0.65	< 0.63
Chloroform	ug/l	6	0.6	< 0.26	< 0.26	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.28	< 0.43	< 0.43	< 0.28	< 0.43	< 0.28
Chloromethane	ug/l	30	3	< 0.54	< 0.54	< 0.81	< 0.81	< 1.9	< 1.9	< 0.81	< 0.81	< 1.9	< 1.9	< 0.81	< 1.9	< 0.81
cis-1,2-Dichloroethene	ug/l	70	7	< 0.37	< 0.37	1.38	1.46	1.11	1.85	1.48	1.13	1.24	1.59	< 0.38	< 0.45	< 0.38
cis-1,3-Dichloropropene	ug/l	0.4	0.04	< 0.26	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	< 0.22	< 0.45	< 0.45	< 0.22	< 0.45	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.32	< 0.32	< 0.44	< 0.44	< 0.87	< 0.87	< 0.44	< 0.44	< 0.87	< 0.87	< 0.44	< 0.87	< 0.44
Ethylbenzene	ug/l	700	140	< 0.26	< 0.26	< 0.55	< 0.55	< 0.71	< 0.71	< 0.55	< 0.55	< 0.71	< 0.71	< 0.55	< 0.71	< 0.55
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.34	< 1.34	< 1.5	< 1.5	< 2.2	< 2.2	< 1.5	< 1.5	< 2.2	< 2.2	< 1.5	< 2.2	< 1.5
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.21	< 0.21	< 0.23	< 0.23	< 0.44	< 0.44	< 0.23	< 0.23	< 0.44	< 0.44	< 0.23	< 0.44	< 0.23
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.78	< 0.78	< 0.3	< 0.3	< 0.82	< 0.82	< 0.3	< 0.3	< 0.82	< 0.82	< 0.3	< 0.82	< 0.3
m,p-Xylenes	ug/l	2000	400	< 0.43	< 0.43	< 0.69	< 0.69	< 2.2	< 2.2	< 0.69	< 0.69	< 2.2	< 2.2	< 0.69	< 2.2	< 0.69
Methylene Chloride	ug/l	5	0.5	< 1.32	< 1.32	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 0.5	< 1.3	< 0.5
Methyl-tert-butyl ether	ug/l	60	12	< 0.28	< 0.28	< 0.23	< 0.23	< 1.1	< 1.1	< 0.23	< 0.23	< 1.1	< 1.1	< 0.23	< 1.1	< 0.23
Naphthalene	ug/l	100	10	< 2.1	< 2.1	< 1.7	< 1.7	< 1.6	< 1.6	< 1.7	< 1.7	< 1.6	< 1.6	< 1.7	< 1.6	< 1.7
n-Butylbenzene	ug/l	NL	NL	< 0.71	< 0.71	< 0.35	< 0.35	< 1	< 1	< 0.35	< 0.35	< 1	< 1	< 0.35	< 1	< 0.35
n-Propylbenzene	ug/l	NL	NL	< 0.61	< 0.61	< 0.25	< 0.25	< 0.77	< 0.77	< 0.25	< 0.25	< 0.77	< 0.77	< 0.25	< 0.77	< 0.25
o-Xylene	ug/l	2000	400	< 0.29	< 0.29	< 0.63	< 0.63	< 0.9	< 0.9	< 0.63	< 0.63	< 0.9	< 0.9	< 0.63	< 0.9	< 0.63
p-Isopropyltoluene	ug/l	NL	NL	< 0.24	< 0.24	< 0.31	< 0.31	< 1.1	< 1.1	< 0.31	< 0.31	< 1.1	< 1.1	< 0.31	< 1.1	< 0.31
sec-Butylbenzene	ug/l	NL	NL	< 0.79	< 0.79	< 0.33	< 0.33	< 1.2	< 1.2	< 0.33	< 0.33	< 1.2	< 1.2	< 0.33	< 1.2	< 0.33
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 0.25	< 0.25	< 0.36	< 0.36	< 1.1	< 1.1	< 0.36	< 0.36	< 1.1	< 1.1	< 0.36	< 1.1	< 0.36
Tetrachloroethane	ug/l	5	0.5	< 0.38	< 0.38</											

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3825 Viebahn St		4025 Viebahn St				4101 Viebahn St (City Water Provided 2016)				4219 Viebahn St		5107 Viebahn St
				10/10/18 Outside Spigot	10/21/19 Outside Spigot	Original Potable Well (City Water Provided Dec 2016)				Original Potable Well				9/8/14 Outside Spigot	10/27/15 Outside Spigot	12/5/13 Well Pump
						10/29/14 Pressure Tank	11/7/14 Pressure Tank	2/24/15 Pressure Tank	10/13/15 Pressure Tank	10/29/14 Pressure Tank	11/7/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank			
Polycarbonated Biphenyls (PCBs):																
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																
Conductivity	uS/cm	NL	NL	NA	NA	824	629	628	630	644	627	653	624	779	NA	571
Dissolved Oxygen	ppm	NL	NL	NA	NA	2.45	3.11	4.78	2.38	2.31	3.21	4.05	2.11	3.21	NA	4.23
ORP	mV	NL	NL	NA	NA	-104.9	-2.2	-126.9	-86.3	-91.1	-22.3	-151.7	-114.3	225	NA	84.5
pH	SU	NL	NL	NA	NA	7.87	8.03	7.92	7.35	7.79	7.99	8.04	7.51	7.45	NA	8.1
Temperature	deg C	NL	NL	NA	NA	10.89	10.23	8.86	11.43	11.17	10.87	8.99	12.21	11.75	NA	11.09

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS FORMER TOWN OF NEWTON GRAVEL PIT MANITOWOC, WISCONSIN

Table with columns for Analyte, Units, ES1, PAL2, and sampling dates (2/5/14 to 11/19/18) for two locations: 3027 Orchard Ln and 3128 Orchard Ln. Rows include Volatile Organic Compounds (VOCs) such as 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, etc., along with various other contaminants like Benzene, Chlorobenzene, and Styrene.

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3027 Orchard Ln												3128 Orchard Ln			
				2/5/14 Pressure Tank	6/4/14 Pressure Tank	8/28/14 Pressure Tank	11/11/14 Pressure Tank	3/11/15 Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/31/17 Pressure Tank	5/31/18 Pressure Tank	11/21/18 Pressure Tank	10/22/19 Pressure Tank	2/4/14 Pressure Tank	6/4/14 Pressure Tank	10/14/15 Pressure Tank
Polycarbonated Biphenyls (PCBs):																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:																			
Conductivity	uS/cm	NL	NL	379	136	921	553	NA	548	NA	NA	NA	NA	NA	NA	603	797	843	NA
Dissolved Oxygen	ppm	NL	NL	7.42	2.5	1.22	4.06	NA	2.07	NA	NA	NA	NA	NA	NA	NA	1.97	2.26	NA
ORP	mV	NL	NL	42.4	136	236	-7.3	NA	-100.6	NA	NA	NA	NA	NA	NA	113.2	117	-106.5	NA
pH	SU	NL	NL	7.21	7.25	7.82	8.03	NA	7.88	NA	NA	NA	NA	NA	NA	7.32	7.63	7.61	NA
Temperature	deg C	NL	NL	8.5	10.6	10.7	10.29	NA	12.69	NA	NA	NA	NA	NA	NA	8.75	10.4	12.13	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3318 Orchard Ln		3420 Orchard Ln			3523 Orchard Ln		3524 Orchard Ln		
				7/11/14 Outside Spigot	10/24/16 Outside Spigot	2/4/14 Kitchen Sink	6/2/14 Kitchen Sink	10/6/16 Outside Spigot	2/4/14 Kitchen Sink	5/28/14 Kitchen Sink	2/4/14 Kitchen Sink	6/2/14 Kitchen Sink	06/02/14 (DUP) Kitchen Sink
Volatiles Organic Compounds (VOCs):													
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.48	< 0.33	< 0.33	< 0.48	< 0.33	< 0.33	< 0.33	< 0.33	< 0.48
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.84	< 0.33	< 0.33	< 0.84	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.52	< 0.45	< 0.45	< 0.52	< 0.45	< 0.45	< 0.45	< 0.45	< 0.52
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.48	< 0.34	< 0.34	< 0.48	< 0.34	< 0.34	< 0.34	< 0.34	< 0.48
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 1.1	< 0.3	< 0.3	< 1.1	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1
1,1-Dichloroethene	ug/l	7	0.7	< 0.4	< 0.65	< 0.4	< 0.4	< 0.65	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65
1,1-Dichloropropene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 2.7	< 1.8	< 1.8	< 2.7	< 1.8	< 1.8	< 1.8	< 1.8	< 2.7
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 1.7	< 0.98	< 0.98	< 1.7	< 0.98	< 0.98	< 0.98	< 0.98	< 1.7
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 1.6	< 2.2	< 2.2	< 1.6	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 1.4	< 0.88	< 0.88	< 1.4	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.63	< 0.44	< 0.44	< 0.63	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.46	< 0.36	< 0.36	< 0.46	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.48	< 0.41	< 0.41	< 0.48	< 0.41	< 0.41	< 0.41	< 0.41	< 0.48
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.43	< 0.32	< 0.32	< 0.43	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.5	< 1.4	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.52	< 0.28	< 0.28	< 0.52	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.42	< 0.33	< 0.33	< 0.42	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.49	< 0.3	< 0.3	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 3.1	< 0.36	< 0.36	< 3.1	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.4	< 0.21	< 0.21	< 0.4	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.63	< 0.21	< 0.21	< 0.63	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.24	< 0.44	< 0.24	< 0.24	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.48	< 0.32	< 0.32	< 0.48	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.46	< 0.37	< 0.37	< 0.46	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46
Bromoform	ug/l	4.4	0.44	< 0.35	< 0.46	< 0.35	< 0.35	< 0.46	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.51	< 0.33	< 0.33	< 0.51	< 0.33	< 0.33	< 0.33	< 0.33	< 0.51
Chlorobenzene	ug/l	100	20	< 0.24	< 0.46	< 0.24	< 0.24	< 0.46	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46
Chloroethane	ug/l	400	80	< 0.63	< 0.65	< 0.63	< 0.63	< 0.65	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65
Chloroform	ug/l	6	0.6	< 0.28	< 0.43	< 0.28	< 0.28	< 0.43	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43
Chloromethane	ug/l	30	3	< 0.81	< 1.9	< 0.81	< 0.81	< 1.9	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9
cis-1,2-Dichloroethene	ug/l	70	7	< 0.38	< 0.45	< 0.38	< 0.38	< 0.45	< 0.38	< 0.38	< 0.38	< 0.38	< 0.45
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.45	< 0.22	< 0.22	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.87	< 0.44	< 0.44	< 0.87	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87
Ethylbenzene	ug/l	700	140	< 0.55	< 0.71	< 0.55	< 0.55	< 0.71	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 2.2	< 1.5	< 1.5	< 2.2	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.44	< 0.23	< 0.23	< 0.44	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.82	< 0.3	< 0.3	< 0.82	< 0.3	< 0.3	< 0.3	< 0.3	< 0.82
m,p-Xylenes	ug/l	2000	400	< 0.69	< 2.2	< 0.69	< 0.69	< 2.2	< 0.69	< 0.69	< 0.69	< 0.69	< 2.2
Methylene Chloride	ug/l	5	0.5	< 0.5	< 1.3	< 0.5	< 0.5	< 1.3	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 1.1	< 0.23	< 0.23	< 1.1	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1
Naphthalene	ug/l	100	10	< 1.7	< 1.6	< 1.7	< 1.7	< 1.6	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 1	< 0.35	< 0.35	< 1	< 0.35	< 0.35	< 0.35	< 0.35	< 1
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.77	< 0.25	< 0.25	< 0.77	< 0.25	< 0.25	< 0.25	< 0.25	< 0.77
o-Xylene	ug/l	2000	400	< 0.63	< 0.9	< 0.63	< 0.63	< 0.9	< 0.63	< 0.63	< 0.63	< 0.63	< 0.9
p-Isopropyltoluene	ug/l	NL	NL	< 0.31	< 1.1	< 0.31	< 0.31	< 1.1	< 0.31	< 0.31	< 0.31	< 0.31	< 1.1
sec-Butylbenzene	ug/l	NL	NL	< 0.33	< 1.2	< 0.33	< 0.33	< 1.2	< 0.33	< 0.33	< 0.33	< 0.33	< 1.2
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 0.36	< 1.1	< 0.36	< 0.36	< 1.1	< 0.36	< 0.36	< 0.36	< 0.36	< 1.1
Tetrachloroethene	ug/l	5	0.5	< 0.33	< 0.49	< 0.33	< 0.33	< 0.49	< 0.33	< 0.33	< 0.33	< 0.33	< 0.49
Tetrahydrofuran	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	800	160	< 0.69	< 0.44	< 0.69	< 0.69	< 0.44	< 0.69	< 0.69	< 0.69	< 0.69	< 0.44
Total Trimethylbenzene	ug/l	NL	NL	< 2.2	< 1.6	< 2.2	< 2.2	< 1.6	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6
trans-1,2-Dichloroethene	ug/l	100	20	< 0.35	< 0.54	< 0.35	< 0.35	< 0.54	< 0.35	< 0.35	< 0.35	< 0.35	< 0.54
trans-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	ug/l	5	0.5	< 0.33	< 0.47	< 0.33	< 0.33	< 0.47	< 0.33	< 0.33	< 0.33	< 0.33	< 0.47
Trichlorofluoromethane	ug/l	3490	698	< 0.71	< 0.87	< 0.71	< 0.71	< 0.87	< 0.71	< 0.71	< 0.71	< 0.71	< 0.87
Vinyl chloride	ug/l	0.2	0.02	< 0.18	< 0.17	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17
Xylene (Total)	ug/l	2000	400	< 0.69	< 2.2	< 0.69	< 0.69	< 2.2	NA	< 0.69	< 0.69	< 0.69	< 2.2

