

Beggs, Tauren R - DNR

From: Karen Dorow <kdorow@manitowoc.org>
Sent: Tuesday, November 6, 2018 9:22 AM
To: Beggs, Tauren R - DNR
Cc: GravelPit
Subject: Potable Well Testing - October Results Letters
Attachments: October 2018 Well Testing Letters and Results.pdf

Good Morning Tauren,

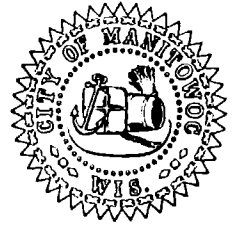
Attached are the potable well testing letters sent out today for the October testing completed to date.

Let me know if you have any questions.

Karen Dorow | Business Manager
City of Manitowoc
2655 S. 35th St.
Manitowoc, WI 54220
Office (920) 686-6514
Mobile (920) 374-0404

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November 6, 2018

Mr. & Mrs. Kurt Messman
4111 Thunder Ridge Road
Manitowoc, WI 54220

Dear Mr. & Mrs. Messman:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. A confirmation sample of your private well took place on Thursday, October 11, 2018.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). The results also indicated no presence of vinyl chloride at or above detection limits. Since your well tested positive for vinyl chloride in a previous test, we ask that you continue to use the bottled water we have provided you for drinking and cooking. A copy of your laboratory analytical results is attached.

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347V
 Sample ID 4111 THUNDER RIDGE
 Sample Matrix Water
 Sample Date 10/11/2018

	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		10/24/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/24/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/24/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/24/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/24/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2018	CJR	1
cis-1,2-Dichloroethene	0.86 "J"	ug/l	0.37	1.16	1	8260B		10/24/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/24/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/24/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/24/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/24/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/24/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/24/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/24/2018	CJR	1

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347V
 Sample ID 4111 THUNDER RIDGE
 Sample Matrix Water
 Sample Date 10/11/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/24/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/24/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/24/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2018	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		10/24/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		10/24/2018	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/24/2018	CJR	1
SUR - Dibromofluoromethane	90	REC %			1	8260B		10/24/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

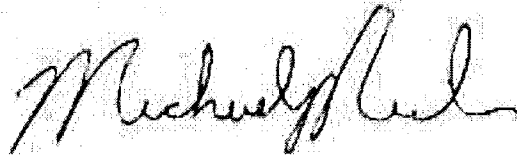
LOQ Limit of Quantitation

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



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November 6, 2018

Mr. & Mrs. David Yanda
3911 Black Hawk Ct.
Manitowoc, WI 54220

Dear Mr. & Mrs. Yanda:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347L
 Sample ID 3911 BLACKHAWK CT
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	0.58 "J"	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347L
Sample ID 3911 BLACKHAWK CT
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/18/2018	CJR	1

CITY OF MANITOWOC

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November 6, 2018

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Mr. & Mrs. James Eberhardt
2911 CTH CR
Manitowoc, WI 54220

Dear Mr. & Mrs. Eberhardt:

The City has been conducting sampling of the private potable wells in the vicinity of the former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, October 11, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347U
 Sample ID 2911 CTH CR
 Sample Matrix Water
 Sample Date 10/11/2018

	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		10/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/23/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

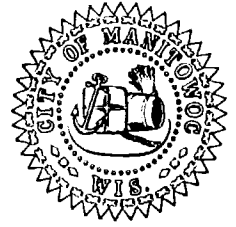
Invoice # E35347

Lab Code 5035347U
Sample ID 2911 CTH CR
Sample Matrix Water
Sample Date 10/11/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/23/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/23/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2018	CJR	1
SUR - Dibromofluoromethane	111	REC %			1	8260B		10/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		10/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		10/23/2018	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		10/23/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



November 6, 2018

Mr. Al Radey
3626 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. Radey:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, October 11, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347Q
 Sample ID 3626 CTH CR
 Sample Matrix Water
 Sample Date 10/11/2018

	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		10/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/23/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347Q
Sample ID 3626 CTH CR
Sample Matrix Water
Sample Date 10/11/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/23/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/23/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2018	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		10/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	110	REC %			1	8260B		10/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		10/23/2018	CJR	1
SUR - Dibromofluoromethane	113	REC %			1	8260B		10/23/2018	CJR	1

CITY OF MANITOWOC

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November 6, 2018

Mr. Michael J. Hardow
3533 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. Hardow:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, October 11, 2018.


