

September 14, 2018

David Neste
Hydrogeologist – R&R
Northeast Region R&R Program
2984 Shawano Avenue
Green Bay, WI 54313-6727

Re: QuicFrez Site – Groundwater Sampling Event – 105 Oak Place, Fond Du Lac, WI – BRRTS No. 02-20-118383

Dear Mr. Neste:

OMNNI Associates is providing the following sampling summary consistent with the request from Mr. Keld Laurdisen to perform one round of groundwater sampling at the Quicfrez property located at 105 Oak Place, Fond Du Lac, Wisconsin. The last groundwater sampling event occurred on March 30, 2015. Historically, high levels of trichloroethene (TCE) and its degradation products have been observed on the subject property during historical sampling events.

On July 18, 2018 OMNNI arrived on site to sample seven NR 141 permanent groundwater monitoring wells (MW1RR, MW4R, MW5R, MW14, MW15, MW16 and MW21), and one piezometer (MW5A) that is screened from elevations 732.29 to 727.29 approximately 15 feet below the groundwater table. Groundwater levels were obtained prior to sample collection and new tubing was installed in all wells sampled. Groundwater monitoring wells were purged four times their well volume prior to sample collection to obtain accurate results. All purge water was stored in 55-gallon drums on the south side of the site pending analysis. Piezometer MW5A was purged dry when approximately seven gallons of water were removed. The sample from MW5A was collected after the well recharged. Monitoring wells were sampled using low flow methods via a peristaltic pump. The groundwater was sampled for volatile organic compounds (VOCs) and a trip blank was provided with the sample. The following field groundwater quality measurements were taken; temperature, pH, dissolved oxygen, oxidation-reduction potential (ORP), conductivity, and turbidity (See Groundwater Sample Collection Records). Samples were collected once three consistent groundwater parameters were met based on well volumes of groundwater removed. Samples were placed on ice and transported to Synergy Environmental Lab, Inc. (WI DNR Lab Certification #445037560) in Appleton for analysis.

Volatile organic compounds were detected in all eight groundwater monitoring wells sampled during the July 2018 sampling event (See Table 1 Groundwater Results; Laboratory Analysis Results and Chain of Custody Documentation). Cis-1,2-dichloroethene was detected in MW4R, MW5R, MW14, and MW21 exceeding the groundwater enforcement standards (ES). Cis-1,2-dichloroethene was also detected in MW5A exceeding the preventive action limit (PAL). Trans-1,2-dichloroethene was detected in MW4R and MW21 exceeding its ES. Chloroform was detected in MW15 exceeding the PAL. Benzene was detected exceeding the ES in MW1RR and MW21. Benzene was also detected in MW5A exceeding its PAL. Vinyl chloride was detected in all eight groundwater monitoring wells exceeding the ES. 1,1-dichloroethene was detected exceeding its ES in MW4R and MW21. Trichloroethene (TCE) was detected exceeding its ES in MW4R, MW5R, MW14, and MW21. TCE was also detected in MW15 exceeding its PAL. The remaining VOC detections were detected below the Wisconsin state standards.

Please see the following attachments for further information regarding the July 2018 sampling event.

- Attachment A – Figures
- Attachment B – Groundwater Sampling Log
- Attachment C – Water Level Elevations
- Attachment D – Groundwater Analytical Results Table
- Attachment E – Groundwater Analytical Results

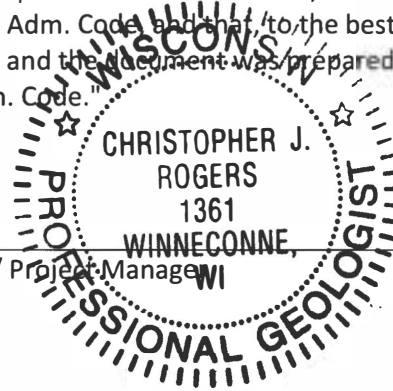
Submittal Certification:

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



Signature and title:

Hydrogeologist / Project Manager



Date

If you have any questions regarding this sampling event, please do not hesitate to call me at (920) 830-6331.

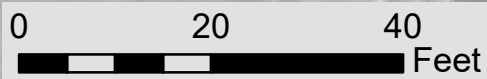
Sincerely,
OMNNI Associates, Inc.



Christopher J. Rogers P.G.
Hydrogeologist / Project Manager

cc. Mr. Jordan Skiff, Director of Public Works – City of Fond Du Lac

Parcels
Monitoring Wells
▲ Sampled
▲ Not Sampled



Monitoring well locations collected by OMNNI Associates, Inc. on 6/18/2018 using sub-foot accuracy GPS.



Project Manager: JCW
 Project Engineer: JCW
 Drawn By: JCW
 Checked By:
 Date: 7/19/2018

QUICFREZ
MONITORING WELLS SITE MAP

CITY OF FOND DU LAC, FOND DU LAC COUNTY, WISCONSIN



ONE SYSTEMS DRIVE PHONE (920) 735-6900
 APPLETON, WI 54914 FAX (920) 830-0100

SCALE:
1" = 20'

