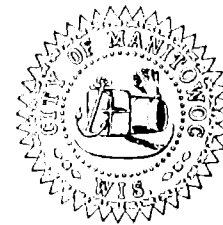




CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 13, 2014

Mr. John Shoop
3120 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. Shoop:

As you are aware, preliminary results of the your private well sampling that took place the week of January 13, 2014 indicated that there were Volatile Organic Chemical (VOC) impacts in your water that initially exceeded the Enforcement Standards. Confirmation samples were collected from your well on Tuesday, February 4, 2014.


The City is in receipt of the confirmation sample results for your property. Lab results indicate that you should continue to use the bottled water we have supplied you for drinking and cooking. According to DNR guidelines, your well water is fit for showering, laundry, and all purposes other than drinking water or food preparation. The state Department of Health Services suggests that you open a window or use a bathroom fan to increase ventilation while doing laundry or showering to further reduce your exposure.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue with your well. 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

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



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
 AECOM
 1555 N RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26494

Lab Code 5026494A
 Sample ID 3120 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63		2	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	2.86	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26494

Lab Code 5026494A
 Sample ID 3120 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	0.43 "J"	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26494

Lab Code 5026494B
 Sample ID TRIP BLANK
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	<0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	<0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	<0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	<0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	<0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	<0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	<0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	<0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	<0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	<0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	<0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	<0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	<0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	<0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	<0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	<0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	<0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	<0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	<0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	<0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	<0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	<0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	<0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	<0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	<0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	<0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	<0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	<0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	<0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	<0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	<0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	<1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	<0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
p-Isopropyltoluene	<0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	<0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	<0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	<1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	<0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	<0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	<0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	<0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	<0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	<0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	<1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	<0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	<0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	<0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	<0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	<2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	<1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	<0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	<0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	<0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	107	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	87	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	118	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26494

"J" Flag: Analyte detected between LOD and LOQ

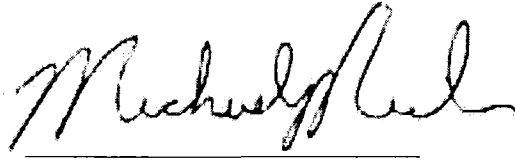
LOD Limit of Detection

LOQ Limit of Quantitation

<i>Code</i>	<i>Comment</i>
1	Laboratory QC within limits.
8	Closing calibration standard not within established limits.

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

Authorized Signature



Michael J. Steel

Environmental Lab, Inc.

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

Sample Handling Request

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

Lab I.D. # _____
Account No. _____ Quote No.: _____
Project # 60311767
Sampler: signature [Signature]

Project (Name / Location): Manitowish WI, Former Newton Gravel Pit
Reports To: DAVE Henderson Invoice To: DAVE Henderson
Company: A-ECOM Company: SAME
Address: 1555 N. River Center Dr STE 214 Address: _____
City State Zip: Milwaukee, WI 53212 City State Zip: _____
Phone: 414-944-6190 Phone: _____
FAX: 414-944-6081 FAX: _____

Analysis Requested		Other Analysis	
<input type="checkbox"/>	DRO (Mod DRO Sep 95)	<input type="checkbox"/>	PID/ FID
<input type="checkbox"/>	GRO (Mod GRO Sep 95)	<input type="checkbox"/>	
<input type="checkbox"/>	LEAD	<input type="checkbox"/>	
<input type="checkbox"/>	NITRATE/NITRITE	<input type="checkbox"/>	
<input type="checkbox"/>	OIL & GREASE	<input type="checkbox"/>	
<input type="checkbox"/>	PAH (EPA 8270)	<input type="checkbox"/>	
<input type="checkbox"/>	PVOC (EPA 8021)	<input type="checkbox"/>	
<input type="checkbox"/>	PVOC + NAPHTHALENE	<input type="checkbox"/>	
<input type="checkbox"/>	SULFATE	<input type="checkbox"/>	
<input type="checkbox"/>	TOTAL SUSPENDED SOLIDS	<input type="checkbox"/>	
<input type="checkbox"/>	VOC DW (EPA 542.2)	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	VOC (EPA 8260)	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	8-PCRA METALS	<input type="checkbox"/>	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>50264941</u>	<u>3120 CTM CR</u>	<u>2/4/14</u>	<u>1015</u>	<u>N</u>	<u>X</u>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCl</u>
	<u>Trip Blank</u>	<u>2/4/14</u>	<u>0800</u>	<u>N</u>	<u>X</u>	<u>-</u>	<u>1</u>	<u>GW</u>	<u>HCl</u>

