



Field & Technical Services

200 Third Avenue ♦ Carnegie, PA 15106 ♦ Phone: 412-429-2694 ♦ Fax: 412-279-4512

June 15, 2022

Mr. John Sager
Wisconsin Department of Natural Resources
1701 N. 4th Street
Superior, WI 54880

**RE: First Semi-Annual 2022 RCRA Groundwater Monitoring Results
Former Koppers Inc. Superior, Wisconsin Facility
WID 006 179 493**

Dear Mr. Sager:

On behalf of Beazer East, Inc. (Beazer), Field & Technical Services, LLC (FTS) is submitting to the Wisconsin Department of Natural Resources (WDNR) the First Semi-Annual 2022 Resource Conservation and Recovery Act (RCRA) Groundwater Monitoring Results for the referenced facility. Appendix A includes one copy of the groundwater monitoring data certification for the subject groundwater monitoring event.

BACKGROUND

Monitoring wells in the vicinity of the closed surface impoundments were sampled and analyzed in accordance with the following documents:

- The Conditional Closure and Long-Term Care Plan Approval (WDNR, October 1, 1987);
- Long-Term Care Plan Approval Modification (October 29, 2002);
- Groundwater Monitoring Sampling and Analysis Plan (April 2002); and
- Wisconsin Administrative Code Chapter NR 664 subchapter (F) formerly NR 635).

The wells that comprise the currently approved RCRA monitoring well network for the closed surface impoundments are as follows:

W-04AR2	W-06A	W-06C	W-10AR2	W-12A
W-12CR	W-28C	W-30A	W-30C	

Groundwater samples were collected and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and dioxins and furans from monitoring wells W-04AR2, W-06A, W-06C, W-10AR2, W-12A, W-12CR, W-28C, W-30A, and W-30C during the first semi-annual 2022 event.

In addition to these wells, a groundwater sample was collected and analyzed for SVOCs from monitoring well W-18D in conjunction with this monitoring event. Well W-18D is not a required component of the approved monitoring program, but was sampled at Beazer's discretion above and beyond the requirements of the program.

The locations of the wells included in the groundwater monitoring program are shown on Figure B-1, provided in Appendix B. The subject sampling event was conducted from April 26, 2022 through April 28, 2022. The sampling effort was led by Mr. Brenden Arbaugh, FTS Field Technician.

In accordance with the documents listed above, the following items are included in this report:

- One signed copy of the Groundwater Monitoring Data Certification Statement (Appendix A);
- Well location map (Appendix B);
- Summary of detected constituents and Preventive Action Limit (PAL), Enforcement Standard (ES), and Maximum Contaminant Level (MCL) exceedances (Table C-1 of Appendix C);
- Summary of analytical data (Table C-2 of Appendix C);
- Data Evaluation Summary (Appendix D);
- An electronic version of the laboratory analytical data, including trip blank, equipment blank, and field duplicate results (Appendix E); and
- An electronic version of the ASCII formatted data (Appendix F).

SUMMARY OF ANALYTICAL RESULTS

The detected constituents are summarized and compared to the PALs, ESs, and MCLs in Table C-1 of Appendix C. Table C-2 in Appendix C summarizes all laboratory analytical data. As indicated in Table C-1, exceedances of the PALs, ESs, and MCLs were noted for the following parameters and wells:

Parameter	Regulatory Standard (ug/L)	Wells
MCL Exceedance		
Benzene	5	W-10AR2
Benzo(a)pyrene	0.2	W-04AR2
ES Exceedance		
Benzene	5	W-10AR2
Benzo(a)pyrene	0.2	W-04AR2
Benzo(b)fluoranthene	0.2	W-04AR2
Chrysene	0.2	W-04AR2, W-10AR
PAL Exceedance		
Benzene	0.5	W-10AR2
Benzo(a)pyrene	0.02	W-04AR2
Benzo(b)fluoranthene	0.02	W-04AR2, W-10AR2, W-12CR
Chrysene	0.02	W-04AR2, W-10AR2, W-12CR
2,3,7,8-TCDD TEQ*	3E-06	W-12A, W-30A

* At the request of WDNR, 2,3,7,8-TCDD TEQ values are compared to the congener-specific PAL and ES for 2,3,7,8-TCDD.

Based on these results, five wells (W-04AR2, W-10AR2, W-12A, W-12CR, and W-30A) had concentrations of one or more constituents above a regulatory standard. The Groundwater Monitoring Data Certification form, provided as Appendix A, indicates that some of the data associated with the first semi-annual 2022 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the first semi-annual 2022 sampling event (Appendix D) indicated that certain data required qualification. However, the overall data quality was found to be acceptable.

In general, the groundwater standard exceedances should continue to be viewed in light of the ongoing Site-wide RCRA corrective action program and the approved natural attenuation remedy

for groundwater. Therefore, in reviewing the first semi-annual 2022 data in reference to NR 140.24 and NR 140.26, no additional action beyond continued monitoring is necessary.

If you should have any questions regarding this correspondence, please do not hesitate to contact Ms. Jane Patarcity of Beazer at 412-208-8813 or Ms. Angela Gatchie of FTS at 412-428-9411.

Sincerely,

Field & Technical Services LLC



Angela Gatchie
Project Scientist

Attachments (Original Report and electronic copy)

cc: J. Patarcity, Beazer (electronic copy only)
B. Tatsch, Koppers (electronic copy only)
D. Bessingpas, ARCADIS (.pdf transmittal)
D. Coenen, WDNR
GEMS Database, WDNR
T. Peterson, TRP Properties, LLC

APPENDIX A
GROUNDWATER MONITORING DATA CERTIFICATION



Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a), NR 140.26(1)(a), NR 507.30NR 635.14(9)(a), NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- **Prepare one form for each license or monitoring ID.**
- **Please type or print legibly.**
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable (EDD) to:

GEMS Data Submittal Contact - WWS
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Field & Technical Services, LLC

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Angela Gatchie

Phone: (412) 428-9411

E-mail: agatchie.2006@f-ts.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
Former Koppers, Inc. Facility	03046		April 27 - April 28, 2022

The enclosed results are for sampling required in the month(s) of (e.g., June 2003)

