

## Analytical Report

Timothy J. Anderson  
United Engineering Consultants, Inc.  
2938 S. 166th St.  
New Berlin, WI 53151

June 29, 2022

Work Order: 22F0538

RE: UEC Analysis  
19006

Dear Timothy J. Anderson:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

This is a revised report, that supersedes all previous reports. Please see case narrative for an explanation of revision.

Sincerely,

Approved by,



Tim Witrzek  
Federal Program Manager  
847.967.6666  
[twitrzek@emt.com](mailto:twitrzek@emt.com)

Approved for release: 6/28/2022 5:06:09PM



Nathan Fey  
Laboratory Operations Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Wisconsin Dept of Natural Resources, Cert No. 999888890

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### Sample Summary

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
MW-2	22F0538-01	Groundwater	06/10/22 10:27	06/13/22 10:00
MW-2R	22F0538-02	Groundwater	06/10/22 10:30	06/13/22 10:00
Trip Blank	22F0538-03	Water	06/10/22 00:00	06/13/22 10:00

## Case Narrative

**Client:** United Engineering Consultants, Inc.

**Date:** 06/29/2022

**Project:** UEC Analysis  
19006

**Work Order:** 22F0538

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All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

**Work Order: 22F0538**

The samples were received on 06/13/22 10:00. The temperature of the cooler(s) at receipt was:

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	2.6

Sample 03 (1 vial) contain larger than pea-sized (6 mm) air bubbles.

Revision 1).

Per client request, the VOC analytical list for 22F0538-01/02/03.

### Client Sample Results

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Client Sample ID:** MW-2  
**Report Date:** 06/29/2022  
**Collection Date:** 06/10/2022 10:27  
**Matrix:** Groundwater  
**Lab ID:** 22F0538-01

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
<b>Volatile Organic Compounds by GC/MS</b>										
Method: SW8260B/D / SW5030										
1,1,1-Trichloroethane	< 0.719	4.00		ug/L	0.719	06/20/22 14:29	B2F0743	PO1	1	
1,1,2,2-Tetrachloroethane	< 0.713	4.00		ug/L	0.713	06/20/22 14:29	B2F0743	PO1	1	
1,1,2-Trichloroethane	< 0.198	2.00		ug/L	0.198	06/20/22 14:29	B2F0743	PO1	1	
1,1-Dichloroethane	< 0.190	2.00		ug/L	0.190	06/20/22 14:29	B2F0743	PO1	1	
1,1-Dichloroethene	< 1.10	8.00		ug/L	1.10	06/20/22 14:29	B2F0743	PO1	1	
1,2,4-Trimethylbenzene	< 0.753	4.00		ug/L	0.753	06/20/22 14:29	B2F0743	PO1	1	
1,2-Dibromo-3-chloropropane	< 2.60	20.0		ug/L	2.60	06/20/22 14:29	B2F0743	PO1	1	
1,2-Dibromoethane	< 0.420	2.00		ug/L	0.420	06/20/22 14:29	B2F0743	PO1	1	
1,2-Dichloroethane	< 0.731	4.00		ug/L	0.731	06/20/22 14:29	B2F0743	PO1	1	
1,2-Dichloropropane	< 0.557	4.00		ug/L	0.557	06/20/22 14:29	B2F0743	PO1	1	
1,3,5-Trimethylbenzene	< 0.351	2.00		ug/L	0.351	06/20/22 14:29	B2F0743	PO1	1	
1,3-Dichloropropane	< 0.345	2.00		ug/L	0.345	06/20/22 14:29	B2F0743	PO1	1	
1-Butanol	< 22.2	200		ug/L	22.2	06/20/22 14:29	B2F0743	PO1	1	
2-Butanone	< 4.79	28.0		ug/L	4.79	06/20/22 14:29	B2F0743	PO1	1	
2-Hexanone	< 4.74	28.0		ug/L	4.74	06/20/22 14:29	B2F0743	PO1	1	
4-Methyl-2-pentanone	< 4.40	28.0		ug/L	4.40	06/20/22 14:29	B2F0743	PO1	1	
Acetone	< 9.21	70.0		ug/L	9.21	06/20/22 14:29	B2F0743	PO1	1	
Acrolein	< 1.67	10.0		ug/L	1.67	06/20/22 14:29	B2F0743	PO1	1	
Acrylonitrile	< 0.628	4.00		ug/L	0.628	06/20/22 14:29	B2F0743	PO1	1	
Benzene	< 0.362	2.00		ug/L	0.362	06/20/22 14:29	B2F0743	PO1	1	
Bromodichloromethane	< 0.458	2.00		ug/L	0.458	06/20/22 14:29	B2F0743	PO1	1	
Bromoform	< 0.570	4.00		ug/L	0.570	06/20/22 14:29	B2F0743	PO1	1	
Bromomethane	< 6.07	40.0		ug/L	6.07	06/20/22 14:29	B2F0743	PO1	1	
Carbon disulfide	< 0.739	4.00		ug/L	0.739	06/20/22 14:29	B2F0743	PO1	1	
Carbon tetrachloride	< 3.07	20.0		ug/L	3.07	06/20/22 14:29	B2F0743	PO1	1	
Chlorobenzene	< 0.350	2.00		ug/L	0.350	06/20/22 14:29	B2F0743	PO1	1	
Chloroethane	< 0.621	4.00		ug/L	0.621	06/20/22 14:29	B2F0743	PO1	1	
Chloroform	< 0.450	4.00		ug/L	0.450	06/20/22 14:29	B2F0743	PO1	1	
Chloromethane	< 1.30	8.00		ug/L	1.30	06/20/22 14:29	B2F0743	PO1	1	
cis-1,2-Dichloroethene	< 0.652	4.00		ug/L	0.652	06/20/22 14:29	B2F0743	PO1	1	
cis-1,3-Dichloropropene	< 0.408	4.00		ug/L	0.408	06/20/22 14:29	B2F0743	PO1	1	
Cyclohexane	< 1.97	10.0		ug/L	1.97	06/20/22 14:29	B2F0743	PO1	1	
Dibromochloromethane	< 0.632	4.00		ug/L	0.632	06/20/22 14:29	B2F0743	PO1	1	
Ethylbenzene	< 0.580	4.00		ug/L	0.580	06/20/22 14:29	B2F0743	PO1	1	
Isopropylbenzene	< 1.53	10.0		ug/L	1.53	06/20/22 14:29	B2F0743	PO1	1	
m,p-Xylene	< 1.58	8.00		ug/L	1.58	06/20/22 14:29	B2F0743	PO1	1	
Methyl tert-butyl ether	< 0.838	4.00		ug/L	0.838	06/20/22 14:29	B2F0743	PO1	1	
Methylene chloride	< 4.50	20.0		ug/L	4.50	06/20/22 14:29	B2F0743	PO1	1	
Naphthalene	< 4.82	20.0		ug/L	4.82	06/20/22 14:29	B2F0743	PO1	1	
o-Xylene	< 0.660	4.00		ug/L	0.660	06/20/22 14:29	B2F0743	PO1	1	
Styrene	< 1.17	8.00		ug/L	1.17	06/20/22 14:29	B2F0743	PO1	1	
<b>Tetrachloroethene</b>	<b>15.8</b>	4.00		ug/L	0.646	06/20/22 14:29	B2F0743	PO1	1	
Toluene	< 0.510	4.00		ug/L	0.510	06/20/22 14:29	B2F0743	PO1	1	
trans-1,2-Dichloroethene	< 0.566	4.00		ug/L	0.566	06/20/22 14:29	B2F0743	PO1	1	
trans-1,3-Dichloropropene	< 1.17	8.00		ug/L	1.17	06/20/22 14:29	B2F0743	PO1	1	

**Client Sample Results**

(Continued)

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Client Sample ID:** MW-2  
**Report Date:** 06/29/2022  
**Collection Date:** 06/10/2022 10:27  
**Matrix:** Groundwater  
**Lab ID:** 22F0538-01 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual						
<b>Volatile Organic Compounds by GC/MS (Continued)</b>									
Method: SW8260B/D / SW5030 (Continued)									
Trichloroethene	< 0.939	4.00		ug/L	0.939	06/20/22 14:29	B2F0743	PO1	1
Vinyl acetate	< 0.948	4.00		ug/L	0.948	06/20/22 14:29	B2F0743	PO1	1
Vinyl chloride	< 0.582	4.00		ug/L	0.582	06/20/22 14:29	B2F0743	PO1	1
Xylenes, Total	< 1.62	12.0		ug/L	1.62	06/20/22 14:29	B2F0743	PO1	1
1,3-Dichloropropene, Total	< 1.48	8.00		ug/L	1.48	06/20/22 14:29	B2F0743	PO1	1
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 103%</i>	<i>Limits: 84-137</i>	<i>06/20/22 14:29</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 74-140</i>	<i>06/20/22 14:29</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 100%</i>	<i>Limits: 90-105</i>	<i>06/20/22 14:29</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 99%</i>	<i>Limits: 74-109</i>	<i>06/20/22 14:29</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 103%</i>	<i>Limits: 86-128</i>	<i>06/20/22 14:29</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 100%</i>	<i>Limits: 90-128</i>	<i>06/20/22 14:29</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>