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3318 Orchard Ln		3420 Orchard Ln			3523 Orchard Ln		3524 Orchard Ln			
				7/11/14 Outside Spigot	10/24/16 Outside Spigot	2/4/14 Kitchen Sink	6/2/14 Kitchen Sink	10/6/16 Outside Spigot	2/4/14 Kitchen Sink	5/28/14 Kitchen Sink	2/4/14 Kitchen Sink	6/2/14 Kitchen Sink	06/02/14 (DUP) Kitchen Sink	10/13/15 Kitchen Sink
Polycarbonated Biphenyls (PCBs):														
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:														
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:														
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:														
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:														
Conductivity	uS/cm	NL	NL	1033	NA	454	470	NA	NA	671	579	672	672	900
Dissolved Oxygen	ppm	NL	NL	4.11	NA	6.53	1.23	NA	NA	4.99	5.3	1.62	1.62	1.77
ORP	mV	NL	NL	123	NA	123.2	165	NA	NA	111	117.3	159	159	-75.7
pH	SU	NL	NL	7.52	NA	7.1	8.06	NA	NA	7.78	7.03	7.41	7.41	7.34
Temperature	deg C	NL	NL	13.8	NA	7.1	11.8	NA	NA	10.6	9.29	12.1	12.1	12.28

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3911 Black Hawk Ct							
				7/8/15 Spigot	10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/30/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Volatile Organic Compounds (VOCs):											
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.48	< 0.48	< 0.47	< 0.47	< 0.35	< 0.35	< 0.35	< 0.35
1,1,1-Trichloroethane	ug/l	200	40	< 0.84	< 0.84	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.52	< 0.52	< 0.69	< 0.69	< 0.3	< 0.3	< 0.3	< 0.3
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.65	< 0.65	< 0.42	< 0.42	< 0.42	< 0.42
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 1.1	< 1.1	< 0.42	< 0.42	< 0.36	< 0.36	< 0.36	< 0.36
1,1-Dichloropropene	ug/l	7	0.7	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42
1,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 2.7	< 2.7	< 0.83	< 0.83	< 1.71	< 1.71	< 1.71	< 1.71
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	ug/l	70	14	< 1.7	< 1.7	< 1.29	< 1.29	< 1.15	< 1.15	< 1.15	< 1.15
1,2,4-Trimethylbenzene	ug/l	480	96	< 1.6	< 1.6	< 1.14	< 1.14	< 0.8	< 0.8	< 0.8	< 0.8
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 1.4	< 1.4	< 1.88	< 1.88	< 2.96	< 2.96	< 2.96	< 2.96
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
1,2-Dichlorobenzene	ug/l	600	60	< 0.46	< 0.46	< 0.34	< 0.34	< 0.86	< 0.86	< 0.86	< 0.86
1,2-Dichloroethane	ug/l	5	0.5	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichloropropane	ug/l	5	0.5	< 0.43	< 0.43	< 0.39	< 0.39	< 0.44	< 0.44	< 0.44	< 0.44
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.5	< 1.5	< 0.91	< 0.91	< 0.63	< 0.63	< 0.63	< 0.63
1,3-Dichlorobenzene	ug/l	600	120	< 0.52	< 0.52	< 0.45	< 0.45	< 0.85	< 0.85	< 0.85	< 0.85
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.42	< 0.49	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3
1,4-Dichlorobenzene	ug/l	75	15	< 0.49	< 0.49	< 0.42	< 0.42	< 0.7	< 0.7	< 0.7	< 0.7
2,2-Dichloropropane	ug/l	NL	NL	< 3.1	< 3.1	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.4	< 0.4	< 0.36	< 0.36	< 0.31	< 0.31	< 0.31	< 0.31
4-Chlorotoluene	ug/l	NL	NL	< 0.63	< 0.63	< 0.35	< 0.35	< 0.26	< 0.26	< 0.26	< 0.26
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22
Bromobenzene	ug/l	NL	NL	< 0.48	< 0.48	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	ug/l	0.6	0.06	< 0.46	< 0.46	< 0.31	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33
Bromoform	ug/l	4.4	0.44	< 0.46	< 0.46	< 0.49	< 0.49	< 0.45	< 0.45	< 0.45	< 0.45
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.51	< 0.51	< 0.21	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31
Chlorobenzene	ug/l	100	20	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26
Chloroethane	ug/l	400	80	< 0.65	< 0.65	< 0.5	< 0.5	< 0.61	< 0.61	< 0.61	< 0.61
Chloroform	ug/l	6	0.6	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26
Chloromethane	ug/l	30	3	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54
cis-1,2-Dichloroethene	ug/l	70	7	< 0.45	0.59 J	< 0.41	< 0.41	0.58 J	0.58 J	0.5 J	0.61 J
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	< 0.21	< 0.21	< 0.26	< 0.26	< 0.26	< 0.26
Dibromochloromethane	ug/l	60	6	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	ug/l	1000	200	< 0.87	< 0.87	< 0.38	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32
Ethylbenzene	ug/l	700	140	< 0.71	< 0.71	< 0.2	< 0.2	< 0.26	< 0.26	< 0.26	< 0.26
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 2.2	< 2.2	< 1.47	< 1.47	< 1.34	< 1.34	< 1.34	< 1.34
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.44	< 0.44	< 0.26	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.82	< 0.82	< 0.29	< 0.29	< 0.78	< 0.78	< 0.78	< 0.78
m,p-Xylenes	ug/l	2000	400	< 2.2	< 2.2	< 1.56	< 1.56	< 0.43	< 0.43	< 0.43	< 0.43
Methylene Chloride	ug/l	5	0.5	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32
Methyl-tert-butyl ether	ug/l	60	12	< 1.1	< 1.1	< 0.82	< 0.82	< 0.28	< 0.28	< 0.28	< 0.28
Naphthalene	ug/l	100	10	< 1.6	< 1.6	< 2.17	< 2.17	< 2.1	< 2.1	< 2.1	< 2.1
n-Butylbenzene	ug/l	NL	NL	< 1	< 1	< 0.34	< 0.34	< 0.71	< 0.71	< 0.71	< 0.71
n-Propylbenzene	ug/l	NL	NL	< 0.77	< 0.77	< 0.19	< 0.19	< 0.61	< 0.61	< 0.61	< 0.61
o-Xylene	ug/l	2000	400	< 0.9	< 0.9	< 0.39	< 0.39	< 0.29	< 0.29	< 0.29	< 0.29
p-Isopropyltoluene	ug/l	NL	NL	< 1.1	< 1.1	< 0.28	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24
sec-Butylbenzene	ug/l	NL	NL	< 1.2	< 1.2	< 0.24	< 0.24	< 0.79	< 0.79	< 0.79	< 0.79
Styrene	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	ug/l	NL	NL	< 1.1	< 1.1	< 0.39	< 0.39	< 0.25	< 0.25	< 0.25	< 0.25
Tetrachloroethene	ug/l	5	0.5	< 0.49	< 0.49	< 0.48	< 0.48	< 0.38	< 0.38	< 0.38	< 0.38
Tetrahydrofuran	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	ug/l	800	160	< 0.44	< 0.44	< 0.67	< 0.67	< 0.19	< 0.19	< 0.19	< 0.19
Total Trimethylbenzene	ug/l	NL	NL	< 1.6	< 1.6	< 1.14	< 1.14	NA	< 0.8	NA	NA
trans-1,2-Dichloroethene	ug/l	100	20	< 0.54	< 0.54	< 0.35	< 0.35	< 0.34	< 0.34	< 0.34	< 0.34
trans-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	< 0.42	< 0.42	< 0.32	< 0.32	< 0.32	< 0.32
Trichloroethene	ug/l	5	0.5	< 0.47	< 0.47	< 0.45	< 0.45	< 0.3	< 0.3	< 0.3	< 0.3
Trichlorofluoromethane	ug/l	3490	698	< 0.87	< 0.87	< 0.64	< 0.64	< 0.35	< 0.35	< 0.35	< 0.35
Vinyl chloride	ug/l	0.2	0.02	< 0.17	< 0.17	< 0.19	< 0.19	< 0.2	< 0.2	< 0.2	< 0.2
Xylene (Total)	ug/l	2000	400	< 2.2	< 2.2	< 1.56	< 1.56	NA	< 0.43	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3911 Black Hawk Ct							
				7/8/15 Spigot	10/6/16 Pressure Tank	5/31/17 Pressure Tank	10/30/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	6/27/19 Pressure Tank	10/21/19 Pressure Tank
Polycarbonated Biphenyls (PCBs):											
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:											
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:											
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:											
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Field Screening Measurements:											