April 2022

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Jane Patarcity

Manager, Environmental Svcs. (412) 208-8813

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

June 15, 2022

Date

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

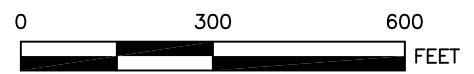
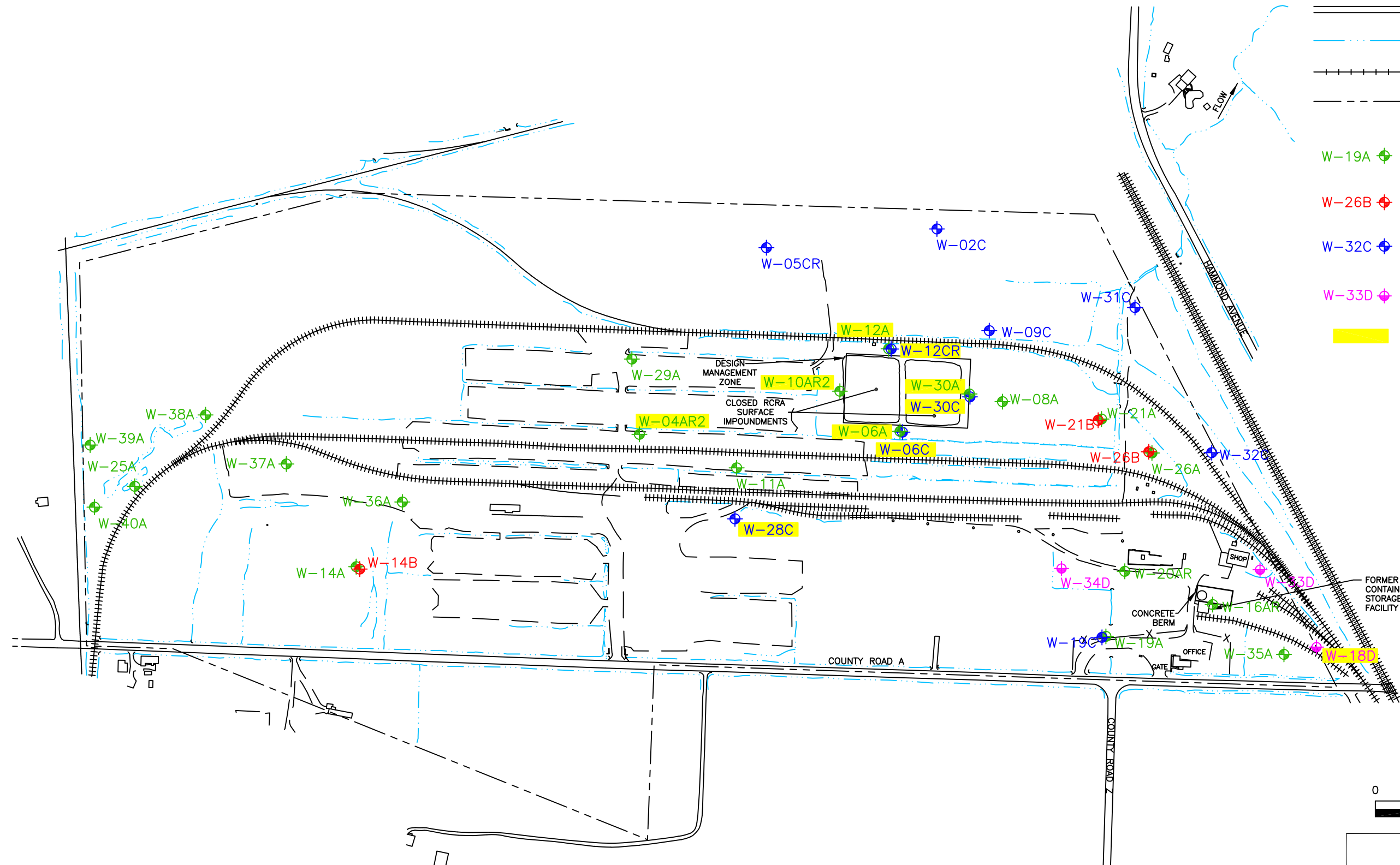
APPENDIX B
WELL LOCATION MAP





LEGEND

- ROAD
- STREAM OR DITCH
- RAILROAD TRACKS
- APPROXIMATE PROPERTY BOUNDARY
- W-19A A ZONE GROUNDWATER MONITORING WELL
- W-26B B ZONE GROUNDWATER MONITORING WELL
- W-32C C ZONE GROUNDWATER MONITORING WELL
- W-33D BEDROCK ZONE GROUNDWATER MONITORING WELL
- SAMPLED WELL LOCATION



BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN: KLC	DATE: 04/27/22		FIELD & TECHNICAL SERVICES, LLC 200 THIRD AVENUE CARNEGIE, PA 15106
CHKD: AMG	DATE: 04/27/22		
APPD: JSZ	DATE: 05/16/22		
SCALE: AS SHOWN			
ISSUE DATE:			

FORMER KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN

c:\projects\beazer_projects\superior\cadd\1st_semi-annual_2022\Figure_b-1.dwg Last Saved By: Kchintella 4/26/2022 2:01 PM Plotted By: Kendra L. Chintella 4/26/2022 2:02 PM Scale: 1:1

REV #	DATE	DESCRIPTION	APPD

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

WELL LOCATIONS

PROJECT NO: 0M055622
DRAWING NUMBER
FIGURE B-1

APPENDIX C

TABLES



Table C-1
Summary of Detected Constituents
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8270D LL				
W-10AR2	1-Methylnaphthalene	7.1	NA	NA
W-04AR2	2-Methylnaphthalene	0.14 J	NA	NA
W-10AR2	4-Methylphenol	0.37 J	NA	NA
W-04AR2	Acenaphthene	0.77	NA	NA
W-10AR2	Acenaphthene	58	NA	NA
W-10AR2	Acenaphthylene	2.7	NA	NA
W-04AR2	Anthracene	7.3	600	3000
W-10AR2	Anthracene	0.63 J	600	3000
W-30A	Anthracene	0.53 J	600	3000
W-04AR2	Benzo(a)anthracene	1.4	NA	NA
W-10AR2	Benzo(a)anthracene	0.12 J	NA	NA
W-12CR	Benzo(a)anthracene	0.056 J	NA	NA
W-04AR2	Benzo(a)pyrene	0.51	0.02	0.2
W-04AR2	Benzo(b)fluoranthene	1.5	0.02	0.2
W-10AR2	Benzo(b)fluoranthene	0.13	0.02	0.2
W-12CR	Benzo(b)fluoranthene	0.072 J	0.02	0.2
W-04AR2	Benzo(k)fluoranthene	0.65	NA	NA
W-10AR2	Benzo(k)fluoranthene	0.05 J	NA	NA
W-04AR2	Chrysene	2.9	0.02	0.2
W-10AR2	Chrysene	0.22	0.02	0.2
W-12CR	Chrysene	0.093 J	0.02	0.2
W-04AR2	Dibenzo(a,h)anthracene	0.079 J	NA	NA
W-04AR2	Dibenzofuran	1.1 J	NA	NA
W-10AR2	Dibenzofuran	14	NA	NA
W-04AR2	Fluoranthene	15	80	400
W-10AR2	Fluoranthene	2.7	80	400
W-04AR2	Fluorene	2.2	80	400
W-10AR2	Fluorene	12	80	400
W-04AR2	Indeno(1,2,3-cd)pyrene	0.26	NA	NA
W-04AR2	Phenanthrene	7.2	NA	NA
W-10AR2	Phenanthrene	0.48 J	NA	NA
W-10AR2	Phenol	0.49 J	400	2000
W-04AR2	Pyrene	7.2	50	250
W-10AR2	Pyrene	1.5	50	250

