Beggs, Tauren R - DNR

From: Karen Dorow <kdorow@manitowoc.org>
Sent: Friday, June 8, 2018 2:01 PM
To: Beggs, Tauren R - DNR; Kasdorf, James H Jr - DNR
Cc: Kathleen McDaniel; Dan Koski; Greg Minikel
Subject: 5/21/18 Sampling Results - Property Owner Letters
Attachments: 201806081407.pdf

Good Afternoon,

Attached are copies of the letters to property owners for the latest round of sampling that took place on May 21, 2018.

Have a great weekend!

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

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

COPY

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 Monday, May 21, 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. As soon as the City received the results you were notified. The City has provided bottled water from Kaat's Culligan and recommends you use the bottled water for both drinking and cooking. A copy of your laboratory analytical results is attached. A confirmation sample was taken on Thursday, May 31, 2018. You will be notified of the results of the confirmation testing.

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

, P.E.

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

Attachment: Laboratory Data

Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVERCENTER DRIVE
MILWAUKEE, WI 53212

Report Date *30-May-18*

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677A
Sample ID 4027 THUNDER
Sample Matrix Water
Sample Date 5/21/2018

	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		5/25/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/25/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/25/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/25/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/25/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/25/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/25/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/25/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/25/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/25/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/25/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/25/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/25/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/25/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/25/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/25/2018	CJR	1
cis-1,2-Dichloroethene	1.32	ug/l	0.37	1.16	1	8260B		5/25/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/25/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/25/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/25/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677A
Sample ID 4027 THUNDER
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/25/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/25/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/25/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/25/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/25/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/25/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/25/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/25/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/25/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/25/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/25/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/25/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/25/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/25/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/25/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/25/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/25/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/25/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/25/2018	CJR	1
Vinyl Chloride	0.28 "J"	ug/l	0.2	0.65	1	8260B		5/25/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/25/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/25/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		5/25/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		5/25/2018	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		5/25/2018	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		5/25/2018	CJR	1

CITY OF MANITOWOC

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June 8, 2018

COPY

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. Your private well was included in the sampling that took place on Monday, May 21, 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. As soon as the City received the results you were notified. The City has provided bottled water from Kaat's Culligan and recommends you use the bottled water for both drinking and cooking. A copy of your laboratory analytical results is attached. A confirmation sample was taken on Tuesday, June 5, 2018. You will be notified of the results of the confirmation testing.

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

, P.E.

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677J
Sample ID 4111 THUNDER
Sample Matrix Water
Sample Date 5/21/2018

	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		5/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/26/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/26/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/26/2018	CJR	1
cis-1,2-Dichloroethene	1.05 "J"	ug/l	0.37	1.16	1	8260B		5/26/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/26/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/26/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/26/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677J
Sample ID 4111 THUNDER
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/26/2018	CJR	1
Vinyl Chloride	0.21 "J"	ug/l	0.2	0.65	1	8260B		5/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/26/2018	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		5/26/2018	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		5/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		5/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		5/26/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

COPY

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 Monday, May 21, 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

, P.E.

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677B
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 5/21/2018

	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		5/25/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/25/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/25/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/25/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/25/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/25/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/25/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/25/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/25/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/25/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/25/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/25/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/25/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/25/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/25/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/25/2018	CJR	1
cis-1,2-Dichloroethene	1.23	ug/l	0.37	1.16	1	8260B		5/25/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/25/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/25/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/25/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/25/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/25/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/25/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/25/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/25/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/25/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/25/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/25/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/25/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/25/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/25/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/25/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/25/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/25/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/25/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/25/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/25/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/25/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677B
Sample ID 3618 CTH CR
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/25/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/25/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/25/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/25/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		5/25/2018	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		5/25/2018	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		5/25/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		5/25/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

COPY

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

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 Monday, May 21, 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

P.E.