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


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



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347R
 Sample ID 3533 CTH CR
 Sample Matrix Water
 Sample Date 10/11/2018

	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		10/24/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/24/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/24/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/24/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/24/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/24/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/24/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/24/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/24/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/24/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/24/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/24/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

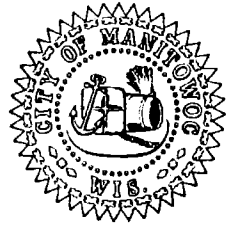
Lab Code 5035347R
Sample ID 3533 CTH CR
Sample Matrix Water
Sample Date 10/11/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/24/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/24/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/24/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/24/2018	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		10/24/2018	CJR	1
SUR - Dibromofluoromethane	90	REC %			1	8260B		10/24/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/24/2018	CJR	1

CITY OF MANITOWOC

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November 6, 2018

Ms. Tanya Smaxwell
2832 CTH CR
Manitowoc, WI 54220

Dear Ms. Tanya Smaxwell:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, October 11, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347T
 Sample ID 2832 (2904) CTH CR
 Sample Matrix Water
 Sample Date 10/11/2018

	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		10/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/23/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347T
Sample ID 2832 (2904) CTH CR
Sample Matrix Water
Sample Date 10/11/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/23/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/23/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2018	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		10/23/2018	CJR	1
SUR - Dibromofluoromethane	108	REC %			1	8260B		10/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		10/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	113	REC %			1	8260B		10/23/2018	CJR	1

CITY OF MANITOWOC

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November 6, 2018

Mr. & Mrs. Lawrence Kakatsch, Jr.
3825 Viebahn
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Kakatsch:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347D
 Sample ID 3825 VIEBAHN
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

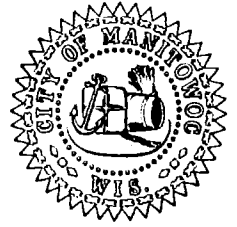
Lab Code 5035347D
Sample ID 3825 VIEBAHN
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		10/18/2018	CJR	1



CITY OF MANITOWOC

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November 6, 2018

Mr. Michael Hardow & Mr. & Mrs. John Monka
3523 CTH CR
Manitowoc, WI 54220

Dear Mr. Hardow & Mr. & Mrs. Monka:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347C
 Sample ID 3523 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

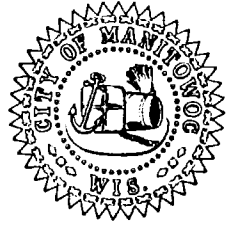
Lab Code 5035347C
Sample ID 3523 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/18/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org



November 6, 2018

Mr. Guy LeClair
7815 CTH C
Manitowoc, WI 54220

COPY

RE: 3627 CTH CR

Dear Mr. LeClair:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347B
 Sample ID 3627 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

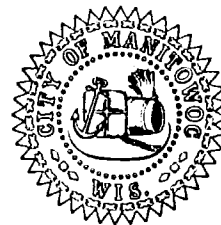
Invoice # E35347

Lab Code 5035347B
Sample ID 3627 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		10/18/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA
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November 6, 2018

Mr. Robert Lohmeier
4101 CTH CR
Manitowoc, WI 54220

Dear Mr. Robert Lohmeier:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
Assistant City Attorney
City of Manitowoc