Table C-1
Summary of Detected Constituents
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
8260C				
W-10AR2	1,2,4-Trimethylbenzene	5.3	96*	480*
W-10AR2	Benzene	9.4	0.5	5
W-10AR2	Ethylbenzene	16	140	700
W-10AR2	Naphthalene	1.5	10	100
W-30A	Naphthalene	1 J	10	100
W-10AR2	Toluene	1.2	160	800
W-10AR2	Xylene, Meta & Para	2	400**	2000**
W-10AR2	Xylene, Ortho	11	400**	2000**
8290A				
W-04AR2	1,2,3,4,6,7,8-HPCDD	0.000052	NA	NA
W-06A	1,2,3,4,6,7,8-HPCDD	0.000078	NA	NA
W-06C	1,2,3,4,6,7,8-HPCDD	0.000013 JI	NA	NA
W-10AR2	1,2,3,4,6,7,8-HPCDD	0.000023 J	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDD	0.000073 I	NA	NA
W-12CR	1,2,3,4,6,7,8-HPCDD	0.000042 J	NA	NA
W-28C	1,2,3,4,6,7,8-HPCDD	0.000092 J	NA	NA
W-28C DUP	1,2,3,4,6,7,8-HPCDD	0.000014 JI	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDD	0.00067	NA	NA
W-30C	1,2,3,4,6,7,8-HPCDD	0.000078 J	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDF	0.00022	NA	NA
W-04AR2	1,2,3,4,7,8-HXCDF	0.000022 J	NA	NA
W-12A	1,2,3,4,7,8-HXCDF	0.000008 J	NA	NA
W-30A	1,2,3,4,7,8-HXCDF	0.000028 J	NA	NA
W-04AR2	1,2,3,6,7,8-HXCDF	0.000025 JI	NA	NA
W-06A	1,2,3,6,7,8-HXCDF	0.000024 JI	NA	NA
W-12A	1,2,3,6,7,8-HXCDF	0.000061 JI	NA	NA
W-12CR	1,2,3,6,7,8-HXCDF	0.000024 JI	NA	NA
W-30A	1,2,3,6,7,8-HXCDF	0.000044 JI	NA	NA
W-04AR2	1,2,3,7,8,9-HXCDF	0.000019 J	NA	NA
W-04AR2	1,2,3,7,8-PECDD	0.000011 JI	NA	NA
W-06A	1,2,3,7,8-PECDD	0.0000074 JI	NA	NA
W-12A	1,2,3,7,8-PECDD	0.0000098 JI	NA	NA
W-28C DUP	1,2,3,7,8-PECDD	0.0000049 J	NA	NA
W-30A	1,2,3,7,8-PECDD	0.0000068 JI	NA	NA
W-04AR2	1,2,3,7,8-PECDF	0.000009 J	NA	NA
W-12A	1,2,3,7,8-PECDF	0.0000092 J	NA	NA
W-30A	1,2,3,7,8-PECDF	0.000002 JI	NA	NA
W-04AR2	2,3,4,6,7,8-HXCDF	0.000019 J	NA	NA
W-04AR2	2,3,4,7,8-PECDF	0.0000065 J	NA	NA

Table C-1
Summary of Detected Constituents
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
W-12A	2,3,4,7,8-PECDF	0.0000016 JI	NA	NA
W-30A	2,3,4,7,8-PECDF	0.0000037 J	NA	NA
W-12A	2,3,7,8-TCDF	0.00000084 J	NA	NA
W-04AR2	OCDD	0.00048	NA	NA
W-06A	OCDD	0.00062	NA	NA
W-10AR2	OCDD	0.00021	NA	NA
W-12A	OCDD	0.00038	NA	NA
W-12CR	OCDD	0.00042	NA	NA
W-30A	OCDD	0.0092	NA	NA
W-30A	OCDF	0.00066	NA	NA
W-04AR2	Total HPCDD	0.00027	NA	NA
W-06A	Total HPCDD	0.00029	NA	NA
W-06C	Total HPCDD	0.000036 JI	NA	NA
W-10AR2	Total HPCDD	0.000088	NA	NA
W-12A	Total HPCDD	0.00015 I	NA	NA
W-12CR	Total HPCDD	0.00014	NA	NA
W-28C	Total HPCDD	0.00004 J	NA	NA
W-28C DUP	Total HPCDD	0.000058 JI	NA	NA
W-30A	Total HPCDD	0.0015	NA	NA
W-30C	Total HPCDD	0.000033 J	NA	NA
W-12A	Total HPCDF	0.00006	NA	NA
W-30A	Total HPCDF	0.00095	NA	NA
W-30A	Total HXCDD	0.0001 IS	NA	NA
W-04AR2	Total HXCDF	0.000029 JI	NA	NA
W-06A	Total HXCDF	0.000037 JI	NA	NA
W-06C	Total HXCDF	0.0000039 JI	NA	NA
W-10AR2	Total HXCDF	0.000014 JI	NA	NA
W-12A	Total HXCDF	0.00011 IS	NA	NA
W-12CR	Total HXCDF	0.000028 JI	NA	NA
W-28C	Total HXCDF	0.0000057 JIS	NA	NA
W-28C DUP	Total HXCDF	0.000002 JI	NA	NA
W-30A	Total HXCDF	0.00087 IS	NA	NA
W-30C	Total HXCDF	0.0000013 JI	NA	NA
W-04AR2	Total PECDF	0.0000067 JI	NA	NA
W-06A	Total PECDF	0.000012 JI	NA	NA
W-06C	Total PECDF	0.0000016 JI	NA	NA
W-10AR2	Total PECDF	0.0000077 JI	NA	NA
W-12A	Total PECDF	0.000063 I	NA	NA
W-12CR	Total PECDF	0.0000055 JI	NA	NA
W-28C	Total PECDF	0.00000061 JI	NA	NA
W-28C DUP	Total PECDF	0.00000061 JI	NA	NA
W-30A	Total PECDF	0.00031 I	NA	NA
W-30C	Total PECDF	0.0000005 JI	NA	NA