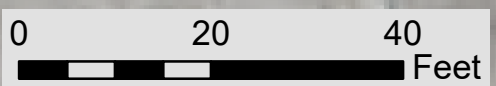
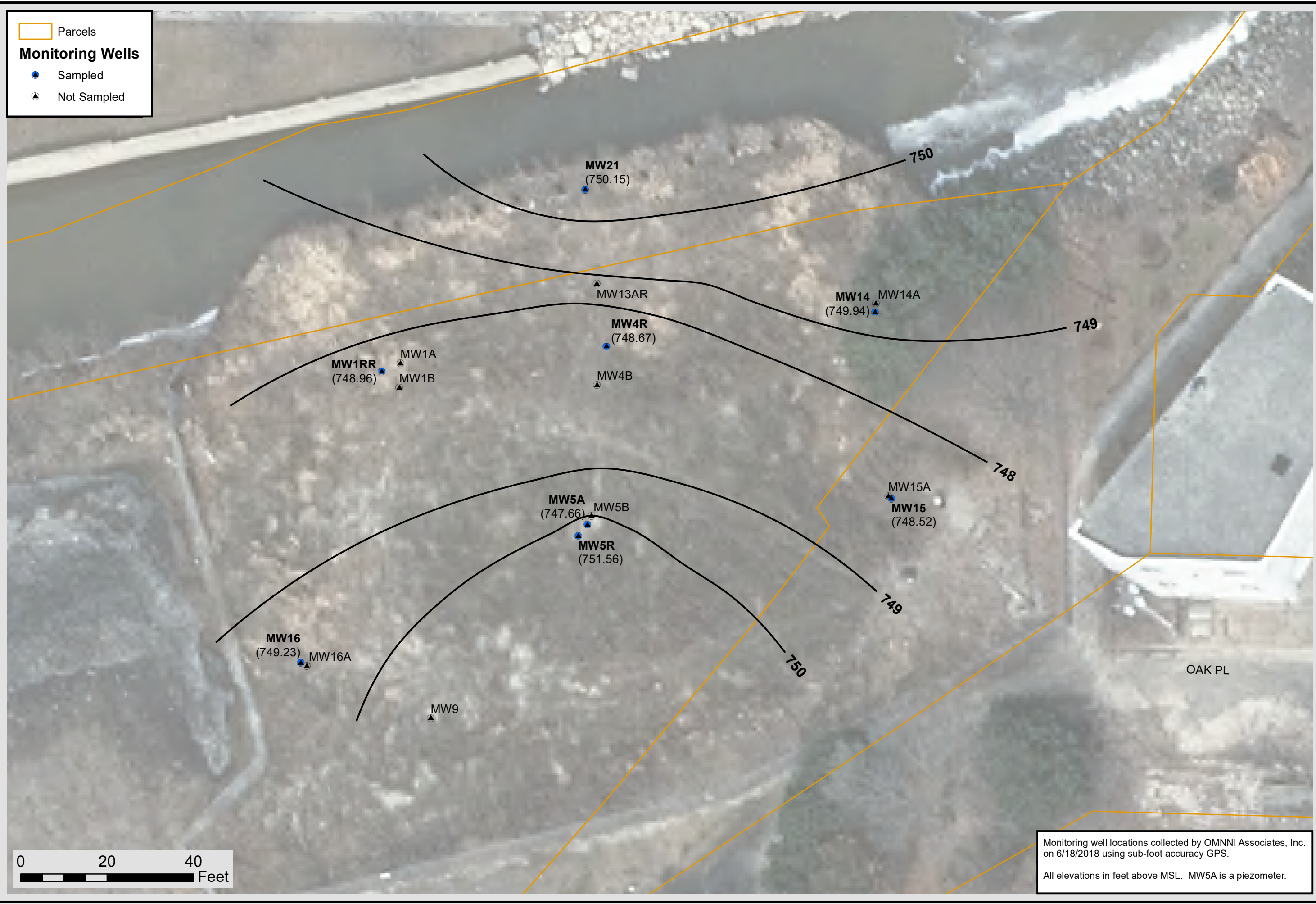
PROJECT NO.
N2232A18

FIGURE NO.
A-1

Parcels
Monitoring Wells
▲ Sampled
▲ Not Sampled



Project Manager: JCW
 Project Engineer: JCW
 Drawn By: CJR
 Checked By: CJR
 Date: 8/28/2018



Monitoring well locations collected by OMNNI Associates, Inc. on 6/18/2018 using sub-foot accuracy GPS.
 All elevations in feet above MSL. MW5A is a piezometer.

QUICFREZ
GROUNDWATER POTENTIOMETRIC SURFACE
(7/18/2018)
 CITY OF FOND DU LAC, FOND DU LAC COUNTY, WISCONSIN

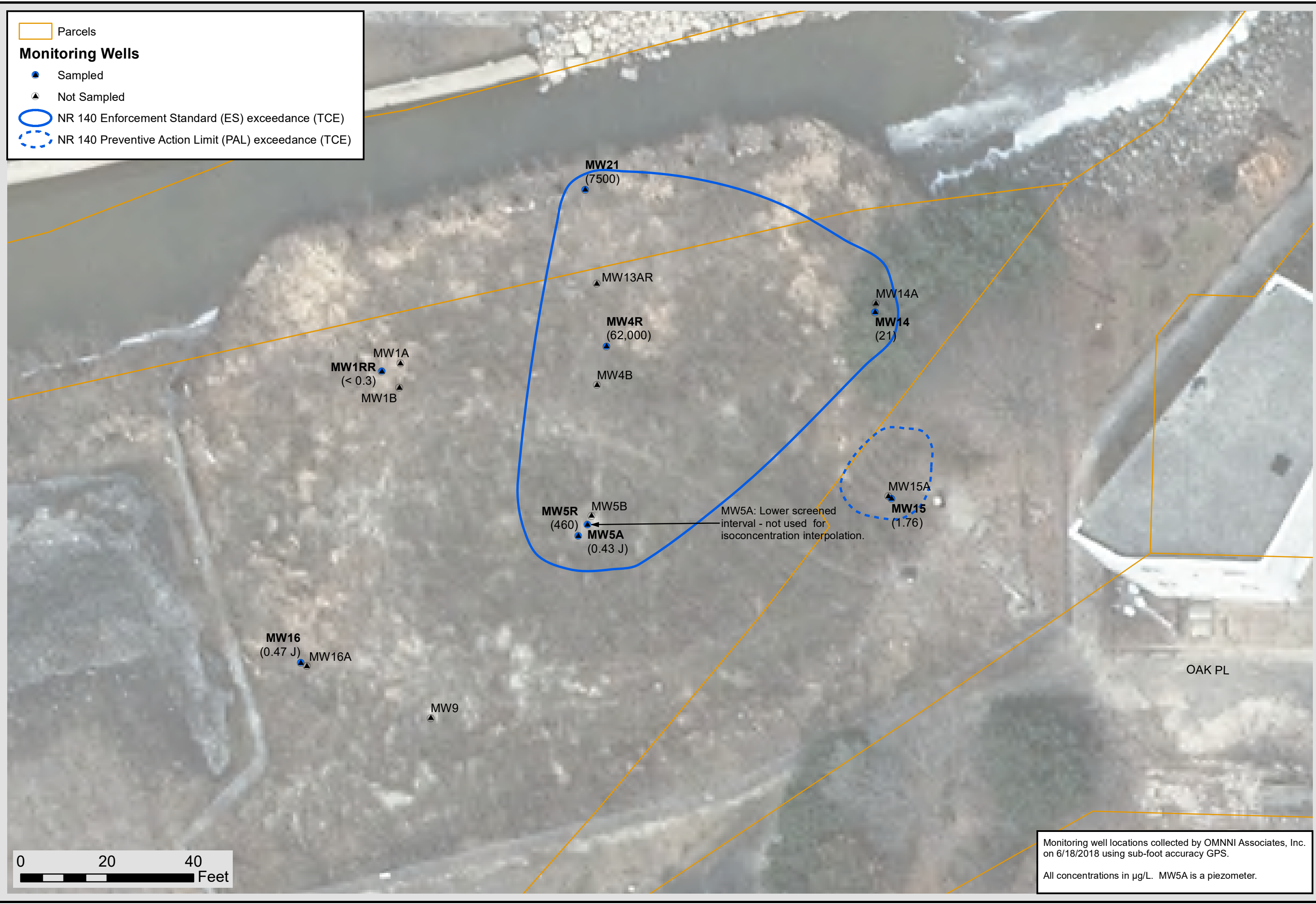
OMNNI ASSOCIATES
 ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 PHONE (920) 735-6900
 FAX (920) 830-0100