**Client Sample Results**

(Continued)

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Client Sample ID:** MW-2R  
**Report Date:** 06/29/2022  
**Collection Date:** 06/10/2022 10:30  
**Matrix:** Groundwater  
**Lab ID:** 22F0538-02

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
<b>Volatile Organic Compounds by GC/MS</b>										
Method: SW8260B/D / SW5030										
1,1,1-Trichloroethane	< 0.719	4.00		ug/L	0.719	06/20/22 14:56	B2F0743	PO1	1	
1,1,2,2-Tetrachloroethane	< 0.713	4.00		ug/L	0.713	06/20/22 14:56	B2F0743	PO1	1	
1,1,2-Trichloroethane	< 0.198	2.00		ug/L	0.198	06/20/22 14:56	B2F0743	PO1	1	
1,1-Dichloroethane	< 0.190	2.00		ug/L	0.190	06/20/22 14:56	B2F0743	PO1	1	
1,1-Dichloroethene	< 1.10	8.00		ug/L	1.10	06/20/22 14:56	B2F0743	PO1	1	
1,2,4-Trimethylbenzene	< 0.753	4.00		ug/L	0.753	06/20/22 14:56	B2F0743	PO1	1	
1,2-Dibromo-3-chloropropane	< 2.60	20.0		ug/L	2.60	06/20/22 14:56	B2F0743	PO1	1	
1,2-Dibromoethane	< 0.420	2.00		ug/L	0.420	06/20/22 14:56	B2F0743	PO1	1	
1,2-Dichloroethane	< 0.731	4.00		ug/L	0.731	06/20/22 14:56	B2F0743	PO1	1	
1,2-Dichloropropane	< 0.557	4.00		ug/L	0.557	06/20/22 14:56	B2F0743	PO1	1	
1,3,5-Trimethylbenzene	< 0.351	2.00		ug/L	0.351	06/20/22 14:56	B2F0743	PO1	1	
1,3-Dichloropropane	< 0.345	2.00		ug/L	0.345	06/20/22 14:56	B2F0743	PO1	1	
1-Butanol	< 22.2	200		ug/L	22.2	06/20/22 14:56	B2F0743	PO1	1	
2-Butanone	< 4.79	28.0		ug/L	4.79	06/20/22 14:56	B2F0743	PO1	1	
2-Hexanone	< 4.74	28.0		ug/L	4.74	06/20/22 14:56	B2F0743	PO1	1	
4-Methyl-2-pentanone	< 4.40	28.0		ug/L	4.40	06/20/22 14:56	B2F0743	PO1	1	
Acetone	< 9.21	70.0		ug/L	9.21	06/20/22 14:56	B2F0743	PO1	1	
Acrolein	< 1.67	10.0		ug/L	1.67	06/20/22 14:56	B2F0743	PO1	1	
Acrylonitrile	< 0.628	4.00		ug/L	0.628	06/20/22 14:56	B2F0743	PO1	1	
Benzene	< 0.362	2.00		ug/L	0.362	06/20/22 14:56	B2F0743	PO1	1	
Bromodichloromethane	< 0.458	2.00		ug/L	0.458	06/20/22 14:56	B2F0743	PO1	1	
Bromoform	< 0.570	4.00		ug/L	0.570	06/20/22 14:56	B2F0743	PO1	1	
Bromomethane	< 6.07	40.0		ug/L	6.07	06/20/22 14:56	B2F0743	PO1	1	
Carbon disulfide	< 0.739	4.00		ug/L	0.739	06/20/22 14:56	B2F0743	PO1	1	
Carbon tetrachloride	< 3.07	20.0		ug/L	3.07	06/20/22 14:56	B2F0743	PO1	1	
Chlorobenzene	< 0.350	2.00		ug/L	0.350	06/20/22 14:56	B2F0743	PO1	1	
Chloroethane	< 0.621	4.00		ug/L	0.621	06/20/22 14:56	B2F0743	PO1	1	
Chloroform	< 0.450	4.00		ug/L	0.450	06/20/22 14:56	B2F0743	PO1	1	
Chloromethane	< 1.30	8.00		ug/L	1.30	06/20/22 14:56	B2F0743	PO1	1	
cis-1,2-Dichloroethene	< 0.652	4.00		ug/L	0.652	06/20/22 14:56	B2F0743	PO1	1	
cis-1,3-Dichloropropene	< 0.408	4.00		ug/L	0.408	06/20/22 14:56	B2F0743	PO1	1	
Cyclohexane	< 1.97	10.0		ug/L	1.97	06/20/22 14:56	B2F0743	PO1	1	
Dibromochloromethane	< 0.632	4.00		ug/L	0.632	06/20/22 14:56	B2F0743	PO1	1	
Ethylbenzene	< 0.580	4.00		ug/L	0.580	06/20/22 14:56	B2F0743	PO1	1	
Isopropylbenzene	< 1.53	10.0		ug/L	1.53	06/20/22 14:56	B2F0743	PO1	1	
m,p-Xylene	< 1.58	8.00		ug/L	1.58	06/20/22 14:56	B2F0743	PO1	1	
Methyl tert-butyl ether	< 0.838	4.00		ug/L	0.838	06/20/22 14:56	B2F0743	PO1	1	
Methylene chloride	< 4.50	20.0		ug/L	4.50	06/20/22 14:56	B2F0743	PO1	1	
Naphthalene	< 4.82	20.0		ug/L	4.82	06/20/22 14:56	B2F0743	PO1	1	
o-Xylene	< 0.660	4.00		ug/L	0.660	06/20/22 14:56	B2F0743	PO1	1	
Styrene	< 1.17	8.00		ug/L	1.17	06/20/22 14:56	B2F0743	PO1	1	
<b>Tetrachloroethene</b>	<b>14.5</b>	4.00		ug/L	0.646	06/20/22 14:56	B2F0743	PO1	1	
Toluene	< 0.510	4.00		ug/L	0.510	06/20/22 14:56	B2F0743	PO1	1	
trans-1,2-Dichloroethene	< 0.566	4.00		ug/L	0.566	06/20/22 14:56	B2F0743	PO1	1	
trans-1,3-Dichloropropene	< 1.17	8.00		ug/L	1.17	06/20/22 14:56	B2F0743	PO1	1	

**Client Sample Results**

(Continued)

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Client Sample ID:** MW-2R  
**Report Date:** 06/29/2022  
**Collection Date:** 06/10/2022 10:30  
**Matrix:** Groundwater  
**Lab ID:** 22F0538-02 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
<b>Volatile Organic Compounds by GC/MS (Continued)</b>										
Method: SW8260B/D / SW5030 (Continued)										
Trichloroethene	< 0.939	4.00		ug/L	0.939	06/20/22 14:56	B2F0743	PO1	1	
Vinyl acetate	< 0.948	4.00		ug/L	0.948	06/20/22 14:56	B2F0743	PO1	1	
Vinyl chloride	< 0.582	4.00		ug/L	0.582	06/20/22 14:56	B2F0743	PO1	1	
Xylenes, Total	< 1.62	12.0		ug/L	1.62	06/20/22 14:56	B2F0743	PO1	1	
1,3-Dichloropropene, Total	< 1.48	8.00		ug/L	1.48	06/20/22 14:56	B2F0743	PO1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 101%</i>	<i>Limits: 84-137</i>	<i>06/20/22 14:56</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>	<i>06/20/22 14:56</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>06/20/22 14:56</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 97%</i>	<i>Limits: 74-109</i>	<i>06/20/22 14:56</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 106%</i>	<i>Limits: 86-128</i>	<i>06/20/22 14:56</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 103%</i>	<i>Limits: 90-128</i>	<i>06/20/22 14:56</i>	<i>B2F0743</i>	<i>PO1</i>	<i>1</i>	



**Client Sample Results**

(Continued)

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Client Sample ID:** Trip Blank  
**Report Date:** 06/29/2022  
**Collection Date:** 06/10/2022 00:00  
**Matrix:** Water  
**Lab ID:** 22F0538-03