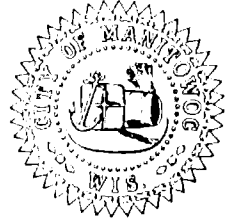
Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)
Analysis Per Contract Results by 2/17/14

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

Relinquished By: (sign) [Signature] Time: 0700 Date: 2/6/14
Received By: (sign) _____ Time: _____ Date: _____
Received in Laboratory By: [Signature] Time: 8:00 Date: 2/7/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 13, 2014

Mr. Jim Schnuelle
3403 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. Schnuelle:

As you are aware, preliminary results of the your private well sampling that took place the week of January 13, 2014 indicated that there were Volatile Organic Chemical (VOC) impacts in your well water that initially exceeded the Enforcement Standards. Confirmation samples were collected from your well on Wednesday, February 5, 2014.


The City is in receipt of the confirmation sample results for your property. Lab results indicate that you should continue to use the bottled water we have supplied you for drinking and cooking. According to DNR guidelines, your well water is fit for showering, laundry, and all purposes other than drinking water or food preparation. The state Department of Health Services suggests that you open a window or use a bathroom fan to increase ventilation while doing laundry or showering to further reduce your exposure.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue with your well. 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

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



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
 AECOM
 1555 N RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26506

Lab Code 5026506A
 Sample ID 3403 CTH CR
 Sample Matrix water
 Sample Date 2/5/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	1.67	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26506

Lab Code 5026506A
 Sample ID 3403 CTH CR
 Sample Matrix water
 Sample Date 2/5/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	0.25 "J"	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

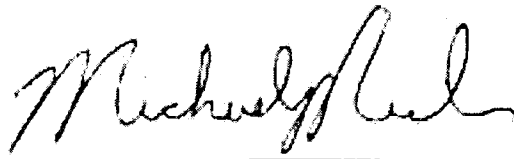
LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

Contact Person Dave Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1
 Laboratory Synergy Environmental
 Contact Person Mike Richer
 Phone No. 920-830-2455
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
x126506 343 CR CR	2/15/14	1045	X		3	Water	X		-	-	-	-	VOCs	

Collected by: <u>[Signature]</u>	Date <u>02/16/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>[Signature]</u>	Date <u>2/17/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

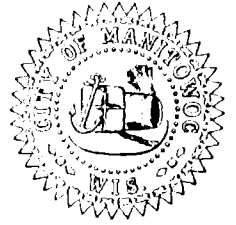
Final Disposition: Analysis Per Contract
Disposal by lab

Comments (Weather Conditions, Precautions, Hazards):
Results by 2/17/14



CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 13, 2014

Priority IAC
Attn: Cindy Bruenig
3504 CTH CR
Manitowoc, WI 54220

COPY

Dear Ms. Bruenig:

As you are aware, preliminary results of the your private well sampling that took place the week of January 13, 2014 indicated that there were Volatile Organic Chemical (VOC) impacts in your water that initially exceeded the Enforcement Standards. Confirmation samples were collected from your well on Wednesday, February 5, 2014.

The City is in receipt of the confirmation sample results for your property. Lab results indicate that there were no VOC's in your water in this sample. As a precautionary measure we would like you to continue to use the bottled water we have supplied you for drinking and cooking.