SCALE: 1" = 20'
 PROJECT NO. **N2232A18**
 FIGURE NO. **A-1**

Parcels
Monitoring Wells
● Sampled
▲ Not Sampled
 NR 140 Enforcement Standard (ES) exceedance (TCE)
 NR 140 Preventive Action Limit (PAL) exceedance (TCE)

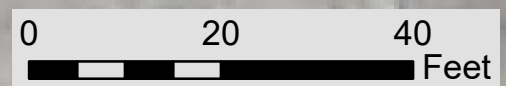


Project Manager: JCW
 Project Engineer: CJR
 Drawn By: CJR
 Checked By: CJR
 Date: 8/28/2018



QUICFREZ
GROUNDWATER ISOCONCENTRATION MAP FOR TCE
(7/18/2018)
 CITY OF FOND DU LAC, FOND DU LAC COUNTY, WISCONSIN

Omni
 ASSOCIATES
 ONE SYSTEMS DRIVE
 APPLETON, WI 54914
 PHONE (920) 735-6900
 FAX (920) 830-0100



Monitoring well locations collected by OMNNI Associates, Inc. on 6/18/2018 using sub-foot accuracy GPS.
 All concentrations in µg/L. MW5A is a piezometer.

SCALE: 1" = 20'
 PROJECT NO. **N2232A18**
 FIGURE NO. **A-1**

Project information:

Project Name: QuicFrez

Well ID: MW15

Date: 7/18/18

OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 17.84

Length of Water Column: 6.09

Depth of Water (ft. bgs): 11.75

Well Volume (c*0.165[for 2" dia. Pipe]): 1.00

Well Purging Data:

Purge Method: pump low flow

Minimum required purge volume (4 well volumes): 4.0

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
8:28	initial								Black Turb
8:55	2.0	15.88	7.27	14	4.24	2460	1.57	10.0	
9:08	3.0	15.82	7.33	19	4.00	2520	1.61	0.8	
9:21	4.0	16.10	7.41	34	6.00	2540	1.62	1.0	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: Low flow

Sample ID: MW15

Analysis: VOC

Sample Time: 9:21

Have groundwater parameters been met?

 Yes No

Explanation:

Additional Comments: stick up is 3.29'

OMNNI Representative Signature

Date



Groundwater Sampling Log

Project information:

ow 789

Project Name: QuicFrez

Well ID: MW16	Date: 7/18/18
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OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 15.4	Length of Water Column: 0.0 4.84
Depth of Water (ft. bgs): 10.56	Well Volume (c*0.165[for 2" dia. Pipe]): 0.8

Well Purging Data:

Purge Method: peristaltic pump low flow

Minimum required purge volume (4 well volumes): 3.2

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
8:06	Initial	Blocked							Black Sediment
8:44	2.5	16.39	6.73	22	3.75	2260	1.45	323	Brown
9:00	3.5	15.58	7.22	-56	3.77	2230	1.42	16.5	Mild VOC odor
9:12	4.5	15.25	7.30	-60	4.08	2130	1.36	2.7	
0928	5.5	15.64	7.36	-61	4.10	2050	1.31	1.6	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: Low Flow

Sample ID: MW16

Analysis: VOC

Sample Time: 9:28

Have groundwater parameters been met?

Yes No

Explanation:

Additional Comments: Struck up 2.46' sample 0920 VOC's

So-

OMNNI Representative Signature _____ Date _____



Groundwater Sampling Log

Project information:

00787

Project Name: QuicFrez

Well ID: MW14

Date: 7/10/18

OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 17.43

Length of Water Column: 7.10

Depth of Water (ft. bgs): 10.33

Well Volume (c*0.165[for 2" dia. Pipe]): 1.17

Well Purging Data:

Purge Method: low flow

Minimum required purge volume (4 well volumes): 4.68

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
Pump start		08.57							
10:16	1.5	16.07	7.77	-38	4.90	1500	0.960	2.8	
10:31	3.0	15.34	7.71	-29	4.08	1590	1.02	1.4	
10:50	5.0	15.26	7.71	-1	4.30	1580	1.01	0.6	
11:10	7.0	15.83	7.70	-2	4.37	1640	1.05	2.3	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: low flow

Have groundwater parameters been met?

Sample ID: MW14

Yes No

Analysis: VOC

Explanation:

Sample Time: 11:10

Additional Comments: 2.48 sticking

OMNNI Representative Signature

Date



Groundwater Sampling Log

J2631

Project information:

Project Name: QuicFrez

Well ID: MWIRR	Date: 7/18/18
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OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 17.67	Length of Water Column: 10.07
Depth of Water (ft. bgs): 7.62	Well Volume (c*0.165[for 2" dia. Pipe]): 1.66

Well Purging Data:

Purge Method: Peristaltic pump - Geo pump low flow

Minimum required purge volume (4 well volumes): 6.64

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
9:55	Initial								slight sediment
10:11	1.6	18.66	8.24	-60	4.21	446	0.290	6.8	clear
10:28	3.0	16.00	7.93	-113	15.89	449	0.324	10.3	smelt Mi 1d VOC
10:45	4.0	16.08	8.15	-93	6.11	481	0.312	8.9	Mild VOC odor
11:05	5.5	16.25	8.14	-76	4.59	465	0.302	6.0	
11:25	7.0	16.19	8.18	-82	4.49	475	0.308	4.8	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: Low Flow

Sample ID: MWIRR

Analysis: VOC

Sample Time: 11:25

Have groundwater parameters been met?