Conductivity	uS/cm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3921 Black Hawk Ct															
				2/4/14 Pressure Tank	6/2/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/5/16 Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank	6/27/19 Pressure Tank	10/22/19 Pressure Tank	
Volatile Organic Compounds (VOCs):																			
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.33	< 0.33	< 0.33	< 0.33	< 0.48	< 0.48	< 0.48	< 0.48	< 0.47	< 0.47	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	
1,1,1-Trichloroethane	ug/l	200	40	< 0.33	< 0.33	< 0.33	< 0.33	< 0.84	< 0.84	< 0.84	< 0.84	< 0.35	< 0.35	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.45	< 0.45	< 0.45	< 0.45	< 0.52	< 0.52	< 0.52	< 0.52	< 0.69	< 0.69	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.34	< 0.34	< 0.34	< 0.34	< 0.48	< 0.48	< 0.48	< 0.48	< 0.65	< 0.65	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 0.3	< 0.3	< 1.1	< 1.1	< 1.1	< 1.1	< 0.42	< 0.42	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	
1,1-Dichloropropene	ug/l	7	0.7	< 0.4	< 0.4	< 0.4	< 0.4	< 0.65	< 0.65	< 0.65	< 0.65	< 0.46	< 0.46	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	
1,2-Dichloropropane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 1.8	< 1.8	< 1.8	< 1.8	< 2.7	< 2.7	< 2.7	< 2.7	< 0.83	< 0.83	< 1.71	< 1.71	< 1.71	< 1.71	< 1.71	
1,2,3-Trichloropropane	ug/l	60	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.98	< 0.98	< 0.98	< 0.98	< 1.7	< 1.7	< 1.7	< 1.7	< 1.29	< 1.29	< 1.15	< 1.15	< 1.15	< 1.15	< 1.15	
1,2,4-Trimethylbenzene	ug/l	480	96	< 2.2	< 2.2	< 2.2	< 2.2	< 1.6	< 1.6	< 1.6	< 1.6	< 1.14	< 1.14	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 0.88	< 0.88	< 0.88	< 0.88	< 1.4	< 1.4	< 1.4	< 1.4	< 1.88	< 1.88	< 2.96	< 2.96	< 2.96	< 2.96	< 2.96	
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.44	< 0.44	< 0.44	< 0.44	< 0.63	< 0.63	< 0.63	< 0.63	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	
1,2-Dichlorobenzene	ug/l	600	60	< 0.36	< 0.36	< 0.36	< 0.36	< 0.46	< 0.46	< 0.46	< 0.46	< 0.34	< 0.34	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	
1,2-Dichloroethane	ug/l	5	0.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.54	< 0.48	< 0.48	< 0.48	< 0.45	< 0.45	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	
1,2-Dichloropropane	ug/l	5	0.5	< 0.32	< 0.32	< 0.32	< 0.32	< 0.43	< 0.43	< 0.43	< 0.43	< 0.39	< 0.39	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
1,3,5-Trimethylbenzene	ug/l	480	96	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5	< 1.5	< 1.5	< 0.91	< 0.91	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	
1,3-Dichlorobenzene	ug/l	600	120	< 0.28	< 0.28	< 0.28	< 0.28	< 0.52	< 0.52	< 0.52	< 0.52	< 0.45	< 0.45	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	
1,3-Dichloropropane	ug/l	NL	NL	< 0.33	< 0.33	< 0.33	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.49	< 0.49	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
1,4-Dichlorobenzene	ug/l	75	15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	< 0.42	< 0.42	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	
2,2-Dichloropropane	ug/l	NL	NL	< 0.36	< 0.36	< 0.36	< 0.36	< 3.1	< 3.1	< 3.1	< 3.1	NA	NA	NA	NA	NA	NA	NA	
2-Butanone (MEK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.4	< 0.4	< 0.4	< 0.4	< 0.36	< 0.36	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	
4-Chlorotoluene	ug/l	NL	NL	< 0.21	< 0.21	< 0.21	< 0.21	< 0.63	< 0.63	< 0.63	< 0.63	< 0.35	< 0.35	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acetone	ug/l	9000	1800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzene	ug/l	5	0.5	< 0.24	< 0.24	< 0.24	< 0.24	< 0.44	< 0.44	< 0.44	< 0.44	< 0.17	< 0.17	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	
Bromobenzene	ug/l	NL	NL	< 0.32	< 0.32	< 0.32	< 0.32	< 0.48	< 0.48	< 0.48	< 0.48	< 0.43	< 0.43	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	
Bromochloromethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	ug/l	0.6	0.06	< 0.37	< 0.37	< 0.37	< 0.37	< 0.46	< 0.46	< 0.46	< 0.46	< 0.31	< 0.31	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	
Bromoforn	ug/l	4.4	0.44	< 0.35	< 0.35	< 0.35	< 0.35	< 0.46	< 0.46	< 0.46	< 0.46	< 0.49	< 0.49	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	
Bromomethane	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon disulfide	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Carbon tetrachloride	ug/l	5	0.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.65	< 0.51	< 0.51	< 0.51	< 0.21	< 0.21	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	
Chlorobenzene	ug/l	100	20	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.46	< 0.46	< 0.46	< 0.27	< 0.27	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	
Chloroethane	ug/l	400	80	< 0.63	< 0.63	< 0.63	< 0.63	< 0.65	< 0.65	< 0.65	< 0.65	< 0.5	< 0.5	< 0.61	< 0.61	< 0.61	< 0.61	< 0.61	
Chloroform	ug/l	6	0.6	< 0.28	< 0.28	< 0.28	< 0.28	< 0.43	< 0.43	< 0.43	< 0.43	< 0.96	< 0.96	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	
Chloromethane	ug/l	30	3	< 0.81	< 0.81	< 0.81	< 0.81	< 1.9	< 1.9	< 1.9	< 1.9	< 1.3	< 1.3	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	
cis-1,2-Dichloroethene	ug/l	70	7	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	0.51 J	0.95 J	0.9 J	0.79 J	0.79 J	0.92 J	
cis-1,3-Dichloropropene	ug/l	0.4	0.04	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	
Dibromochloromethane	ug/l	60	6	< 0.22	< 0.22	< 0.22	< 0.22	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	
Dibromomethane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	ug/l	1000	200	< 0.44	< 0.44	< 0.44	< 0.44	< 0.87	< 0.87	< 0.87	< 0.87	< 0.38	< 0.38	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	
Ethylbenzene	ug/l	700	140	< 0.55	< 0.55	< 0.55	< 0.55	< 0.71	< 0.71	< 0.71	< 0.71	< 0.2	< 0.2	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 1.5	< 1.5	< 1.5	< 1.5	< 2.2	< 2.2	< 2.2	< 2.2	< 1.47	< 1.47	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	
Hexane	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Isopropyl ether	ug/l	NL	NL	< 0.23	< 0.23	< 0.23	< 0.23	< 0.44	< 0.44	< 0.44	< 0.44	< 0.26	< 0.26	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.3	< 0.3	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	< 0.29	< 0.29	< 0.78	< 0.78	< 0.78	< 0.78	< 0.78	
m,p-Xylenes	ug/l	2000	400	< 0.69	< 0.69	< 0.69	< 0.69	< 2.2	< 2.2	< 2.2	< 2.2	< 1.56	< 1.56	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.94	< 0.94	< 1.32	< 1.32	< 1.32	< 1.32	< 1.32	
Methyl-tert-butyl ether	ug/l	60	12	< 0.23	< 0.23	< 0.23	< 0.23	< 1.1	< 1.1	< 1.1	< 1.1	< 0.82	< 0.82	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	
Naphthalene	ug/l	100	10	< 1.7	< 1.7	< 1.7	< 1.7	< 1.6	< 1.6	< 1.6	< 1.6	< 2.17	< 2.17	< 2.1	< 2.1	< 2.1	< 2.1	< 2.1	
n-Butylbenzene	ug/l	NL	NL	< 0.35	< 0.35	< 0.35	< 0.35	< 1	< 1	< 1	< 1	< 0.34	< 0.34	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	
n-Propylbenzene	ug/l	NL	NL	< 0.25	< 0.25														

