ENGINEERING
ARCHITECTURE
ENVIRONMENTAL

OMNNI ASSOCIATES
a Westwood company

ONE SYSTEMS DRIVE
APPLETON, WI 54914-1654
1-800-571-6677
920-735-6900
FAX 920-830-6100

October 2, 2019

Ms. Jennifer Borski
Hydrogeologist
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700
Oshkosh, Wisconsin 54901-9731

Re: Site Status Update for Valley Premier Property (Former) – BRRTS #02-45-580876
OMNNI Project Number: N2214K18

Dear Ms. Borski:

OMNNI Associates, Inc. (OMNNI) performed an additional round of groundwater sampling on July 1, 2019 (Third Quarter) the Valley Premier Property (former) site located at 222 N. Oneida Street in Appleton, Wisconsin (Figure 1 – Site Location Map, attached). The following is an update of the work completed, discussion, and summary of results.

Background:

The March 2019 sampling event detected volatile organic compounds (VOCs) exceeding the Wisconsin Administrative (Wis. Adm.) Code NR 140 Preventive Action Limit (PAL) and Enforcement Standards (ES) in four of the six wells that were sampled. Based on the analytical results from March 2019 sampling event, OMNNI and the DNR discussed the need to obtain additional groundwater samples from monitoring wells with VOC exceedances. The groundwater monitoring wells with exceedances included MW2, MW3, MW4, and MW5 which were recommended for an additional round of sampling for VOCs (see Figure 2 – Detailed Site Map, attached).

Work Conducted:

On July 1, 2019, OMNNI mobilized to the site to collect groundwater samples from monitoring wells MW2, MW3, MW4 and MW5. The wells were purged prior to sample collection (see Groundwater Sampling Records, Water Level Elevations, attached). All purged groundwater was containerized in 55-gallon drums pending disposal. The groundwater samples were sent to Synergy Environmental Lab, Inc. for VOC analysis (see Laboratory Analytical Results, attached).

Results & Discussion:

Laboratory analytical data revealed detections for VOCs in each of the groundwater monitoring wells sampled during the July 1, 2019 sampling event except for MW5 (see Figure 3 – Isoconcentration Map, attached). 1,2-dichloroethene (1,2 DCE) was detected in monitoring wells MW2 (3.2 micrograms per liter (ug/L)), exceeding the preventive action limit (PAL), and at MW4 (5 ug/L) and MW3 (6.8 ug/L) exceeding the enforcement standard (ES) (see Table 1 – Groundwater Analytical Results, and Laboratory Analytical Results, attached). Benzene was detected at MW2 (1 ug/L), MW3 (0.77 ug/L) exceeding the PAL, and at MW4 (8.9 ug/L) exceeding the ES (see Table 1 – Groundwater Analytical Results, and Laboratory Analytical Results, attached).

Based on a review of the data from the site, it appears that 1,2-DCE decreased in concentration from the March 2019 sampling event in monitoring wells MW2, MW3, and MW5. The concentration of 1,2-DCE increased slightly from the March 2019 sampling event at MW4. This is likely attributed to seasonal variation.

Benzene concentrations from the March 2019 sampling event decreased in monitoring wells MW3 and MW5. However, the concentration of benzene increased from the March 2019 sampling event in monitoring wells MW2 and MW4. This can also be attributed to seasonal variation. However, the result confirmed the presence of benzene on the site at levels above the enforcement standard in monitoring well MW4.

The groundwater flow during the March 2019 event had a south-southwest flow direction (see Figure 4a – Groundwater Flow Direction Map, and Table 2 – Water Level Elevations, attached). Due to the abnormal water level elevations during the March 2019 event, OMNNI collected water level elevations on May 15, 2019 which indicated a south-southwest flow direction (see Figure 4b – Ground Water Flow Direction Map, and Water Level Elevations, attached). Groundwater flow direction at the site during the July sampling event was also in a south-southwest direction towards the Fox River (see Figure 4c – Groundwater Flow Direction Map, and Water Level Elevations, attached).

Conclusion:

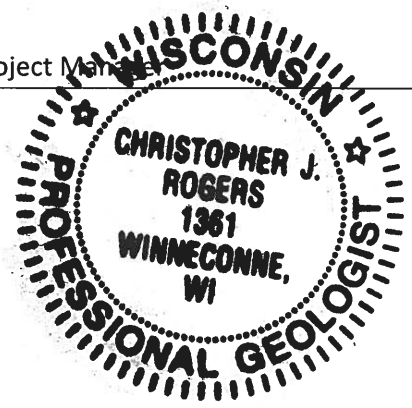
Based on the results from the July sampling event, the groundwater impacts for benzene and 1,2, DCE has not been fully delineated. An upgradient monitoring well defining the northern extent of benzene and 1,2 DCE impacts will likely be necessary to achieve closure.

The site has obtained an LGU exemption, and therefore quarterly groundwater sampling events are not required. However, OMNNI will be discussing options with the City of Appleton to close this case. Options to be discussed are: continuing quarterly monitoring to better define the degree and extent of benzene and 1,2-DCE impacts at the site. Additionally, OMNNI will discuss the installation of one upgradient NR 141 groundwater monitoring well to define the northern extent of benzene and 1,2 DCE groundwater impacts.

Professional 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."

	Hydrogeologist/Project Manager	10/2/2019
Signature	Title	Date



Sincerely,

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

Enclosure(s)