Table C-1
Summary of Detected Constituents
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L
W-10AR2	Total TCDD	0.00000051 JI	NA	NA
W-12A	Total TCDD	0.0000014 JI	NA	NA
W-04AR2	Total TCDF	0.0000023 JI	NA	NA
W-10AR2	Total TCDF	0.0000083 JI	NA	NA
W-12A	Total TCDF	0.000069 I	NA	NA
W-12CR	Total TCDF	0.0000029 JI	NA	NA
W-30A	Total TCDF	0.000076 I	NA	NA
W-30C	Total TCDF	0.0000015 J	NA	NA
W-04AR2	2,3,7,8-TCDD TEQ	2.84E-06	0.000003	0.00003
W-06A	2,3,7,8-TCDD TEQ	1.95E-06	0.000003	0.00003
W-06C	2,3,7,8-TCDD TEQ	1.30E-07	0.000003	0.00003
W-10AR2	2,3,7,8-TCDD TEQ	2.93E-07	0.000003	0.00003
W-12A	2,3,7,8-TCDD TEQ	3.83E-06	0.000003	0.00003
W-12CR	2,3,7,8-TCDD TEQ	7.86E-07	0.000003	0.00003
W-28C	2,3,7,8-TCDD TEQ	9.20E-08	0.000003	0.00003
W-28C DUP	2,3,7,8-TCDD TEQ	6.30E-07	0.000003	0.00003
W-30A	2,3,7,8-TCDD TEQ	2.09E-05	0.000003	0.00003
W-30C	2,3,7,8-TCDD TEQ	7.80E-08	0.000003	0.00003

Notes:

- Indicates the detected value exceeds one or more specified standards.

PAL - Preventative Action Limit

MCL - Maximum Contaminant Levels for drinking water

ES - Enforcement Standard

NA - Not available

J - Estimated

I - Value is estimated maximum possible concentration.

S- Ion suppression.

* - Total trimethylbenzene standard

** - Total xylene standard

At the request of WDNR, 2,3,7,8-TCDD TEQ values are compared to the congener-specific PAL and ES for 2,3,7,8-TCDD.