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	3921 Black Hawk Ct															
				2/4/14 Pressure Tank	6/2/14 Pressure Tank	8/26/14 Pressure Tank	11/10/14 Pressure Tank	2/24/15 Pressure Tank	10/14/15 Pressure Tank	3/31/16 Pressure Tank	10/5/16 Pressure Tank	5/30/17 Pressure Tank	10/25/17 Pressure Tank	5/21/18 Pressure Tank	10/10/18 Pressure Tank	10/10/18 (DUP) Pressure Tank	6/27/19 Pressure Tank	10/22/19 Pressure Tank	
Polycarbonated Biphenyls (PCBs):																			
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals:																			
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals:																			
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids:																			
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Field Screening Measurements:																			
Conductivity	uS/cm	NL	NL	468	636	762	754	810	742	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Oxygen	ppm	NL	NL	NA	2.83	1.34	5.53	7.64	2.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ORP	mV	NL	NL	100.3	148	206	-27.2	-160.9	-124.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH	SU	NL	NL	7.21	7.61	7.45	7.95	7.99	7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Temperature	deg C	NL	NL	10.06	12.7	14.3	11.85	8.8	13.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2915 S 26TH St		2918 S 26TH St						3008 S 26TH St				3203 S 26TH St	3107 Fricke Dr	3609 M&M Ln		
				12/14/2017 ⁽³⁾ Sample Tap	Original Potable Well			Replacement Potable Well			11/8/2017 ⁽³⁾ Spigot W Side	12/14/2017 ⁽³⁾ Basement Tap	06/27/19 ⁽³⁾ Basement Tap	10/22/19 Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/5/13 Well Pump	12/4/2013 ⁽³⁾ Pressure Tank	12/16/13 Pressure Tank		
					8/15/2017 ⁽⁴⁾ Exterior Spigot	9/5/17 Pressure Tank	09/05/17 (DUP) Pressure Tank	12/11/17 Pressure Tank	12/11/17 (DUP) Pressure Tank	03/05/18 Pressure Tank									03/05/18 Pressure Tank	06/27/19 Pressure Tank
Volatile Organic Compounds (VOCs):																				
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.5	< 0.5	< 0.47	< 0.47	< 0.47	< 0.47	NA	< 0.35	< 0.35	< 0.5	< 0.5	< 0.35	< 0.35	< 0.5	< 0.33	< 0.15	< 0.15
1,1,1-Trichloroethane	ug/l	200	40	< 0.5	< 0.5	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.33	< 0.33	< 0.5	< 0.5	< 0.33	< 0.33	< 0.5	< 0.33	< 0.15	< 0.15
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.5	< 0.5	< 0.69	< 0.69	< 0.69	< 0.69	NA	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3	< 0.5	< 0.45	< 0.2	< 0.2
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.5	< 0.5	< 0.65	< 0.65	< 0.65	< 0.65	NA	< 0.42	< 0.42	< 0.5	< 0.5	< 0.42	< 0.42	< 0.5	< 0.34	< 0.15	< 0.15
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	NA	NA	NA
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 0.42	< 0.42	< 0.42	< 0.42	NA	< 0.36	< 0.36	< 0.3	< 0.3	< 0.36	< 0.36	< 0.3	< 0.3	< 0.15	< 0.15
1,1-Dichloroethene	ug/l	7	0.7	< 0.5	< 0.5	< 0.46	< 0.46	< 0.46	< 0.46	NA	< 0.42	< 0.42	< 0.5	< 0.5	< 0.42	< 0.42	< 0.5	< 0.4	< 0.15	< 0.15
1,1-Dichloropropene	ug/l	NL	NL	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	NA	< 0.15	< 0.15
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 0.5	< 0.5	< 0.83	< 0.83	< 0.83	< 0.83	NA	< 1.71	< 1.71	< 0.5	< 0.5	< 1.71	< 1.71	< 0.5	< 1.8	< 0.15	< 0.15
1,2,3-Trichloropropane	ug/l	60	12	< 1	< 1	NA	NA	NA	NA	NA	NA	NA	< 1	< 1	NA	NA	< 1	NA	< 0.15	< 0.15
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.5	< 0.5	< 1.29	< 1.29	< 1.29	< 1.29	NA	< 1.15	< 1.15	< 0.5	< 0.5	< 1.15	< 1.15	< 0.5	< 0.98	< 0.15	< 0.15
1,2,4-Trimethylbenzene	ug/l	480	96	< 0.2	< 0.2	< 1.14	< 1.14	< 1.14	< 1.14	NA	< 0.8	< 0.8	< 0.2	< 0.2	< 0.8	< 0.8	< 0.2	< 2.2	< 0.15	< 0.15
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 1	< 1	< 1.88	< 1.88	< 1.88	< 1.88	NA	< 2.96	< 2.96	< 1	< 1	< 2.96	< 2.96	< 1	< 0.88	< 0.2	< 0.2
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.5	< 0.5	< 0.34	< 0.34	< 0.34	< 0.34	NA	< 0.34	< 0.34	< 0.5	< 0.5	< 0.34	< 0.34	< 0.5	< 0.44	< 0.15	< 0.15
1,2-Dichlorobenzene	ug/l	600	60	< 0.25	< 0.25	< 0.34	< 0.34	< 0.34	< 0.34	NA	< 0.86	< 0.86	< 0.25	< 0.25	< 0.86	< 0.86	< 0.25	< 0.36	< 0.15	< 0.15
1,2-Dichloroethane	ug/l	5	0.5	< 0.5	< 0.5	< 0.45	< 0.45	< 0.45	< 0.45	NA	< 0.25	< 0.25	< 0.5	< 0.5	< 0.25	< 0.25	< 0.5	< 0.41	< 0.15	< 0.15
1,2-Dichloropropane	ug/l	5	0.5	< 0.5	< 0.5	< 0.39	< 0.39	< 0.39	< 0.39	NA	< 0.44	< 0.44	< 0.5	< 0.5	< 0.44	< 0.44	< 0.5	< 0.32	< 0.15	< 0.15
1,3,5-Trimethylbenzene	ug/l	480	96	< 0.2	< 0.2	< 0.91	< 0.91	< 0.91	< 0.91	NA	< 0.63	< 0.63	< 0.2	< 0.2	< 0.63	< 0.63	< 0.2	< 1.4	< 0.15	< 0.15
1,3-Dichlorobenzene	ug/l	600	120	< 0.25	< 0.25	< 0.45	< 0.45	< 0.45	< 0.45	NA	< 0.85	< 0.85	< 0.25	< 0.25	< 0.85	< 0.85	< 0.25	< 0.28	< 0.15	< 0.15
1,3-Dichloropropane	ug/l	NL	NL	< 0.3	< 0.3	< 0.49	< 0.49	< 0.49	< 0.49	NA	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.33	< 0.15	< 0.15
1,4-Dichlorobenzene	ug/l	75	15	< 0.25	< 0.25	< 0.42	< 0.42	< 0.42	< 0.42	NA	< 0.7	< 0.7	< 0.25	< 0.25	< 0.7	< 0.7	< 0.25	< 0.3	< 0.15	< 0.15
2,2-Dichloropropane	ug/l	NL	NL	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	< 0.36	< 0.15	< 0.15
2-Butanone (MEK)	ug/l	NL	NL	< 3	< 3	NA	NA	NA	NA	NA	NA	NA	< 3	< 3	NA	NA	< 3	NA	NA	NA
2-Chlorotoluene	ug/l	NL	NL	< 0.3	< 0.3	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.31	< 0.31	< 0.3	< 0.3	< 0.31	< 0.31	< 0.3	< 0.21	< 0.15	< 0.15
4-Chlorotoluene	ug/l	NL	NL	< 0.3	< 0.3	< 0.35	< 0.35	< 0.35	< 0.35	NA	< 0.26	< 0.26	< 0.3	< 0.3	< 0.26	< 0.26	< 0.3	< 0.21	< 0.15	< 0.15
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	< 2	< 2	NA	NA	NA	NA	NA	NA	NA	< 2	< 2	NA	NA	< 2	NA	NA	NA
Acetone	ug/l	9000	1800	< 3	< 3	NA	NA	NA	NA	NA	NA	NA	< 3	< 3	NA	NA	< 3	NA	NA	NA
Benzene	ug/l	5	0.5	< 0.3	< 0.3	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.22	< 0.22	< 0.3	< 0.3	< 0.22	< 0.22	< 0.3	< 0.24	< 0.15	< 0.15
Bromobenzene	ug/l	NL	NL	< 0.5	< 0.5	< 0.43	< 0.43	< 0.43	< 0.43	NA	< 0.44	< 0.44	< 0.5	< 0.5	< 0.44	< 0.44	< 0.5	< 0.32	< 0.15	< 0.15
Bromochloromethane	ug/l	NL	NL	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	NA	< 0.15	< 0.15
Bromodichloromethane	ug/l	0.6	0.06	< 0.5	< 0.5	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.33	< 0.33	< 0.5	< 0.5	< 0.33	< 0.33	< 0.5	< 0.37	< 0.15	< 0.15
Bromoform	ug/l	4.4	0.44	< 1	< 1	< 0.49	< 0.49	< 0.49	< 0.49	NA	< 0.45	< 0.45	< 1	< 1	< 0.45	< 0.45	< 1	< 0.35	< 0.15	< 0.15
Bromomethane	ug/l	10	1	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	NA	NA	NA
Carbon disulfide	ug/l	1000	200	< 0.3	< 0.3	NA	NA	NA	NA	NA	NA	NA	< 0.3	< 0.3	NA	NA	< 0.3	NA	NA	NA
Carbon tetrachloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.31	< 0.31	< 0.5	< 0.5	< 0.31	< 0.31	< 0.5	< 0.33	< 0.15	< 0.15
Chlorobenzene	ug/l	100	20	< 0.25	< 0.25	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.24	< 0.15	< 0.15
Chloroethane	ug/l	400	80	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NA	< 0.61	< 0.61	< 0.5	< 0.5	< 0.61	< 0.61	< 0.5	< 0.63	< 0.15	< 0.15
Chloroform	ug/l	6	0.6	< 0.25	< 0.25	< 0.96	< 0.96	< 0.96	< 0.96	NA	< 0.26	< 0.26	< 0.25	< 0.25	< 0.26	< 0.26	< 0.25	< 0.28	< 0.15	< 0.15
Chloromethane	ug/l	30	3	< 1	< 1	< 1.3	< 1.3	< 1.3	< 1.3	NA	< 0.54	< 0.54	< 1	< 1	< 0.54	< 0.54	< 1	< 0.81	< 0.15	< 0.15
cis-1,2-Dichloroethene	ug/l	70	7	< 0.3	1.1	0.85 J	0.75 J	< 0.41	< 0.41	NA	< 0.37	< 0.37	1	0.85	0.77 J	0.9 J	< 0.3	< 0.38	< 0.15	< 0.15
cis-1,3-Dichloropropene	ug/l	0.4	0.04	< 0.3	< 0.3	< 0.21	< 0.21	< 0.21	< 0.21	NA	< 0.26	< 0.26	< 0.3	< 0.3	< 0.26	< 0.26	< 0.3	NA	< 0.15	< 0.15
Dibromochloromethane	ug/l	60	6	< 0.5	< 0.5	< 0.45	< 0.45	< 0.45	< 0.45	NA	< 0.22	< 0.22	< 0.5	< 0.5	< 0.22	< 0.22	< 0.5	< 0.22	< 0.15	< 0.15
Dibromomethane	ug/l	NL	NL	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	NA	< 0.15	< 0.15
Dichlorodifluoromethane	ug/l	1000	200	< 0.5	< 0.5	< 0.38	< 0.38	< 0.38	< 0.38	NA	< 0.32	< 0.32	< 0.5	< 0.5	< 0.32	< 0.32	< 0.5	< 0.44	< 0.2	< 0.2
Ethylbenzene	ug/l	700	140	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.26	< 0.26	< 0.2	< 0.2	< 0.26	< 0.26	< 0.2	< 0.55	< 0.15	< 0.15
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 0.5	< 0.5	< 1.47	< 1.47	< 1.47	< 1.47	NA	< 1.34	< 1.34	< 0.5	< 0.5	< 1.34	< 1.34	< 0.5	< 1.5	< 0.15	< 0.15
Hexane	ug/l	NL	NL	< 0.5	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	< 0.5	NA	NA	NA
Isopropyl ether	ug/l	NL	NL	< 0.25	< 0.25	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.21	< 0.21	< 0.25	< 0.25	< 0.21	< 0.21	< 0.25	< 0.23	< 0.15	< 0.15
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.2	< 0.2	< 0.29	< 0.29	< 0.29	< 0.29	NA	< 0.78	< 0.78	< 0.2	< 0.2	< 0.78	< 0.78	< 0.2	< 0.3	< 0.15	< 0.15
m,p-Xylenes	ug/l	2000	400	< 0.4	< 0.4	< 1.56	< 1.56	< 1.56	< 1.56	NA	< 0.43	< 0.43	< 0.4	< 0.4	< 0.43	< 0.43	< 0.4	< 0.69	< 0.15	< 0.15
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.5	< 0.94	< 0.94	< 0.94	< 0.94	NA	< 1.32	< 1.32	< 0.5	< 0.5	< 1.32	< 1.32	< 0.5	< 0.5	< 0.15	< 0.15
Methyl-tert-butyl ether	ug/l	60	12	< 0.3	< 0.3	< 0.82	< 0.82	< 0.82	< 0.82	NA	< 0.28	< 0.28	< 0.3	< 0.3	< 0.28	< 0.28	< 0.3	< 0.23	< 0.15	< 0.15
Naphthalene	ug/l	100	10	< 0.3	< 0.3	< 2.17	< 2.17	< 2.17	< 2.17	NA	<									