Analyses	Result	EMT		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Reporting Limit	Qual							
<b>Volatile Organic Compounds by GC/MS</b>										
Method: SW8260B/D / SW5030										
1,1,1-Trichloroethane	< 0.719	4.00		ug/L	0.719	06/18/22 00:18	B2F0692	PO1	1	
1,1,2,2-Tetrachloroethane	< 0.713	4.00		ug/L	0.713	06/18/22 00:18	B2F0692	PO1	1	
1,1,2-Trichloroethane	< 0.198	2.00		ug/L	0.198	06/18/22 00:18	B2F0692	PO1	1	
1,1-Dichloroethane	< 0.190	2.00		ug/L	0.190	06/18/22 00:18	B2F0692	PO1	1	
1,1-Dichloroethene	< 1.10	8.00		ug/L	1.10	06/18/22 00:18	B2F0692	PO1	1	
1,2,4-Trimethylbenzene	< 0.753	4.00		ug/L	0.753	06/18/22 00:18	B2F0692	PO1	1	
1,2-Dibromo-3-chloropropane	< 2.60	20.0		ug/L	2.60	06/18/22 00:18	B2F0692	PO1	1	
1,2-Dibromoethane	< 0.420	2.00		ug/L	0.420	06/18/22 00:18	B2F0692	PO1	1	
1,2-Dichloroethane	< 0.731	4.00		ug/L	0.731	06/18/22 00:18	B2F0692	PO1	1	
1,2-Dichloropropane	< 0.557	4.00		ug/L	0.557	06/18/22 00:18	B2F0692	PO1	1	
1,3,5-Trimethylbenzene	< 0.351	2.00		ug/L	0.351	06/18/22 00:18	B2F0692	PO1	1	
1,3-Dichloropropane	< 0.345	2.00		ug/L	0.345	06/18/22 00:18	B2F0692	PO1	1	
1-Butanol	< 22.2	200		ug/L	22.2	06/18/22 00:18	B2F0692	PO1	1	
2-Butanone	< 4.79	28.0		ug/L	4.79	06/18/22 00:18	B2F0692	PO1	1	
2-Hexanone	< 4.74	28.0		ug/L	4.74	06/18/22 00:18	B2F0692	PO1	1	
4-Methyl-2-pentanone	< 4.40	28.0		ug/L	4.40	06/18/22 00:18	B2F0692	PO1	1	
Acetone	< 9.21	70.0		ug/L	9.21	06/18/22 00:18	B2F0692	PO1	1	
Acrolein	< 1.67	10.0		ug/L	1.67	06/18/22 00:18	B2F0692	PO1	1	
Acrylonitrile	< 0.628	4.00		ug/L	0.628	06/18/22 00:18	B2F0692	PO1	1	
Benzene	< 0.362	2.00		ug/L	0.362	06/18/22 00:18	B2F0692	PO1	1	
Bromodichloromethane	< 0.458	2.00		ug/L	0.458	06/18/22 00:18	B2F0692	PO1	1	
Bromoform	< 0.570	4.00		ug/L	0.570	06/18/22 00:18	B2F0692	PO1	1	
Bromomethane	< 6.07	40.0		ug/L	6.07	06/18/22 00:18	B2F0692	PO1	1	
Carbon disulfide	< 0.739	4.00		ug/L	0.739	06/18/22 00:18	B2F0692	PO1	1	
Carbon tetrachloride	< 3.07	20.0		ug/L	3.07	06/18/22 00:18	B2F0692	PO1	1	
Chlorobenzene	< 0.350	2.00		ug/L	0.350	06/18/22 00:18	B2F0692	PO1	1	
Chloroethane	< 0.621	4.00		ug/L	0.621	06/18/22 00:18	B2F0692	PO1	1	
Chloroform	< 0.450	4.00		ug/L	0.450	06/18/22 00:18	B2F0692	PO1	1	
Chloromethane	< 1.30	8.00		ug/L	1.30	06/18/22 00:18	B2F0692	PO1	1	
cis-1,2-Dichloroethene	< 0.652	4.00		ug/L	0.652	06/18/22 00:18	B2F0692	PO1	1	
cis-1,3-Dichloropropene	< 0.408	4.00		ug/L	0.408	06/18/22 00:18	B2F0692	PO1	1	
Cyclohexane	< 1.97	10.0		ug/L	1.97	06/18/22 00:18	B2F0692	PO1	1	
Dibromochloromethane	< 0.632	4.00		ug/L	0.632	06/18/22 00:18	B2F0692	PO1	1	
Ethylbenzene	< 0.580	4.00		ug/L	0.580	06/18/22 00:18	B2F0692	PO1	1	
Isopropylbenzene	< 1.53	10.0		ug/L	1.53	06/18/22 00:18	B2F0692	PO1	1	
m,p-Xylene	< 1.58	8.00		ug/L	1.58	06/18/22 00:18	B2F0692	PO1	1	
Methyl tert-butyl ether	< 0.838	4.00		ug/L	0.838	06/18/22 00:18	B2F0692	PO1	1	
Methylene chloride	< 4.50	20.0		ug/L	4.50	06/18/22 00:18	B2F0692	PO1	1	
Naphthalene	< 4.82	20.0		ug/L	4.82	06/18/22 00:18	B2F0692	PO1	1	
o-Xylene	< 0.660	4.00		ug/L	0.660	06/18/22 00:18	B2F0692	PO1	1	
Styrene	< 1.17	8.00		ug/L	1.17	06/18/22 00:18	B2F0692	PO1	1	
Tetrachloroethene	< 0.646	4.00		ug/L	0.646	06/18/22 00:18	B2F0692	PO1	1	
Toluene	< 0.510	4.00		ug/L	0.510	06/18/22 00:18	B2F0692	PO1	1	
trans-1,2-Dichloroethene	< 0.566	4.00		ug/L	0.566	06/18/22 00:18	B2F0692	PO1	1	
trans-1,3-Dichloropropene	< 1.17	8.00		ug/L	1.17	06/18/22 00:18	B2F0692	PO1	1	

**Client Sample Results**

(Continued)

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Client Sample ID:** Trip Blank  
**Report Date:** 06/29/2022  
**Collection Date:** 06/10/2022 00:00  
**Matrix:** Water  
**Lab ID:** 22F0538-03 (Continued)

Analyses	Result	EMT Reporting		Units	MDL	Date/Time Analyzed	Batch	Analyst	DF	
		Limit	Qual							
<b>Volatile Organic Compounds by GC/MS (Continued)</b>										
Method: SW8260B/D / SW5030 (Continued)										
Trichloroethene	< 0.939	4.00		ug/L	0.939	06/18/22 00:18	B2F0692	PO1	1	
Vinyl acetate	< 0.948	4.00		ug/L	0.948	06/18/22 00:18	B2F0692	PO1	1	
Vinyl chloride	< 0.582	4.00		ug/L	0.582	06/18/22 00:18	B2F0692	PO1	1	
Xylenes, Total	< 1.62	12.0		ug/L	1.62	06/18/22 00:18	B2F0692	PO1	1	
1,3-Dichloropropene, Total	< 1.48	8.00		ug/L	1.48	06/18/22 00:18	B2F0692	PO1	1	
<i>Surrogate: Dibromofluoromethane</i>				<i>Recovery: 98%</i>	<i>Limits: 84-137</i>	<i>06/18/22 00:18</i>	<i>B2F0692</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>				<i>Recovery: 102%</i>	<i>Limits: 74-140</i>	<i>06/18/22 00:18</i>	<i>B2F0692</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: Fluorobenzene</i>				<i>Recovery: 101%</i>	<i>Limits: 90-105</i>	<i>06/18/22 00:18</i>	<i>B2F0692</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: Toluene-d8</i>				<i>Recovery: 100%</i>	<i>Limits: 74-109</i>	<i>06/18/22 00:18</i>	<i>B2F0692</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>				<i>Recovery: 107%</i>	<i>Limits: 86-128</i>	<i>06/18/22 00:18</i>	<i>B2F0692</i>	<i>PO1</i>	<i>1</i>	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>				<i>Recovery: 106%</i>	<i>Limits: 90-128</i>	<i>06/18/22 00:18</i>	<i>B2F0692</i>	<i>PO1</i>	<i>1</i>	

## Dates Report

**Client:** United Engineering Consultants, Inc.

**Report Date:** 06/29/2022

**Project:** UEC Analysis  
19006

**Work Order:** 22F0538

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
22F0538-01	MW-2	06/10/22	Groundwater	Volatile Organic Compounds by GC/MS		06/20/22 11:00	06/20/22 14:29	B2F0743	S2F0330
22F0538-02	MW-2R	06/10/22		Volatile Organic Compounds by GC/MS		06/20/22 11:00	06/20/22 14:56		
22F0538-03	Trip Blank	06/10/22	Water	Volatile Organic Compounds by GC/MS		06/17/22 14:00	06/18/22 00:18	B2F0692	S2F0306

### Quality Control

**Client:** United Engineering Consultants, Inc.  
**Project:** UEC Analysis  
 19006  
**Work Order:** 22F0538

**Report Date:** 06/29/2022  
**Matrix:** Water

### Volatiles Organic Compounds by GC/MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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#### Batch: B2F0692 - SW5030