Yes No

Explanation:

Additional Comments: 2.67 stickup

OMNNI Representative Signature _____ Date _____

Groundwater Sampling Log

Project information:

Project Name: QuicFrez

Well ID: MW21

Date: 7/18/18

OMNNI Project Number: N2232A18

J1633

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 15.83

Length of Water Column: 6.19

Depth of Water (ft. bgs): 9.64

Well Volume (c*0.165[for 2" dia. Pipe]): 1.02

Well Purging Data:

Purge Method: Geo pump Low flow

Minimum required purge volume (4 well volumes): 4.08

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
11:43	Initial								slight turb
12:00	1.0	18.27	7.06	0.94	2.61	1550	0.994	11.9	
12:18	2.0	18.63	7.14	-108	3.08	1490	0.956	4.9	
12:38	3.0	18.26	7.23	-120	3.18	1470	0.941	0.8	
12:55	4.5	18.32	7.25	-124	3.19	1410	0.902	1.0	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: Low flow

Sample ID: MW21

Analysis: VDC

Sample Time: 12:55

Have groundwater parameters been met?

Yes No

Explanation:

Additional Comments: stick up 3.79 (low side).

OMNNI Representative Signature

Date

51635

Project information:

Project Name: QuicFrez

Well ID: MW4R	Date: 7/18/18
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OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 17.54	Length of Water Column: 9.93
Depth of Water (ft. bgs): 2.91	Well Volume (c*0.165[for 2" dia. Pipe]): 1.61

Well Purging Data:

Purge Method: Geopump - low flow

Minimum required purge volume (4 well volumes): 6.44

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
11:30	initial								
11:55	1.75	17.98	7.19	-18	12.37	1270	0.815	8.1	
12:13	3.5	17.88	7.08	8	3.66	1700	1.09	3.2	
12:33	5.0	17.73	7.04	-10	3.26	2160	1.38	6.7	
12:58	7.5	17.79	7.04	-13	3.09	2290	1.53	7.8	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: Low flow

Sample ID: MW4R

Analysis: VOC

Sample Time: 1258

Have groundwater parameters been met?

Yes No

Explanation: _____

Additional Comments: 2.90 stickup 1258 sample
VOC's

OMNNI Representative Signature

Date



Groundwater Sampling Log

51632

Project information:

Project Name: QuicFrez

Well ID: MWSR

Date: 7/18/18

OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 18.22

Length of Water Column: 9.51

Depth of Water (ft. bgs): 8.71

Well Volume (c*0.165[for 2" dia. Pipe]): 1.6

Well Purging Data:

Purge Method: Geo pump low flow

Minimum required purge volume (4 well volumes): 6.4

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
1:20	initial								
1:35	1.5	18.29	7.42	-117	3.60	1830	1.17	34.1	
1:55	3.0	18.18	7.34	-139	2.67	1610	1.03	20.8	
2:12	4.5	18.06	7.36	-139	3.81	2010	1.29	6.0	
2:35	6.5	18.09	7.34	-126	1.93	2280	1.46	2.2	

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: low flow

Sample ID: MWSR

Analysis: Vol

Sample Time: 2:35

Have groundwater parameters been met?

Yes No

Explanation:

Additional Comments: 2.94 stip

OMNNI Representative Signature

Date



Groundwater Sampling Log

Project information:

PD865

Project Name: QuicFrez

Well ID: MW5A

Date: 7/18/18

OMNNI Project Number: N2232A18

Project Address: 105 Oak Place, Fond Du Lac, WI

OMNNI Representative: Christopher Rogers / Quin Lenz

Water Quality Meter (Make, Model, S/N): Horiba U-52, HGS NO. YYK5E939

Water Level Information:

Total Well Length: 32.49

Length of Water Column: 23.97

Depth of Water (ft. bgs): 8.92

Well Volume (c*0.165[for 2" dia. Pipe]): 3.96

Well Purging Data:

Purge Method: Geopump low flow

Minimum required purge volume (4 well volumes): 15.84

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
1:20	initial								
1:52	4.0	18.89	8.72	-22	5.70	7790	0.498	127	
2:17	7.0								Dry

Temp = Degrees Celsius

COND = Electrical conductivity

ORP = Oxidation Reduction Potential

TDS = Total Dissolved Solids [expressed as electrical conductivity]

DO = Dissolved Oxygen

TURB = Turbidity [LED transmission/front 30° scattering method]

Method of sampling: Low flow

Sample ID: MW5A

Analysis: VOL

Sample Time: 2:50

Have groundwater parameters been met?

Yes No

Explanation:

Additional Comments: Startup is 2.92

collected sample after well produced water / Recharged

OMNNI Representative Signature

Date

Attachment C - Water Level Elevations
 QuicFrez, BRRTS #:02-20-118383

Well I.D. <i>WI Unique Well No.</i>	DNR Well ID Number	WTM 83(91)		Date Installed	Top of PVC Casing Elevation (ft msl)	Ground Surface Elevation (ft msl)	Depth to Bottom of Well from PVC (ft)	Screen Length (ft)	Screen Elevation (ft msl)		Depth to Water			
		X(m)	Y(m)						Top	Bottom	Date	Below Casing (ft)	Below Ground Surface (ft)	Elevation (ft msl)
MW1RR	J1631	644600.1721	367785.842	3/15/2002	756.58	753.91	17.70	10	748.88	738.88	07/18/18	7.62	4.95	748.96
MW4R	J1635	644615.9835	367787.8825	10/3/2006	757.40	754.50	17.60	10	749.80	739.80	07/18/18	7.91	5.24	748.67
MW5A	PD865	644614.8646	367775.2856	2/22/2002	760.09	757.17	32.80	5	732.29	727.29	07/18/18	8.92	6.25	747.66
MW5R	J1632	644614.2371	367774.4925	10/4/2006	760.27	757.33	18.20	10	752.07	742.07	07/18/18	8.71	5.77	751.56
MW14	OW786	644634.8778	367790.6425	2/10/2004	759.70	757.22	17.40	10	752.30	742.30	07/18/18	10.33	7.39	749.94
MW15	OW791	644636.2654	367777.516	2/11/2004	761.30	758.01	17.80	10	753.50	743.50	07/18/18	11.75	8.81	748.52
MW16	OW789	644594.8315	367765.2088	2/10/2004	759.79	757.33	15.40	10	754.39	744.39	07/18/18	10.56	8.10	749.23
MW21	J1633	644614.2834	367798.891	10/3/2006	755.23	751.44	15.80	10	749.43	739.43	07/18/18	9.64	7.18	750.15

