

**From:** Daniel O'Connell <Dan.Oconnell@omni.com>  
**Sent:** Friday, April 17, 2020 8:45 AM  
**To:** Krueger, Sarah E - DNR  
**Subject:** RE: QuicFrez groundwater results  
**Attachments:** WaterTable\_20200225\_090301.pdf; Report.pdf

Here you go, Sarah.

Please let me know if you need anything else.

**Daniel J. O'Connell, P.G.**

ENVIRONMENTAL PROJECT MANAGER

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a **Westwood** company

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**From:** Krueger, Sarah E - DNR <[sarah.krueger@wisconsin.gov](mailto:sarah.krueger@wisconsin.gov)>  
**Sent:** Friday, April 17, 2020 8:27 AM  
**To:** Daniel O'Connell <[Dan.Oconnell@omni.com](mailto:Dan.Oconnell@omni.com)>  
**Subject:** QuicFrez groundwater results

Good Morning Dan,

Did you receive the groundwater sampling results for QuicFrez? I was looking back and didn't notice the groundwater results. If you have the lab data available, no need to have in the table just yet, I would appreciate getting that. We are having a meeting with the city today to discuss funding opportunities and next steps.

Thank you,  
Sarah

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Sarah Krueger, P.G.**

Contaminated Sediment Specialist  
Wisconsin Department of Natural Resources  
2984 Shawano Avenue, Green Bay WI 54313-6727  
Phone: (920) 662-5443

Temporary Cell: (920) 366-7924  
[Sarah.Krueger@wisconsin.gov](mailto:Sarah.Krueger@wisconsin.gov)



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# Synergy Environmental Lab, INC

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DAN O'CONNELL  
OMNNI ASSOCIATES INC  
ONE SYSTEMS DRIVE  
APPLETON WI 54914-1654

Report Date 24-Feb-20

Project Name QUICFREZ  
Project # R3000861.00

Invoice # E37507

Lab Code 5037507A  
Sample ID TRIP BLANK  
Sample Matrix Water  
Sample Date 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1

**Project Name** QUICFREZ  
**Project #** R3000861.00

**Invoice #** E37507

**Lab Code** 5037507A  
**Sample ID** TRIP BLANK  
**Sample Matrix** Water  
**Sample Date** 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/20/2020	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		2/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		2/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		2/20/2020	CJR	1

Project Name QUICFREZ  
 Project # R3000861.00

Invoice # E37507

Lab Code 5037507B  
 Sample ID MW-20  
 Sample Matrix Water  
 Sample Date 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1

**Project Name** QUICFREZ  
**Project #** R3000861.00

**Invoice #** E37507

**Lab Code** 5037507B  
**Sample ID** MW-20  
**Sample Matrix** Water  
**Sample Date** 2/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		2/20/2020	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		2/20/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/20/2020	CJR	1

**Project Name** QUICFREZ  
**Project #** R3000861.00

**Invoice #** E37507

**Lab Code** 5037507C  
**Sample ID** MW-6  
**Sample Matrix** Water  
**Sample Date** 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/20/2020	CJR	1
Carbon Tetrachloride	6.5	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
Chloroform	4.0	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/20/2020	CJR	1
cis-1,2-Dichloroethene	3.02	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32		1	8260B		2/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33		1	8260B		2/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1

**Project Name** QUICFREZ  
**Project #** R3000861.00

**Invoice #** E37507

**Lab Code** 5037507C  
**Sample ID** MW-6  
**Sample Matrix** Water  
**Sample Date** 2/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Trichloroethene (TCE)	7.3	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		2/20/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			1	8260B		2/20/2020	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/20/2020	CJR	1



Project Name QUICFREZ  
Project # R3000861.00

Invoice # E37507

Lab Code 5037507D  
Sample ID MW-17  
Sample Matrix Water  
Sample Date 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1

**Project Name** QUICFREZ  
**Project #** R3000861.00

**Invoice #** E37507

**Lab Code** 5037507D  
**Sample ID** MW-17  
**Sample Matrix** Water  
**Sample Date** 2/17/2020

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		2/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		2/20/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/20/2020	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/20/2020	CJR	1