#### Blank (B2F0692-BLK1)

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 23:52

1,1,1,2-Tetrachloroethane	< 0.706	4.00	ug/L								1
1,1,1-Trichloroethane	< 0.719	4.00	ug/L								1
1,1,2,2-Tetrachloroethane	< 0.713	4.00	ug/L								1
1,1,2-Trichloroethane	< 0.198	2.00	ug/L								1
1,1-Dichloroethane	< 0.190	2.00	ug/L								1
1,1-Dichloroethene	< 1.10	8.00	ug/L								1
1,1-Dichloropropene	< 2.58	20.0	ug/L								1
1,2,3-Trichlorobenzene	< 2.53	20.0	ug/L								1
1,2,3-Trichloropropane	< 0.598	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 0.753	4.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 2.60	20.0	ug/L								1
1,2-Dibromoethane	< 0.420	2.00	ug/L								1
1,2-Dichloroethane	< 0.731	4.00	ug/L								1
1,2-Dichloropropane	< 0.557	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 0.351	2.00	ug/L								1
1,3-Dichloropropane	< 0.345	2.00	ug/L								1
2,2-Dichloropropane	< 0.430	4.00	ug/L								1
2-Butanone	< 4.79	28.0	ug/L								1
2-Chlorotoluene	< 0.384	2.00	ug/L								1
2-Hexanone	< 4.74	28.0	ug/L								1
4-Isopropyltoluene	< 0.930	4.00	ug/L								1
4-Methyl-2-pentanone	< 4.40	28.0	ug/L								1
Acetone	< 9.21	70.0	ug/L								1
Benzene	< 0.362	2.00	ug/L								1
Bromobenzene	< 0.354	2.00	ug/L								1
Bromochloromethane	< 0.861	4.00	ug/L								1
Bromodichloromethane	< 0.458	2.00	ug/L								1
Bromoform	< 0.570	4.00	ug/L								1
Bromomethane	< 6.07	40.0	ug/L								1
Carbon disulfide	< 0.739	4.00	ug/L								1
Carbon tetrachloride	< 3.07	20.0	ug/L								1
Chlorobenzene	< 0.350	2.00	ug/L								1
Chloroethane	< 0.621	4.00	ug/L								1
Chloroform	< 0.450	4.00	ug/L								1
Chloromethane	< 1.30	8.00	ug/L								1
cis-1,2-Dichloroethene	< 0.652	4.00	ug/L								1
cis-1,3-Dichloropropene	< 0.408	4.00	ug/L								1
Cyclohexane	< 1.97	10.0	ug/L								1
Dibromochloromethane	< 0.632	4.00	ug/L								1
Dibromomethane	< 0.390	2.00	ug/L								1
Dichlorodifluoromethane	< 0.425	2.00	ug/L								1
Ethylbenzene	< 0.580	4.00	ug/L								1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0692 - SW5030 (Continued)****Blank (B2F0692-BLK1) (Continued)**

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 23:52

Isopropylbenzene	< 1.53	10.0	ug/L								1
m,p-Xylene	< 1.58	8.00	ug/L								1
Methyl tert-butyl ether	< 0.838	4.00	ug/L								1
Methylene chloride	< 4.50	20.0	ug/L								1
n-Butylbenzene	< 2.11	10.0	ug/L								1
n-Propylbenzene	< 0.780	4.00	ug/L								1
Naphthalene	< 4.82	20.0	ug/L								1
o-Xylene	< 0.660	4.00	ug/L								1
sec-Butylbenzene	< 1.02	4.00	ug/L								1
Styrene	< 1.17	8.00	ug/L								1
tert-Butylbenzene	< 0.800	4.00	ug/L								1
Tetrachloroethene	< 0.646	4.00	ug/L								1
Toluene	< 0.510	4.00	ug/L								1
trans-1,2-Dichloroethene	< 0.566	4.00	ug/L								1
trans-1,3-Dichloropropene	< 1.17	8.00	ug/L								1
Trichloroethene	< 0.939	4.00	ug/L								1
Trichlorofluoromethane	< 1.10	4.00	ug/L								1
Vinyl chloride	< 0.582	4.00	ug/L								1
Xylenes, Total	< 1.62	12.0	ug/L								1
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Surrogate: Dibromofluoromethane	19.8		ug/L	20.00		99	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.1		ug/L	20.00		100	74-140				1
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	90-105				1
Surrogate: Toluene-d8	20.3		ug/L	20.00		102	74-109				1
Surrogate: 4-Bromofluorobenzene	11.0		ug/L	10.00		110	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.8		ug/L	20.00		104	90-128				1

**LCS (B2F0692-BS1)**

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 22:33

1,1,1,2-Tetrachloroethane	48.7	4.00	ug/L	50.00		97	84-122				1
1,1,1-Trichloroethane	48.3	4.00	ug/L	50.00		97	74-131				1
1,1,2,2-Tetrachloroethane	55.1	4.00	ug/L	50.00		110	71-121				1
1,1,2-Trichloroethane	50.3	2.00	ug/L	50.00		101	83-139				1
1,1-Dichloroethane	49.1	2.00	ug/L	50.00		98	77-125				1
1,1-Dichloroethene	51.1	8.00	ug/L	50.00		102	71-131				1
1,1-Dichloropropene	46.9	20.0	ug/L	50.00		94	79-125				1
1,2,3-Trichlorobenzene	47.0	20.0	ug/L	50.00		94	69-129				1
1,2,3-Trichloropropane	54.3	4.00	ug/L	50.00		109	73-122				1
1,2,4-Trimethylbenzene	50.9	4.00	ug/L	50.00		102	76-124				1
1,2-Dibromo-3-chloropropane	51.3	20.0	ug/L	50.00		103	72-124				1
1,2-Dibromoethane	50.2	2.00	ug/L	50.00		100	77-121				1
1,2-Dichloroethane	49.6	4.00	ug/L	50.00		99	73-128				1
1,2-Dichloropropane	50.0	4.00	ug/L	50.00		100	78-122				1
1,3,5-Trimethylbenzene	50.4	2.00	ug/L	50.00		101	75-124				1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0692 - SW5030** (Continued)**LCS (B2F0692-BS1)** (Continued)

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 22:33

1,3-Dichloropropane	51.9	2.00	ug/L	50.00		104	82-130				1
2,2-Dichloropropane	41.3	4.00	ug/L	50.00		83	60-139				1
2-Butanone	178	28.0	ug/L	175.0		102	70-137				1
2-Chlorotoluene	51.2	2.00	ug/L	50.00		102	79-122				1
2-Hexanone	182	28.0	ug/L	175.0		104	57-139				1
4-Isopropyltoluene	47.5	4.00	ug/L	50.00		95	77-127				1
4-Methyl-2-pentanone	189	28.0	ug/L	175.0		108	67-130				1
Acetone	181	70.0	ug/L	175.0		104	39-160				1
Benzene	49.4	2.00	ug/L	50.00		99	79-120				1
Bromobenzene	52.5	2.00	ug/L	50.00		105	80-132				1
Bromochloromethane	50.5	4.00	ug/L	50.00		101	78-123				1
Bromodichloromethane	49.6	2.00	ug/L	50.00		99	84-139				1
Bromoform	49.3	4.00	ug/L	50.00		99	66-130				1
Bromomethane	49.2	40.0	ug/L	50.00		98	56-150				1
Carbon disulfide	51.9	4.00	ug/L	50.00		104	80-124				1
Carbon tetrachloride	47.5	20.0	ug/L	50.00		95	75-134				1
Chlorobenzene	49.2	2.00	ug/L	50.00		98	82-118				1
Chloroethane	58.2	4.00	ug/L	50.00		116	60-138				1
Chloroform	48.2	4.00	ug/L	50.00		96	79-124				1
Chloromethane	46.2	8.00	ug/L	50.00		92	50-139				1
cis-1,2-Dichloroethene	49.5	4.00	ug/L	50.00		99	78-123				1
cis-1,3-Dichloropropene	48.6	4.00	ug/L	50.00		97	75-124				1
Cyclohexane	44.1	10.0	ug/L	50.00		88	71-130				1
Dibromochloromethane	51.8	4.00	ug/L	50.00		104	83-140				1
Dibromomethane	49.4	2.00	ug/L	50.00		99	79-138				1
Dichlorodifluoromethane	48.3	2.00	ug/L	50.00		97	66-150				1
Ethylbenzene	49.3	4.00	ug/L	50.00		99	79-137				1
Isopropylbenzene	50.8	10.0	ug/L	50.00		102	72-131				1
m,p-Xylene	99.2	8.00	ug/L	100.0		99	80-136				1
Methyl tert-butyl ether	50.8	4.00	ug/L	50.00		102	71-124				1
Methylene chloride	50.8	20.0	ug/L	50.00		102	74-124				1
n-Butylbenzene	43.3	10.0	ug/L	50.00		87	75-128				1
n-Propylbenzene	49.7	4.00	ug/L	50.00		99	76-126				1
Naphthalene	52.4	20.0	ug/L	50.00		105	82-128				1
o-Xylene	50.2	4.00	ug/L	50.00		100	78-122				1
sec-Butylbenzene	48.1	4.00	ug/L	50.00		96	77-126				1
Styrene	47.2	8.00	ug/L	50.00		94	78-123				1
tert-Butylbenzene	49.8	4.00	ug/L	50.00		100	78-124				1
Tetrachloroethene	52.1	4.00	ug/L	50.00		104	74-129				1
Toluene	48.7	4.00	ug/L	50.00		97	80-133				1
trans-1,2-Dichloroethene	48.9	4.00	ug/L	50.00		98	75-124				1
trans-1,3-Dichloropropene	47.5	8.00	ug/L	50.00		95	73-127				1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0692 - SW5030 (Continued)****LCS (B2F0692-BS1) (Continued)**