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677C
Sample ID 3921 BLACKHAWK
Sample Matrix Water
Sample Date 5/21/2018

	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		5/25/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/25/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/25/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/25/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/25/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/25/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/25/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/25/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/25/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/25/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/25/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/25/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/25/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/25/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/25/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/25/2018	CJR	1
cis-1,2-Dichloroethene	0.95 "J"	ug/l	0.37	1.16	1	8260B		5/25/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/25/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/25/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/25/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/25/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/25/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/25/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/25/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/25/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/25/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/25/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/25/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/25/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/25/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/25/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/25/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/25/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/25/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/25/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/25/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/25/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/25/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677C
Sample ID 3921 BLACKHAWK
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/25/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/25/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/25/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/25/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		5/25/2018	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		5/25/2018	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		5/25/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		5/25/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

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

Dear Mr. & Mrs. Yanda:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) to investigate soil and groundwater contamination at the Former Newton Gravel Pit located 3130 Hecker Road. As part of this work, the City has been conducting sampling of the private potable wells in the vicinity of the gravel pit. Your private well was included in the sampling that took place on Monday, May 21, 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

, P.E.

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677D
Sample ID 3911 BLACKHAWK
Sample Matrix Water
Sample Date 5/21/2018

	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		5/25/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/25/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/25/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/25/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/25/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/25/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/25/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/25/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/25/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/25/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/25/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/25/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/25/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/25/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/25/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/25/2018	CJR	1
cis-1,2-Dichloroethene	0.58 "J"	ug/l	0.37	1.16	1	8260B		5/25/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/25/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/25/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/25/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/25/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/25/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/25/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/25/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/25/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/25/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/25/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/25/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/25/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/25/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/25/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/25/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/25/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/25/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/25/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/25/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/25/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/25/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677D
Sample ID 3911 BLACKHAWK
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/25/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/25/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/25/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/25/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		5/25/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		5/25/2018	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		5/25/2018	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		5/25/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

Mr. & Mrs. Edward G. Miller
3327 Hecker Road
Manitowoc, WI 54220

Dear Mr. & Mrs. Miller:

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 Monday, May 21, 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) 266-3393
  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 FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677E
Sample ID 3327 HECKER
Sample Matrix Water
Sample Date 5/21/2018

	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		5/25/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/25/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/25/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/25/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/25/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/25/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/25/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/25/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/25/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/25/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/25/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/25/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/25/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/25/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/25/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/25/2018	CJR	1
cis-1,2-Dichloroethene	4.5	ug/l	0.37	1.16	1	8260B		5/25/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/25/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/25/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/25/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/25/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/25/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/25/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/25/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/25/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/25/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/25/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/25/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/25/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/25/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/25/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/25/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/25/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/25/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/25/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/25/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/25/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/25/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677E
Sample ID 3327 HECKER
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/25/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/25/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/25/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/25/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/25/2018	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		5/25/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		5/25/2018	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677G
Sample ID 3327 HECKER DUP
Sample Matrix Water
Sample Date 5/21/2018

	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		5/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/26/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/26/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/26/2018	CJR	1
cis-1,2-Dichloroethene	4.2	ug/l	0.37	1.16	1	8260B		5/26/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/26/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/26/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/26/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677G
Sample ID 3327 HECKER DUP
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/26/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/26/2018	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		5/26/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		5/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		5/26/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

Mr. & Mrs. Richard Breunig
3720 Hecker Rd
Manitowoc, WI 54220

RE: 3702 Hecker Road

Dear Mr. & Mrs. Breunig:

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 Monday, May 21, 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 FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677F
Sample ID 3702 HECKER
Sample Matrix Water
Sample Date 5/21/2018

	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		5/25/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/25/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/25/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/25/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/25/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/25/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/25/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/25/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/25/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/25/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/25/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/25/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/25/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/25/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/25/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/25/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/25/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/25/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		5/25/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/25/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/25/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/25/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/25/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/25/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/25/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/25/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/25/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/25/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/25/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/25/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/25/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/25/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/25/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/25/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/25/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/25/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/25/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/25/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/25/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/25/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/25/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/25/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/25/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/25/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677F
Sample ID 3702 HECKER
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/25/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/25/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/25/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/25/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/25/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		5/25/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		5/25/2018	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		5/25/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

Mr. & Mrs. William Gamble
4159 Silver Creek Rd
Manitowoc, WI 54222

Dear Mr. & Mrs. Gamble:

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 Monday, May 21, 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

, P.E.