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2915 S 26TH St	2918 S 26TH St						3008 S 26TH St				3203 S 26TH St	3107 Fricke Dr	3609 M&M Ln			
				12/14/2017 ⁽³⁾ Sample Tap	Original Potable Well			Replacement Potable Well			11/8/2017 ⁽³⁾ Spigot W Side	12/14/2017 ⁽³⁾ Basement Tap	06/27/19 ⁽³⁾ Basement Tap	10/22/19 Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/5/13 Well Pump	12/4/2013 ⁽³⁾ Pressure Tank	12/16/13 Pressure Tank		
					8/15/2017 ⁽⁴⁾ Exterior Spigot	9/5/17 Pressure Tank	09/05/17 (DUP) Pressure Tank	12/11/17 Pressure Tank	12/11/17 (DUP) Pressure Tank	03/05/18 Pressure Tank									03/05/18 Pressure Tank	06/27/19 Pressure Tank
Polycarbonated Biphenyls (PCBs):																				
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Metals:																				
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	< 8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	544	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	< 2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	NA	NA	1898	NA	1853	NA	NA	NA	459	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	14.5	NA	2.17	NA	NA	NA	1.4	NA	NA	NA	NA	NA	
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	< 5.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	119	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	19.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	12.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	< 7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	4.94	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	3110	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	< 8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	123	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	30600	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	9.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	8.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dissolved Metals:																				
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Dissolved Solids:																				
Total Dissolved Solids	mg/L	NL	NL	NA	NA	NA	NA	3007	NA	2980	NA	NA	NA	712	NA	NA	NA	NA	NA	
Field Screening Measurements:																				
Conductivity	uS/cm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	561	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.32	NA	NA
ORP	mV	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80.3	NA	NA
pH	SU	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.63	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.58	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2201 Elm Road				2408 Elm Road	2417 Elm Road	2514 Elm Road	2501 Nelson Lane
				12/19/2017 ⁽³⁾ Basement Tap	2/14/2018 ⁽³⁾ Basement Tap	06/27/19 ⁽³⁾ Basement Tap	10/22/19 Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/19/2017 ⁽³⁾ Basement Tap
Volatile Organic Compounds (VOCs):											
1,1,1,2-Tetrachloroethane	ug/l	70	7	< 0.5	< 0.37	< 0.35	< 0.35	< 0.5	< 0.5	< 0.5	< 0.5
1,1,1-Trichloroethane	ug/l	200	40	< 0.5	< 0.2	< 0.33	< 0.33	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	ug/l	0.2	0.02	< 0.5	< 0.36	< 0.3	< 0.3	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	ug/l	5	0.5	< 0.5	< 0.48	< 0.42	< 0.42	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichlorotrifluoroethane	ug/l	NL	NL	< 0.5	< 0.72	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethane	ug/l	850	85	< 0.3	< 0.3	< 0.36	< 0.36	< 0.3	< 0.3	< 0.3	< 0.3
1,1-Dichloropropene	ug/l	7	0.7	< 0.5	< 0.22	< 0.42	< 0.42	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	ug/l	NL	NL	< 0.5	< 0.19	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-Trichlorobenzene	ug/l	NL	NL	< 0.5	< 0.33	< 1.71	< 1.71	< 0.5	< 0.5	< 0.5	< 0.5
1,2,3-Trichloropropane	ug/l	60	12	< 1	< 0.36	NA	NA	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	ug/l	70	14	< 0.5	< 0.47	< 1.15	< 1.15	< 0.5	< 0.5	< 0.5	< 0.5
1,2,4-Trimethylbenzene	ug/l	480	96	< 0.2	< 0.2	< 0.8	< 0.8	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dibromo-3-chloropropane	ug/l	0.2	0.02	< 1	< 0.4	< 2.96	< 2.96	< 1	< 1	< 1	< 1
1,2-Dibromoethane (EDB)	ug/l	0.05	0.005	< 0.5	< 0.39	< 0.34	< 0.34	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	ug/l	600	60	< 0.25	< 0.12	< 0.86	< 0.86	< 0.25	< 0.25	< 0.25	< 0.25
1,2-Dichloroethane	ug/l	5	0.5	< 0.5	< 0.16	< 0.25	< 0.25	< 0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	ug/l	5	0.5	< 0.5	< 0.3	< 0.44	< 0.44	< 0.5	< 0.5	< 0.5	< 0.5
1,3,5-Trimethylbenzene	ug/l	480	96	< 0.2	< 0.26	< 0.63	< 0.63	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	ug/l	600	120	< 0.25	< 0.11	< 0.85	< 0.85	< 0.25	< 0.25	< 0.25	< 0.25
1,3-Dichloropropane	ug/l	NL	NL	< 0.3	< 0.29	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
1,4-Dichlorobenzene	ug/l	75	15	< 0.25	< 0.11	< 0.7	< 0.7	< 0.25	< 0.25	< 0.25	< 0.25
2,2-Dichloropropane	ug/l	NL	NL	< 0.5	< 1	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
2-Butanone (MEK)	ug/l	NL	NL	< 3	< 2	NA	NA	< 3	< 3	< 3	< 3
2-Chlorotoluene	ug/l	NL	NL	< 0.3	< 0.29	< 0.31	< 0.31	< 0.3	< 0.3	< 0.3	< 0.3
4-Chlorotoluene	ug/l	NL	NL	< 0.3	< 0.32	< 0.26	< 0.26	< 0.3	< 0.3	< 0.3	< 0.3
4-Methyl-2-pentanone (MIBK)	ug/l	NL	NL	< 2	< 1.3	NA	NA	< 2	< 2	< 2	< 2
Acetone	ug/l	9000	1800	< 3	< 2	NA	NA	< 3	< 3	< 3	< 3
Benzene	ug/l	5	0.5	< 0.3	< 0.1	< 0.22	< 0.22	< 0.3	< 0.3	< 0.3	< 0.3
Bromobenzene	ug/l	NL	NL	< 0.5	< 0.29	< 0.44	< 0.44	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	ug/l	NL	NL	< 0.5	< 0.3	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	ug/l	0.6	0.06	< 0.5	< 0.17	< 0.33	< 0.33	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	ug/l	4.4	0.44	< 1	< 1	< 0.45	< 0.45	< 1	< 1	< 1	< 1
Bromomethane	ug/l	10	1	< 0.5	< 0.31	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
Carbon disulfide	ug/l	1000	200	< 0.3	< 1	NA	NA	< 0.3	< 0.3	< 0.69	< 0.3
Carbon tetrachloride	ug/l	5	0.5	< 0.5	< 0.21	< 0.31	< 0.31	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	ug/l	100	20	< 0.25	< 0.27	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.25
Chloroethane	ug/l	400	80	< 0.5	< 0.3	< 0.61	< 0.61	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	ug/l	6	0.6	< 0.25	< 0.1	< 0.26	< 0.26	< 0.25	< 0.25	< 0.25	< 0.25
Chloromethane	ug/l	30	3	< 1	< 0.89	< 0.54	< 0.54	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	ug/l	70	7	0.51	0.55	< 0.37	< 0.37	< 0.3	< 0.3	< 0.3	< 0.3
cis-1,3-Dichloropropene	ug/l	0.4	0.04	< 0.3	< 0.14	< 0.26	< 0.26	< 0.3	< 0.3	< 0.3	< 0.3
Dibromochloromethane	ug/l	60	6	< 0.5	< 0.26	< 0.22	< 0.22	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	ug/l	NL	NL	< 0.5	< 0.23	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	ug/l	1000	200	< 0.5	< 0.5	< 0.32	< 0.32	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	ug/l	700	140	< 0.2	< 0.3	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2
Hexachloro-1,3-butadiene	ug/l	NL	NL	< 0.5	< 0.3	< 1.34	< 1.34	< 0.5	< 0.5	< 0.5	< 0.5
Hexane	ug/l	NL	NL	< 0.5	< 0.73	NA	NA	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl ether	ug/l	NL	NL	< 0.25	< 0.21	< 0.21	< 0.21	< 0.25	< 0.25	< 0.25	< 0.25
Isopropylbenzene (Cumene)	ug/l	NL	NL	< 0.2	< 0.31	< 0.78	< 0.78	< 0.2	< 0.2	< 0.2	< 0.2
m,p-Xylenes	ug/l	2000	400	< 0.4	< 0.56	< 0.43	< 0.43	< 0.4	< 0.4	< 0.4	< 0.4
Methylene Chloride	ug/l	5	0.5	< 0.5	< 0.15	< 1.32	< 1.32	< 0.5	< 0.5	< 0.5	< 0.5
Methyl-tert-butyl ether	ug/l	60	12	< 0.3	< 0.24	< 0.28	< 0.28	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	ug/l	100	10	< 0.3	< 0.32	< 2.1	< 2.1	< 0.3	< 0.3	< 0.3	< 0.3
n-Butylbenzene	ug/l	NL	NL	< 0.2	< 0.58	< 0.71	< 0.71	< 0.2	< 0.2	< 0.2	< 0.2
n-Propylbenzene	ug/l	NL	NL	< 0.2	< 0.26	< 0.61	< 0.61	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	ug/l	2000	400	< 0.3	< 0.33	< 0.29	< 0.29	< 0.3	< 0.3	< 0.3	< 0.3
p-Isopropyltoluene	ug/l	NL	NL	< 0.2	< 0.2	< 0.24	< 0.24	< 0.2	< 0.2	< 0.2	< 0.2
sec-Butylbenzene	ug/l	NL	NL	< 0.2	< 0.2	< 0.79	< 0.79	< 0.2	< 0.2	< 0.2	< 0.2
Styrene	ug/l	100	10	< 0.25	< 0.27	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25
tert-Butylbenzene	ug/l	NL	NL	< 0.5	< 0.42	< 0.25	< 0.25	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	ug/l	5	0.5	< 0.5	< 0.29	< 0.38	< 0.38	< 0.5	< 0.5	< 0.5	< 0.5
Tetrahydrofuran	ug/l	NL	NL	< 2	< 1.4	NA	NA	< 2	< 2	< 2	< 2
Toluene	ug/l	800	160	< 0.25	< 0.29	< 0.19	< 0.19	< 0.25	< 0.25	< 0.25	< 0.25
Total Trimethylbenzene	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	ug/l	100	20	< 0.5	< 0.22	< 0.34	< 0.34	< 0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	ug/l	0.4	0.04	< 0.5	< 0.3	< 0.32	< 0.32	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	ug/l	5	0.5	< 0.5	< 0.16	< 0.3	< 0.3	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	ug/l	3490	698	< 0.5	< 0.24	< 0.35	< 0.35	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	ug/l	0.2	0.02	< 0.2	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Xylene (Total)	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA

SUMMARY OF CONTAMINATES (except PFAS) ANALYZED IN POTABLE WELLS
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN

Analyte	Units	ES ¹	PAL ²	2201 Elm Road				2408 Elm Road	2417 Elm Road	2514 Elm Road	2501 Nelson Lane
				12/19/2017 ⁽³⁾ Basement Tap	2/14/2018 ⁽³⁾ Basement Tap	06/27/19 ⁽³⁾ Basement Tap	10/22/19 Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/19/2017 ⁽³⁾ Basement Tap	12/19/2017 ⁽³⁾ Basement Tap
Polycarbonated Biphenyls (PCBs):											
Aroclor 1016	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	ug/l	0.03	0.003	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals:											
Aluminum	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	4	0.4	NA	NA	NA	NA	NA	NA	NA	NA
Boron	ug/l	1000	200	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Copper	ug/l	1300	130	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Hardness, Total Unfiltered	mg/L	NL	NL	NA	NA	384	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	1.34	NA	NA	NA	NA	NA
Lithium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	ug/l	300	60	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	ug/l	40	8	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	ug/l	100	20	NA	NA	NA	NA	NA	NA	NA	NA
Phosphorus	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silicon	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	mg/L	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Strontium	ug/l	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	30	6	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	ug/l	5000	2500	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals:											
Arsenic	ug/l	10	1	NA	NA	NA	NA	NA	NA	NA	NA
Barium	ug/l	2000	400	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	5	0.5	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	ug/l	100	10	NA	NA	NA	NA	NA	NA	NA	NA
Iron	mg/L	0.3	0.15	NA	NA	NA	NA	NA	NA	NA	NA
Lead	ug/l	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	ug/l	2	0.2	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Silver	ug/l	50	10	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids:											
Total Dissolved Solids	mg/L	NL	NL	NA	NA	628	NA	NA	NA	NA	NA
Field Screening Measurements:											
Conductivity	uS/cm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	ppm	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
ORP	mV	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA
Temperature	deg C	NL	NL	NA	NA	NA	NA	NA	NA	NA	NA

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

NOTES:

- (1) Enforcement Standard from NR140, February 2017.
- (2) Preventive Action Limit from NR140, February 2017.
- (3) Sample Collected by the WDNR.
- (4) Sample Collected by the Property Owner.