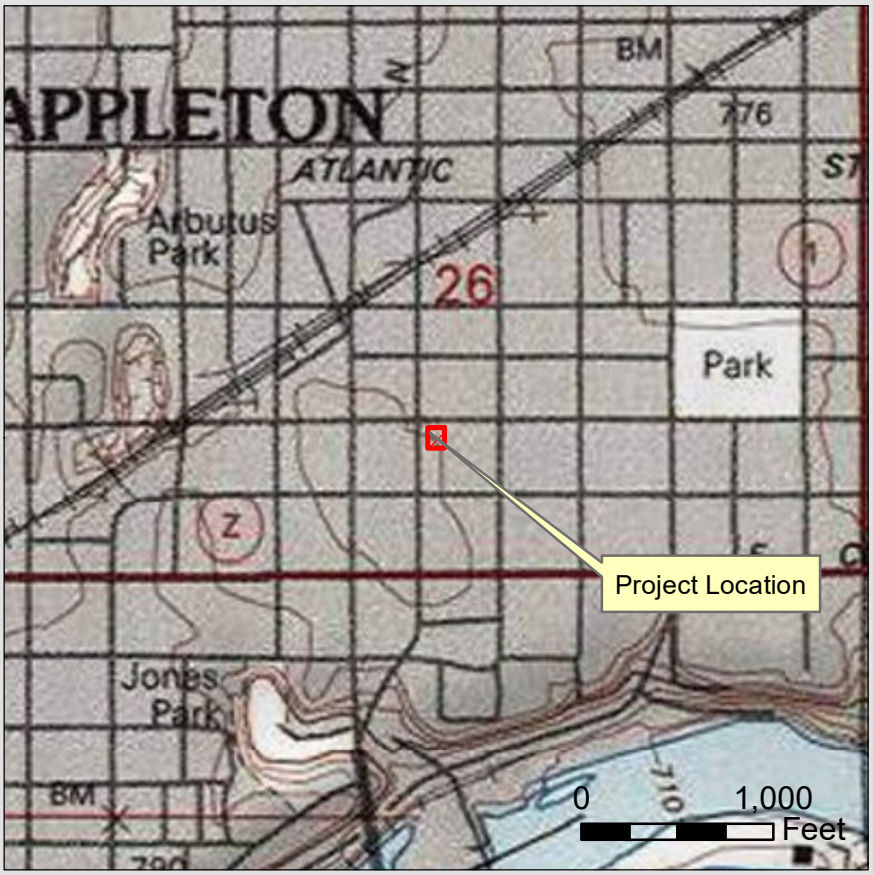
Figure 1 – Site Location Map
Figure 2 – Detailed Site Map
Figure 3 – Isoconcentration Map
Figure 4a – Groundwater Flow Map (3/28/19)
Figure 4b – Groundwater Flow Map (5/15/19)
Figure 4c – Groundwater Flow Map (7/1/19)
Table 1 – Groundwater Analytical Table
Table 2 – Water Level Elevations
Groundwater Sampling Record
Laboratory Analytical Results

cc: Matt Rehbein – City of Appleton (via email)

WDNR BRRTS #: 0245580876
Site Name: VALLEY PREMIER PROPERTY (FRMR)

WDNR Facility ID: N/A
PLSS: NE ¼ of SW ¼ S26 T21N R17E
Parcel No.: 312038400

Lat/Long:	44° 15' 49.651" N	88° 24' 20.394" W
Dec. Long/Lat:	-88.405665	44.263792
WTM91 (m):	647,257	422,405
County Coord (ft):	827,714	562,958



Note:
The City of Appleton has a municipal water supply system. There are no known potable wells within 1200 feet of the project location.

OMNNI ASSOCIATES
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N W E S

222 N ONEIDA ST INVESTIGATION

LOCATION MAP

CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

SCALE: AS SHOWN		BRRTS NO.	**0245580876**
Drawn By:	JCW	OMNNI PROJECT NO.	**N2214K18**
Checked By:	BDW		
Date:	10/1/2019	FIGURE NO.	**1**

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222 N ONEIDA STREET INVESTIGATION

DETAILED SITE MAP

CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

Project Manager:	SCALE: 1 " = 20 '
Project Engineer:	
Drawn By: JCW	PROJECT NO. **N2214K18**
Checked By:	
Date: 10/1/2019	FIGURE NO. **2**

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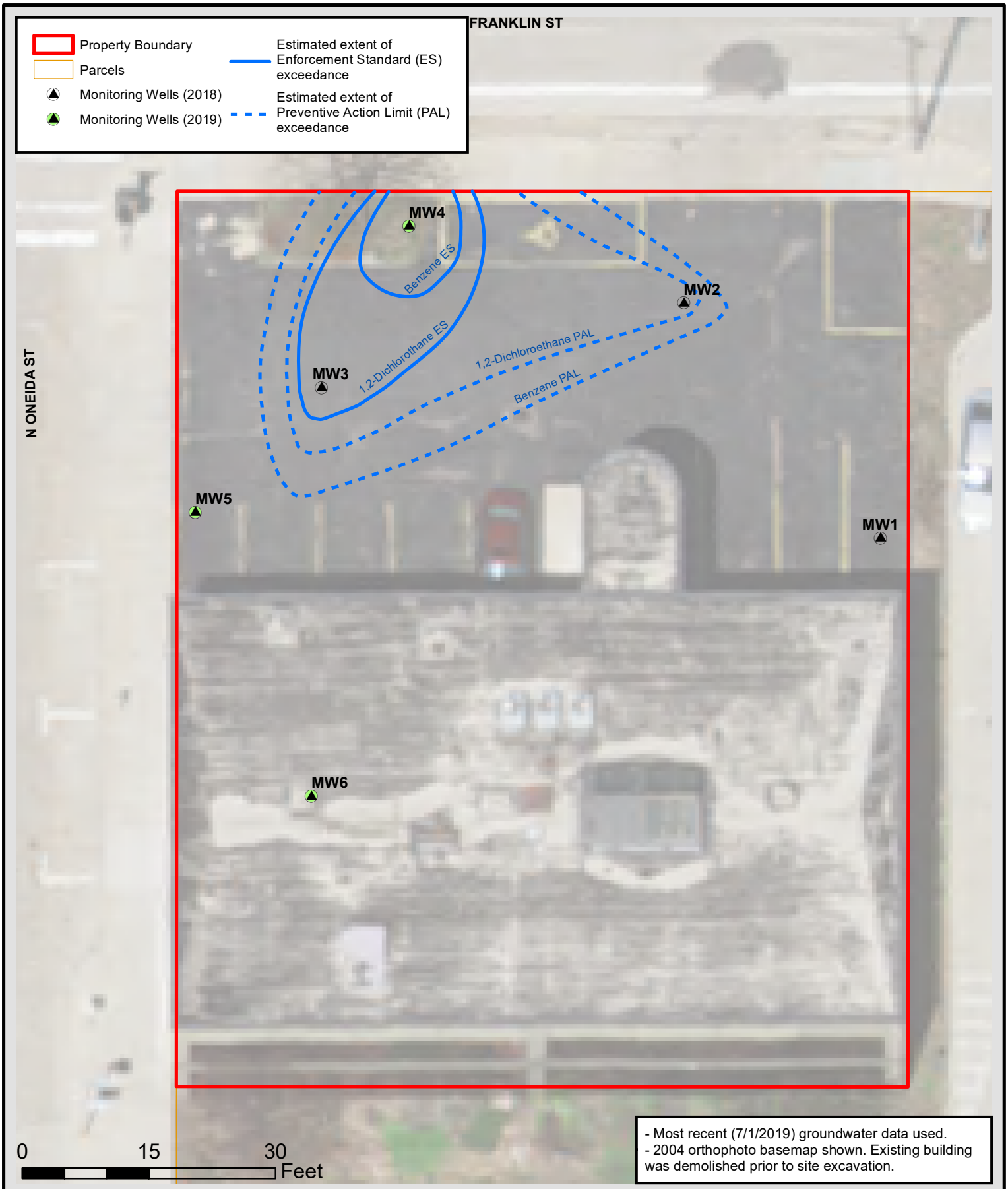

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222 N ONEIDA STREET INVESTIGATION