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677H
Sample ID 4159 SILVER CREE
Sample Matrix Water
Sample Date 5/21/2018

	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		5/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/26/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/26/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/26/2018	CJR	1
cis-1,2-Dichloroethene	0.94 "J"	ug/l	0.37	1.16	1	8260B		5/26/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/26/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/26/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/26/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677H
Sample ID 4159 SILVER CREE
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/26/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		5/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		5/26/2018	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		5/26/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		5/26/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

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June 8, 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 Monday, May 21, 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

, P.E.

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677I
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/21/2018

	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		5/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/26/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/26/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/26/2018	CJR	1
cis-1,2-Dichloroethene	1.32	ug/l	0.37	1.16	1	8260B		5/26/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/26/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/26/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/26/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677I
Sample ID 4101 THUNDER RI
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/26/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/26/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		5/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		5/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		5/26/2018	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		5/26/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

COPY

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 Monday, May 21, 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

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

Attachment: Laboratory Data

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677K
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 5/21/2018

	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		5/26/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/26/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/26/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/26/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/26/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/26/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/26/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/26/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/26/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/26/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/26/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/26/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/26/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/26/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/26/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/26/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/26/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/26/2018	CJR	1
cis-1,2-Dichloroethene	0.70 "J"	ug/l	0.37	1.16	1	8260B		5/26/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/26/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/26/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/26/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/26/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/26/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/26/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/26/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/26/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/26/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/26/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/26/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/26/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/26/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/26/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/26/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/26/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/26/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/26/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/26/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/26/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/26/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/26/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/26/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677K
Sample ID 3817 VIEBAHN
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/26/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/26/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/26/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/26/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		5/26/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		5/26/2018	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		5/26/2018	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		5/26/2018	CJR	1

CITY OF MANITOWOC

WISCONSIN, USA

www.manitowoc.org

June 8, 2018

Mr. Allen Braun
414 Magnolia Ave.
Manitowoc, WI 54220

RE: 3461(3417) Hecker Road

Dear Mr. Braun:

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 Monday, May 21, 2018.

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

, P.E.

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

Attachment: Laboratory Data

ENGINEERING DEPARTMENT ▪ 900 QUAY STREET ▪ MANITOWOC, WI 54220
(920) 686.6910 FAX: (920) 686.6906

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677L
Sample ID 3417 HECKER
Sample Matrix Water
Sample Date 5/21/2018

	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		5/29/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/29/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/29/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/29/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/29/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/29/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/29/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/29/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/29/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/29/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/29/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/29/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/29/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/29/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/29/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/29/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/29/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/29/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/29/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/29/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/29/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/29/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/29/2018	CJR	1
cis-1,2-Dichloroethene	1.87	ug/l	0.37	1.16	1	8260B		5/29/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/29/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/29/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/29/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/29/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/29/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/29/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/29/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/29/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/29/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/29/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/29/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/29/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/29/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/29/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/29/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/29/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/29/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/29/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/29/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/29/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/29/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/29/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/29/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/29/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/29/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/29/2018	CJR	1

Project Name FMR NEWTON GRAVEL PIT **Invoice #** E34677
Project # 60135471.34

Lab Code 5034677L
Sample ID 3417 HECKER
Sample Matrix Water
Sample Date 5/21/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/29/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/29/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/29/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/29/2018	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		5/29/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		5/29/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		5/29/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/29/2018	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