Table C-2
Analytical Summary - First Semi-Annual 2022 Groundwater Data
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/28/2022	W-06A 4/27/2022	W-06C 4/27/2022	W-10AR2 4/28/2022	W-12A 4/27/2022	W-12CR 4/28/2022	W-18D 4/28/2022	W-28C 4/27/2022	W-28C-DUP 4/27/2022	W-30A 4/28/2022	W-30C 4/28/2022	Equipment Blank 4/27/2022	Equipment Blank 4/28/2022	Trip Blank 4/27/2022	
8260C																
1,1,1-TRICHLOROETHANE	UG/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	NA	0.82 U	0.82 U	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	
1,2,4-TRIMETHYLBENZENE	UG/L	0.75 U	0.75 U	0.75 U	5.3	0.75 U	0.75 U	NA	0.75 U	0.75 U	1.5 U	0.75 U	0.75 U	0.75 U	0.75 U	
1,3,5-TRIMETHYLBENZENE	UG/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	NA	0.77 U	0.77 U	1.5 U	0.77 U	0.77 U	0.77 U	0.77 U	
BENZENE	UG/L	0.41 U	0.41 U	0.41 U	9.4	0.41 U	0.41 U	NA	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U	0.41 U	0.41 U	
CHLOROMETHANE	UG/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	NA	0.35 U	0.35 U	0.7 U	0.35 U	0.35 U	0.35 U	0.35 U	
ETHYLBENZENE	UG/L	0.74 U	0.74 U	0.74 U	16	0.74 U	0.74 U	NA	0.74 U	0.74 U	1.5 U	0.74 U	0.74 U	0.74 U	0.74 U	
METHYL(TERT)BUTYL ETHER	UG/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	NA	0.16 U	0.16 U	0.32 U	0.16 U	0.16 U	0.16 U	0.16 U	
NAPHTHALENE	UG/L	0.43 U	0.43 U	0.43 U	1.5	0.43 U	0.43 U	NA	0.43 U	0.43 U	1 J	0.43 U	0.43 U	0.43 U	0.43 U	
N-BUTYLBENZENE	UG/L	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	NA	0.64 U	0.64 U	1.3 U	0.64 U	0.64 U	0.64 U	0.64 U	
N-PROPYLBENZENE	UG/L	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	0.69 U	0.69 U	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	
STYRENE	UG/L	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	NA	0.73 U	0.73 U	1.5 U	0.73 U	0.73 U	0.73 U	0.73 U	
TOLUENE	UG/L	0.51 U	0.51 U	0.51 U	1.2	0.51 U	0.51 U	NA	0.51 U	0.51 U	1 U	0.51 U	0.51 U	0.51 U	0.51 U	
XYLENE, META & PARA	UG/L	0.66 U	0.66 U	0.66 U	2	0.66 U	0.66 U	NA	0.66 U	0.66 U	1.3 U	0.66 U	0.66 U	0.66 U	0.66 U	
O-XYLENE	UG/L	0.76 U	0.76 U	0.76 U	11	0.76 U	0.76 U	NA	0.76 U	0.76 U	1.5 U	0.76 U	0.76 U	0.76 U	0.76 U	
8270D LL																
1,2,4-TRICHLOROBENZENE	UG/L	0.17 U	0.15 U	0.15 U	0.16 U	0.15 U	0.18 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	NA
1,2-DICHLOROBENZENE	UG/L	0.17 U	0.16 U	0.15 U	0.17 U	0.16 U	0.19 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	0.16 U	NA	
1,3-DICHLOROBENZENE	UG/L	0.15 U	0.13 U	0.13 U	0.14 U	0.13 U	0.16 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	NA	
1,4-DICHLOROBENZENE	UG/L	0.15 U	0.13 U	0.13 U	0.14 U	0.13 U	0.16 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	NA	
1-METHYLNAPHTHALENE	UG/L	0.21 U	0.19 U	0.19 U	7.1	0.19 U	0.23 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.2 U	NA	
2,3,4,6-TETRACHLOROPHENOL	UG/L	0.53 U	0.48 U	0.47 U	0.5 U	0.48 U	0.57 U	0.5 U	0.5 U	0.51 U	0.51 U	0.51 U	0.49 U	0.5 U	NA	
2,3,5,6-TETRACHLOROPHENOL	UG/L	2.7 U	2.4 U	2.4 U	2.6 U	2.4 U	2.9 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	2.5 U	NA	
2,4,5-TRICHLOROPHENOL	UG/L	1.8 U	1.6 U	1.6 U	1.7 U	1.6 U	2 U	1.7 U	1.7 U	1.8 U	1.8 U	1.7 U	1.7 U	1.7 U	NA	
2,4,6-TRICHLOROPHENOL	UG/L	0.5 U	0.46 U	0.45 U	0.48 U	0.46 U	0.55 U	0.48 U	0.48 U	0.49 U	0.49 U	0.49 U	0.47 U	0.48 U	NA	
2,4-DICHLOROPHENOL	UG/L	1.8 U	1.7 U	1.6 U	1.7 U	1.7 U	2 U	1.7 U	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	NA	
2,4-DIMETHYLPHENOL	UG/L	1.3 U	1.2 U	1.1 U	1.2 U	1.1 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	NA	
2,4-DINITROPHENOL	UG/L	6 U	5.5 U	5.4 U	5.8 U	5.5 U	6.6 U	5.8 U	5.8 U	5.9 U	5.9 U	5.9 U	5.7 U	5.7 U	NA	
2,4-DINITROTOLUENE	UG/L	0.17 U	0.16 U	0.15 U	0.16 U	0.16 U	0.19 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.16 U	NA	
2,6-DINITROTOLUENE	UG/L	0.052 U	0.047 U	0.046 U	0.05 U	0.047 U	0.057 U	0.05 U	0.049 U	0.051 U	0.051 U	0.05 U	0.049 U	0.049 U	NA	
2-CHLORONAPHTHALENE	UG/L	0.17 U	0.15 U	0.15 U	0.16 U	0.15 U	0.18 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 U	0.16 U	NA	
2-CHLOROPHENOL	UG/L	0.39 U	0.36 U	0.35 U	0.38 U	0.36 U	0.43 U	0.38 U	0.37 U	0.38 U	0.38 U	0.38 U	0.37 U	0.37 U	NA	
2-METHYLNAPHTHALENE	UG/L	0.14 J	0.042 U	0.041 U	0.044 U	0.042 U	0.05 U	0.044 U	0.044 U	0.045 U	0.045 U	0.044 U	0.043 U	0.043 U	NA	
2-METHYLPHENOL	UG/L	0.21 U	0.2 U	0.19 U	0.2 U	0.19 U	0.23 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.2 U	NA	
2-NITROANILINE	UG/L	0.91 U	0.82 U	0.81 U	0.86 U	0.82 U	0.99 U	0.86 U	0.86 U	0.88 U	0.89 U	0.88 U	0.85 U	0.86 U	NA	
2-NITROPHENOL	UG/L	1.8 U	1.6 U	1.6 U	1.7 U	1.6 U	1.9 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	NA	
3,3'-DICHLOROBENZIDINE	UG/L	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.3 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	NA	
3-NITROANILINE	UG/L	1.3 U	1.1 U	1.1 U	1.2 U	1.1 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	NA	
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.2 U	3.8 U	3.7 U	4 U	3.8 U	4.5 U	4 U	4 U	4.1 U	4.1 U	4 U	3.9 U	3.9 U	NA	
4-BROMOPHENYL PHENYLETHER	UG/L	0.38 U	0.35 U	0.34 U	0.36 U	0.34 U	0.42 U	0.36 U	0.36 U	0.37 U	0.37 U	0.37 U	0.36 U	0.36 U	NA	