GROUNDWATER ISOCONCENTRATION MAP

CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

Project Manager:	SCALE: 1 " = 15 '
Project Engineer:	
Drawn By: JCW	PROJECT NO. N2214K18
Checked By:	
Date: 10/1/2019	FIGURE NO. 3

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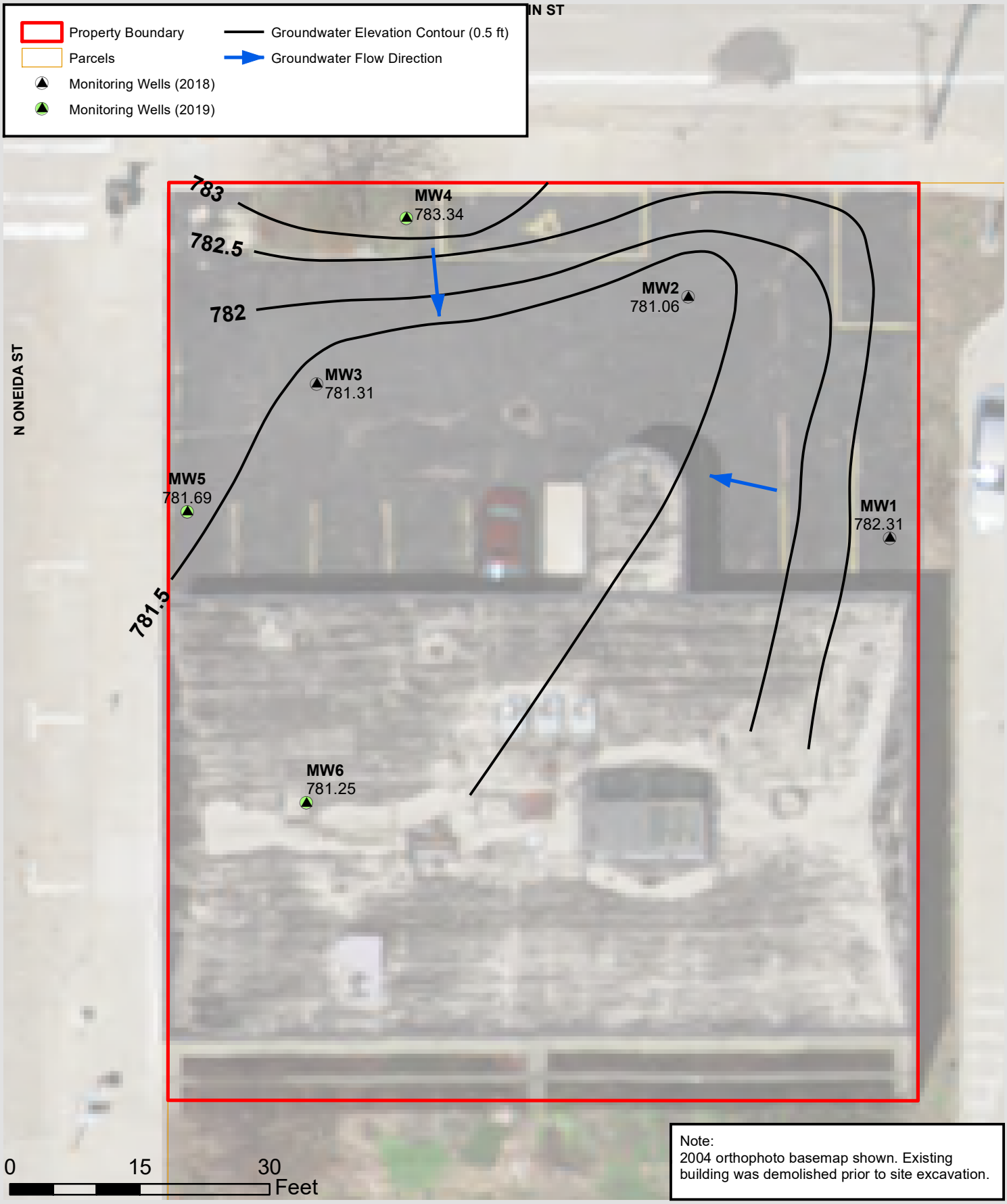

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222 N ONEIDA STREET INVESTIGATION

GROUNDWATER FLOW DIRECTION (3/28/2019)

CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

Project Manager:		SCALE:	1 " = 15 '
Project Engineer:			
Drawn By:	JCW	PROJECT NO.	**N2214K18**
Checked By:			
Date:	10/1/2019	FIGURE NO.	**4a**

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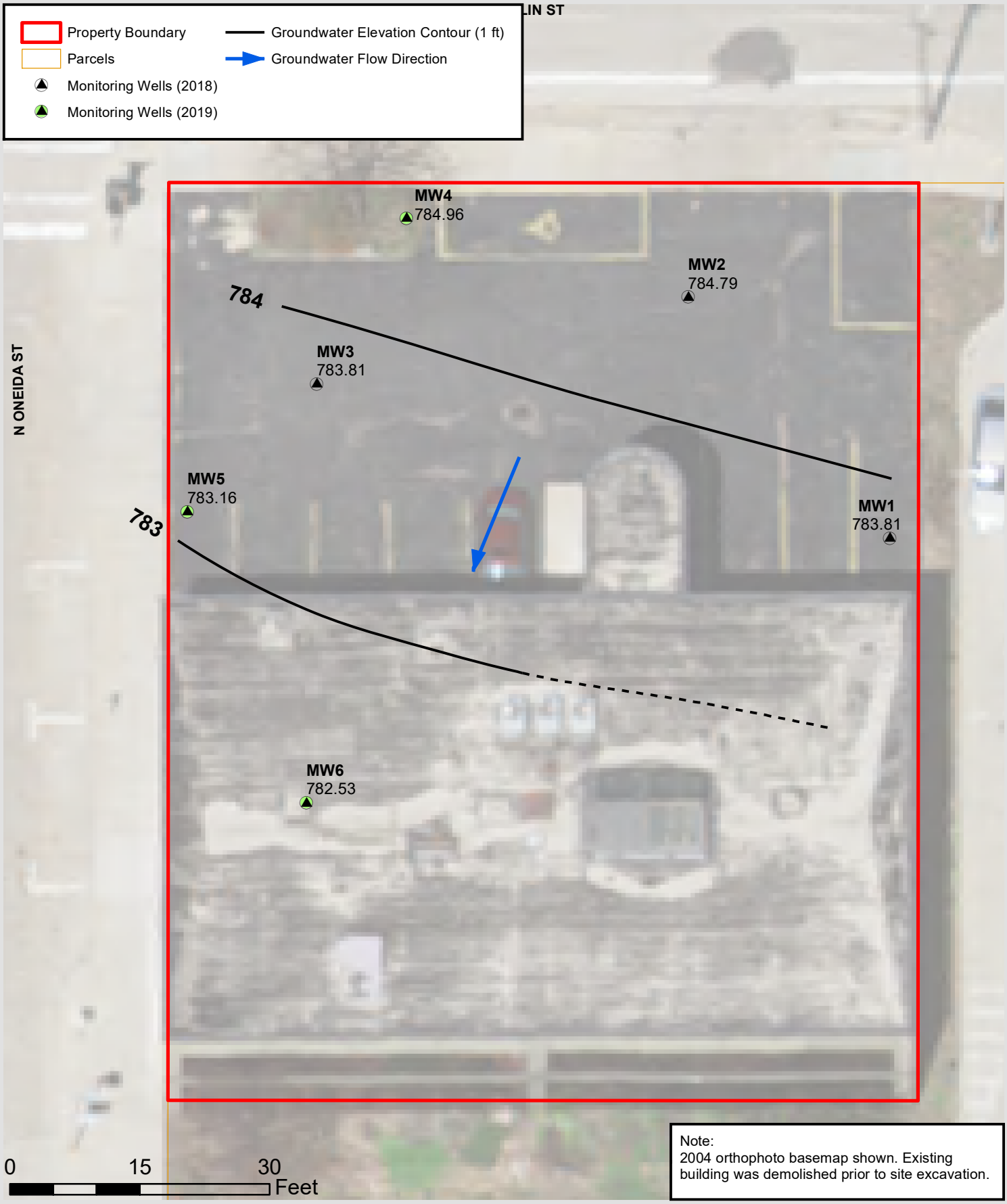