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

Attachment: Laboratory Data

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347G
 Sample ID 4101 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347G
Sample ID 4101 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347H
Sample ID FD5 4401 CTHCR Dup
Sample Matrix Water
Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347H
Sample ID FD5
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		10/18/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

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November 6, 2018

Ms. Ansorge & Mr. Gadzinski
11105 Newton Rd
Newton, WI 53063

RE: 3611 CTH CR

COPY

Dear Ms. Ansorge & Mr. Gadzinski:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347J
 Sample ID 3611 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347J
Sample ID 3611 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/18/2018	CJR	1

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November 6, 2018

Mr. & Mrs. Howard Linsmeier
4027 Thunder Ridge Road
Manitowoc, WI 54220

Dear Mr. & Mrs. Linsmeier:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). The results also indicate the presence of VOCs above Enforcement Standards. The City has provided bottled water from Kaat's Culligan and we ask that you continue use the bottled water for both drinking and cooking. A copy of your laboratory analytical results is attached.

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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 25-Oct-18

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347A
Sample ID 4027 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/10/2018

	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		10/17/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/17/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/17/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/17/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/17/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/17/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/17/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/17/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/17/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/17/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/17/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/17/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/17/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/17/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/17/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/17/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/17/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/17/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/17/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/17/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/17/2018	CJR	1
cis-1,2-Dichloroethene	1.58	ug/l	0.37	1.16	1	8260B		10/17/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/17/2018	CJR	1

Project Name NEWTON GRAVEL PIT
 Project # 60135471

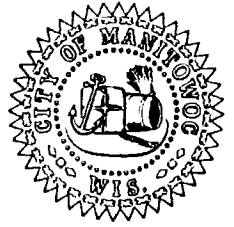
Invoice # E35347

Lab Code 5035347A
 Sample ID 4027 THUNDER RIDGE
 Sample Matrix Water
 Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/17/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/17/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/17/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/17/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/17/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/17/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/17/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/17/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/17/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/17/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/17/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/17/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/17/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/17/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/17/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/17/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/17/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/17/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/17/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/17/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/17/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/17/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/17/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/17/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/17/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/17/2018	CJR	1
Vinyl Chloride	0.20 "J"	ug/l	0.2	0.65	1	8260B		10/17/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/17/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/17/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %			1	8260B		10/17/2018	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		10/17/2018	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		10/17/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/17/2018	CJR	1

CITY OF MANITOWOC

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November 6, 2018

Mr. Chad J. Anhalt
3224 CTH CR
Manitowoc, WI 54220

Dear Mr. Anhalt:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347N
 Sample ID 3224 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

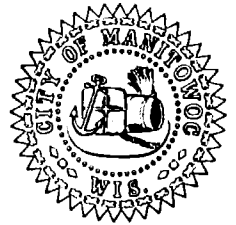
Invoice # E35347

Lab Code 5035347N
Sample ID 3224 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/18/2018	CJR	1

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November 6, 2018

Mr. Scott A. Hyde
3322 CTH CR
Manitowoc, WI 54220

Dear Mr. Scott A. Hyde:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 50353470
 Sample ID 3322 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347O
Sample ID 3322 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/18/2018	CJR	1

CITY OF MANITOWOC

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November 6, 2018

Mr. Glen Guetschow
3312 CTH CR
Manitowoc, WI 54220

Dear Mr. Guetschow:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

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

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

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

Attachment: Laboratory Data

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347I
 Sample ID 3312 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

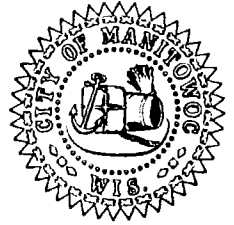
Invoice # E35347

Lab Code 5035347I
Sample ID 3312 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/18/2018	CJR	1

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November 6, 2018

Mr. & Mrs. Jeremy Maes
4101 Thunder Ridge Rd
Manitowoc, WI 54220

Dear Mr. & Mrs. Maes:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

The City is in receipt of the sample results for your property. The results continue to indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