QuicFrez

Attachment D. - Groundwater Analytical Results Table

Detected Volatile Organic Compounds (VOC) (µg/L)

Chemical Name		n-Propylbenzene	1,2-Dichloroethane	Toluene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	m&p-Xylene	Carbon Tetrachloride	Chloroform	Benzene	Chloromethane	Vinyl Chloride	1,1-Dichloroethene	Trichloroethene (TCE)	o-Xylene	1,2,4-Trimethylbenzene	Isopropylbenzene	
ES (µg/L)		5	1000	70	100		5	6	5	30	0.2	7	5					
PAL (µg/L)		0.5	200	7	20		0.5	0.6	0.5	3	0.02	0.7	0.5					
strWellName	Date	100-41-4	103-65-1	107-06-2	108-88-3	156-59-2	156-60-5	179601-23-1	56-23-5	67-66-3	71-43-2	74-87-3	75-01-4	75-35-4	79-01-6	95-47-6	95-63-6	98-82-8
MW1RR	7/18/2018	0.8 J	< 0.61	< 0.25	0.27 J	5.1	< 0.34	< 0.43	< 0.31	< 0.26	7.2	0.79 J	4	< 0.42	< 0.3	< 0.29	< 0.8	< 0.78
MW4R	7/18/2018	< 520	< 1220	< 500	< 380	282000	760 J	< 860	< 620	< 520	< 440	< 1080	4000	920 J	62000	< 580	< 1600	< 1560
MW5A	7/18/2018	9.1	1.63 J	< 0.25	0.4 J	15.6	1.59	2.24	< 0.31	< 0.26	2.77	< 0.54	17.1	< 0.42	0.43 J	0.96	7.9	0.94 J
MW5R	7/18/2018	< 13	< 30.5	< 12.5	< 9.5	1140	< 17	< 21.5	< 15.5	< 13	< 11	< 27	590	< 21	460	< 14.5	< 40	< 39
MW14	7/18/2018	< 0.26	< 0.61	0.32 J	< 0.19	78	1.99	< 0.43	< 0.31	< 0.26	0.43 J	< 0.54	15.5	< 0.42	21	< 0.29	< 0.8	< 0.78
MW15	7/18/2018	< 0.26	< 0.61	< 0.25	< 0.19	2.62	< 0.34	< 0.43	0.34 J	1.81	< 0.22	< 0.54	0.66	< 0.42	1.76	< 0.29	< 0.8	< 0.78
MW16	7/18/2018	< 0.26	< 0.61	< 0.25	< 0.19	3.2	< 0.34	< 0.43	< 0.31	< 0.26	0.3 J	0.57 J	1.35	< 0.42	0.47 J	< 0.29	< 0.8	< 0.78
MW21	7/18/2018	58	< 30.5	< 12.5	62	35000	142	40 J	< 15.5	< 13	93	< 27	5800	94	7500	25.5 J	< 40	< 39

BOLD entries indicate concentration detected above NR 140 Enforcement Standard (ES)

Italic entries indicate concentration above NR 140 Preventive Action Limit (PAL)

J = Analyte detected between the limit of detection and limit of quantitation.

All concentrations in µg/L.

	Detect in groundwater exceeding ES
	Detect in groundwater exceeding PAL
	Detect in groundwater between LOD and PAL

February 2017 NR 140 PAL and ES values used.

Synergy Environmental Lab, INC.

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

CHRIS ROGERS
OMNNI ASSOCIATES INC
ONE SYSTEMS DRIVE
APPLETON WI 54914-1654

Report Date 01-Aug-18

Project Name QUICFREZ
Project # N2232A18
Lab Code 5034957A
Sample ID MW15
Sample Matrix Water
Sample Date 7/18/2018