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222 N ONEIDA STREET INVESTIGATION

GROUNDWATER FLOW DIRECTION (5/15/2019)

CLIENT NAME
CITY, STATE

Project Manager:	SCALE: 1 " = 15 '
Project Engineer:	
Drawn By: JCW	PROJECT NO. N2214K18
Checked By:	
Date: 10/1/2019	FIGURE NO. 4b

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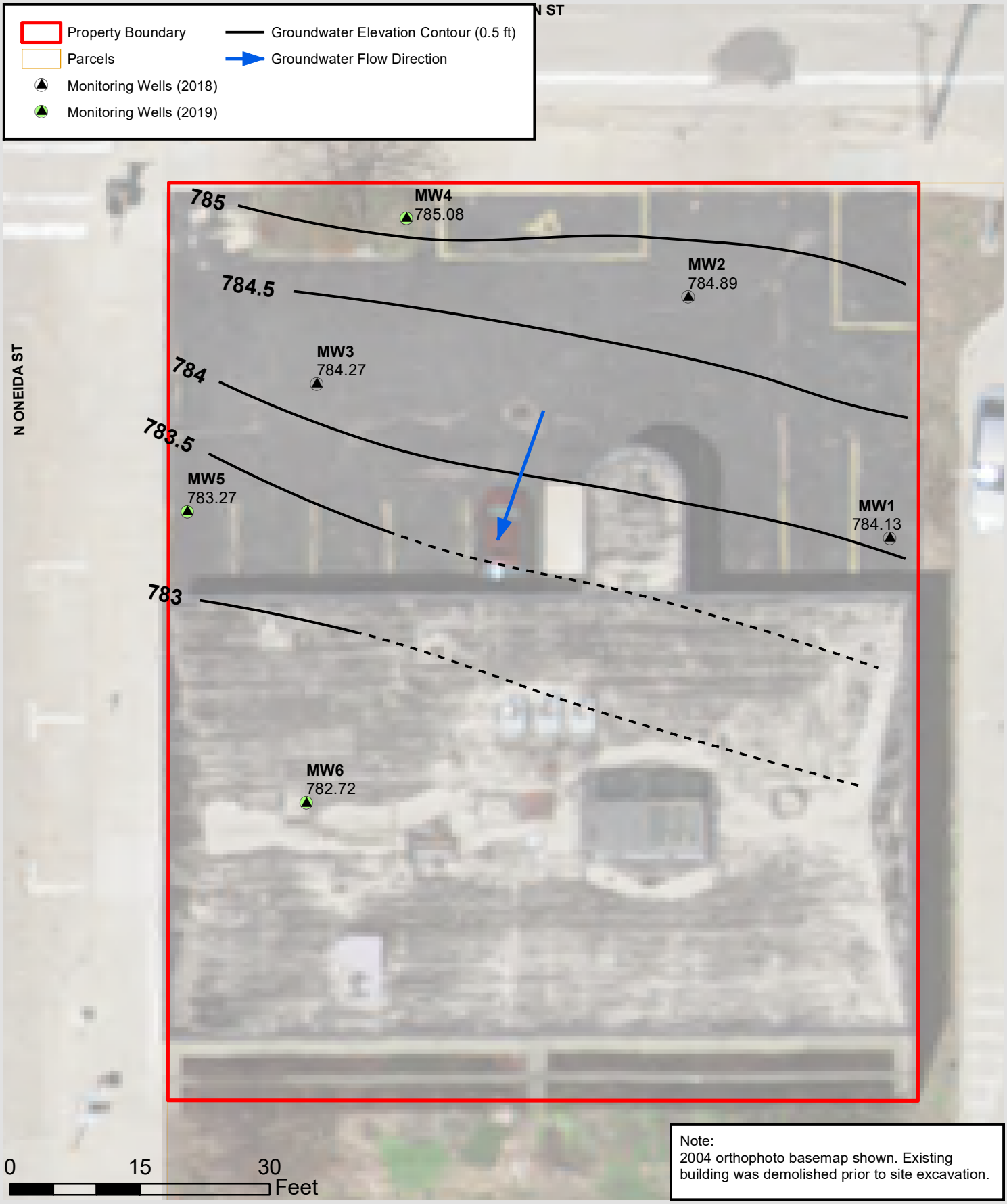

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222 N ONEIDA STREET INVESTIGATION

GROUNDWATER FLOW DIRECTION (7/1/2019)

CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN

Project Manager:		SCALE: 1 " = 15 '
Project Engineer:		
Drawn By:	JCW	PROJECT NO. N2214K18
Checked By:		
Date:	10/1/2019	FIGURE NO. 4c