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 22:33

Trichloroethene	48.3	4.00	ug/L	50.00		97	84-129				1
Trichlorofluoromethane	46.2	4.00	ug/L	50.00		92	73-134				1
Vinyl chloride	47.8	4.00	ug/L	50.00		96	58-137				1
Xylenes, Total	149	12.0	ug/L	150.0		100	80-132				1
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Surrogate: Dibromofluoromethane	21.1		ug/L	20.00		106	84-137				1
Surrogate: 1,2-Dichloroethane-d4	20.9		ug/L	20.00		104	74-140				1
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	90-105				1
Surrogate: Toluene-d8	20.1		ug/L	20.00		101	74-109				1
Surrogate: 4-Bromofluorobenzene	10.1		ug/L	10.00		101	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.3		ug/L	20.00		101	90-128				1

**LCS Dup (B2F0692-BSD1)**

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 22:59

1,1,1,2-Tetrachloroethane	47.3	4.00	ug/L	50.00		95	84-122	3	20		1
1,1,1-Trichloroethane	44.4	4.00	ug/L	50.00		89	74-131	8	20		1
1,1,1,2-Tetrachloroethane	54.6	4.00	ug/L	50.00		109	71-121	0.8	20		1
1,1,2-Trichloroethane	50.9	2.00	ug/L	50.00		102	83-139	1	20		1
1,1-Dichloroethane	46.7	2.00	ug/L	50.00		93	77-125	5	20		1
1,1-Dichloroethene	48.2	8.00	ug/L	50.00		96	71-131	6	20		1
1,1-Dichloropropene	44.4	20.0	ug/L	50.00		89	79-125	6	20		1
1,2,3-Trichlorobenzene	47.9	20.0	ug/L	50.00		96	69-129	2	20		1
1,2,3-Trichloropropane	54.0	4.00	ug/L	50.00		108	73-122	0.5	20		1
1,2,4-Trimethylbenzene	48.6	4.00	ug/L	50.00		97	76-124	5	20		1
1,2-Dibromo-3-chloropropane	52.6	20.0	ug/L	50.00		105	72-124	3	20		1
1,2-Dibromoethane	50.2	2.00	ug/L	50.00		100	77-121	0.1	20		1
1,2-Dichloroethane	48.0	4.00	ug/L	50.00		96	73-128	3	20		1
1,2-Dichloropropane	48.7	4.00	ug/L	50.00		97	78-122	3	20		1
1,3,5-Trimethylbenzene	47.9	2.00	ug/L	50.00		96	75-124	5	20		1
1,3-Dichloropropane	50.8	2.00	ug/L	50.00		102	82-130	2	20		1
2,2-Dichloropropane	39.2	4.00	ug/L	50.00		78	60-139	5	20		1
2-Butanone	185	28.0	ug/L	175.0		106	70-137	4	20		1
2-Chlorotoluene	48.7	2.00	ug/L	50.00		97	79-122	5	20		1
2-Hexanone	189	28.0	ug/L	175.0		108	57-139	4	20		1
4-Isopropyltoluene	46.3	4.00	ug/L	50.00		93	77-127	3	20		1
4-Methyl-2-pentanone	194	28.0	ug/L	175.0		111	67-130	3	20		1
Acetone	183	70.0	ug/L	175.0		104	39-160	0.8	20		1
Benzene	48.1	2.00	ug/L	50.00		96	79-120	3	20		1
Bromobenzene	50.6	2.00	ug/L	50.00		101	80-132	4	20		1
Bromochloromethane	48.2	4.00	ug/L	50.00		96	78-123	5	20		1
Bromodichloromethane	48.6	2.00	ug/L	50.00		97	84-139	2	20		1
Bromoform	49.5	4.00	ug/L	50.00		99	66-130	0.2	20		1
Bromomethane	47.8	40.0	ug/L	50.00		96	56-150	3	20		1
Carbon disulfide	49.6	4.00	ug/L	50.00		99	80-124	5	20		1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0692 - SW5030 (Continued)****LCS Dup (B2F0692-BSD1) (Continued)**

Prepared: 06/17/2022 14:00 Analyzed: 06/17/2022 22:59

Carbon tetrachloride	45.3	20.0	ug/L	50.00		91	75-134	5	20		1
Chlorobenzene	47.1	2.00	ug/L	50.00		94	82-118	4	20		1
Chloroethane	56.9	4.00	ug/L	50.00		114	60-138	2	20		1
Chloroform	47.0	4.00	ug/L	50.00		94	79-124	2	20		1
Chloromethane	43.1	8.00	ug/L	50.00		86	50-139	7	20		1
cis-1,2-Dichloroethene	47.8	4.00	ug/L	50.00		96	78-123	3	20		1
cis-1,3-Dichloropropene	47.9	4.00	ug/L	50.00		96	75-124	1	20		1
Cyclohexane	42.1	10.0	ug/L	50.00		84	71-130	5	20		1
Dibromochloromethane	49.4	4.00	ug/L	50.00		99	83-140	5	20		1
Dibromomethane	49.9	2.00	ug/L	50.00		100	79-138	0.9	20		1
Dichlorodifluoromethane	45.3	2.00	ug/L	50.00		91	66-150	6	20		1
Ethylbenzene	47.0	4.00	ug/L	50.00		94	79-137	5	20		1
Isopropylbenzene	49.1	10.0	ug/L	50.00		98	72-131	3	20		1
m,p-Xylene	95.2	8.00	ug/L	100.0		95	80-136	4	20		1
Methyl tert-butyl ether	49.5	4.00	ug/L	50.00		99	71-124	3	20		1
Methylene chloride	48.5	20.0	ug/L	50.00		97	74-124	5	20		1
n-Butylbenzene	41.6	10.0	ug/L	50.00		83	75-128	4	20		1
n-Propylbenzene	48.0	4.00	ug/L	50.00		96	76-126	3	20		1
Naphthalene	54.4	20.0	ug/L	50.00		109	82-128	4	20		1
o-Xylene	48.5	4.00	ug/L	50.00		97	78-122	3	20		1
sec-Butylbenzene	46.3	4.00	ug/L	50.00		93	77-126	4	20		1
Styrene	45.4	8.00	ug/L	50.00		91	78-123	4	20		1
tert-Butylbenzene	49.2	4.00	ug/L	50.00		98	78-124	1	20		1
Tetrachloroethene	46.0	4.00	ug/L	50.00		92	74-129	13	20		1
Toluene	46.8	4.00	ug/L	50.00		94	80-133	4	20		1
trans-1,2-Dichloroethene	46.5	4.00	ug/L	50.00		93	75-124	5	20		1
trans-1,3-Dichloropropene	47.2	8.00	ug/L	50.00		94	73-127	0.6	20		1
Trichloroethene	46.4	4.00	ug/L	50.00		93	84-129	4	20		1
Trichlorofluoromethane	45.1	4.00	ug/L	50.00		90	73-134	2	20		1
Vinyl chloride	45.9	4.00	ug/L	50.00		92	58-137	4	20		1
Xylenes, Total	144	12.0	ug/L	150.0		96	80-132	4	20		1
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Surrogate: Dibromofluoromethane	20.6		ug/L	20.00		103	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.8		ug/L	20.00		99	74-140				1
Surrogate: Fluorobenzene	20.3		ug/L	20.00		101	90-105				1
Surrogate: Toluene-d8	20.0		ug/L	20.00		100	74-109				1
Surrogate: 4-Bromofluorobenzene	9.44		ug/L	10.00		94	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.0		ug/L	20.00		100	90-128				1

**Batch: B2F0743 - SW5030****Blank (B2F0743-BLK1)**

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 13:08

1,1,1,2-Tetrachloroethane	< 0.706	4.00	ug/L								1
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**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0743 - SW5030** (Continued)**Blank (B2F0743-BLK1)** (Continued)