Invoice # E34957

	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		7/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/26/2018	CJR	1
Carbon Tetrachloride	0.34 "J"	ug/l	0.31	0.98	1	8260B		7/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/26/2018	CJR	1
Chloroform	1.81	ug/l	0.26	0.82	1	8260B		7/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/26/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/26/2018	CJR	1
cis-1,2-Dichloroethene	2.62	ug/l	0.37	1.16	1	8260B		7/26/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/26/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957A
Sample ID MW15
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B	7/26/2018	7/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B	7/26/2018	7/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B	7/26/2018	7/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B	7/26/2018	7/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B	7/26/2018	7/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B	7/26/2018	7/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B	7/26/2018	7/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B	7/26/2018	7/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B	7/26/2018	7/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B	7/26/2018	7/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B	7/26/2018	7/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B	7/26/2018	7/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B	7/26/2018	7/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B	7/26/2018	7/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B	7/26/2018	7/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B	7/26/2018	7/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B	7/26/2018	7/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B	7/26/2018	7/26/2018	CJR	1
Trichloroethene (TCE)	1.76	ug/l	0.3	0.94	1	8260B	7/26/2018	7/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B	7/26/2018	7/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B	7/26/2018	7/26/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B	7/26/2018	7/26/2018	CJR	1
Vinyl Chloride	0.66	ug/l	0.2	0.65	1	8260B	7/26/2018	7/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B	7/26/2018	7/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957B
 Sample ID MW16
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	0.30 "J"	ug/l	0.22	0.71	1	8260B		7/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/23/2018	CJR	1
Chloromethane	0.57 "J"	ug/l	0.54	1.72	1	8260B		7/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/23/2018	CJR	1
cis-1,2-Dichloroethene	3.2	ug/l	0.37	1.16	1	8260B		7/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/23/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/23/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/23/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/23/2018	CJR	1
Trichloroethene (TCE)	0.47 "J"	ug/l	0.3	0.94	1	8260B		7/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957B
Sample ID MW16
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/23/2018	CJR	1
Vinyl Chloride	1.35	ug/l	0.2	0.65	1	8260B		7/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		7/23/2018	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/23/2018	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		7/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957C
 Sample ID MW14
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	0.43 "J"	ug/l	0.22	0.71	1	8260B		7/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/26/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/26/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/26/2018	CJR	1
1,2-Dichloroethane	0.32 "J"	ug/l	0.25	0.78	1	8260B		7/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/26/2018	CJR	1
cis-1,2-Dichloroethene	78	ug/l	0.37	1.16	1	8260B		7/26/2018	CJR	1
trans-1,2-Dichloroethene	1.99	ug/l	0.34	1.07	1	8260B		7/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/26/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/26/2018	CJR	1
Trichloroethene (TCE)	21	ug/l	0.3	0.94	1	8260B		7/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/26/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957C
Sample ID MW14
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B	7/26/2018	7/26/2018	CJR	1
Vinyl Chloride	15.5	ug/l	0.2	0.65	1	8260B	7/26/2018	7/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B	7/26/2018	7/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B	7/26/2018	7/26/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957D
 Sample ID MW1RR
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	7.2	ug/l	0.22	0.71	1	8260B		7/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/23/2018	CJR	1
Chloromethane	0.79 "J"	ug/l	0.54	1.72	1	8260B		7/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/23/2018	CJR	1
cis-1,2-Dichloroethene	5.1	ug/l	0.37	1.16	1	8260B		7/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/23/2018	CJR	1
Ethylbenzene	0.80 "J"	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/23/2018	CJR	1
Toluene	0.27 "J"	ug/l	0.19	0.6	1	8260B		7/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/23/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/23/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957D
Sample ID MW1RR
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/23/2018	CJR	1
Vinyl Chloride	4.0	ug/l	0.2	0.65	1	8260B		7/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/23/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		7/23/2018	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		7/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		7/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957E
 Sample ID MW21
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	93	ug/l	11	35.5	50	8260B		7/23/2018	CJR	1
Bromobenzene	< 22	ug/l	22	69	50	8260B		7/23/2018	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		7/23/2018	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		7/23/2018	CJR	1
tert-Butylbenzene	< 12.5	ug/l	12.5	40	50	8260B		7/23/2018	CJR	1
sec-Butylbenzene	< 39.5	ug/l	39.5	126.5	50	8260B		7/23/2018	CJR	1
n-Butylbenzene	< 35.5	ug/l	35.5	112.5	50	8260B		7/23/2018	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		7/23/2018	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		7/23/2018	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		7/23/2018	CJR	1
Chloroform	< 13	ug/l	13	41	50	8260B		7/23/2018	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		7/23/2018	CJR	1
2-Chlorotoluene	< 15.5	ug/l	15.5	49	50	8260B		7/23/2018	CJR	1
4-Chlorotoluene	< 13	ug/l	13	41.5	50	8260B		7/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471.5	50	8260B		7/23/2018	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		7/23/2018	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		7/23/2018	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		7/23/2018	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		7/23/2018	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		7/23/2018	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		7/23/2018	CJR	1
1,1-Dichloroethane	< 18	ug/l	18	57	50	8260B		7/23/2018	CJR	1
1,1-Dichloroethene	94	ug/l	21	67	50	8260B		7/23/2018	CJR	1
cis-1,2-Dichloroethene	35000	ug/l	185	580	500	8260B		7/26/2018	CJR	1
trans-1,2-Dichloroethene	142	ug/l	17	53.5	50	8260B		7/23/2018	CJR	1
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		7/23/2018	CJR	1
1,3-Dichloropropane	< 15	ug/l	15	47	50	8260B		7/23/2018	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		7/23/2018	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		7/23/2018	CJR	1
Di-isopropyl ether	< 10.5	ug/l	10.5	33	50	8260B		7/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		7/23/2018	CJR	1
Ethylbenzene	58	ug/l	13	41.5	50	8260B		7/23/2018	CJR	1
Hexachlorobutadiene	< 67	ug/l	67	214	50	8260B		7/23/2018	CJR	1
Isopropylbenzene	< 39	ug/l	39	123.5	50	8260B		7/23/2018	CJR	1
p-Isopropyltoluene	< 12	ug/l	12	38	50	8260B		7/23/2018	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		7/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		7/23/2018	CJR	1
Naphthalene	< 105	ug/l	105	332.5	50	8260B		7/23/2018	CJR	1
n-Propylbenzene	< 30.5	ug/l	30.5	97.5	50	8260B		7/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 15	ug/l	15	48.5	50	8260B		7/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 17.5	ug/l	17.5	56.5	50	8260B		7/23/2018	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		7/23/2018	CJR	1
Toluene	62	ug/l	9.5	30	50	8260B		7/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 57.5	ug/l	57.5	183.5	50	8260B		7/23/2018	CJR	1
1,2,3-Trichlorobenzene	< 85.5	ug/l	85.5	271.5	50	8260B		7/23/2018	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	52.5	50	8260B		7/23/2018	CJR	1
1,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		7/23/2018	CJR	1
Trichloroethene (TCE)	7500	ug/l	15	47	50	8260B		7/23/2018	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		7/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 40	ug/l	40	127.5	50	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957E