Table C-2
Analytical Summary - First Semi-Annual 2022 Groundwater Data
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/28/2022	W-06A 4/27/2022	W-06C 4/27/2022	W-10AR2 4/28/2022	W-12A 4/27/2022	W-12CR 4/28/2022	W-18D 4/28/2022	W-28C 4/27/2022	W-28C-DUP 4/27/2022	W-30A 4/28/2022	W-30C 4/28/2022	Equipment Blank 4/27/2022	Equipment Blank 4/28/2022	Trip Blank 4/27/2022
4-CHLORO-3-METHYLPHENOL	UG/L	1.6 U	1.5 U	1.4 U	1.5 U	1.5 U	1.8 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	1.5 U	1.5 U	NA
4-CHLOROANILINE	UG/L	1.4 U	1.3 U	1.3 U	1.4 U	1.3 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.3 U	1.3 U	NA
4-CHLOROPHENYLPHENYL-ETHER	UG/L	0.45 U	0.41 U	0.4 U	0.43 U	0.41 U	0.49 U	0.43 U	0.43 U	0.44 U	0.44 U	0.43 U	0.42 U	0.42 U	NA
4-METHYLPHENOL	UG/L	0.32 U	0.29 U	0.28 U	0.37 J	0.29 U	0.35 U	0.3 U	0.3 U	0.31 U	0.31 U	0.31 U	0.3 U	0.3 U	NA
4-NITROANILINE	UG/L	1.2 U	1.1 U	1 U	1.1 U	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	NA
4-NITROPHENOL	UG/L	5.2 U	4.8 U	4.7 U	5 U	4.7 U	5.7 U	5 U	5 U	5.1 U	5.1 U	5.1 U	4.9 U	4.9 U	NA
ACENAPHTHENE	UG/L	0.77	0.2 U	0.19 U	58	0.2 U	0.24 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.2 U	0.21 U	NA
ACENAPHTHYLENE	UG/L	0.19 U	0.17 U	0.17 U	2.7	0.17 U	0.21 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	NA
ANTHRACENE	UG/L	7.3	0.21 U	0.21 U	0.63 J	0.21 U	0.26 U	0.22 U	0.22 U	0.23 U	0.53 J	0.23 U	0.22 U	0.22 U	NA
BENZO (A) ANTHRACENE	UG/L	1.4	0.036 U	0.036 U	0.12 J	0.036 U	0.056 J	0.038 U	0.038 U	0.039 U	0.039 U	0.039 U	0.037 U	0.038 U	NA
BENZO (A) PYRENE	UG/L	0.51	0.063 U	0.062 U	0.066 U	0.063 U	0.076 U	0.066 U	0.066 U	0.068 U	0.068 U	0.067 U	0.065 U	0.066 U	NA
BENZO (B) FLUORANTHENE	UG/L	1.5	0.052 U	0.051 U	0.13	0.052 U	0.072 J	0.054 U	0.054 U	0.055 U	0.056 U	0.055 U	0.053 U	0.054 U	NA
BENZO (G,H,I) PERYLENE	UG/L	0.26 U	0.24 U	0.24 U	0.25 U	0.24 U	0.29 U	0.25 U	0.25 U	0.26 U	0.26 U	0.26 U	0.25 U	0.25 U	NA
BENZO (K) FLUORANTHENE	UG/L	0.65	0.041 U	0.04 U	0.05 J	0.041 U	0.049 U	0.043 U	0.043 U	0.044 U	0.044 U	0.044 U	0.042 U	0.043 U	NA
BENZOIC ACID	UG/L	4.1 U	3.7 U	3.6 U	3.9 U	3.7 U	4.4 U	13 U	3.9 U	4 U	4 U	3.9 U	3.8 U	6.1 J	NA
BENZYL ALCOHOL	UG/L	4.3 U	3.9 U	3.8 U	4.1 U	3.9 U	4.6 U	4.1 U	4.1 U	4.1 U	4.2 U	4.1 U	4 U	4 U	NA
BIS (2-CHLOROETHOXY)- METHANE	UG/L	0.2 U	0.18 U	0.18 U	0.19 U	0.18 U	0.22 U	0.19 U	0.19 U	0.2 U	0.2 U	0.19 U	0.19 U	0.19 U	NA
BIS (2-CHLOROETHYL) ETHER	UG/L	0.21 U	0.19 U	0.18 U	0.2 U	0.19 U	0.23 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.19 U	0.19 U	NA
BIS (2-CHLOROISOPROPYL)-ETHER	UG/L	0.27 U	0.24 U	0.24 U	0.26 U	0.24 U	0.29 U	0.26 U	0.25 U	0.26 U	0.26 U	0.26 U	0.25 U	0.25 U	NA
BIS (2-ETHYLHEXYL)- PHTHALATE	UG/L	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.3 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.1 U	1.1 U	NA
BUTYL BENZYL PHTHALATE	UG/L	0.34 U	0.31 U	0.3 U	0.32 U	0.31 U	0.37 U	0.32 U	0.32 U	0.33 U	0.33 U	0.33 U	0.32 U	0.32 U	NA
CHRYSENE	UG/L	2.9	0.044 U	0.043 U	0.22	0.044 U	0.093 J	0.046 U	0.046 U	0.047 U	0.047 U	0.046 U	0.045 U	0.045 U	NA
DIBENZO (A,H) ANTHRACENE	UG/L	0.079 J	0.033 U	0.032 U	0.034 U	0.032 U	0.039 U	0.034 U	0.034 U	0.035 U	0.035 U	0.035 U	0.033 U	0.034 U	NA
DIBENZOFURAN	UG/L	1.1 J	0.17 U	0.16 U	14	0.17 U	0.2 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.17 U	0.17 U	NA
DIETHYLPHTHALATE	UG/L	0.25 U	0.23 U	0.23 U	0.24 U	0.23 U	0.28 U	0.24 U	0.24 U	0.25 U	0.25 U	0.25 U	0.24 U	0.24 U	NA
DIMETHYLPHTHALATE	UG/L	0.22 U	0.2 U	0.2 U	0.21 U	0.2 U	0.24 U	0.21 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.21 U	NA
DI-N-BUTYLPHTHALATE	UG/L	0.51 U	0.47 U	0.46 U	0.49 U	0.47 U	0.56 U	0.49 U	0.49 U	0.5 U	0.5 U	0.5 U	0.48 U	0.49 U	NA
DI-N-OCTYLPHTHALATE	UG/L	0.74 U	0.67 U	0.66 U	0.71 U	0.67 U	0.81 U	0.7 U	0.7 U	0.72 U	0.72 U	0.72 U	0.69 U	0.7 U	NA
FLUORANTHENE	UG/L	15	0.29 U	0.29 U	2.7	0.29 U	0.35 U	0.3 U	0.3 U	0.31 U	0.31 U	0.31 U	0.3 U	0.3 U	NA
FLUORENE	UG/L	2.2	0.16 U	0.15 U	12	0.16 U	0.19 U	0.16 U	0.16 U	0.17 U	0.17 U	0.17 U	0.16 U	0.16 U	NA
HEXACHLOROENZENE	UG/L	0.056 U	0.051 U	0.05 U	0.053 U	0.051 U	0.061 U	0.053 U	0.053 U	0.055 U	0.055 U	0.054 U	0.052 U	0.053 U	NA
HEXACHLOROBUTADIENE	UG/L	0.36 U	0.33 U	0.32 U	0.35 U	0.33 U	0.4 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.34 U	0.34 U	NA
HEXACHLOROCYCLOPENTADIENE	UG/L	4.5 U	4.1 U	4 U	4.3 U	4.1 U	4.9 U	4.3 U	4.3 U	4.4 U	4.4 U	4.3 U	4.2 U	4.2 U	NA
HEXACHLOROETHANE	UG/L	0.42 U	0.38 U	0.38 U	0.4 U	0.38 U	0.46 U	0.4 U	0.4 U	0.41 U	0.41 U	0.41 U	0.39 U	0.4 U	NA
INDENO (1,2,3-CD) PYRENE	UG/L	0.26	0.048 U	0.047 U	0.05 U	0.048 U	0.058 U	0.05 U	0.05 U	0.051 U	0.051 U	0.051 U	0.049 U	0.05 U	NA
ISOPHORONE	UG/L	0.26 U	0.24 U	0.24 U	0.25 U	0.24 U	0.29 U	0.25 U	0.25 U	0.26 U	0.26 U	0.26 U	0.25 U	0.25 U	NA
NAPHTHALENE	UG/L	NA	NA	NA	NA	NA	NA	0.21 U	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	UG/L	0.32 U	0.29 U	0.28 U	0.3 U	0.29 U	0.35 U	0.3 U	0.3 U	0.31 U	0.31 U	0.31 U	0.3 U	0.3 U	NA
N-NITROSODI-N-PROPYLAMINE	UG/L	0.11 U	0.098 U	0.097 U	0.1 U	0.098 U	0.12 U	0.1 U	0.1 U	0.11 U	0.11 U	0.1 U	0.1 U	0.1 U	NA
N-NITROSO-DI-PHENYLAMINE	UG/L	0.26 U	0.24 U	0.23 U	0.25 U	0.24 U	0.28 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.24 U	0.25 U	NA
PENTACHLOROPHENOL	UG/L	1.7 U	0.34 U	0.34 U	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	NA
PHENANTHRENE	UG/L	7.2	0.19 U	0.19 U	0.48 J	0.19 U	0.23 U	0.2 U	0.2 U	0.21 U	0.21 U	0.21 U	0.2 U	0.2 U	NA
PHENOL	UG/L	0.47 U	0.43 U	0.42 U	0.49 J	0.43 U	0.52 U	0.45 U	0.45 U	0.46 U	0.46 U	0.46 U	0.44 U	0.45 U	NA
PYRENE	UG/L	7.2	0.27 U	0.27 U	1.5	0.27 U	0.33 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.28 U	0.28 U	NA