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 13:08

1,1,1-Trichloroethane	< 0.719	4.00	ug/L								1
1,1,1,2-Tetrachloroethane	< 0.713	4.00	ug/L								1
1,1,2-Trichloroethane	< 0.198	2.00	ug/L								1
1,1-Dichloroethane	< 0.190	2.00	ug/L								1
1,1-Dichloroethene	< 1.10	8.00	ug/L								1
1,1-Dichloropropene	< 2.58	20.0	ug/L								1
1,2,3-Trichlorobenzene	< 2.53	20.0	ug/L								1
1,2,3-Trichloropropane	< 0.598	4.00	ug/L								1
1,2,4-Trimethylbenzene	< 0.753	4.00	ug/L								1
1,2-Dibromo-3-chloropropane	< 2.60	20.0	ug/L								1
1,2-Dibromoethane	< 0.420	2.00	ug/L								1
1,2-Dichloroethane	< 0.731	4.00	ug/L								1
1,2-Dichloropropane	< 0.557	4.00	ug/L								1
1,3,5-Trimethylbenzene	< 0.351	2.00	ug/L								1
1,3-Dichloropropane	< 0.345	2.00	ug/L								1
2,2-Dichloropropane	< 0.430	4.00	ug/L								1
2-Butanone	< 4.79	28.0	ug/L								1
2-Chlorotoluene	< 0.384	2.00	ug/L								1
2-Hexanone	< 4.74	28.0	ug/L								1
4-Isopropyltoluene	< 0.930	4.00	ug/L								1
4-Methyl-2-pentanone	< 4.40	28.0	ug/L								1
Acetone	< 9.21	70.0	ug/L								1
Benzene	< 0.362	2.00	ug/L								1
Bromobenzene	< 0.354	2.00	ug/L								1
Bromochloromethane	< 0.861	4.00	ug/L								1
Bromodichloromethane	< 0.458	2.00	ug/L								1
Bromoform	< 0.570	4.00	ug/L								1
Bromomethane	< 6.07	40.0	ug/L								1
Carbon disulfide	< 0.739	4.00	ug/L								1
Carbon tetrachloride	< 3.07	20.0	ug/L								1
Chlorobenzene	< 0.350	2.00	ug/L								1
Chloroethane	< 0.621	4.00	ug/L								1
Chloroform	< 0.450	4.00	ug/L								1
Chloromethane	< 1.30	8.00	ug/L								1
cis-1,2-Dichloroethene	< 0.652	4.00	ug/L								1
cis-1,3-Dichloropropene	< 0.408	4.00	ug/L								1
Cyclohexane	< 1.97	10.0	ug/L								1
Dibromochloromethane	< 0.632	4.00	ug/L								1
Dibromomethane	< 0.390	2.00	ug/L								1
Dichlorodifluoromethane	< 0.425	2.00	ug/L								1
Ethylbenzene	< 0.580	4.00	ug/L								1
Isopropylbenzene	< 1.53	10.0	ug/L								1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0743 - SW5030 (Continued)****Blank (B2F0743-BLK1) (Continued)**

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 13:08

m,p-Xylene	< 1.58	8.00	ug/L								1
Methyl tert-butyl ether	< 0.838	4.00	ug/L								1
Methylene chloride	< 4.50	20.0	ug/L								1
n-Butylbenzene	< 2.11	10.0	ug/L								1
n-Propylbenzene	< 0.780	4.00	ug/L								1
Naphthalene	< 4.82	20.0	ug/L								1
o-Xylene	< 0.660	4.00	ug/L								1
sec-Butylbenzene	< 1.02	4.00	ug/L								1
Styrene	< 1.17	8.00	ug/L								1
tert-Butylbenzene	< 0.800	4.00	ug/L								1
Tetrachloroethene	< 0.646	4.00	ug/L								1
Toluene	< 0.510	4.00	ug/L								1
trans-1,2-Dichloroethene	< 0.566	4.00	ug/L								1
trans-1,3-Dichloropropene	< 1.17	8.00	ug/L								1
Trichloroethene	< 0.939	4.00	ug/L								1
Trichlorofluoromethane	< 1.10	4.00	ug/L								1
Vinyl chloride	< 0.582	4.00	ug/L								1
Xylenes, Total	< 1.62	12.0	ug/L								1
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Surrogate: Dibromofluoromethane	20.6		ug/L	20.00		103	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.7		ug/L	20.00		98	74-140				1
Surrogate: Fluorobenzene	20.0		ug/L	20.00		100	90-105				1
Surrogate: Toluene-d8	20.0		ug/L	20.00		100	74-109				1
Surrogate: 4-Bromofluorobenzene	10.7		ug/L	10.00		107	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.3		ug/L	20.00		102	90-128				1

**LCS (B2F0743-BS1)**

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 11:50

1,1,1,2-Tetrachloroethane	48.4	4.00	ug/L	50.00		97	84-122				1
1,1,1-Trichloroethane	46.8	4.00	ug/L	50.00		94	74-131				1
1,1,2,2-Tetrachloroethane	53.2	4.00	ug/L	50.00		106	71-121				1
1,1,2-Trichloroethane	49.8	2.00	ug/L	50.00		100	83-139				1
1,1-Dichloroethane	49.6	2.00	ug/L	50.00		99	77-125				1
1,1-Dichloroethene	49.3	8.00	ug/L	50.00		99	71-131				1
1,1-Dichloropropene	47.5	20.0	ug/L	50.00		95	79-125				1
1,2,3-Trichlorobenzene	47.5	20.0	ug/L	50.00		95	69-129				1
1,2,3-Trichloropropane	52.7	4.00	ug/L	50.00		105	73-122				1
1,2,4-Trimethylbenzene	50.2	4.00	ug/L	50.00		100	76-124				1
1,2-Dibromo-3-chloropropane	49.7	20.0	ug/L	50.00		99	72-124				1
1,2-Dibromoethane	48.9	2.00	ug/L	50.00		98	77-121				1
1,2-Dichloroethane	48.6	4.00	ug/L	50.00		97	73-128				1
1,2-Dichloropropane	50.2	4.00	ug/L	50.00		100	78-122				1
1,3,5-Trimethylbenzene	51.0	2.00	ug/L	50.00		102	75-124				1
1,3-Dichloropropane	50.9	2.00	ug/L	50.00		102	82-130				1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0743 - SW5030** (Continued)**LCS (B2F0743-BS1)** (Continued)

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 11:50

2,2-Dichloropropane	51.0	4.00	ug/L	50.00		102	60-139				1
2-Butanone	185	28.0	ug/L	175.0		106	70-137				1
2-Chlorotoluene	50.9	2.00	ug/L	50.00		102	79-122				1
2-Hexanone	173	28.0	ug/L	175.0		99	57-139				1
4-Isopropyltoluene	48.0	4.00	ug/L	50.00		96	77-127				1
4-Methyl-2-pentanone	184	28.0	ug/L	175.0		105	67-130				1
Acetone	188	70.0	ug/L	175.0		107	39-160				1
Benzene	49.9	2.00	ug/L	50.00		100	79-120				1
Bromobenzene	50.6	2.00	ug/L	50.00		101	80-132				1
Bromochloromethane	49.8	4.00	ug/L	50.00		100	78-123				1
Bromodichloromethane	49.9	2.00	ug/L	50.00		100	84-139				1
Bromoform	49.5	4.00	ug/L	50.00		99	66-130				1
Bromomethane	50.6	40.0	ug/L	50.00		101	56-150				1
Carbon disulfide	49.0	4.00	ug/L	50.00		98	80-124				1
Carbon tetrachloride	49.9	20.0	ug/L	50.00		100	75-134				1
Chlorobenzene	47.1	2.00	ug/L	50.00		94	82-118				1
Chloroethane	61.6	4.00	ug/L	50.00		123	60-138				1
Chloroform	48.7	4.00	ug/L	50.00		97	79-124				1
Chloromethane	46.9	8.00	ug/L	50.00		94	50-139				1
cis-1,2-Dichloroethene	50.5	4.00	ug/L	50.00		101	78-123				1
cis-1,3-Dichloropropene	49.3	4.00	ug/L	50.00		99	75-124				1
Cyclohexane	44.9	10.0	ug/L	50.00		90	71-130				1
Dibromochloromethane	51.1	4.00	ug/L	50.00		102	83-140				1
Dibromomethane	49.7	2.00	ug/L	50.00		99	79-138				1
Dichlorodifluoromethane	51.4	2.00	ug/L	50.00		103	66-150				1
Ethylbenzene	48.8	4.00	ug/L	50.00		98	79-137				1
Isopropylbenzene	50.4	10.0	ug/L	50.00		101	72-131				1
m,p-Xylene	98.5	8.00	ug/L	100.0		98	80-136				1
Methyl tert-butyl ether	49.4	4.00	ug/L	50.00		99	71-124				1
Methylene chloride	49.5	20.0	ug/L	50.00		99	74-124				1
n-Butylbenzene	45.7	10.0	ug/L	50.00		91	75-128				1
n-Propylbenzene	50.7	4.00	ug/L	50.00		101	76-126				1
Naphthalene	51.5	20.0	ug/L	50.00		103	82-128				1
o-Xylene	49.8	4.00	ug/L	50.00		100	78-122				1
sec-Butylbenzene	49.3	4.00	ug/L	50.00		99	77-126				1
Styrene	46.0	8.00	ug/L	50.00		92	78-123				1
tert-Butylbenzene	50.1	4.00	ug/L	50.00		100	78-124				1
Tetrachloroethene	44.8	4.00	ug/L	50.00		90	74-129				1
Toluene	48.3	4.00	ug/L	50.00		97	80-133				1
trans-1,2-Dichloroethene	48.0	4.00	ug/L	50.00		96	75-124				1
trans-1,3-Dichloropropene	49.3	8.00	ug/L	50.00		99	73-127				1
Trichloroethene	47.7	4.00	ug/L	50.00		95	84-129				1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0743 - SW5030 (Continued)****LCS (B2F0743-BS1) (Continued)**