DUP - Field duplicate sample

NL - ES or PAL not listed in NR140.

NA - Not analyzed.

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

Bold indicates a PAL exceedance.

Bold and underlining indicates an ES exceedance.

Table 3
SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (UPDATED OCTOBER 2019)

**TABLE 3
SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (UPDATED JUNE 2019)
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	May	October	May	October	May	October	May	October
Target Zone Wells (semi-annual sampling)												
3817 Viebahn St	●	May 2017	+	+	+	+	+	1	1	1	1	1
3327 Hecker Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
3461(3417) Hecker Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
3702 Hecker Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
3618 CTH CR	●	May 2017	+	+	+	+	+	1	1	1	1	1
4027 Thunder Ridge Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
4101 Thunder Ridge Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
4111 Thunder Ridge Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
4127 Thunder Ridge Rd	●	May 2019					+	1	1	1	1	1
3911 Blackhawk Ct	●	May 2017	+	+	+	+	+	1	1	1	1	1
3921 Black Hawk Ct	●	May 2017	+	+	+	+	+	1	1	1	1	1
4159 Silver Creek Rd	●	May 2017	+	+	+	+	+	1	1	1	1	1
3027 Orchard Ln	●	May 2017	+	+	+	+	+	1	1	1	1	1
2201 Elm Street	●	May 2019					+	1	1	1	1	1
3008 South 26th Street	●	May 2019					+	1	1	1	1	1
Target Zone Sentinel Wells (sample annually)												
3320 Hecker Rd	●	Oct 2016		+		+		1		1		1
3825 Viebahn St	●	Oct 2016		+		+		1		1		1
2832 (2904) CTH CR	●	Oct 2016		+		+		1		1		1
2911 CTH CR	●	Oct 2016		+		+		1		1		1
3224 CTH CR	●	Oct 2016		+		+		1		1		1
3312 CTH CR	●	Oct 2016		+		+		1		1		1
3322 CTH CR	●	Oct 2016		+		+		1		1		1
3412 CTH CR	●	Oct 2016		+		+		1		1		1
3422 CTH CR	●	Oct 2016		+		+		1		1		1
3523 CTH CR	●	Oct 2016		+		+		1		1		1
3533 CTH CR	●	Oct 2016		+		+		1		1		1
3611 CTH CR	●	Oct 2016		+		+		1		1		1
3626(3626B) CTH CR	●	Oct 2016		+		+		1		1		1
3627 CTH CR	●	Oct 2016		+		+		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
3904 CTH CR	●	May 2017	+						1			
4024 CTH CR	●	Oct 2016						1				Oct 2022
4101 CTH CR	●	Oct 2015			+							1
3128 Orchard Ln	●	Oct 2015			+							1
4212 Silver Creek Rd	●											
4220 Silver Creek Rd (3 Properties Share Well)	●	May 2017	+						1			
4236 Silver Creek Rd	●											
4314 Silver Creek Rd	●	June 2014	+						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	+									May 2022
2706 CTH CR	●	Oct 2016										1
4125 CTH CR	●	May 2017	+									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	+									May 2022
3780 Silver Creek Rd	●	May 2017	+									May 2022
3802 Silver Creek Rd	●	May 2017	+									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	+									May 2022

**TABLE 3
SUMMARY OF FIVE YEAR POTABLE WELL SAMPLING PLAN (UPDATED JUNE 2019)
FORMER TOWN OF NEWTON GRAVEL PIT
MANITOWOC, WISCONSIN**

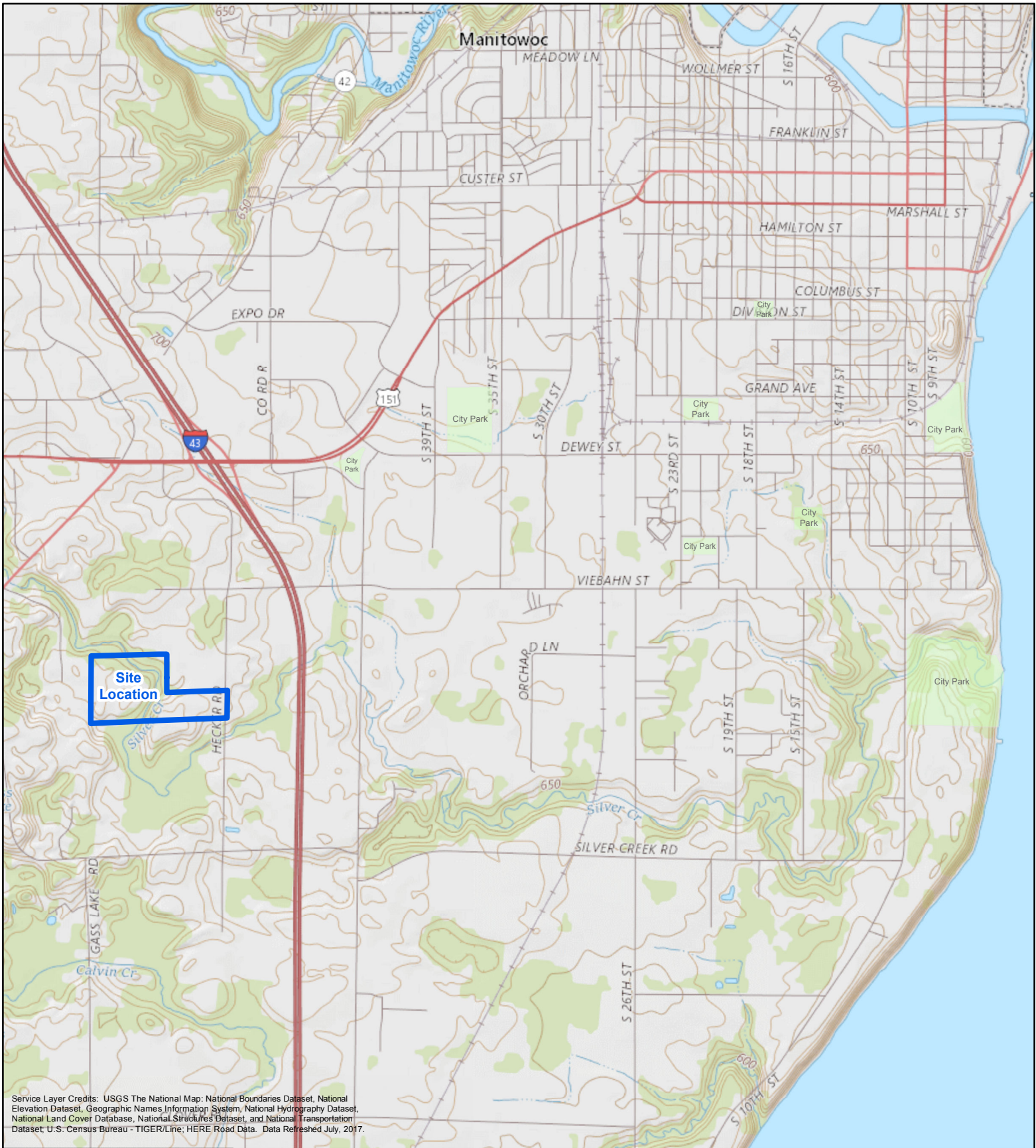
Well Address	Map Color Code	Date of Previous Sampling Event	2017		2018		2019		2020		2021	
			May	October	May	October	May	October	May	October	May	October
Replacement Wells (sample every 5th year)												
3303 Hecker Rd	●	Oct 2016										1
3515 Hecker Rd	●	Oct 2016										1
3518 Hecker Rd	●	Oct 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	‡									1
4002 Thunder Ridge Rd	●	Oct 2016										1
4005 Thunder Ridge Rd	●	May 2017	‡									May 2022
4010 Thunder Ridge Rd	●	May 2017	‡									May 2022
2918 South 26th Street	●	May 2019					‡					May 2024
Historically Sampled Wells												
5107 Veibahn St	▲	December 2013	Wells are typically up-gradient or side gradient - no additional sampling anticipated									
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	City Water Provided - No Potable Well Sampling Required									
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	42	29	46	32	18	33	18	45

Notes:
‡ indicates sample has been collected and the sampling event is complete
Yellow highlight indicates updates to the Work Plan sampling schedule.

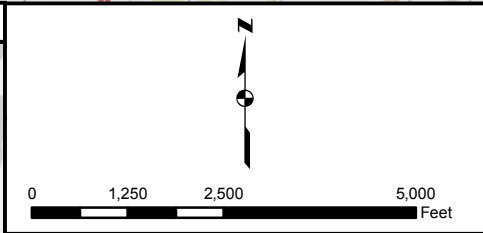
Figures:

Figure 1; Site Location Map

Figure 2; October 2019 VOC Potable Well Sampling Results



Service Layer Credits: USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data. Data Refreshed July, 2017.