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222 N. Oneida Street

Table 1 - Groundwater Analytical Table

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

Chemical Name			Ethylbenzene	n-Propylbenzene	n-Butylbenzene	1,2-Dichloroethane	Di-isopropyl ether	1,3,5-Trimethylbenzene	Toluene	Methyl tert-butyl ether (MTBE)	m&p-Xylene	Benzene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Isopropylbenzene	p-Isopropyltoluene
ES (µg/L)			700			5			1000	60		5	1000			
PAL (µg/L)			140			0.5			200	12		0.5	200			
strWellName	*SampleID*	*Date*	*100-41-4*	*103-65-1*	*104-51-8*	*107-06-2*	*108-20-3*	*108-67-8*	*108-88-3*	*1634-04-4*	*179601-23-1*	*71-43-2*	*75-71-8*	*95-63-6*	*98-82-8*	*99-87-6*
TW-06	TW-06	11/3/2017	< 0.2	< 0.19	< 0.34	< 0.45	< 0.26	< 0.91	< 0.67	< 0.82	< 1.56	< 0.17	< 0.38	< 1.14	< 0.29	< 0.28
TW-8	TW-8	11/3/2017	< 0.2	< 0.19	< 0.34	< 0.45	< 0.26	< 0.91	< 0.67	< 0.82	< 1.56	< 0.17	< 0.38	< 1.14	< 0.29	< 0.28
TW-09	TW-09	11/6/2017	< 0.2	< 0.19	< 0.34	***31.4***	< 0.26	< 0.91	< 0.67	< 0.82	< 1.56	< 0.17	< 0.38	< 1.14	< 0.29	< 0.28
TW-10	TW-10	11/6/2017	< 0.2	< 0.19	< 0.34	*4.3*	< 0.26	< 0.91	< 0.67	< 0.82	< 1.56	< 0.17	< 0.38	< 1.14	< 0.29	< 0.28
MW1	MW1	8/6/2018	< 0.26	< 0.61	< 0.71	< 0.25	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24
MW1	MW1	3/28/2019	< 0.26	< 0.61	< 0.71	< 0.25	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24
MW2	MW2	8/6/2018	0.29 J	< 0.61	< 0.71	*2.69*	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24
MW2	MW2	3/28/2019	1.84	3.8	< 0.71	*3.6*	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	*0.81*	< 0.32	< 0.8	3.8	0.26 J
MW2	MW2	7/1/2019	1.56	2.96	< 0.71	*3.2*	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	*1*	< 0.32	< 0.8	2.98	< 0.24
MW3	MW3	8/7/2018	< 0.26	< 0.61	< 0.71	***37***	0.32 J	< 0.63	< 0.19	0.64 J	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24
MW3	MW3	9/27/2018	< 0.26	< 0.61	< 0.71	***28.5***	0.22 J	< 0.63	< 0.19	< 0.28	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24
MW3	MW3	3/28/2019	< 0.26	< 0.61	< 0.71	***7.2***	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	*1.66*	2.14	< 0.8	< 0.78	< 0.24
MW3	MW3	7/1/2019	< 0.26	< 0.61	< 0.71	***6.8***	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	*0.77*	0.8 J	< 0.8	< 0.78	< 0.24
MW4	MW4	3/28/2019	2.01	0.98 J	0.72 J	*2.52*	< 0.21	7.3	0.31 J	< 0.28	2.1	***6.3***	< 0.32	5.2	< 0.78	< 0.24
MW4	MW4	7/1/2019	5	2.42	< 0.71	***5***	< 0.21	3.6	0.45 J	< 0.28	3.05	***8.9***	< 0.32	7.2	1.83 J	0.25 J
MW5	MW5	3/28/2019	< 0.26	< 0.61	< 0.71	0.25 J	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	*1.71*	< 0.32	< 0.8	< 0.78	< 0.24
MW5	MW5	7/1/2019	< 0.26	< 0.61	< 0.71	< 0.25	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24
MW6	MW6	3/28/2019	< 0.26	< 0.61	< 0.71	< 0.25	< 0.21	< 0.63	< 0.19	< 0.28	< 0.43	< 0.22	< 0.32	< 0.8	< 0.78	< 0.24

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

222 N. Oneida Street

Table 1 - Groundwater Analytical Table

Detected Polycyclic Aromatic Hydrocarbons (PAH) (µg/L)

Chemical Name			Anthracene	Pyrene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene	Benzo(b)fluoranthene	Fluoranthene	Benzo(k)fluoranthene	Acenaphthylene	Chrysene	Benzo(a)pyrene	Benzo(a)anthracene	Acenaphthene	Phenanthrene	Fluorene	1-Methyl naphthalene	Naphthalene	2-Methylnaphthalene
ES (µg/L)			3000	250			0.2	400			0.2	0.2				400		100	
PAL (µg/L)			600	50			0.02	80			0.02	0.02				80		10	
strWellName	*SampleID*	*Date*	*120-12-7*	*129-00-0*	*191-24-2*	*193-39-5*	*205-99-2*	*206-44-0*	*207-08-9*	*208-96-8*	*218-01-9*	*50-32-8*	*56-55-3*	*83-32-9*	*85-01-8*	*86-73-7*	*90-12-0*	*91-20-3*	*91-57-6*
TW-06	TW-06	11/3/2017	0.072	0.132	0.046 J	0.037 J	*0.08*	0.184	0.0293 J	< 0.019	*0.063 J*	*0.048 J*	0.054 J	0.05 J	0.304	0.049 J	< 0.024	0.0302 J	< 0.024
TW-8	TW-8	11/3/2017	0.062 J	0.059 J	< 0.025	< 0.023	*0.0238 J*	0.094	< 0.016	< 0.019	< 0.02	< 0.02	0.0268 J	0.056	0.245	0.0305 J	0.063 J	0.098	0.097
TW-09	TW-09	11/6/2017	0.065	0.211	0.065 J	0.063 J	*0.15*	0.292	0.046 J	< 0.019	*0.118*	*0.089*	0.063	0.063	0.33	0.056 J	0.144	0.213	0.081
TW-10	TW-10	11/6/2017	0.038 J	0.117	0.032 J	0.0313 J	*0.068*	0.176	0.0275 J	< 0.019	*0.056 J*	*0.037 J*	0.0314 J	0.077	0.255	0.044 J	0.032 J	0.052 J	0.047 J
MW1	MW1	8/6/2018	< 0.009	< 0.03	< 0.011	< 0.012	< 0.02	< 0.031	< 0.014	< 0.009	< 0.019	< 0.017	< 0.017	< 0.008	< 0.025	< 0.011	< 0.0239	0.0239 J	< 0.0236
MW1	MW1	3/28/2019	< 0.015	< 0.0121	< 0.0142	< 0.0121	< 0.016	< 0.0088	< 0.0146	< 0.0156	< 0.0157	< 0.0167	< 0.0131	< 0.0094	< 0.0143	< 0.0079	< 0.0191	< 0.026	< 0.0186
MW2	MW2	8/6/2018	< 0.009	< 0.03	< 0.011	< 0.012	< 0.02	< 0.031	< 0.014	< 0.009	< 0.019	< 0.017	< 0.017	< 0.008	< 0.025	< 0.011	0.032 J	0.075	< 0.0236
MW2	MW2	3/28/2019	< 0.015	< 0.0121	< 0.0142	< 0.0121	< 0.016	< 0.0088	< 0.0146	< 0.0156	< 0.0157	< 0.0167	< 0.0131	< 0.0094	< 0.0143	< 0.0079	0.35	0.108	0.05 J
MW3	MW3	8/7/2018	< 0.009	< 0.03	< 0.011	< 0.012	< 0.02	< 0.031	< 0.014	< 0.009	< 0.019	< 0.017	< 0.017	< 0.008	< 0.025	< 0.011	< 0.0239	0.0297 J	< 0.0236
MW3	MW3	9/27/2018	< 0.009	< 0.03	< 0.011	< 0.012	< 0.02	< 0.031	< 0.014	0.0142 J	< 0.019	< 0.017	< 0.017	0.0096 J	< 0.025	0.0146 J	< 0.0239	< 0.023	< 0.0236
MW3	MW3	3/28/2019	< 0.015	< 0.0121	< 0.0142	< 0.0121	< 0.016	0.0099 J	< 0.0146	< 0.0156	< 0.0157	< 0.0167	< 0.0131	0.0205 J	< 0.0143	0.0082 J	< 0.0191	0.052 J	< 0.0186
MW4	MW4	3/28/2019	< 0.015	< 0.0121	< 0.0142	< 0.0121	< 0.016	< 0.0088	< 0.0146	< 0.0156	< 0.0157	< 0.0167	< 0.0131	0.0097 J	< 0.0143	< 0.0079	0.183	0.67	0.083
MW5	MW5	3/28/2019	< 0.015	< 0.0121	< 0.0142	< 0.0121	< 0.016	< 0.0088	< 0.0146	< 0.0156	< 0.0157	< 0.0167	< 0.0131	< 0.0094	< 0.0143	< 0.0079	< 0.0191	0.034 J	< 0.0186
MW6	MW6	3/28/2019	0.046 J	< 0.0121	< 0.0142	< 0.0121	< 0.016	< 0.0088	< 0.0146	0.0269 J	< 0.0157	< 0.0167	< 0.0131	0.145	0.0218 J	0.082	0.147	0.082 J	< 0.0186