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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue with your well. 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



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
 AECOM
 1555 N RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26505

Lab Code 5026505A
 Sample ID 3504 CTH CR
 Sample Matrix water
 Sample Date 2/5/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	<0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	<0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	<0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	<0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	<0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	<0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	<0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	<0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	<0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	<0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	<0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	<0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	<0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	<0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	<0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	<0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	<0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	<0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	<0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	<0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	<0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	<0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	<0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	1.42	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	<0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	<0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	<0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	<0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	<0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	<0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	<0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	<1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	<0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26505

Lab Code 5026505A
 Sample ID 3504 CTH CR
 Sample Matrix water
 Sample Date 2/5/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

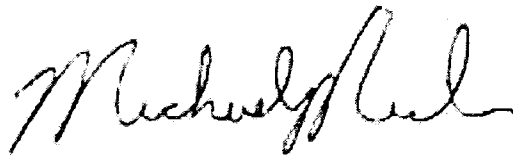
LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

No 3694

Contact Person Dave Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 6031171a7 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1

Laboratory Synergy Environmental
 Contact Person Mike Ricker
 Phone No. 920-830-2455
 Results Due _____

0026505
 A

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
3504 CTH CR	2/5/14	1015	X		3	Water	X		-	-	-	-	VOCs	

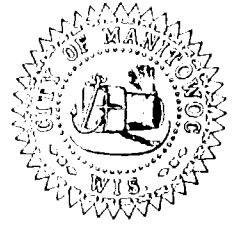
Collected by: <u>John J</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Mike Ricker</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: Disposal by lab Comments (Weather Conditions, Precautions, Hazards): Analysis per Contract Results by 2/17/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Ms. LuAnn Luebke Hintz Foerster
2916 CTH CR
Manitowoc, WI 54220

COPY

Dear Ms. Foerster:

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 Tuesday, February 4, 2014.

The City is in receipt of the sample results for your property. The preliminary 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) and Vinyl Chloride, detected by the laboratory at levels below the drinking water standard of .2 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 are attached.

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

- Well water/sample results: Liz Heinen (920)993-7056; WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or Annette Weissbach (920)662-5165; WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393; Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Handwritten signature of Kathleen McDaniel.

Kathleen McDaniel
Interim City Attorney
City of Manitowoc

Handwritten signature of Dan Koski.

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 RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26498

Lab Code 5026498A
 Sample ID 2916 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63		2	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	0.97 "J"	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26498

Lab Code 5026498A
 Sample ID 2916 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	0.18 "J"	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

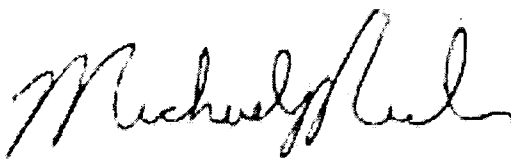
LOQ Limit of Quantitation

Code **Comment**

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

Contact Person Dave Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1

Laboratory Synergy Environmental
 Contact Person Mike Ricker
 Phone No. 920-830-2455
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
Ex26418 A 2916 CTH CR	2/4/14	1315	X		3	Water	X		-	-	-	-	VOCS	

Collected by: <u>[Signature]</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>[Signature]</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

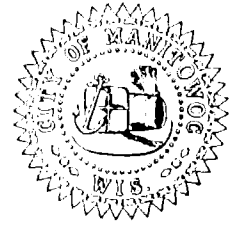
Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: Disposal by lab

Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract
Results by 2/17/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Ms. Brenda Birringer
3027 Orchard Lane
Manitowoc, WI 54220

COPY

Dear Ms. Birringer:

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 Wednesday, February 5, 2014.

The City is in receipt of the sample results for your property. The preliminary 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 are attached.

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

- Well water/sample results: Liz Heinen (920)993-7056; WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or Annette Weissbach (920)662-5165; WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393; Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Handwritten signature of Kathleen McDaniel in black ink.

Kathleen McDaniel
Interim City Attorney
City of Manitowoc

Handwritten signature of Dan Koski in black ink.