Table C-2
Analytical Summary - First Semi-Annual 2022 Groundwater Data
First Semi-Annual 2022 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/28/2022	W-06A 4/27/2022	W-06C 4/27/2022	W-10AR2 4/28/2022	W-12A 4/27/2022	W-12CR 4/28/2022	W-18D 4/28/2022	W-28C 4/27/2022	W-28C-DUP 4/27/2022	W-30A 4/28/2022	W-30C 4/28/2022	Equipment Blank 4/27/2022	Equipment Blank 4/28/2022	Trip Blank 4/27/2022
8290A															
1,2,3,4,6,7,8-HPCDD (TEF = 0.01)	UG/L	0.000052	0.000078	0.000013 JI	0.000023 J	0.000073 I	0.000042 J	NA	0.000092 J	0.000014 JI	0.00067	0.000078 J	0.000017 U	0.000001 U	NA
1,2,3,4,6,7,8-HPCDF (TEF = 0.01)	UG/L	0.000049 U	0.000047 U	0.000047 U	0.00005 U	0.000048 U	0.00005 U	NA	0.00005 U	0.000049 U	0.00022	0.000049 U	0.0000095 J	0.0000047 JI	NA
1,2,3,4,7,8,9-HPCDF (TEF = 0.01)	UG/L	0.000049 U	0.000047 U	0.0000053 U	0.0000056 U	0.000048 U	0.0000042 U	NA	0.00005 U	0.0000058 U	0.000049 U	0.0000044 U	0.0000084 JI	0.0000029 U	NA
1,2,3,4,7,8-HXCDD (TEF = 0.1)	UG/L	0.000049 U	0.000047 U	0.000047 U	0.00005 U	0.000048 U	0.00005 U	NA	0.00005 U	0.000049 U	0.000049 U	0.000049 U	0.000015 JI	0.0000087 J	NA
1,2,3,4,7,8-HXCDF (TEF = 0.1)	UG/L	0.000022 J	0.0000064 U	0.0000049 U	0.0000048 U	0.000008 J	0.0000036 U	NA	0.0000026 U	0.0000044 U	0.000028 J	0.0000031 U	0.0000039 U	0.0000025 U	NA
1,2,3,6,7,8-HXCDD (TEF = 0.1)	UG/L	0.000049 U	0.000047 U	0.0000026 U	0.00005 U	0.000048 U	0.00005 U	NA	0.00005 U	0.000049 U	0.000049 U	0.000049 U	0.0000042 J	0.0000017 U	NA
1,2,3,6,7,8-HXCDF (TEF = 0.1)	UG/L	0.000025 JI	0.000024 JI	0.0000051 U	0.0000054 U	0.000061 JI	0.000024 JI	NA	0.000003 U	0.0000048 U	0.000044 JI	0.0000034 U	0.0000038 U	0.0000028 U	NA
1,2,3,7,8,9-HXCDD (TEF = 0.1)	UG/L	0.000049 U	0.000047 U	0.0000023 U	0.00005 U	0.000048 U	0.00005 U	NA	0.00005 U	0.000049 U	0.000049 U	0.000049 U	0.000005 J	0.0000039 JI	NA
1,2,3,7,8,9-HXCDF (TEF = 0.1)	UG/L	0.000019 J	0.000008 U	0.0000064 U	0.0000059 U	0.0000089 U	0.0000047 U	NA	0.0000036 U	0.0000067 U	0.000066 U	0.000004 U	0.0000047 U	0.0000032 U	NA
1,2,3,7,8-PECDD (TEF = 1)	UG/L	0.000011 JI	0.0000074 JI	0.0000029 U	0.000003 U	0.0000098 JI	0.0000078 U	NA	0.0000017 U	0.0000049 J	0.0000068 JI	0.0000019 U	0.0000024 U	0.0000022 U	NA
1,2,3,7,8-PCDF (TEF = 0.03)	UG/L	0.000009 J	0.0000021 U	0.0000025 U	0.000003 U	0.0000092 J	0.0000048 U	NA	0.000002 U	0.0000016 U	0.00002 JI	0.0000024 U	0.0000026 U	0.0000017 U	NA
2,3,4,6,7,8-HXCDF (TEF = 0.1)	UG/L	0.000019 J	0.0000083 U	0.0000054 U	0.0000055 U	0.00001 U	0.0000039 U	NA	0.0000034 U	0.0000059 U	0.000063 U	0.0000035 U	0.0000042 U	0.0000029 U	NA
2,3,4,7,8-PCDF (TEF = 0.3)	UG/L	0.0000065 J	0.0000025 U	0.0000026 U	0.000003 U	0.000016 JI	0.0000047 U	NA	0.0000021 U	0.0000017 U	0.000037 J	0.0000023 U	0.0000028 U	0.0000015 U	NA
2,3,7,8-TCDD (TEF = 1)	UG/L	0.0000027 U	0.0000018 U	0.0000044 U	0.0000032 U	0.0000034 U	0.0000035 U	NA	0.000002 U	0.0000035 U	0.0000045 U	0.0000033 U	0.0000036 U	0.000002 U	NA
2,3,7,8-TCDF (TEF = 0.1)	UG/L	0.0000023 U	0.0000028 U	0.0000023 U	0.0000021 U	0.0000084 J	0.0000024 U	NA	0.0000027 U	0.000002 U	0.0000033 U	0.0000025 U	0.0000025 U	0.0000019 U	NA
OCDD (TEF = 0.0003)	UG/L	0.00048	0.00062	0.000094 U	0.00021	0.00038	0.00042	NA	0.0001 U	0.000098 U	0.0092	0.000097 U	0.000033 JI	0.000039 J	NA
OCDF (TEF = 0.0003)	UG/L	0.000097 U	0.000094 U	0.000094 U	0.000099 U	0.000096 U	0.000099 U	NA	0.0001 U	0.000098 U	0.00066	0.000097 U	0.000012 JI	0.0000091 J	NA
TOTAL HPCDD	UG/L	0.00027	0.00029	0.000036 JI	0.000088	0.00015 I	0.00014	NA	0.00004 J	0.000058 JI	0.0015	0.000033 J	0.000017 U	0.000001 U	NA
TOTAL HPCDF	UG/L	0.000049 U	0.000047 U	0.000047 U	0.00005 U	0.00006	0.00005 U	NA	0.00005 U	0.000049 U	0.00095	0.000049 U	0.000018 JI	0.0000047 JI	NA
TOTAL HXCDD	UG/L	0.000049 U	0.000047 U	0.000047 U	0.00005 U	0.000048 U	0.00005 U	NA	0.00005 U	0.000049 U	0.0001 IS	0.000049 U	0.000032 JI	0.000029 JI	NA
TOTAL HXCDF	UG/L	0.000029 JI	0.000037 JI	0.000039 JI	0.000014 JI	0.00011 SI	0.000028 JI	NA	0.000057 JIS	0.00002 JI	0.00087 IS	0.000013 JI	0.0000047 U	0.0000032 U	NA
TOTAL PECDD	UG/L	0.000049 U	0.000047 U	0.0000029 U	0.000003 U	0.000048 U	0.00005 U	NA	0.00005 U	0.000049 U	0.000049 U	0.0000019 U	0.0000024 U	0.0000092 JI	NA
TOTAL PCDF	UG/L	0.000067 JI	0.000012 JI	0.000016 JI	0.000077 JI	0.000063 I	0.000055 JI	NA	0.0000061 JI	0.0000061 JI	0.00031 I	0.000005 JI	0.0000028 U	0.0000017 U	NA
TOTAL TCDD	UG/L	0.0000027 U	0.0000018 U	0.0000044 U	0.0000051 JI	0.000014 JI	0.0000035 U	NA	0.000002 U	0.0000035 U	0.0000045 U	0.0000033 U	0.0000036 U	0.000002 U	NA
TOTAL TCDF	UG/L	0.000023 JI	0.0000094 U	0.0000094 U	0.000083 JI	0.000069 I	0.000029 JI	NA	0.00001 U	0.000002 U	0.000076 I	0.000015 J	0.000022 J	0.0000019 U	NA
2,3,7,8-TCDD TEQ - ND = 0	UG/L	2.84E-06	1.95E-06	1.30E-07	2.93E-07	3.83E-06	7.86E-07	NA	9.20E-08	6.30E-07	2.09E-05	7.80E-08	2.61E-07	1.32E-07	NA