FORMER NEWTON GRAVEL PIT

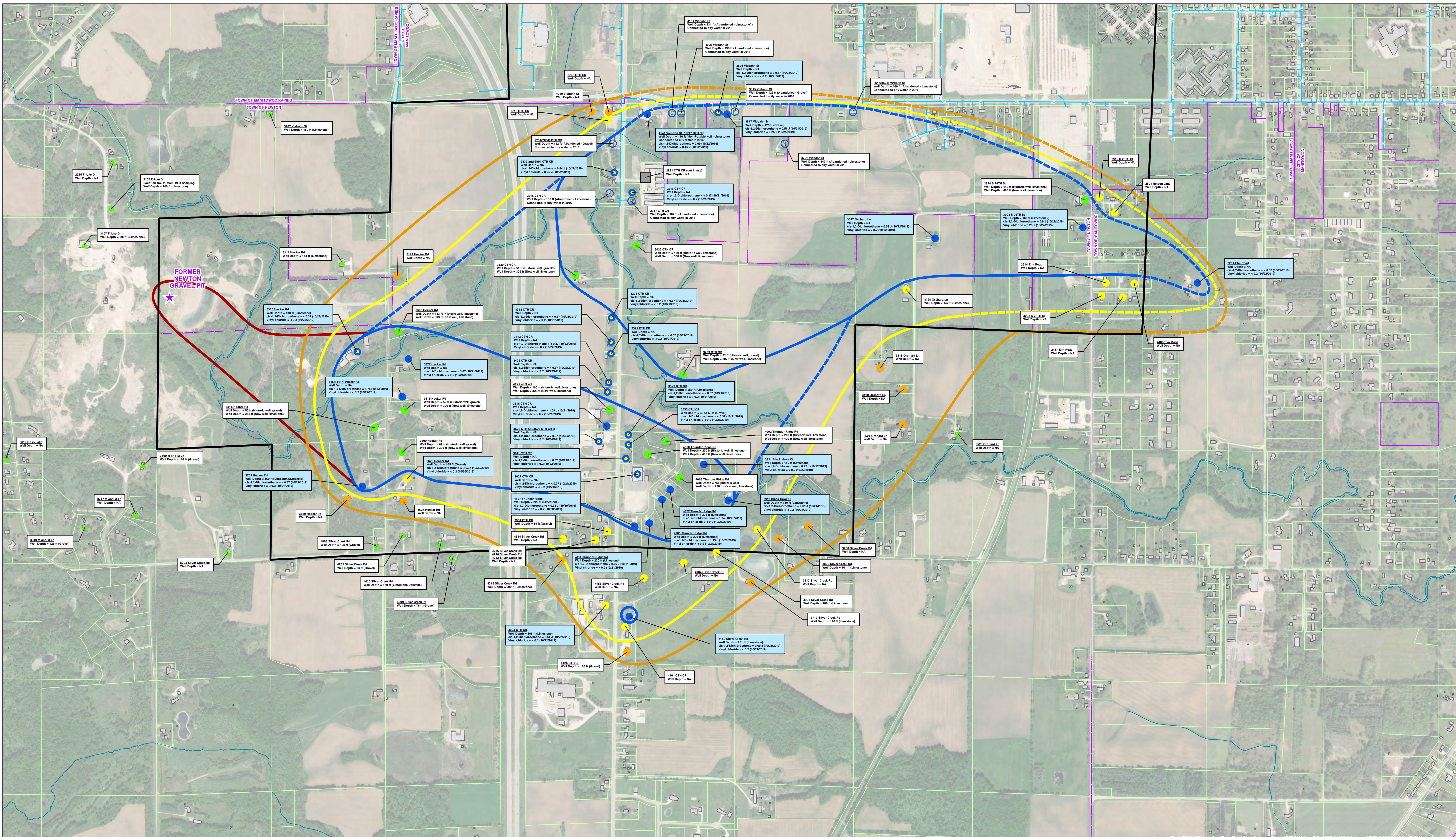
SITE LOCATION MAP

AECOM - Milwaukee Office
1555 River Center Dr
Milwaukee WI



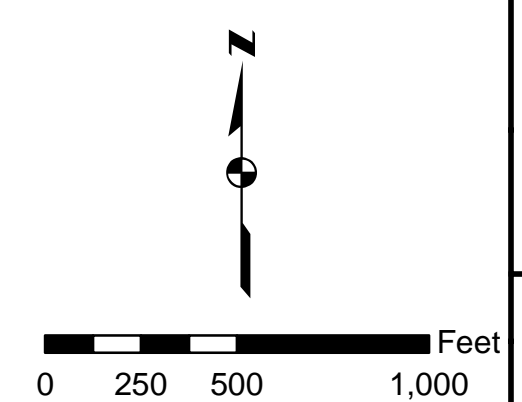
Project No. 60135471 Drawn By: RW Date: June 2018

Figure 1



- Legend**
- Within Target Zone, With Detects
 - Within Target Zone, With No Detects
 - Former Target Zone Well, With Detects, But Now On City Water
 - Within Sentinel Zone - 3 Year, With No Detects
 - Within Sentinel Zone - 5 Year, With No Detects
 - Replacement Well Within Target Zone, With No Detects
 - ▲ Historically Sampled Wells, With No Detects
 - Well Out Of Service
 - ★ Site Location
 - DNR Special Well Casing Depth Area
 - Target Zone
 - Inferred Target Zone
 - 3 Year Sentinel Zone
 - Inferred 3 Year Sentinel Zone
 - 5 Year Sentinel Zone
 - Inferred 5 Year Sentinel Zone
 - Former Gravel Pit Zone
 - Utility Water Line
 - Municipality Boundaries
 - Parcels
 - Streams
 - Building Footprints
 - Current Sampling Results

NOTES:
 1. Units are presented in micrograms per Liter (ug/L).



AECOM
 Milwaukee Office
 1555 River Center Dr
 Milwaukee WI

FORMER NEWTON GRAVEL PIT

OCTOBER 2019 DRAFT

VOC POTABLE WELL SAMPLING RESULTS

Project No. 60135471 Date: November 2019 Drawn By: RW **FIGURE 2**

Attachment A:

VOC 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 30-Oct-19

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023A
Sample ID 4027 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	1.24	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023A
Sample ID 4027 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023B
Sample ID 3825 VIEBAHN
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023B
Sample ID 3825 VIEBAHN
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023C
Sample ID 3911 BLACK HAWK
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	0.61 "J"	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023C
Sample ID 3911 BLACK HAWK
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	91	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023D
Sample ID 3533 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023D
Sample ID 3533 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023E
Sample ID 3627 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023E
Sample ID 3627 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023F
Sample ID 3523 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023F
Sample ID 3523 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023G
Sample ID 2911 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023G
Sample ID 2911 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023H
Sample ID 3327 HECKER
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	3.07	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023H
Sample ID 3327 HECKER
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023I
Sample ID FD 102119
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/28/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/28/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/28/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/28/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/28/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/28/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/28/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/28/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/28/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/28/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/28/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/28/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/28/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/28/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/28/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/28/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/28/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/28/2019	CJR	1
cis-1,2-Dichloroethene	3.4	ug/l	0.37	1.16	1	8260B		10/28/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/28/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/28/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/28/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/28/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/28/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/28/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/28/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/28/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/28/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/28/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/28/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/28/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/28/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/28/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/28/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/28/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/28/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/28/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023I
Sample ID FD 102119
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/28/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/28/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/28/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/28/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/28/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/28/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/28/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/28/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/28/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/28/2019	CJR	1
SUR - Dibromofluoromethane	90	REC %			1	8260B		10/28/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/28/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		10/28/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/28/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023J
Sample ID 3702 HECKER
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023J
Sample ID 3702 HECKER
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023K
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	1.09 "J"	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023K
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023L
Sample ID 3312 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023L
Sample ID 3312 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023M
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	0.57 "J"	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023M
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	0.25 "J"	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023N
Sample ID 4111 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	0.65 "J"	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023N
Sample ID 4111 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023O
Sample ID TB 102119
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023O
Sample ID TB 102119
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023P
Sample ID 3322 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023P
Sample ID 3322 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023Q
Sample ID 3224 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023Q
Sample ID 3224 CTH CR
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
 Project # 60135471

Invoice # E37023

Lab Code 5037023R
 Sample ID 4159 SILVER CREEK
 Sample Matrix Water
 Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	0.69 "J"	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	0.32 "J"	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023R
Sample ID 4159 SILVER CREEK
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023S
Sample ID 4101 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	1.13 "J"	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023S
Sample ID 4101 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/21/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023T
Sample ID 2201 ELM
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023T
Sample ID 2201 ELM
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023U
Sample ID 3611 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023U
Sample ID 3611 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023V
Sample ID FD 102219
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023V
Sample ID FD 102219
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023W
Sample ID 2832 (2904) CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	0.44 "J"	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023W
Sample ID 2832 (2904) CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	0.25 "J"	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023X
Sample ID 2717 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	2.09	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023X
Sample ID 2717 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	0.46 "J"	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023Y
Sample ID 3422 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023Y
Sample ID 3422 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
 Project # 60135471

Invoice # E37023

Lab Code 5037023Z
 Sample ID 3008 S 26TH
 Sample Matrix Water
 Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	0.9 "J"	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 5037023Z
Sample ID 3008 S 26TH
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	0.25 "J"	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023AA
Sample ID 3320 HECKER
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023AA
Sample ID 3320 HECKER
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023BB
Sample ID 3921 BLACKHAWK CT
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	0.92 "J"	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023BB
Sample ID 3921 BLACKHAWK CT
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023CC
Sample ID 4024 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/30/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/30/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/30/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/30/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/30/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/30/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/30/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/30/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/30/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/30/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/30/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/30/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/30/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/30/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/30/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/30/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/30/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/30/2019	CJR	1
cis-1,2-Dichloroethene	0.51 "J"	ug/l	0.37	1.16	1	8260B		10/30/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/30/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/30/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/30/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/30/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/30/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/30/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/30/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/30/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/30/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/30/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/30/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/30/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/30/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/30/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/30/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/30/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/30/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/30/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023CC
Sample ID 4024 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/30/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/30/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/30/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/30/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/30/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/30/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/30/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/30/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/30/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/30/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/30/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/30/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/30/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/30/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023DD
Sample ID 3027 ORCHARD
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	0.58 "J"	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023DD
Sample ID 3027 ORCHARD
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023EE
Sample ID 3412 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023EE
Sample ID 3412 CTH CR
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
 Project # 60135471

Invoice # E37023

Lab Code 537023FF
 Sample ID 3461 (3417) HECKER
 Sample Matrix Water
 Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/29/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/29/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/29/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/29/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/29/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/29/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/29/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/29/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/29/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/29/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/29/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/29/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/29/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/29/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/29/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/29/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/29/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/29/2019	CJR	1
cis-1,2-Dichloroethene	1.78	ug/l	0.37	1.16	1	8260B		10/29/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/29/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/29/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/29/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/29/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/29/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/29/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/29/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/29/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/29/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/29/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/29/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/29/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/29/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/29/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/29/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/29/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/29/2019	CJR	1
Toluene	0.25 "J"	ug/l	0.19	0.6	1	8260B		10/29/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/29/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37023

Lab Code 537023FF
Sample ID 3461 (3417) HECKER
Sample Matrix Water
Sample Date 10/22/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/29/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/29/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/29/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/29/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/29/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/29/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/29/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/29/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/29/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/29/2019	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/29/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/29/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/29/2019	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		10/29/2019	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

PW

Synergy

Environmental Lab, Inc.