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 RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26507

Lab Code 5026507A
Sample ID 3027 ORCHARD
Sample Matrix water
Sample Date 2/5/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/8/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/8/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/8/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/8/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/8/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/8/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/8/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/8/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/8/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/8/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/8/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/8/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/8/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/8/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/8/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/8/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/8/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/8/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/8/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/8/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2014	CJR	1
cis-1,2-Dichloroethene	0.47 "J"	ug/l	0.38	1.2	1	8260B		2/8/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/8/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/8/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/8/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/8/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/8/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/8/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26507

Lab Code 5026507A
 Sample ID 3027 ORCHARD
 Sample Matrix water
 Sample Date 2/5/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/8/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/8/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/8/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/8/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/8/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/8/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/8/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/8/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/8/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/8/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/8/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2014	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/8/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/8/2014	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		2/8/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

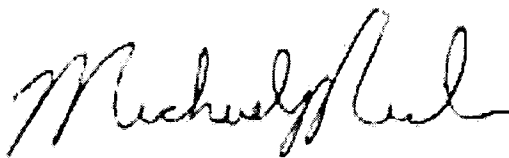
LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



No 3696

Chain of Custody Record

Contact Person Dave Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Norton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1

Laboratory Synergy Environmental
 Contact Person Mike Ricker
 Phone No. 920-830-2455
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	Z	PID/FID		PH	Special Cond.		
									Ambient	Sample				
3026507 A 3027 Orchard	2/5/14	1145	x		3	Water	X		-	-	-	-	VOCs	

Collected by: <u>Jordan J</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Monty</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

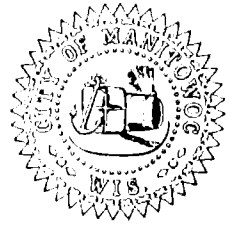
Final Disposition: Disposal by Lab

Comments (Weather Conditions, Precautions, Hazards): Results by 2/17/14
Extra Volume for MS/MSD
Analysis per Contract

CITY OF MANITOWOC

February 12, 2014

WISCONSIN, USA
www.manitowoc.org



Ms. Brenda Birringer
Mr. William Ratajczak
3027 Orchard Lane
Manitowoc, WI 54220

RE: 3128 Orchard Lane

COPY

Dear Ms. Birringer and Mr. Ratajczak:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.


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 are attached.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,


Kathleen McDaniel
Interim City Attorney
City of Manitowoc


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

Attachment: Laboratory Data

Cc: Tenant – Jennifer Leflash Gessert



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
 AECOM
 1555 N RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26501

Lab Code 5026501A
 Sample ID 3128 ORCHARD
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26501

Lab Code 5026501A
Sample ID 3128 ORCHARD
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

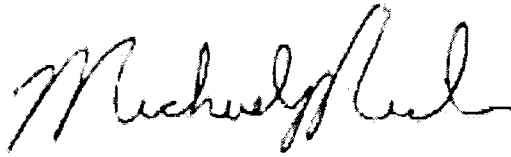
LOQ Limit of Quantitation

Code **Comment**

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

Contact Person DAVE Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request	
<input type="checkbox"/>	Rush
<input type="checkbox"/>	Verbal
<input type="checkbox"/>	Other

Record Number 1 Through 1
 Laboratory Synergy Environmental
 Contact Person Mike Ricker
 Phone No. 920-830-2455
 Results Due _____

5026501
 A

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
312B Orchard	2/4/14	1445	X	-	3	Water	X	-	-	-	-	JOCs		

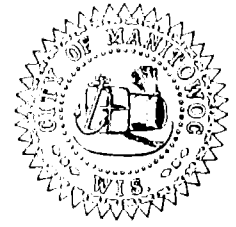
Collected by: <u>Jordan J</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Ch...</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: <u>Disposal by Lab</u>	Comments (Weather Conditions, Precautions, Hazards): <u>Analysis per Contract Results by 2/17/14</u>
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CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Mr. Gary Bialek
3420 Orchard Lane
Manitowoc, WI 54220

COPY

Dear Mr. Bialek:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.


