CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

December 19, 2017

COPY

Mr. & Mrs. Steven Novy
2918 S. 26th St.
Manitowoc, WI 54220

Dear Mr. & Mrs. Novy:

Thank you for your patience during the installation of your new potable well. Connections to your home were completed on December 8, 2017 and your new well was sampled on December 11, 2017.

The City is in receipt of the sample results for your property. We are pleased to inform you that the results confirm that water from your new well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water is fit for consumption, and you can use it with no limitations. A copy of your laboratory analytical results is attached.

Water quality testing was also done on December 11, 2017. The City is working with Luisier Plumbing to get the appropriate treatment equipment installed.

If you have any questions please feel free to call us or the WDNR contacts listed below:

- Well water/sample results: Jim Kasdorf (920) 387-7872
  WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920) 662-5178
  WDNR, Remediation & Redevelopment
- Health Questions: Adam Streiffer (608) 266-3393
  Wisconsin Department of Health Services

If you have any questions, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

, P.E.

Dan Koski, P.E.
Director of Public Infrastructure
City of Manitowoc

Attachment: Laboratory Data

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date *14-Dec-17*

Project Name NEWTON GRAVEL PIT **Invoice #** E34024
Project # 60135471

Lab Code 5034024A
Sample ID 2918 26TH-RAW
Sample Matrix Water
Sample Date 12/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Total	14.5	mg/l	0.03	0.1	1	200.7		12/12/2017	CWT	1
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		12/12/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		12/12/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		12/12/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		12/12/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		12/12/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		12/12/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		12/12/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		12/12/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		12/12/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		12/12/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		12/12/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		12/12/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		12/12/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		12/12/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		12/12/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		12/12/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		12/12/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		12/12/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		12/12/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		12/12/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		12/12/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		12/12/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		12/12/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		12/12/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		12/12/2017	CJR	1

Project Name NEWTON GRAVEL PIT **Invoice #** E34024
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Lab Code 5034024A
Sample ID 2918 26TH-RAW
Sample Matrix Water
Sample Date 12/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		12/12/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		12/12/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		12/12/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		12/12/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		12/12/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		12/12/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		12/12/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		12/12/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		12/12/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		12/12/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		12/12/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		12/12/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		12/12/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		12/12/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		12/12/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		12/12/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		12/12/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		12/12/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		12/12/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		12/12/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		12/12/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		12/12/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		12/12/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		12/12/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		12/12/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		12/12/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		12/12/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		12/12/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		12/12/2017	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		12/12/2017	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		12/12/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		12/12/2017	CJR	1
SUR - 4-Bromofluorobenzene	108	REC %			1	8260B		12/12/2017	CJR	1
Wet Chemistry										
General										
Hardness, Total Unfiltered	1898	mg/l	0.74	2.46	2	200.7		12/12/2017	CWT	1
Solids, Total Dissolved	3007	mg/l	20	20	1	2540c		12/11/2017	BLE	1

Project Name NEWTON GRAVEL PIT **Invoice #** E34024
Project # 60135471

Lab Code 5034024B
Sample ID 2918 26TH-DUP
Sample Matrix Water
Sample Date 12/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		12/12/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		12/12/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		12/12/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		12/12/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		12/12/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		12/12/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		12/12/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		12/12/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		12/12/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		12/12/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		12/12/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		12/12/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		12/12/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		12/12/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		12/12/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		12/12/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		12/12/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		12/12/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		12/12/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		12/12/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		12/12/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		12/12/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		12/12/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		12/12/2017	CJR	1
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1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		12/12/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		12/12/2017	CJR	1
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cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		12/12/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		12/12/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		12/12/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		12/12/2017	CJR	1
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Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		12/12/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		12/12/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		12/12/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		12/12/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		12/12/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		12/12/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		12/12/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		12/12/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		12/12/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		12/12/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		12/12/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		12/12/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		12/12/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		12/12/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		12/12/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		12/12/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		12/12/2017	CJR	1

Project Name NEWTON GRAVEL PIT **Invoice #** E34024
Project # 60135471

Lab Code 5034024B
Sample ID 2918 26TH-DUP
Sample Matrix Water
Sample Date 12/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		12/12/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		12/12/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		12/12/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		12/12/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		12/12/2017	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			1	8260B		12/12/2017	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		12/12/2017	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		12/12/2017	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

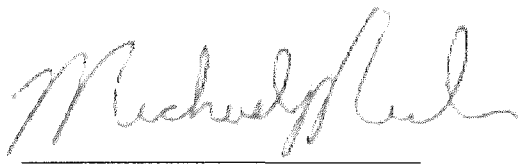
Code	*Comment*
1	Laboratory QC within limits.

BLE denotes sub contract lab - Certification #445023150

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # No 296.2

Page 1 of 1

Sample Handling Request
X Rush Analysis Date Required 12/13
(Rushes accepted only with prior authorization)
___ Normal Turn Around

Lab I.D. #
Account No. : **Quote No.:**
Project #: 60135471
Sampler: (signature) Sarah E Krueger

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

Reports To: DAVE HENDERSON	Invoice To: SEE LEFT
Company AECOM	Company
Address 1555 N RIVER CENTER DRIVE STE 214	Address
City State Zip MILWAUKEE WI 53212	City State Zip
Phone (414) 944-6190	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 542.2)	VOC (EPA 8260)	8-RCRA METALS	TDS	Total Fe	Hardness	PID/ FID
50340247 A	2918 26TH-RAW	12/6/17	0855		X	N	5	GW	HCl/HNO3/-													X		X	X	X	
B	2918 26TH-DW	12/6/17	0855		X	N	3	GW	HCl													X					

Analysis Requested — Other Analysis

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

ANALYSIS PER CONTRACT
dave.henderson@aecom.com

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Sarah E Krueger	1020	12/10/17			

Received in Laboratory By: _____ Time: 1012 Date: 12/11/17