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 11:50

Trichlorofluoromethane	51.2	4.00	ug/L	50.00		102	73-134				1
Vinyl chloride	50.6	4.00	ug/L	50.00		101	58-137				1
Xylenes, Total	148	12.0	ug/L	150.0		99	80-132				1
<i>Surrogate: Dibromofluoromethane</i>	<i>20.1</i>		<i>ug/L</i>	<i>20.00</i>		<i>101</i>	<i>84-137</i>				<i>1</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>19.4</i>		<i>ug/L</i>	<i>20.00</i>		<i>97</i>	<i>74-140</i>				<i>1</i>
<i>Surrogate: Fluorobenzene</i>	<i>20.1</i>		<i>ug/L</i>	<i>20.00</i>		<i>100</i>	<i>90-105</i>				<i>1</i>
<i>Surrogate: Toluene-d8</i>	<i>19.8</i>		<i>ug/L</i>	<i>20.00</i>		<i>99</i>	<i>74-109</i>				<i>1</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>9.77</i>		<i>ug/L</i>	<i>10.00</i>		<i>98</i>	<i>86-128</i>				<i>1</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>20.3</i>		<i>ug/L</i>	<i>20.00</i>		<i>102</i>	<i>90-128</i>				<i>1</i>

**LCS Dup (B2F0743-BSD1)**

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 12:16

1,1,1,2-Tetrachloroethane	49.2	4.00	ug/L	50.00		98	84-122	2	20		1
1,1,1-Trichloroethane	49.4	4.00	ug/L	50.00		99	74-131	5	20		1
1,1,2,2-Tetrachloroethane	53.0	4.00	ug/L	50.00		106	71-121	0.4	20		1
1,1,2-Trichloroethane	51.2	2.00	ug/L	50.00		102	83-139	3	20		1
1,1-Dichloroethane	49.6	2.00	ug/L	50.00		99	77-125	0.05	20		1
1,1-Dichloroethene	51.5	8.00	ug/L	50.00		103	71-131	4	20		1
1,1-Dichloropropene	47.9	20.0	ug/L	50.00		96	79-125	0.9	20		1
1,2,3-Trichlorobenzene	47.1	20.0	ug/L	50.00		94	69-129	0.8	20		1
1,2,3-Trichloropropane	53.0	4.00	ug/L	50.00		106	73-122	0.5	20		1
1,2,4-Trimethylbenzene	50.8	4.00	ug/L	50.00		102	76-124	1	20		1
1,2-Dibromo-3-chloropropane	52.6	20.0	ug/L	50.00		105	72-124	6	20		1
1,2-Dibromoethane	49.8	2.00	ug/L	50.00		100	77-121	2	20		1
1,2-Dichloroethane	50.3	4.00	ug/L	50.00		101	73-128	3	20		1
1,2-Dichloropropane	50.2	4.00	ug/L	50.00		100	78-122	0.1	20		1
1,3,5-Trimethylbenzene	49.8	2.00	ug/L	50.00		100	75-124	2	20		1
1,3-Dichloropropane	51.4	2.00	ug/L	50.00		103	82-130	1	20		1
2,2-Dichloropropane	51.6	4.00	ug/L	50.00		103	60-139	1	20		1
2-Butanone	185	28.0	ug/L	175.0		105	70-137	0.4	20		1
2-Chlorotoluene	50.8	2.00	ug/L	50.00		102	79-122	0.3	20		1
2-Hexanone	179	28.0	ug/L	175.0		102	57-139	3	20		1
4-Isopropyltoluene	48.5	4.00	ug/L	50.00		97	77-127	1	20		1
4-Methyl-2-pentanone	183	28.0	ug/L	175.0		105	67-130	0.3	20		1
Acetone	183	70.0	ug/L	175.0		105	39-160	2	20		1
Benzene	50.3	2.00	ug/L	50.00		101	79-120	0.8	20		1
Bromobenzene	50.8	2.00	ug/L	50.00		102	80-132	0.5	20		1
Bromochloromethane	51.8	4.00	ug/L	50.00		104	78-123	4	20		1
Bromodichloromethane	49.9	2.00	ug/L	50.00		100	84-139	0.008	20		1
Bromoform	51.4	4.00	ug/L	50.00		103	66-130	4	20		1
Bromomethane	51.0	40.0	ug/L	50.00		102	56-150	0.6	20		1
Carbon disulfide	49.4	4.00	ug/L	50.00		99	80-124	0.7	20		1
Carbon tetrachloride	49.9	20.0	ug/L	50.00		100	75-134	0.09	20		1

**Quality Control**

(Continued)

**Client:** United Engineering Consultants, Inc.**Report Date:** 06/29/2022**Project:** UEC Analysis  
19006**Matrix:** Water**Work Order:** 22F0538**Volatile Organic Compounds by GC/MS**

(Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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**Batch: B2F0743 - SW5030 (Continued)****LCS Dup (B2F0743-BSD1) (Continued)**

Prepared: 06/20/2022 11:00 Analyzed: 06/20/2022 12:16

Chlorobenzene	49.0	2.00	ug/L	50.00		98	82-118	4	20		1
Chloroethane	61.9	4.00	ug/L	50.00		124	60-138	0.4	20		1
Chloroform	50.0	4.00	ug/L	50.00		100	79-124	3	20		1
Chloromethane	48.6	8.00	ug/L	50.00		97	50-139	4	20		1
cis-1,2-Dichloroethene	50.3	4.00	ug/L	50.00		101	78-123	0.3	20		1
cis-1,3-Dichloropropene	49.8	4.00	ug/L	50.00		100	75-124	1	20		1
Cyclohexane	46.3	10.0	ug/L	50.00		93	71-130	3	20		1
Dibromochloromethane	52.3	4.00	ug/L	50.00		105	83-140	2	20		1
Dibromomethane	50.2	2.00	ug/L	50.00		100	79-138	1	20		1
Dichlorodifluoromethane	52.7	2.00	ug/L	50.00		105	66-150	3	20		1
Ethylbenzene	49.7	4.00	ug/L	50.00		99	79-137	2	20		1
Isopropylbenzene	51.1	10.0	ug/L	50.00		102	72-131	1	20		1
m,p-Xylene	102	8.00	ug/L	100.0		102	80-136	4	20		1
Methyl tert-butyl ether	51.0	4.00	ug/L	50.00		102	71-124	3	20		1
Methylene chloride	51.2	20.0	ug/L	50.00		102	74-124	3	20		1
n-Butylbenzene	45.5	10.0	ug/L	50.00		91	75-128	0.6	20		1
n-Propylbenzene	50.4	4.00	ug/L	50.00		101	76-126	0.5	20		1
Naphthalene	53.0	20.0	ug/L	50.00		106	82-128	3	20		1
o-Xylene	50.4	4.00	ug/L	50.00		101	78-122	1	20		1
sec-Butylbenzene	49.8	4.00	ug/L	50.00		100	77-126	1	20		1
Styrene	47.4	8.00	ug/L	50.00		95	78-123	3	20		1
tert-Butylbenzene	50.5	4.00	ug/L	50.00		101	78-124	0.8	20		1
Tetrachloroethene	45.8	4.00	ug/L	50.00		92	74-129	2	20		1
Toluene	49.0	4.00	ug/L	50.00		98	80-133	1	20		1
trans-1,2-Dichloroethene	48.4	4.00	ug/L	50.00		97	75-124	0.7	20		1
trans-1,3-Dichloropropene	49.4	8.00	ug/L	50.00		99	73-127	0.1	20		1
Trichloroethene	48.7	4.00	ug/L	50.00		97	84-129	2	20		1
Trichlorofluoromethane	52.9	4.00	ug/L	50.00		106	73-134	3	20		1
Vinyl chloride	51.0	4.00	ug/L	50.00		102	58-137	0.9	20		1
Xylenes, Total	152	12.0	ug/L	150.0		102	80-132	3	20		1
Surrogate: Dibromofluoromethane	20.3		ug/L	20.00		102	84-137				1
Surrogate: 1,2-Dichloroethane-d4	19.7		ug/L	20.00		99	74-140				1
Surrogate: Fluorobenzene	19.8		ug/L	20.00		99	90-105				1
Surrogate: Toluene-d8	20.0		ug/L	20.00		100	74-109				1
Surrogate: 4-Bromofluorobenzene	9.79		ug/L	10.00		98	86-128				1
Surrogate: 1,2-Dichlorobenzene-d4	20.1		ug/L	20.00		100	90-128				1