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 are attached.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,


Kathleen McDaniel
Interim 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 RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT Invoice # E26495
Project # 60311767
Lab Code 5026495A
Sample ID 3420 ORCHARD
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26495

Lab Code 5026495A
Sample ID 3420 ORCHARD
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

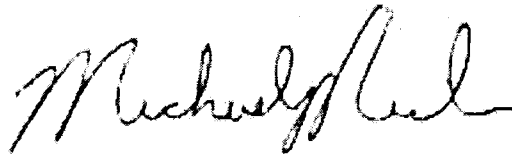
LOQ Limit of Quantitation

Code **Comment**

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Environmental Lab, Inc.

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

Sample Handling Request

Rush Analysis Date Required
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No.: _____ Quote No.: _____
Project #: 60311767
Sampler: (signature) Jordan J

Project (Name / Location): Former Newton Gravel Pit / Manitowish, WI
Reports To: DAVE Henderson Invoice To: DAVE Henderson
Company: AECOM Company: SAME
Address: 1555 N. RiverCenter Dr. STE 214 Address: _____
City State Zip: Milwaukee, WI 53212 City State Zip: _____
Phone: 414-944-6190 Phone: _____
FAX: 414-944-6081 FAX: _____

Analysis Requested											Other Analysis								
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID						
											<input checked="" type="checkbox"/>								

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>502649SA</u>	<u>342a onhard</u>	<u>2/4/14</u>	<u>945</u>		<input checked="" type="checkbox"/>	<u>N</u>	<u>3</u>	<u>GW</u>	<u>HCl</u>

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

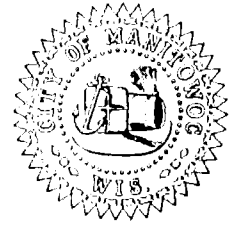
Analysis per Contract Results by 2/17/14

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

Relinquished By: (signature) Jordan J Time: 0700 Date: 2/6/14
Received in Laboratory By: Chandra R Time: 8:00 Date: 2/7/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Mr. & Mrs. Alexander Augustine
3523 Orchard Lane
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Augustine:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.

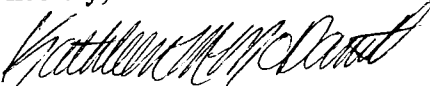
The City is in receipt of the sample results for your property. The results confirm that water from your well does not indicate the presence of volatile organic compounds (VOCs). According to DNR guidelines the well water remains fit for consumption, and you can continue using it with no limitations.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


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,


Kathleen McDaniel
Interim 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 RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT Invoice # E26496
Project # 60311767
Lab Code 5026496A
Sample ID 3523 ORCHARD
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26496

Lab Code 5026496A
 Sample ID 3523 ORCHARD
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		2/7/2014	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.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Environmental Lab, Inc.

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

Sample Handling Request

Rush Analysis Date Required
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. #
Account No. Quote No.:
Project #: 60311767
Sampler: (signature) <i>Jordan J.</i>

Project (Name / Location): Newton Grand Pit / Manitowoc, WI	
Reports To: DAVE Henderson	Invoice To: DAVE Henderson
Company: AECOM	Company: SAME
Address: 1555 N. River Center Dr. STE 214	Address:
City State Zip: Milwaukee, WI 53212	City State Zip:
Phone: 414-944-6190	Phone:
FAX: 414-944-6081	FAX:

Analysis Requested											Other Analysis			
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC - NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	B-RORA METALS	PID	FID
											<input checked="" type="checkbox"/>			

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5026496A	3523 ordered	2/4/14	1115		X	N	3	GW	HCl

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

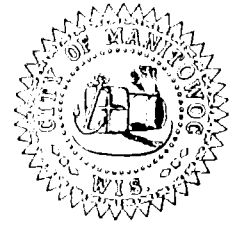
Analysis per Contract

Results by 2/17/14

Sample Integrity - To be completed by receiving lab. Method of Shipment: <i>Durham</i> Temp. of Temp. Blank _____ °C On Ice: <input checked="" type="checkbox"/> Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Relinquished By: (sign) <i>Jordan J.</i>	Time: <i>0700</i>	Date: <i>2/6/14</i>	Received By: (sign) _____	Time: _____	Date: _____
	Received in Laboratory By: <i>Cheney</i>	Time: <i>8:00</i>	Date: <i>2/7/14</i>			

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Mr. & Mrs. Paul Burbey
3524 Orchard Lane
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Burbey:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.