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

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347K
 Sample ID 4101 THUNDER RIDGE
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	1.09 "J"	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347K
Sample ID 4101 THUNDER RIDGE
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/18/2018	CJR	1

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November 6, 2018

Mr. & Mrs. Jeffrey Tulach
3921 Blackhawk Ct.
Manitowoc, WI 54220

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Dear Mr. & Mrs. Tulach:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347E
 Sample ID 3921 BLACKHAWK
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	0.90 "J"	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347E
Sample ID 3921 BLACKHAWK
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347F
 Sample ID FD4 3921 Blackhawk CT Dup
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	0.79 "J"	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

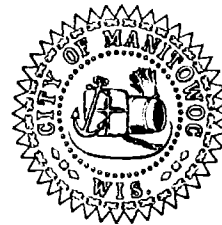
Lab Code 5035347F
Sample ID FD4
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		10/18/2018	CJR	1

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November 6, 2018

Mr. Brian Maurer & Ms. Jodie Zawada
3817 Viebahn
Manitowoc, WI 54220

Dear Mr. Maurer & Ms. Zawada:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Thursday, October 11, 2018.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347S
 Sample ID 3817 VIEBAHN
 Sample Matrix Water
 Sample Date 10/11/2018

	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		10/23/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/23/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/23/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/23/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/23/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2018	CJR	1
cis-1,2-Dichloroethene	0.44 "J"	ug/l	0.37	1.16	1	8260B		10/23/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/23/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/23/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/23/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/23/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/23/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/23/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/23/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

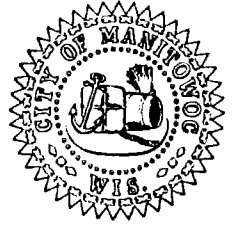
Lab Code 5035347S
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 10/11/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/23/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/23/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/23/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	112	REC %			1	8260B		10/23/2018	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		10/23/2018	CJR	1
SUR - Dibromofluoromethane	110	REC %			1	8260B		10/23/2018	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		10/23/2018	CJR	1



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November 6, 2018

Mr. Robert Flaim
3618 CTH CR
Manitowoc, WI 54220

Dear Mr. Flaim:

The City has been conducting sampling of the private potable wells in the vicinity of the Former Newton Gravel Pit. Your private well was included in the sampling that took place on Wednesday, October 10, 2018.

The City is in receipt of the sample results for your property. The results indicate the presence of cis-1-2-Dichloroethene, detected by the laboratory at levels below the drinking water standard of 70 micrograms per liter (ug/l). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations. A copy of your laboratory analytical results is attached.

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) 266-9337
WDNR, Remediation & Redevelopment

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

Sincerely,

Kathleen McDaniel
City Attorney
City of Manitowoc

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

Attachment: Laboratory Data



Project Name NEWTON GRAVEL PIT
 Project # 60135471

Invoice # E35347

Lab Code 5035347M
 Sample ID 3618 CTH CR
 Sample Matrix Water
 Sample Date 10/10/2018

	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		10/18/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		10/18/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/18/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/18/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		10/18/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		10/18/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		10/18/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/18/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/18/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/18/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/18/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/18/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/18/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/18/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/18/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/18/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/18/2018	CJR	1
cis-1,2-Dichloroethene	1.14 "J"	ug/l	0.37	1.16	1	8260B		10/18/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/18/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/18/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/18/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/18/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/18/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/18/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/18/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		10/18/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		10/18/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/18/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/18/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		10/18/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/18/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/18/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/18/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/18/2018	CJR	1

Project Name NEWTON GRAVEL PIT
Project # 60135471

Invoice # E35347

Lab Code 5035347M
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 10/10/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		10/18/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/18/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/18/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/18/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		10/18/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/18/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/18/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/18/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/18/2018	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/18/2018	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		10/18/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		10/18/2018	CJR	1