Sample ID MW21
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 31.5	ug/l	31.5	100	50	8260B	7/23/2018	7/23/2018	CJR	1
Vinyl Chloride	5800	ug/l	10	32.5	50	8260B	7/23/2018	7/23/2018	CJR	1
m&p-Xylene	40 "J"	ug/l	21.5	69	50	8260B	7/23/2018	7/23/2018	CJR	1
o-Xylene	25.5 "J"	ug/l	14.5	46.5	50	8260B	7/23/2018	7/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			50	8260B	7/23/2018	7/23/2018	CJR	1
SUR - Dibromofluoromethane	98	REC %			50	8260B	7/23/2018	7/23/2018	CJR	1
SUR - Toluene-d8	103	REC %			50	8260B	7/23/2018	7/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			50	8260B	7/23/2018	7/23/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957F
 Sample ID MW4R
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 440	ug/l	440	1420	2000	8260B		7/23/2018	CJR	1
Bromobenzene	< 880	ug/l	880	2760	2000	8260B		7/23/2018	CJR	1
Bromodichloromethane	< 660	ug/l	660	2120	2000	8260B		7/23/2018	CJR	1
Bromoform	< 900	ug/l	900	2880	2000	8260B		7/23/2018	CJR	1
tert-Butylbenzene	< 500	ug/l	500	1600	2000	8260B		7/23/2018	CJR	1
sec-Butylbenzene	< 1580	ug/l	1580	5060	2000	8260B		7/23/2018	CJR	1
n-Butylbenzene	< 1420	ug/l	1420	4500	2000	8260B		7/23/2018	CJR	1
Carbon Tetrachloride	< 620	ug/l	620	1960	2000	8260B		7/23/2018	CJR	1
Chlorobenzene	< 520	ug/l	520	1660	2000	8260B		7/23/2018	CJR	1
Chloroethane	< 1220	ug/l	1220	3900	2000	8260B		7/23/2018	CJR	1
Chloroform	< 520	ug/l	520	1640	2000	8260B		7/23/2018	CJR	1
Chloromethane	< 1080	ug/l	1080	3440	2000	8260B		7/23/2018	CJR	1
2-Chlorotoluene	< 620	ug/l	620	1960	2000	8260B		7/23/2018	CJR	1
4-Chlorotoluene	< 520	ug/l	520	1660	2000	8260B		7/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 5920	ug/l	5920	18860	2000	8260B		7/23/2018	CJR	1
Dibromochloromethane	< 440	ug/l	440	1380	2000	8260B		7/23/2018	CJR	1
1,4-Dichlorobenzene	< 1400	ug/l	1400	4440	2000	8260B		7/23/2018	CJR	1
1,3-Dichlorobenzene	< 1700	ug/l	1700	5400	2000	8260B		7/23/2018	CJR	1
1,2-Dichlorobenzene	< 1720	ug/l	1720	5480	2000	8260B		7/23/2018	CJR	1
Dichlorodifluoromethane	< 640	ug/l	640	2040	2000	8260B		7/23/2018	CJR	1
1,2-Dichloroethane	< 500	ug/l	500	1560	2000	8260B		7/23/2018	CJR	1
1,1-Dichloroethane	< 720	ug/l	720	2280	2000	8260B		7/23/2018	CJR	1
1,1-Dichloroethene	920 "J"	ug/l	840	2680	2000	8260B		7/23/2018	CJR	1
cis-1,2-Dichloroethene	282000	ug/l	740	2320	2000	8260B		7/23/2018	CJR	1
trans-1,2-Dichloroethene	760 "J"	ug/l	680	2140	2000	8260B		7/23/2018	CJR	1
1,2-Dichloropropane	< 880	ug/l	880	2780	2000	8260B		7/23/2018	CJR	1
1,3-Dichloropropane	< 600	ug/l	600	1880	2000	8260B		7/23/2018	CJR	1
trans-1,3-Dichloropropene	< 640	ug/l	640	2020	2000	8260B		7/23/2018	CJR	1
cis-1,3-Dichloropropene	< 520	ug/l	520	1620	2000	8260B		7/23/2018	CJR	1
Di-isopropyl ether	< 420	ug/l	420	1320	2000	8260B		7/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 680	ug/l	680	2180	2000	8260B		7/23/2018	CJR	1
Ethylbenzene	< 520	ug/l	520	1660	2000	8260B		7/23/2018	CJR	1
Hexachlorobutadiene	< 2680	ug/l	2680	8560	2000	8260B		7/23/2018	CJR	1
Isopropylbenzene	< 1560	ug/l	1560	4940	2000	8260B		7/23/2018	CJR	1
p-Isopropyltoluene	< 480	ug/l	480	1520	2000	8260B		7/23/2018	CJR	1
Methylene chloride	< 2640	ug/l	2640	8420	2000	8260B		7/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 560	ug/l	560	1780	2000	8260B		7/23/2018	CJR	1
Naphthalene	< 4200	ug/l	4200	13300	2000	8260B		7/23/2018	CJR	1
n-Propylbenzene	< 1220	ug/l	1220	3900	2000	8260B		7/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 600	ug/l	600	1940	2000	8260B		7/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 700	ug/l	700	2260	2000	8260B		7/23/2018	CJR	1
Tetrachloroethene	< 760	ug/l	760	2420	2000	8260B		7/23/2018	CJR	1
Toluene	< 380	ug/l	380	1200	2000	8260B		7/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 2300	ug/l	2300	7340	2000	8260B		7/23/2018	CJR	1
1,2,3-Trichlorobenzene	< 3420	ug/l	3420	10860	2000	8260B		7/23/2018	CJR	1
1,1,1-Trichloroethane	< 660	ug/l	660	2100	2000	8260B		7/23/2018	CJR	1
1,1,2-Trichloroethane	< 840	ug/l	840	2640	2000	8260B		7/23/2018	CJR	1
Trichloroethene (TCE)	62000	ug/l	600	1880	2000	8260B		7/23/2018	CJR	1
Trichlorofluoromethane	< 700	ug/l	700	2200	2000	8260B		7/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 1600	ug/l	1600	5100	2000	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957F
Sample ID MW4R
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 1260	ug/l	1260	4000	2000	8260B	7/23/2018	7/23/2018	CJR	1
Vinyl Chloride	4000	ug/l	400	1300	2000	8260B	7/23/2018	7/23/2018	CJR	1
m&p-Xylene	< 860	ug/l	860	2760	2000	8260B	7/23/2018	7/23/2018	CJR	1
o-Xylene	< 580	ug/l	580	1860	2000	8260B	7/23/2018	7/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			2000	8260B	7/23/2018	7/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			2000	8260B	7/23/2018	7/23/2018	CJR	1
SUR - Dibromofluoromethane	99	REC %			2000	8260B	7/23/2018	7/23/2018	CJR	1
SUR - Toluene-d8	100	REC %			2000	8260B	7/23/2018	7/23/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957G
 Sample ID MW5R
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 11	ug/l	11	35.5	50	8260B		7/23/2018	CJR	1
Bromobenzene	< 22	ug/l	22	69	50	8260B		7/23/2018	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		7/23/2018	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		7/23/2018	CJR	1
tert-Butylbenzene	< 12.5	ug/l	12.5	40	50	8260B		7/23/2018	CJR	1
sec-Butylbenzene	< 39.5	ug/l	39.5	126.5	50	8260B		7/23/2018	CJR	1
n-Butylbenzene	< 35.5	ug/l	35.5	112.5	50	8260B		7/23/2018	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		7/23/2018	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		7/23/2018	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		7/23/2018	CJR	1
Chloroform	< 13	ug/l	13	41	50	8260B		7/23/2018	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		7/23/2018	CJR	1
2-Chlorotoluene	< 15.5	ug/l	15.5	49	50	8260B		7/23/2018	CJR	1
4-Chlorotoluene	< 13	ug/l	13	41.5	50	8260B		7/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471.5	50	8260B		7/23/2018	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		7/23/2018	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		7/23/2018	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		7/23/2018	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		7/23/2018	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		7/23/2018	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		7/23/2018	CJR	1
1,1-Dichloroethane	< 18	ug/l	18	57	50	8260B		7/23/2018	CJR	1
1,1-Dichloroethene	< 21	ug/l	21	67	50	8260B		7/23/2018	CJR	1
cis-1,2-Dichloroethene	1140	ug/l	18.5	58	50	8260B		7/23/2018	CJR	1
trans-1,2-Dichloroethene	< 17	ug/l	17	53.5	50	8260B		7/23/2018	CJR	1
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		7/23/2018	CJR	1
1,3-Dichloropropane	< 15	ug/l	15	47	50	8260B		7/23/2018	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		7/23/2018	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		7/23/2018	CJR	1
Di-isopropyl ether	< 10.5	ug/l	10.5	33	50	8260B		7/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		7/23/2018	CJR	1
Ethylbenzene	< 13	ug/l	13	41.5	50	8260B		7/23/2018	CJR	1
Hexachlorobutadiene	< 67	ug/l	67	214	50	8260B		7/23/2018	CJR	1
Isopropylbenzene	< 39	ug/l	39	123.5	50	8260B		7/23/2018	CJR	1
p-Isopropyltoluene	< 12	ug/l	12	38	50	8260B		7/23/2018	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		7/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		7/23/2018	CJR	1
Naphthalene	< 105	ug/l	105	332.5	50	8260B		7/23/2018	CJR	1
n-Propylbenzene	< 30.5	ug/l	30.5	97.5	50	8260B		7/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 15	ug/l	15	48.5	50	8260B		7/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 17.5	ug/l	17.5	56.5	50	8260B		7/23/2018	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		7/23/2018	CJR	1
Toluene	< 9.5	ug/l	9.5	30	50	8260B		7/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 57.5	ug/l	57.5	183.5	50	8260B		7/23/2018	CJR	1
1,2,3-Trichlorobenzene	< 85.5	ug/l	85.5	271.5	50	8260B		7/23/2018	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	52.5	50	8260B		7/23/2018	CJR	1
1,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		7/23/2018	CJR	1
Trichloroethene (TCE)	460	ug/l	15	47	50	8260B		7/23/2018	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		7/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 40	ug/l	40	127.5	50	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957G
Sample ID MW5R
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 31.5	ug/l	31.5	100	50	8260B		7/23/2018	CJR	1
Vinyl Chloride	590	ug/l	10	32.5	50	8260B		7/23/2018	CJR	1
m&p-Xylene	< 21.5	ug/l	21.5	69	50	8260B		7/23/2018	CJR	1
o-Xylene	< 14.5	ug/l	14.5	46.5	50	8260B		7/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			50	8260B		7/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			50	8260B		7/23/2018	CJR	1
SUR - Dibromofluoromethane	99	REC %			50	8260B		7/23/2018	CJR	1
SUR - Toluene-d8	100	REC %			50	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
 Project # N2232A18