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 are attached.

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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,

Handwritten signature of Kathleen McDaniel in black ink.

Kathleen McDaniel
Interim City Attorney
City of Manitowoc

Handwritten signature of Dan Koski in black ink.

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 RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26497

Lab Code 5026497A
Sample ID 3524 ORCHARD
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26497

Lab Code 5026497A
 Sample ID 3524 ORCHARD
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

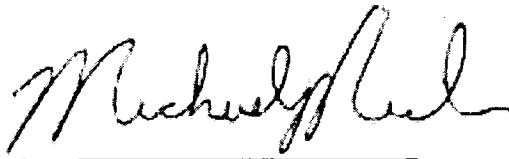
LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

Contact Person DAVE Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 603117167 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1
 Laboratory Synergy Environmental
 Contact Person Mike Richter
 Phone No. 920-830-2455
 Results Due _____

3026477
A

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
3524 Orchard	2/4/14	1145	X		3	Water	X		-	-	-	-	VOCs	

Collected by: <u>Jedus J</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Chris J</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

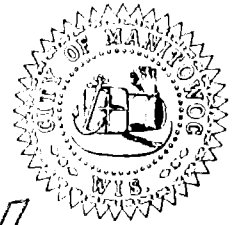
Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: Disposal by Lab

Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract
Results by 2/17/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Ms. Gloria Thompson
2832 CTH CR
Manitowoc, WI 54220

COPY

Dear Ms. Thompson:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.


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 are attached.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,


Kathleen McDaniel
Interim 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 RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26503

Lab Code 5026503A
 Sample ID 2832 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26503

Lab Code 5026503A
 Sample ID 2832 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		2/7/2014	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.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



No 3692

Chain of Custody Record

Contact Person DAVE Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1
 Laboratory Synergy Environmental
 Contact Person Mike Richer
 Phone No. 920-830-2455
 Results Due _____

5026503
 A 2 832 CH CR

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
A 2 832 CH CR	2/11/14	1545	X	-	3	Water	X		-	-	-	-	VOCS	

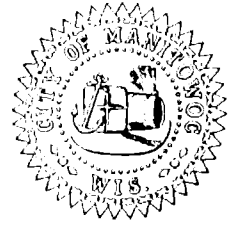
Collected by: <u>Jordan J</u>	Date <u>2/16/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Mike Richer</u>	Date <u>2/17/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: Disposal by lab Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract Results by 2/17/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Mr. Ryan Vanne
2917 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. Vanne:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.


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 are attached.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,


Kathleen McDaniel
Interim 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 RIVER CENTER DRIVE
 MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT Invoice # E26500
 Project # 60311767
 Lab Code 5026500A
 Sample ID 2917 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26500

Lab Code 5026500A
Sample ID 2917 CTH CR
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	100	REC %				8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	92	REC %				8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %				8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	94	REC %				8260B		2/7/2014	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.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

Contact Person DAVE HEDUSSON
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1
 Laboratory Synergy Environmental
 Contact Person Mike Ricker
 Phone No. 920-830-2455
 Results Due _____

3026500
 A

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
2917 CTH CR	2/4/14	1415	x	-	3	Water	x		-	-	-	-	VOCs	

Collected by: <u>Jordan J</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Shirley Rose</u>	Date <u>2/17/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

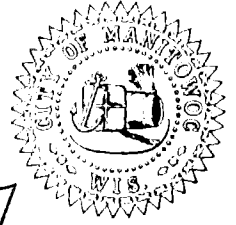
Final Disposition: Disposal by Lab

Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract
Results by 2/17/14



CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

February 12, 2014

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

Dear Mr. & Mrs. Tulach:

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 Tuesday, February 4, 2014.