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

222 N. Oneida Street

Table 1 - Groundwater Analytical Table

Detected RCRA Metals and Other Tested Compounds (µg/L)

Chemical Name			Lead, Total	Cadmium, Total
ES (µg/L)			15	5
PAL (µg/L)			1.5	0.5
strWellName	*SampleID*	*Date*	*7439-92-1*	*7440-43-9*
TW-06	TW-06	11/3/2017	< 0.9	*0.6 J*
TW-8	TW-8	11/3/2017	*10*	*0.6 J*
TW-09	TW-09	11/6/2017	1 J	*0.7 J*
TW-10	TW-10	11/6/2017	< 0.9	0.5 J

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

Table 2 - Water Level Elevations

Well I.D.	Top of Casing Elevation (ft-msl)	Top of Screen Elevation (ft-msl)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft-msl)	Min. (ft-msl)	Max. (ft-msl)	Avg. (ft-msl)
MW1	786.67	776.67	7/13/2018	6.33	780.34	780.066	784.976	783.05
			7/16/2018	3.86	782.81			
			7/30/2018	3.46	783.21			
			8/2/2018	3.49	783.18			
			8/6/2018	3.48	783.19			
			8/21/2018	3.78	782.89			
			8/27/2018	2.91	783.76			
			9/6/2018	1.69	784.98			
			9/18/2018	2.51	784.16			
			9/27/2018	2.73	783.94			
			2/27/2019	6.60	780.07			
			3/28/2019	4.36	782.31			
			5/15/2019	2.86	783.81			
			7/1/2019	2.54	784.13			
MW2	786.53	781.53	7/13/2018	DRY	DRY	780.62	784.885	783.11
			7/16/2018	5.91	780.62			
			7/30/2018	3.11	783.42			
			8/2/2018	4.51	782.02			
			8/6/2018	3.97	782.56			
			8/21/2018	3.85	782.68			
			8/27/2018	3.27	783.26			
			9/6/2018	2.47	784.06			
			9/18/2018	2.24	784.29			
			9/27/2018	2.10	784.43			
			2/27/2019	4.14	782.39			
			3/28/2019	5.47	781.06			
			5/15/2019	1.74	784.79			
			7/1/2019	1.64	784.89			
MW3	787.14	782.14	7/13/2018	DRY	DRY	772.97	784.429	779.06
			7/16/2018	DRY	DRY			
			7/19/2018	14.17	772.97			
			7/30/2018	7.74	779.40			
			8/2/2018	11.81	775.33			
			8/3/2018	13.37	773.77			
			8/6/2018	11.92	775.22			
			8/7/2018	13.65	773.49			
			8/21/2018	5.85	781.29			
			8/27/2018	7.73	779.41			
			9/6/2018	2.71	784.43			
			9/18/2018	3.68	783.46			
			9/27/2018	5.73	781.41			
			2/17/2019	5.60	781.54			
			3/28/2019	5.83	781.31			
			5/15/2019	3.33	783.81			
			7/1/2019	2.87	784.27			

Well I.D.	Top of Casing Elevation (ft-msl)	Top of Screen Elevation (ft-msl)	Date	Depth to Groundwater (ft)	Groundwater Elevation (ft-msl)	Min. (ft-msl)	Max. (ft-msl)	Avg. (ft-msl)
MW4	787.01	782.01	2/19/2019	5.93	781.08	780.51	785.08	782.96
			2/27/2019	6.50	780.51			
			3/19/2019	4.18	782.83			
			3/28/2019	3.67	783.34			
			5/15/2019	2.05	784.96			
			7/1/2019	1.93	785.08			
MW5	787.09	782.09	2/19/2019	6.82	780.27	780.25	783.273	781.51
			2/27/2019	6.84	780.25			
			3/19/119	6.69	780.40			
			3/28/2019	5.40	781.69			
			5/15/2019	3.93	783.16			
			7/1/2019	3.82	783.27			
MW6	787.15	782.15	2/19/2019	6.69	780.46	780.41	782.72	781.33
			2/27/2019	6.74	780.41			
			3/19/2019	6.53	780.62			
			3/28/2019	5.90	781.25			
			5/15/2019	4.62	782.53			
			7/1/2019	4.43	782.72			

OMNNI ASSOCIATES

Groundwater Sampling Log

Project information:

Project Name: 222 N. Oneida Street	Well ID: MW2	Date: 7/1/2019

OMNNI Project Number: N2214K18

Project Address: 222 N. Oneida Street

OMNNI Representative: Quin Lenz

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

Water Level Information:

Total Well Length:	16.0	Length of Water Column:	14.36
Depth of Water (ft. bgs):	1.64	Well Volume (c*0.165[for 2" dia. Pipe]):	2.36

Well Purging Data:

Purge Method: Low flow

Minimum required purge volume (4 well volumes): 9.47 3 well vol = 7.08

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
9:29	initial	16.56	6.92	-79	3.57	2180	1.40	0.0	clear slight petro odor
9:35	0.75	16.30	7.00	-84	3.59	2010	1.29	0.0	" "
9:45	1.75	17.47	7.01	-54	3.76	1960	1.25	0.0	" "
9:52	2.5	16.98	6.98	-50	3.30	2030	1.03	0.0	" "
10:07	4.0	17.17	6.95	-72	2.94	2200	1.41	0.0	" "
10:16	4.5	17.12	7.03	-79	3.85	2240	1.43	0.0	" "
10:28	6.0	15.97	7.03	-85	3.86	2300	1.47	0.0	" "
10:37	6.5	15.44	7.01	-84	3.90	2300	1.47	0.0	" "
10:35	7.5	15.27	7.00	-83	4.01	2270	1.45	0.6	" "

Temp = Degrees Celsius

ORP = Oxidation Reduction Potential

DO = Dissolved Oxygen

COND = Electrical conductivity

TDS = Total Dissolved Solids [expressed as electrical conductivity]

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

Method of sampling: Low flow

Sample ID: MW2

Analysis: VOC

Sample Time: 10:50

Have groundwater parameters been met?

(Yes) No

Explanation:

Additional Comments: went dry after 7.5-gallons

OMNNI Representative Signature

Date 7/1/19

OMNNI ASSOCIATES

Groundwater Sampling Log

Project information:

Project Name: 222 N. Oneida Street	Well ID: MW3	Date: 7/1/2019

OMNNI Project Number: N2214K18

Project Address: 222 N. Oneida Street

OMNNI Representative: Quin Lenz

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

Water Level Information:

Total Well Length: 16.0 Length of Water Column: 13.13

Depth of Water (ft. bgs): 2.87 Well Volume (c*0.165[for 2" dia. Pipe]): 2.16

Well Purging Data:

Purge Method: Low flow

Minimum required purge volume (4 well volumes): 8.66 3 well vol. = 6.48

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
10:25	initial	17.37	7.33	-125	3.55	4670	2.99	18.3	clear
10:34	1.0	17.17	7.22	-109	3.39	4520	2.89	16.0	" "
10:42	2.0	17.03	7.20	-114	3.68	4190	2.68	8.5	" "
10:01	3.5	17.60	7.28	-77	3.78	4600	2.94	0.0	" "
11:08	4.0	16.37	7.19	-59	3.72	4660	2.98	0.0	" "
11:23	5.0	16.79	7.38	-128	4.30	4740	3.03	4.9	" "
11:31	5.5	16.22	7.29	-118	4.55	4760	3.04	5.1	" "
11:38	6.0	16.21	7.23	-88	4.81	4730	3.02	0.0	" "
11:44	6.5	15.89	7.20	-77	4.90	4670	2.99	0.6	" "

Temp = Degrees Celsius

ORP = Oxidation Reduction Potential

DO = Dissolved Oxygen

COND = Electrical conductivity

TDS = Total Dissolved Solids [expressed as electrical conductivity]

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

Method of sampling: Low flow

Sample ID: MW3

Analysis: VOC

Sample Time: 11:49

Have groundwater parameters been met?

Yes No

Explanation:

Additional Comments: -well dry @ 5-gallons moved ~~tubing~~ down well slightly

OMNNI Representative Signature

Date 7/1/19

OMNNI ASSOCIATES

Groundwater Sampling Log

Project information:

Project Name: 222 N. Oneida Street	Well ID: MW4	Date: 7/1/2019

OMNNI Project Number: N2214K18

Project Address: 222 N. Oneida Street

OMNNI Representative: Quin Lenz

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

Water Level Information:

Total Well Length:	15.0	Length of Water Column:	13.07
Depth of Water (ft. bgs):	1.93	Well Volume (c*0.165[for 2" dia. Pipe]):	2.15

Well Purging Data:

Purge Method: Low flow

Minimum required purge volume (4 well volumes): 8.62 3 well vol = 6.45

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
11:04	initial	16.40	7.01	-53	4.77	3810	2.44	2.7	clear
11:11	1.0	16.42	6.99	-60	3.42	3740	2.39	0.0	" "
11:27	2.0	17.32	7.09	-73	3.39	3170	2.03	0.0	" "
11:33	3.0	17.12	7.09	-81	3.57	3110	1.99	0.0	" "
11:40	3.5	16.95	7.07	-76	3.85	3360	2.15	0.0	" "
11:58	5.0	18.00	7.03	-48	3.51	3740	2.39	0.0	" "
12:10	6.0	17.63	7.07	-19	3.77	3710	2.37	0.0	" "
12:19	7.0	17.54	7.08	-15	3.12	3700	2.36	12.3	" "
12:23	7.25	16.89	6.99	-15	3.57	3680	2.35	13.9	" "
12:27	7.5	16.33	7.01	-4	3.98	3700	2.36	13.3	

Temp = Degrees Celsius

ORP = Oxidation Reduction Potential

DO = Dissolved Oxygen

COND = Electrical Conductivity

TDS = Total Dissolved Solids [expressed as electrical conductivity]

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

Method of sampling: Low flow

Sample ID: MW4

Analysis: VOC

Sample Time: 12:30

Have groundwater parameters been met?

(Yes) No

Explanation:

Additional Comments:

OMNNI Representative Signature

Date 7/1/19

OMNNI ASSOCIATES

Groundwater Sampling Log

Project information:

Project Name: 222 N. Oneida Street	Well ID: MW5	Date: 7/1/2019

OMNNI Project Number: N2214K18

Project Address: 222 N. Oneida Street

OMNNI Representative: Quin Lenz

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

Water Level Information:

Total Well Length: 15.0 Length of Water Column: 11.18

Depth of Water (ft. bgs): 3.82 Well Volume (c*0.165[for 2" dia. Pipe]): 1.84

Well Purging Data:

Purge Method: Low flow

Minimum required purge volume (4 well volumes): 7.37 3 well vol.= 5.52

Water Quality Parameters:

Time	Gallons	Temp (°C)	pH	ORP (mV)	DO (ppm)	COND (uS/cm)	TDS (ppm)	TURB (NTU)	Notes
8:56	initial	17.70	6.41	205	3.84	2170	1.39	0.0	clear
9:08	1.0	17.84	7.00	-11	3.10	2110	1.35	0.0	clear
9:18	2.0	17.91	7.20	-47	3.80	1980	1.27	0.0	clear
9:25	2.5	17.64	7.26	17	4.48	1970	1.26	0.0	clear
9:31	3.0	16.92	7.20	-84	4.14	1980	1.26	0.0	" "
9:42	4.0	17.57	7.27	-68	3.86	1950	1.25	0.0	" "
9:48	4.5	17.43	7.24	-69	4.23	1960	1.26	0.0	clear
9:55	5.0	17.22	7.24	-70	4.39	1980	1.27	0.0	" "
10:03	5.5	18.50	7.35	13	4.13	2020	1.29	0.0	" "

Temp = Degrees Celsius

ORP = Oxidation Reduction Potential

DO = Dissolved Oxygen

COND = Electrical conductivity

TDS = Total Dissolved Solids [expressed as electrical conductivity]

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

Method of sampling: Low flow

Sample ID: MW5

Analysis: VOC

Sample Time: 10:10

Have groundwater parameters been met?