**Certified Analyses included in this Report**

Analyte	CAS #	Certifications
<b>SW8260B/D in Water</b>		
1,1,1-Trichloroethane	71-55-6	AKDEC,WDNR,DoD,ILEPA
1,1,2,2-Tetrachloroethane	79-34-5	AKDEC,WDNR,DoD,ILEPA
1,1,2-Trichloroethane	79-00-5	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethane	75-34-3	AKDEC,WDNR,DoD,ILEPA
1,1-Dichloroethene	75-35-4	AKDEC,WDNR,DoD,ILEPA
1,2,4-Trimethylbenzene	95-63-6	WDNR,DoD,ILEPA
1,2-Dibromo-3-chloropropane	96-12-8	AKDEC,WDNR,DoD,ILEPA
1,2-Dibromoethane	106-93-4	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloroethane	107-06-2	AKDEC,WDNR,DoD,ILEPA
1,2-Dichloropropane	78-87-5	AKDEC,WDNR,DoD,ILEPA
1,3,5-Trimethylbenzene	108-67-8	WDNR,DoD,ILEPA
1,3-Dichloropropane	142-28-9	WDNR,DoD,ILEPA
1-Butanol	71-36-3	WDNR
2-Butanone	78-93-3	WDNR,DoD,ILEPA
2-Hexanone	591-78-6	WDNR,DoD,ILEPA
4-Methyl-2-pentanone	108-10-1	WDNR,DoD,ILEPA
Acetone	67-64-1	WDNR,DoD,ILEPA
Acrolein	107-02-8	WDNR,DoD,ILEPA
Acrylonitrile	107-13-1	WDNR,DoD,ILEPA
Benzene	71-43-2	AKDEC,WDNR,DoD,ILEPA
Bromodichloromethane	75-27-4	AKDEC,WDNR,DoD,ILEPA
Bromoform	75-25-2	AKDEC,WDNR,DoD,ILEPA
Bromomethane	74-83-9	AKDEC,WDNR,DoD,ILEPA
Carbon disulfide	75-15-0	WDNR,DoD,ILEPA
Carbon tetrachloride	56-23-5	AKDEC,WDNR,DoD,ILEPA
Chlorobenzene	108-90-7	AKDEC,WDNR,DoD,ILEPA
Chloroethane	75-00-3	WDNR,DoD,ILEPA
Chloroform	67-66-3	AKDEC,WDNR,DoD,ILEPA
Chloromethane	74-87-3	AKDEC,WDNR,DoD,ILEPA
cis-1,2-Dichloroethene	156-59-2	WDNR,DoD,ILEPA
cis-1,3-Dichloropropene	10061-01-5	AKDEC,WDNR,DoD,ILEPA
Cyclohexane	110-82-7	DoD
Dibromochloromethane	124-48-1	AKDEC,WDNR,DoD,ILEPA
Ethylbenzene	100-41-4	AKDEC,WDNR,DoD,ILEPA
Isopropylbenzene	98-82-8	WDNR,DoD,ILEPA
m,p-Xylene	179601-23-1	AKDEC,WDNR,DoD,ILEPA
Methyl tert-butyl ether	1634-04-4	WDNR,DoD,ILEPA
Methylene chloride	75-09-2	AKDEC,WDNR,DoD,ILEPA
Naphthalene	91-20-3	WDNR,DoD,ILEPA
o-Xylene	95-47-6	AKDEC,WDNR,DoD,ILEPA
Styrene	100-42-5	WDNR,DoD

**Certified Analyses included in this Report (Continued)**

Analyte	CAS #	Certifications
<b>SW8260B/D in Water (Continued)</b>		
Tetrachloroethene	127-18-4	AKDEC,WDNR,DoD,ILEPA
Toluene	108-88-3	AKDEC,WDNR,DoD,ILEPA
trans-1,2-Dichloroethene	156-60-5	AKDEC,WDNR,DoD,ILEPA
trans-1,3-Dichloropropene	10061-02-6	AKDEC,WDNR,DoD,ILEPA
Trichloroethene	79-01-6	AKDEC,WDNR,DoD,ILEPA
Vinyl acetate	108-05-4	WDNR,DoD,ILEPA
Vinyl chloride	75-01-4	AKDEC,WDNR,DoD,ILEPA
Xylenes, Total	1330-20-7	AKDEC,WDNR,DoD,ILEPA
1,3-Dichloropropene, Total	542-75-6	AKDEC,WDNR,DoD,ILEPA

**List of Certifications**

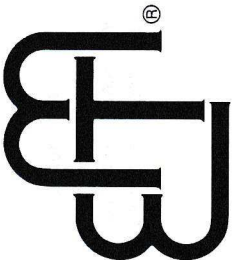
Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	17-011	05/31/2022
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L18-184-R1	03/31/2024
DoD	Department of Defense, Accredited by PJLA	L20-164-R2	03/31/2024
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	1002562021-6	07/27/2022
ISO	ISO/IEC 17025:2017, Accredited by PJLA	L20-165	03/31/2024
NEFAP	TNI National Environmental Field Activities Program	L20-166	03/31/2024
TX	Texas Commission of Environmental Quality	T104704554-20-5	10/31/2022
WA	Washington State Department of Ecology	C1057	01/06/2023
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2022

### Qualifiers and Definitions

Item	Description
%Rec	Percent Recovery



**ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.**



8100 North Austin Avenue  
Morton Grove, Illinois 60053-3203



22F0538

PM: Jacoby Jackson  
United Engineering Consultants, Inc.  
UEC Analysis

847-967-6666  
FAX: 847-967-6735  
www.emt.com

**custody Record**

TURNAROUND TIME:  
 RUSH  
 day turnaround  
 ROUTINE

Due Date: \_\_\_\_\_ COC #: 223533

Company: UEC, INC.  
 Address: 2938 S. 116<sup>TH</sup> STREET  
NEW BERLIN, WI 53151  
 Phone #: (262) 785-1447 Fax #: ( )  
 P.O. #: \_\_\_\_\_ Proj. #: \_\_\_\_\_  
 Client Contact: T. ANDERSON  
 Project ID / Location: 19006

**Analyses**

**Sample Type:**  
 1. Waste Water 4. Sludge 7. Groundwater (filtered)  
 2. Drinking Water 5. Oil 8. Other  
 3. Soil 6. Groundwater

**Container Type:**  
 P - Plastic V - VOC Vial O - Other  
 G - Glass B - Tedlar Bag

**Preservative:**  
 1. None 4. NaOH 7. Zn Ace  
 2. H<sub>2</sub>SO<sub>4</sub> 5. HCl 8. Other  
 3. HNO<sub>3</sub> 6. MeOH

Sample I.D.	Sample Type	Container			Sampling			Preservation			EMT USE ONLY	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field		Lab
MW-2	G	40 ml	G	3	JES	6/10/22	10:27	-	-	5	X	01 A-C
MW-2R	G	40 ml	G	3	JES	6/10/22	10:30	-	-	5	X	02 A-C
TRIP BLANK	G	40 ml	G	1	-	-	-	-	-	5	X	03 A

EMT WORKORDER # 22F0538

Relinquished By: <i>Jacqueline Shubert</i>	Date: <u>6-13-22</u> Time: <u>0800</u>	Received By: <i>Shubert</i>	Date: <u>6-13-22</u> Time: <u>0800</u>	EMT USE ONLY
Relinquished By: <i>Shubert</i>	Date: <u>6-13-22</u> Time: <u>1000</u>	Received By:	Date: - Time: -	Client Code: EMT Project I.D.
Relinquished By:	Date: - Time: -	Received For Lab By: <i>Jeff Schubert</i>	Date: <u>06-13-2022</u> Time: <u>10:00</u>	Jar Lot No.

Temperature: 2.10°C

SAMPLE RECEIVED ON ICE

EMT SAMPLE RETURN POLICY ON BACK

**SPECIAL INSTRUCTIONS:**

# Sample Receipt Checklist

Printed: 6/13/2022 11:06:20AM

Work Order: 22F0538

Client: United Engineering Consultants, Inc.  
Project: UEC Analysis

Date Due: Wednesday, June 22, 2022

Received By: Jennifer Schultz  
Logged In By: Jennifer Schultz

Date Received: 06/13/22 10:00  
Date Logged In: 06/13/22 11:05

How were samples received?	EMT
Cooler temperature at or below 6 degrees Celsius	Yes
Chain of Custody present and properly completed	Yes
Turn Around Time is indicated and specified	Yes
Chain of Custody agrees with sample labels	Yes
Samples received within hold time	Yes
Proper sample containers received intact	Yes
Containers properly preserved	Yes
Sufficient Sample Volume	Yes
Custody seals present	No
Volatile water vials received	Yes
Vials contain larger than pea sized air bubbles	Yes

**Sample Receipt Comments**  
**Work Order: 22F0538**

The samples were received on 06/13/22 10:00. The temperature of the cooler(s) at receipt was:

Cooler                      Temp C°  
Default Cooler            2.6

Sample 03 (1 vial) contain larger than pea-sized (6 mm) air bubbles.

Samples going out of hold time within 24 hours:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

JS      06/13/2022

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_