The City is in receipt of the sample results for your property. The preliminary 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 are attached.

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

- Well water/sample results: Liz Heinen (920)993-7056; WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or Annette Weissbach (920)662-5165; WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393; Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, 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



Synergy Environmental Lab, INC.

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

DAVE HENDERSON
AECOM
1555 N RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26502

Lab Code 5026502A
Sample ID 3921 BLACKHAWK
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63		2	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	0.87 "J"	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26502

Lab Code 5026502A
 Sample ID 3921 BLACKHAWK
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	101	REC %				8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %				8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %				8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	95	REC %				8260B		2/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

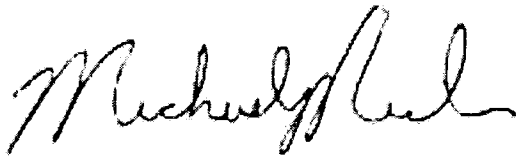
LOQ Limit of Quantitation

Code Comment

- 1 Laboratory QC within limits.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature



No 3691

Chain of Custody Record

Contact Person Dave Henderson
 Phone No. 914-944-6190 Office Milwaukee, WI
 Project No. 60311267 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number Through 1
 Laboratory Synergy Environmental
 Contact Person _____
 Phone No. _____
 Results Due _____

3026502
 A

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
3921 Blackhawk	2/11/14	1515	X	-	3	Water	X		-	-	-	-	VOCs	

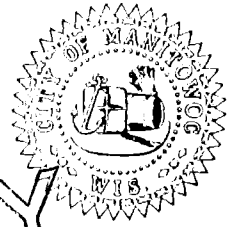
Collected by: <u>[Signature]</u>	Date <u>2/7/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>[Signature]</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: Disposal by Lab Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract
Results by 2/17/14

CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



COPY

February 12, 2014

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

Dear Mr. Anhalt:

As you may be aware, the City of Manitowoc has been working with the Wisconsin Department of Natural Resources (WDNR) since the early 1990's to investigate soil and groundwater contamination at the Former Newton Gravel Pit located at 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 Tuesday, February 4, 2014.


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 are attached.


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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services

Again, we very much appreciate your concern while we gather data in order to ensure the best possible solution to the water quality issue. If you have any questions in the meantime, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,


Kathleen McDaniel
Interim 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 RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26504

Lab Code 5026504A
Sample ID 3224 CTH CR
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26504

Lab Code 5026504A
 Sample ID 3224 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		2/7/2014	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.
- 8 Closing calibration standard not within established limits.

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

Authorized Signature

No 3693

Chain of Custody Record

Contact Person Dave Henderson
 Phone No. 414-944-6190 Office Milwaukee, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

Rush
 Verbal
 Other

Record Number 1 Through 1
 Laboratory Synergy Environmental
 Contact Person Mike Pickett
 Phone No. 262-920-8302
 Results Due _____

2026504
 at 3224 CTH CR

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
3224 CTH CR	2/4/14	1615	X		3	Water	X		-	-	-	-	VOCs	

Collected by: <u>Jordan [Signature]</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>[Signature]</u>	Date <u>2/7/14</u>	Time <u>8:30</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

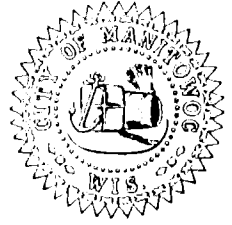
Final Disposition: Disposal by lab

Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract
Results by 2/17/14



CITY OF MANITOWOC

WISCONSIN, USA
www.manitowoc.org



February 12, 2014

Mr. & Mrs. Ronald Eberhardt
3023 CTH CR
Manitowoc, WI 54220

COPY

Dear Mr. & Mrs. Eberhardt:

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 Tuesday, February 4, 2014.

The City is in receipt of the sample results for your property. The preliminary results indicate the presence of VOC's above Enforcement Standards. As soon as the City received the results you were notified and provided with bottled water to use for drinking and cooking. Water Care has been contacted and will be delivering bottled water to your residence until a suitable alternative is determined. A copy of your preliminary laboratory analytical results are attached.