(Yes) No

Explanation:

Additional Comments:

OMNNI Representative Signature

7/1/19

Date

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # Nº 3278

Page 1 of 1

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

Lab I.D. #	
Account No.: 8295	Quote No.:
Project #: N2214K18	
Sampler: (signature)	
Project (Name / Location): 222 N. Oneida Appleton WI	
Reports To: Chris Rogers	Invoice To:
Company OMNNI Associates	Company
Address 1 N. Systems Dr.	Address SAME
City State Zip Appleton WI 54914	City State Zip
Phone (920) 735-6900	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection 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)	8-RCRA METALS	PID/ FID
503623 A	Trip Blank	7/1	8:00		x	N	1		HCl													X		
B	MW2		10:50				3	GW														X		
C	MW3		11:49				3	GW														X		
D	MW4		12:30				3	GW														X		
E	MW5		10:10				3	GW														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: client
Temp. of Temp. Blank ___ °C On Ice: Y
Cooler seal intact upon receipt: ___ Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	9:00	7/2/19			

Received in Laboratory By: [signature] Time: 9:30 Date: 7-2-19

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 *16-Jul-19*

Project Name 222 N. ONEIDA
Project # N2214K18

Invoice # E36423

Lab Code 5036423A
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/12/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/12/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/12/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/12/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/12/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/12/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/12/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/12/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/12/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/12/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/12/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/12/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/12/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/12/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/12/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/12/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423A
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/12/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/12/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/12/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/12/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/12/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/12/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/12/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/12/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/12/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/12/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/12/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/12/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/12/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/12/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/12/2019	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		7/12/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/12/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/12/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/12/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/12/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/12/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/12/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/12/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/12/2019	CJR	1
SUR - Toluene-d8	119	REC %			1	8260B		7/12/2019	CJR	1
SUR - Dibromofluoromethane	84	REC %			1	8260B		7/12/2019	CJR	1
SUR - 4-Bromofluorobenzene	156	REC %			1	8260B		7/12/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	49	REC %			1	8260B		7/12/2019	CJR	6

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423B
Sample ID MW2
Sample Matrix Water
Sample Date 7/1/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	1.0	ug/l	0.22	0.71	1	8260B		7/12/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/12/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/12/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/12/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/12/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/12/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/12/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/12/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/12/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/12/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/12/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/12/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/12/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/12/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/12/2019	CJR	1
1,2-Dichloroethane	3.2	ug/l	0.25	0.78	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/12/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/12/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/12/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/12/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/12/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/12/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/12/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/12/2019	CJR	1
Ethylbenzene	1.56	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/12/2019	CJR	1
Isopropylbenzene	2.98	ug/l	0.78	2.47	1	8260B		7/12/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/12/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/12/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/12/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/12/2019	CJR	1
n-Propylbenzene	2.96	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/12/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/12/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/12/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/12/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423B
Sample ID MW2
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/12/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/12/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/12/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/12/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/12/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/12/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/12/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/12/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		7/12/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		7/12/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/12/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423C
Sample ID MW3
Sample Matrix Water
Sample Date 7/1/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	0.77	ug/l	0.22	0.71	1	8260B		7/12/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/12/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/12/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/12/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/12/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/12/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/12/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/12/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/12/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/12/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/12/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/12/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/12/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/12/2019	CJR	1
Dichlorodifluoromethane	0.80 "J"	ug/l	0.32	1.02	1	8260B		7/12/2019	CJR	1
1,2-Dichloroethane	6.8	ug/l	0.25	0.78	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/12/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/12/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/12/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/12/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/12/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/12/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/12/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/12/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/12/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/12/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/12/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/12/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/12/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/12/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/12/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/12/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/12/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/12/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423C
Sample ID MW3
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/12/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/12/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/12/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/12/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/12/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/12/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/12/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/12/2019	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		7/12/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/12/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		7/12/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423D
Sample ID MW4
Sample Matrix Water
Sample Date 7/1/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	8.9	ug/l	0.22	0.71	1	8260B		7/12/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/12/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/12/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/12/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/12/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/12/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/12/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/12/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/12/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/12/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/12/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/12/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/12/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/12/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/12/2019	CJR	1
1,2-Dichloroethane	5.0	ug/l	0.25	0.78	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/12/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/12/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/12/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/12/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/12/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/12/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/12/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/12/2019	CJR	1
Ethylbenzene	5.0	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/12/2019	CJR	1
Isopropylbenzene	1.83 "J"	ug/l	0.78	2.47	1	8260B		7/12/2019	CJR	1
p-Isopropyltoluene	0.25 "J"	ug/l	0.24	0.76	1	8260B		7/12/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/12/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/12/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/12/2019	CJR	1
n-Propylbenzene	2.42	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/12/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/12/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/12/2019	CJR	1
Toluene	0.45 "J"	ug/l	0.19	0.6	1	8260B		7/12/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423D
Sample ID MW4
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/12/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/12/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/12/2019	CJR	1
1,2,4-Trimethylbenzene	7.2	ug/l	0.8	2.55	1	8260B		7/12/2019	CJR	1
1,3,5-Trimethylbenzene	3.6	ug/l	0.63	2	1	8260B		7/12/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/12/2019	CJR	1
m&p-Xylene	3.05	ug/l	0.43	1.38	1	8260B		7/12/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/12/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/12/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		7/12/2019	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		7/12/2019	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423E
Sample ID MW5
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		7/12/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		7/12/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		7/12/2019	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		7/12/2019	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		7/12/2019	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		7/12/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		7/12/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		7/12/2019	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/12/2019	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		7/12/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		7/12/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		7/12/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		7/12/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		7/12/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		7/12/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		7/12/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		7/12/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		7/12/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		7/12/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		7/12/2019	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		7/12/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		7/12/2019	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		7/12/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		7/12/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		7/12/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		7/12/2019	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		7/12/2019	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		7/12/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		7/12/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		7/12/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		7/12/2019	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		7/12/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/12/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		7/12/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		7/12/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		7/12/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		7/12/2019	CJR	1

Project Name 222 N. ONEIDA **Invoice #** E36423
Project # N2214K18

Lab Code 5036423E
Sample ID MW5
Sample Matrix Water
Sample Date 7/1/2019

	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		7/12/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		7/12/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		7/12/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		7/12/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		7/12/2019	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		7/12/2019	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		7/12/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		7/12/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		7/12/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		7/12/2019	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		7/12/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/12/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		7/12/2019	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		7/12/2019	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.
6	The surrogate recovery not within established 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