Project Name QUICFREZ  
Project # R3000861.00

Invoice # E37507

Lab Code 5037507E  
Sample ID DUP-1  
Sample Matrix Water  
Sample Date 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Bromobenzene	< 0.26	ug/l	0.26	0.84	1	8260B		2/20/2020	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Bromoform	< 0.65	ug/l	0.65	2.1	1	8260B		2/20/2020	CJR	1
tert-Butylbenzene	< 0.61	ug/l	0.61	1.9	1	8260B		2/20/2020	CJR	1
sec-Butylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
n-Butylbenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/20/2020	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
Chlorobenzene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
Chloroform	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1
Chloromethane	< 0.8	ug/l	0.8	2.5	1	8260B		2/20/2020	CJR	1
2-Chlorotoluene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
4-Chlorotoluene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,2-Dibromo-3-chloropropane	< 0.82	ug/l	0.82	2.6	1	8260B		2/20/2020	CJR	1
Dibromochloromethane	< 0.23	ug/l	0.23	0.74	1	8260B		2/20/2020	CJR	1
1,4-Dichlorobenzene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
1,3-Dichlorobenzene	< 0.31	ug/l	0.31	0.98	1	8260B		2/20/2020	CJR	1
1,2-Dichlorobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Dichlorodifluoromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/20/2020	CJR	1
1,2-Dichloroethane	< 0.39	ug/l	0.39	1.3	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/20/2020	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	8260B		2/20/2020	CJR	1
cis-1,2-Dichloroethene	< 0.39	ug/l	0.39	1.2	1	8260B		2/20/2020	CJR	1
trans-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,2-Dichloropropane	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
1,3-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	8260B		2/20/2020	CJR	1
trans-1,3-Dichloropropene	< 0.3	ug/l	0.3	0.94	1	8260B		2/20/2020	CJR	1
cis-1,3-Dichloropropene	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Di-isopropyl ether	< 0.34	ug/l	0.34	1.1	1	8260B		2/20/2020	CJR	1
EDB (1,2-Dibromoethane)	< 0.24	ug/l	0.24	0.75	1	8260B		2/20/2020	CJR	1
Ethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Hexachlorobutadiene	< 0.72	ug/l	0.72	2.3	1	8260B		2/20/2020	CJR	1
Isopropylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
p-Isopropyltoluene	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/20/2020	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Naphthalene	< 1.1	ug/l	1.1	3.6	1	8260B		2/20/2020	CJR	1
n-Propylbenzene	< 0.33	ug/l	0.33	1.1	1	8260B		2/20/2020	CJR	1
1,1,2,2-Tetrachloroethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/20/2020	CJR	1
1,1,1,2-Tetrachloroethane	< 0.88	ug/l	0.88	2.8	1	8260B		2/20/2020	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1	1	8260B		2/20/2020	CJR	1
Toluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/20/2020	CJR	1
1,2,4-Trichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/20/2020	CJR	1

Project Name QUICFREZ  
Project # R3000861.00

Invoice # E37507

Lab Code 5037507E  
Sample ID DUP-1  
Sample Matrix Water  
Sample Date 2/17/2020

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1	ug/l	1	3.2	1	8260B		2/20/2020	CJR	1
1,1,1-Trichloroethane	< 0.3	ug/l	0.3	0.95	1	8260B		2/20/2020	CJR	1
1,1,2-Trichloroethane	< 0.36	ug/l	0.36	1.1	1	8260B		2/20/2020	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/20/2020	CJR	1
Trichlorofluoromethane	< 0.42	ug/l	0.42	1.3	1	8260B		2/20/2020	CJR	1
1,2,4-Trimethylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/20/2020	CJR	1
1,3,5-Trimethylbenzene	< 0.32	ug/l	0.32	1	1	8260B		2/20/2020	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/20/2020	CJR	1
m&p-Xylene	< 1.1	ug/l	1.1	3.3	1	8260B		2/20/2020	CJR	1
o-Xylene	< 0.38	ug/l	0.38	1.2	1	8260B		2/20/2020	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		2/20/2020	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/20/2020	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		2/20/2020	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/20/2020	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

1      Laboratory QC within limits.

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

Authorized Signature

## Quic Frez

Table A.1. - Groundwater Analytical Table

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




Chemical Name			cis-1,2-Dichloroethene	Carbon Tetrachloride	Chloroform	Trichloroethene (TCE)
ES (µg/L)			70	5	6	5
PAL (µg/L)			7	0.5	0.6	0.5
<i>strWellName</i>	<i>SampleID</i>	<i>Date</i>	<i>156-59-2</i>	<i>56-23-5</i>	<i>67-66-3</i>	<i>79-01-6</i>
MW-6	MW-6	2/17/2020	<b>3.02</b>	<b>6.5</b>	<b>4</b>	<b>7.3</b>
MW-17	MW-17	2/17/2020	< 0.39	< 0.31	< 0.44	< 0.47
DUP-1	DUP-1	2/17/2020	< 0.39	< 0.31	< 0.44	< 0.47
MW-20	MW-20	2/17/2020	< 0.39	< 0.31	< 0.44	< 0.47

BOLD entries indicate concentration detected above NR 140 Enforcement Standard (ES)

Italic entries indicate concentration above NR 140 Preventive Action Limit (PAL)

J = Analyte detected between the limit of detection and limit of quantitation.

All concentrations in µg/L.

	Detect in groundwater exceeding ES
	Detect in groundwater exceeding PAL
	Detect in groundwater between LOD and PAL