The City wants to make every effort to ensure that no ill effects arise from this water, which is why we are supplying you with water until the contamination is confirmed.

If it is determined that the Enforcement Standards are exceeded for your property, we will likely install a new, deeper well, or install a carbon filter system, at no cost to you.

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

- Well water/sample results: Liz Heinen (920)993-7056
WDNR, Drinking & Groundwater
- Investigation/future activities: Tauren Beggs (920)662-5178 or
Annette Weissbach (920)662-5165
WDNR, Remediation & Redevelopment
- Health Questions: Liz Truslow-Evans (608)266-3393
Wisconsin Department of Health Services



We very much appreciate your concern and we wish to inconvenience you as little as possible while we work through this situation. If you have any questions, please do not hesitate to call Kathleen McDaniel at 686-6990.

Sincerely,



Kathleen McDaniel
Interim 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 RIVER CENTER DRIVE
MILWAUKEE, WI 53212

Report Date 10-Feb-14

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26499

Lab Code 5026499A
Sample ID 3023 CTH CR
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63		2	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	2.84	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32		1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33		1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26499

Lab Code 5026499A
 Sample ID 3023 CTH CR
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	0.55 "J"	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
 Project # 60311767

Invoice # E26499

Lab Code 5026499B
 Sample ID 3023 CTH CR DUP
 Sample Matrix water
 Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/7/2014	CJR	1
cis-1,2-Dichloroethene	2.96	ug/l	0.38	1.2	1	8260B		2/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/7/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/7/2014	CJR	1
Vinyl Chloride	0.58	ug/l	0.18	0.57	1	8260B		2/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/7/2014	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		2/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/7/2014	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/7/2014	CJR	1

Project Name FMR NEWTON GRAVEL PIT
Project # 60311767

Invoice # E26499

"J" Flag: Analyte detected between LOD and LOQ

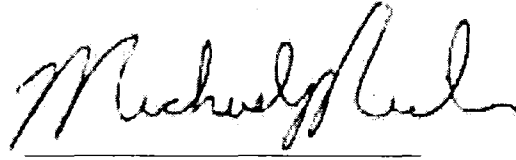
LOD Limit of Detection

LOQ Limit of Quantitation

<i>Code</i>	<i>Comment</i>
1	Laboratory QC within limits.
8	Closing calibration standard not within established limits.

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

Authorized Signature



Chain of Custody Record

Contact Person Dave Henderson
 Phone No. 414-944-6190 Office Hilmaulca, WI
 Project No. 60311767 PO No. _____
 Project Name Newton Gravel Pit

Special Handling Request

- Rush
- Verbal
- Other

Record Number 1 Through 1

Laboratory Synergy Environmental
 Contact Person Mike Ricker
 Phone No. 920-830-2455
 Results Due _____

Sample I.D.	Date	Time	Grab	Composite	No. of Containers	Sample Type (Water, soil, air, sludge, etc.)	Preservation		Field Data				Analysis Request	Comments on Sample (Include Major Contaminants)
							Y	N	PID/FID		PH	Special Cond.		
									Ambient	Sample				
A 3023 CTH CR	2/4/14	1345	x	-	3	Water	x	-	-	-	-	-	VOCs	
B 3023 CTH CR DUP	2/9/14	1345	x	-	3	Water	x	-	-	-	-	-	VOCs	

Collected by: <u>Jordan J</u>	Date <u>2/6/14</u>	Time <u>0700</u>	Delivery by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received by:	Date	Time	Relinquished by:	Date	Time
Received for lab by: <u>Christie Brown</u>	Date <u>2/7/14</u>	Time <u>8:00</u>	Relinquished by:	Date	Time

Laboratory Comments Only: Seals Intact Upon Receipt? Yes No N/A

Final Disposition: Disposal by Lab

Comments (Weather Conditions, Precautions, Hazards):
Analysis per Contract Results by 2/17/14