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920-830-2455 • FAX 920-733-0631

Sample Handling Request

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

Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #: 60135471	
Sampler: (signature) <i>Robert Wasjeda</i>	

Project (Name / Location): Newton PW	
Reports To: Dave Henderson	Invoice To: Dave Henderson
Company: AECOM	Company:
Address: 1555 RiverCenter Dr Ste 214	Address:
City State Zip: Milwaukee, WI 53212	City State Zip:
Phone:	Phone:
FAX:	FAX:

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection Date Time	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 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260) (See Contract)	8-RCRA METALS	PID/FID
5037023A	4027 Thunder Ridge	9:15		X	N	3	DW	HCL													X		
B	3825 Viebahn	9:45		X	N	3	DW	HCL													X		
C	3911 Blackhawk	10:15		X	N	3	DW	HCL													X		
D	3533 CTH CR	10:45		X	N	3	DW	HCL													X		
E	3627 CTH CR	11:15		X	N	3	DW	HCL													X		
F	3523 CTH CR	11:45		X	N	3	DW	HCL													X		
G	2911 CTH CR	13:15		X	N	3	DW	HCL													X		
H	3327 Hecker	13:45		X	N	3	PW	HCL													X		
I	FD 102119	13:45		X	N	3	DW	HCL													X		
J	3702 Hecker	14:15		X	N	3	DW	HCL													X		

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

trip
temp

Sample Integrity - To be completed by receiving lab. Method of Shipment: <u>GC</u> Temp. of Temp. Blank _____ °C On Ice: <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes _____ No	Relinquished By: (sign) <i>Robert Wasjeda</i>	Time	Date	Received By: (sign)	Time	Date
		1525	10.25			
	Received in Laboratory By: <i>[Signature]</i>	Time: 10:00	Date: 10/26/17			

PW

Synergy

Environmental Lab, Inc.

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920-830-2455 • FAX 920-733-0631

Sample Handling Request

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

Lab I.D. # _____

Account No. : _____ Quote No. : _____

Project #: 60135476

Sampler: (signature) Robert Weisfeld

Project (Name / Location): Newton PW

Reports To: Dave Henderson Invoice To: Dave Henderson

Company: AECOM Company: _____

Address: 1555 RiverCenter Dr Ste 214 Address: _____

City State Zip: M. Waukegan, WI 53212 City State Zip: _____

Phone: _____ Phone: _____

FAX: _____ FAX: _____

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection		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 8270)	PCB	PVC (EPA 8021)	PVC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8160) Per Contract	8-PCRA METALS	PID/FID	
		Date	Time																						
5037023	3618 CTHCR	10/21/19	14:45		X	N	3	DW	HCL																
	3312 CTHCR		15:15		X	N	3	DW	HCL																
	3817 Viebahn		15:45		X	N	3	DW	HCL																
	411 Thunder Ridge		16:15		X	N	3	DW	HCL																
	TB102119		-		X	N	3	-	HCL																
	3322 CTHCR		17:15		X	N	3	DW	HCL																
	3224 CTHCR		17:45		X	N	3	DW	HCL																
	4159 Silver Creek		18:15		X	N	3	DW	HCL																
	4101 Thunder Ridge		16:45		X	N	3	DW	HCL																
	2201 Elm	10/21/19	8:15		X	N	3	PW	HCL																

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

Trip blank

Sample Integrity - To be completed by receiving lab.

Method of Shipment: GC

Temp. of Temp. Blank _____ °C On Ice:

Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) [Signature] Time 1525 Date 10-25

Received By: (sign) _____ Time _____ Date _____

Received in Laboratory By: [Signature] Time: 10:00 Date: 10/26/19

PW

Synergy

Chain # N^o 3207

Page 3 of 4

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Sample Handling Request

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

Normal Turn Around

Lab I.D. # _____
Account No. : _____ Quote No. : _____
Project #: 60135471
Sampler: (signature) Robert Wesejak

Project (Name / Location): Newton PW
Reports To: Dave Henderson Invoice To: Dave Henderson
Company: AECOM Company: _____
Address: 1555 RiverCenter Dr, Ste 214 Address: _____
City State Zip: Milwaukee, WI 53212 City State Zip: _____
Phone: _____ Phone: _____
FAX: _____ FAX: _____

Analysis Requested										Other Analysis				
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 8000) (Per Contract)	8-PCRA METALS	PID/FID

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5037023	3611 CTH CR	10/26/17	8:45		X	N	3	DW	HCL
	FD 102219		8:45		X	N	3	DW	HCL
	2832(2904) CTH CR		9:15		X	N	3	DW	HCL
	2717 CTH CR		9:45		X	N	3	DW	HCL
	3422 CTH CR		10:15		X	N	3	DW	HCL
	3008 S 26th		10:45		X	N	3	DW	HCL
	3320 Hecker		11:15		X	N	3	DW	HCL
	3921 Blackhawk Ct		11:45		X	N	3	DW	HCL
	4024 CTH CR		13:15		X	N	3	DW	HCL
	3027 Orchard		16:45		X	N	3	DW	HCL

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

Sample Integrity - To be completed by receiving lab.
Method of Shipment: GC
Temp. of Temp. Blank _____ °C On Ice:
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) [Signature] Time 1525 Date 10.25
Received By: (sign) _____ Time _____ Date _____
Received in Laboratory By: [Signature] Time: 10:00 Date: 10/26/17

Environmental Lab, Inc.

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Sample Handling Request

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

Normal Turn Around

Lab I.D. #	
Account No.:	Quote No.:
Project #: 60135471	
Sampler: (signature) <i>Robert Waseled</i>	
Project (Name / Location): Newton PW	
Reports To: Dave Henderson	Invoice To: Dave Henderson
Company: AECOM	Company:
Address: 1555 River Center Dr, Ste 214	Address:
City State Zip: Milwaukee, WI 53212	City State Zip:
Phone:	Phone:
FAX:	FAX:

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Time	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 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260) per Contract	8-PCRA METALS	PID/FID	
537023	3412 CTH CR	10/22/17	17:15		X	N	3	DW	HCL																
EE	3461(3417) Hecken	10/22/17	17:45		X	N	3	DW	HCL																

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

Sample Integrity - To be completed by receiving lab.

Method of Shipment: **GC**

Temp. of Temp. Blank _____ °C On Ice:

Cooler seal intact upon receipt: Yes _____ No

Relinquished By: (sign)

Robert Waseled

Time

1525

Date

10.25

Received By: (sign)

Time

Date

Received in Laboratory By:

Chris [Signature]

Time:

10:00

Date:

10/26/17

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 06-Nov-19

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056A
Sample ID 3625 HECKER
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		11/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		11/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		11/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		11/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		11/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		11/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		11/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		11/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		11/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		11/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		11/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		11/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		11/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		11/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		11/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		11/4/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		11/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056A
Sample ID 3625 HECKER
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		11/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		11/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		11/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		11/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		11/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		11/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		11/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		11/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		11/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		11/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		11/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		11/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		11/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		11/4/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		11/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		11/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		11/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		11/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		11/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		11/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		11/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		11/4/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		11/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		11/4/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056B
Sample ID 3626 CTH CR
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		11/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		11/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		11/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		11/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		11/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		11/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		11/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		11/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		11/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		11/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		11/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		11/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		11/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		11/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		11/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		11/4/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		11/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		11/4/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		11/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		11/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		11/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		11/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		11/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		11/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		11/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		11/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		11/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		11/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		11/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		11/4/2019	CJR	1
Toluene	0.81	ug/l	0.19	0.6	1	8260B		11/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056B
Sample ID 3626 CTH CR
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		11/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		11/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		11/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		11/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		11/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		11/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		11/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		11/4/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		11/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		11/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		11/4/2019	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056C
Sample ID 4127 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		11/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		11/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		11/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		11/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		11/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		11/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		11/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		11/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		11/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		11/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		11/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		11/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		11/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		11/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		11/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		11/4/2019	CJR	1
cis-1,2-Dichloroethene	0.38 "J"	ug/l	0.37	1.16	1	8260B		11/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		11/4/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		11/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		11/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		11/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		11/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		11/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		11/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		11/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		11/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		11/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		11/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		11/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		11/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		11/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056C
Sample ID 4127 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		11/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		11/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		11/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		11/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		11/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		11/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		11/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		11/4/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		11/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		11/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		11/4/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056D
Sample ID TB 103019
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		11/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		11/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		11/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		11/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		11/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		11/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		11/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		11/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		11/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		11/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		11/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		11/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		11/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		11/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		11/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		11/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		11/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		11/4/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		11/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		11/4/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		11/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		11/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		11/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		11/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		11/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		11/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		11/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		11/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		11/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		11/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		11/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		11/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		11/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		11/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		11/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		11/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		11/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		11/4/2019	CJR	1

Project Name NEWTON PW
Project # 60135471

Invoice # E37056

Lab Code 5037056D
Sample ID TB 103019
Sample Matrix Water
Sample Date 10/30/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		11/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		11/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		11/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		11/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		11/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		11/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		11/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		11/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		11/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		11/4/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		11/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		11/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		11/4/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		11/4/2019	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

Sample Handling Request

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

Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #: 60135471	
Sampler: (signature) <i>Robert Wozniak</i>	
Project (Name / Location): Newton PW	
Reports To: Dave Henderson	Invoice To: Dave Henderson
Company: AE COM	Company
Address: 1555 RiverCenter Dr	Address
City State Zip: Milwaukee, WI 53212	City State Zip
Phone	Phone
FAX	FAX

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Time	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 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260) Per-Contract	8-PCRA METALS	PID/FID
5037056	A 3625 Hecker	10/30/19	17:10		X	N	3	GW	Hcl													X		
	B 3626 Cth Cr		17:40		X	N	3	GW	Hcl													X		
	C 4127 Thunder Ridge		17:50		X	N	3	GW	Hcl													X		
	D TB 103019		-		X	N		-	Hcl													X		

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

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>clerk</i> Temp. of Temp. Blank _____ °C On Ice: <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign) <i>Robert Wozniak</i>	Time 17:00	Date	Received By: (sign)	Time	Date
	Received in Laboratory By: <i>John</i>	Time: 2:00	Date: 10/31/19			

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 04-Dec-19

Project Name NEWTON GRAVEL PIT EXTENDED PW
Project # 60135471.40

Invoice # E37211

Lab Code 5037211A
Sample ID 3817 VIEBAHN ST
Sample Matrix Water
Sample Date 11/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		12/4/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		12/4/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		12/4/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		12/4/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		12/4/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		12/4/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		12/4/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		12/4/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		12/4/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		12/4/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		12/4/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		12/4/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/4/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		12/4/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		12/4/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		12/4/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		12/4/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		12/4/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		12/4/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		12/4/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		12/4/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		12/4/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		12/4/2019	CJR	1
cis-1,2-Dichloroethene	0.60 "J"	ug/l	0.37	1.16	1	8260B		12/4/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		12/4/2019	CJR	1

Project Name NEWTON GRAVEL PIT EXTENDED PW
Project # 60135471.40

Invoice # E37211

Lab Code 5037211A
Sample ID 3817 VIEBAHN ST
Sample Matrix Water
Sample Date 11/26/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		12/4/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		12/4/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		12/4/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		12/4/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		12/4/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		12/4/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		12/4/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		12/4/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		12/4/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		12/4/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		12/4/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		12/4/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		12/4/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		12/4/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/4/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		12/4/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		12/4/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		12/4/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		12/4/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		12/4/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		12/4/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		12/4/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		12/4/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		12/4/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		12/4/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		12/4/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		12/4/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		12/4/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		12/4/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		12/4/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		12/4/2019	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		12/4/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		12/4/2019	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



A handwritten signature in blue ink, appearing to read "Michael J. [unclear]", is written over a horizontal line.