Invoice # E34957

Lab Code 5034957H
 Sample ID MW5A
 Sample Matrix Water
 Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	2.77	ug/l	0.22	0.71	1	8260B		7/27/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/27/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/27/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/27/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/27/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/27/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/27/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/27/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/27/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/27/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/27/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/27/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/27/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/27/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/27/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/27/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/27/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/27/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/27/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/27/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/27/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/27/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/27/2018	CJR	1
cis-1,2-Dichloroethene	15.6	ug/l	0.37	1.16	1	8260B		7/27/2018	CJR	1
trans-1,2-Dichloroethene	1.59	ug/l	0.34	1.07	1	8260B		7/27/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/27/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/27/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/27/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/27/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/27/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/27/2018	CJR	1
Ethylbenzene	9.1	ug/l	0.26	0.83	1	8260B		7/27/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/27/2018	CJR	1
Isopropylbenzene	0.94 "J"	ug/l	0.78	2.47	1	8260B		7/27/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/27/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/27/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/27/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/27/2018	CJR	1
n-Propylbenzene	1.63 "J"	ug/l	0.61	1.95	1	8260B		7/27/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/27/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/27/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/27/2018	CJR	1
Toluene	0.40 "J"	ug/l	0.19	0.6	1	8260B		7/27/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/27/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/27/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/27/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/27/2018	CJR	1
Trichloroethene (TCE)	0.43 "J"	ug/l	0.3	0.94	1	8260B		7/27/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/27/2018	CJR	1
1,2,4-Trimethylbenzene	7.9	ug/l	0.8	2.55	1	8260B		7/27/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957H
Sample ID MW5A
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2 1	8260B		7/27/2018	CJR	1
Vinyl Chloride	17.1	ug/l	0.2	0.65	1	8260B		7/27/2018	CJR	1
m&p-Xylene	2.24	ug/l	0.43	1.38	1	8260B		7/27/2018	CJR	1
o-Xylene	0.96	ug/l	0.29	0.93	1	8260B		7/27/2018	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		7/27/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		7/27/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		7/27/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/27/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957I
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/18/2018

	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		7/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/23/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/23/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/23/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/23/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/23/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/23/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/23/2018	CJR	1

Project Name QUICFREZ
Project # N2232A18

Invoice # E34957

Lab Code 5034957I
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/18/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2 1	8260B		7/23/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/23/2018	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		7/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		7/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		7/23/2018	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		7/23/2018	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



Michael J. Steel

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 #: **N2232A18**
Sampler: (signature) *[Signature]*

Project (Name / Location): **QuicFreez**
Reports To: **Chris Rogers** Invoice To: _____
Company: **OMNI Associates** Company: _____
Address: **1 N. System Dr** Address: _____
City State Zip: **Appleton WI 54914** City State Zip: **SAME**
Phone: **920 735-6900** 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 542.2)	VOC (EPA 8260)	PCRA METALS		PID/FID				
												X	X						
												X	X						
												X	X						
												X	X						
												X	X						
												X	X						
												X	X						
												X	X						
												X	X						
												X	X						

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y:N	No. of Containers	Sample Type (Matrix)	Preservation
S054957 A	MW15	7/18	9:21		X	N	3	GW	HCL
B	MW16	7/18	9:28		X	N	3	GW	HCL
C	MW14		11:10		X				
D	MW1RR		11:25						
E	MW21		12:55						
F	MW4R		12:58						
G	MW5R		2:35						
H	MW5A		2:50						
I	TRIP BLANK		9:21						

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: **dry**
Temp. of Temp. Blank _____ °C on Ice
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) *[Signature]* Time: **8:04** Date: **7/19/18**
Received By: (sign) _____ Time: _____ Date: _____

Received in Laboratory By: *[Signature]* Time: **8:04** Date: **7/19/18**