Notes:

TEF = Toxicity Equivalent Factor (World Health Organization, 2005)

TEQ = Toxicity Equivalent Quotient

Bold values represent detections.

DUP indicates duplicate sample.

U indicates compound was not detected.

J indicates an estimated value.

I indicates value is estimated maximum possible concentration.

S indicates ion suppression.

NA indicates not analyzed.

Laboratory results that were U-qualified were assigned a value of 0 for 2,3,7,8-TCDD TEQ calculation.

APPENDIX D
DATA EVALUATION SUMMARY



FTS, LLC

DATE: May 23, 2022

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 480-197333-1

SAMPLES: SUPE-W-06A-042722, SUPE-W-28C-042722, SUPE-EB-01-042722, SUPE-M-99A-042722(W-28C), SUPE-W-06C-042722, SUPE-W-12A-042722, SUPE-TB-01-042722

ANALYSES: Method 8260C (VOCs), 8270D (SVOCs), 8270D LL (Pentachlorophenol)

LABORATORY: Eurofins Laboratories, Buffalo, Chicago

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: None
- Field Blank Contamination
Noncompliance: None
- Field Duplicate Precision
Noncompliance: None
- Surrogate Recoveries
Noncompliance: None
- Matrix Spike/Matrix Spike Duplicate
Noncompliance: None
- Laboratory Control Sample
Noncompliance: The LCSD recovery of 2-chloronaphthalene and 1-methylnaphthalene fell below the recovery limits. The RPDs of 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, 1-methylnaphthalene, 2-chloronaphthalene, 2-methylnaphthalene, acenaphthene, hexachlorobutadiene, hexachlorocyclopentadiene, and hexachloroethane were above the recovery limits. No action was taken on this basis.

FTS, LLC

DATE: June 2, 2022

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 480-197333-2

SAMPLES: SUPE-W-06A-042722, SUPE-W-28C-042722, SUPE-EB-01-042722, SUPE-M-99A-042722(W-28C), SUPE-W-06C-042722, SUPE-W-12A-042722

ANALYSES: Method 8290A (Dioxins/Furans)

LABORATORY: Eurofins Laboratories, Knoxville

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, OCDD, OCDF, total HpCDF, total HxCDD, and total PeCDD were detected in the method blank. Results were detected in the method blank below the QL and results detected below the QL in samples were qualified not detected at the QL.
- Field Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, OCDD, OCDF, total HpCDF, total HxCDD, and total TCDF were detected in the equipment blank. Results were detected in the equipment blank below the QL and results detected below the QL in samples were qualified not detected at the QL.
- Field Duplicate Precision
Noncompliance: See attached page for details.
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: None

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-28C	QUAL	M-99A	QUAL	RPD
1,2,3,4,6,7,8-HpCDD	9.2	J	14	JI	41.38*
1,2,3,4,6,7,8-HpCDF	1.8	JI	1.8	J	0.00
1,2,3,4,7,8,9-HpCDF	0.59	JI	0.58	U	NC
1,2,3,4,7,8-HxCDD	1.2	JI	1.2	JI	0.00
1,2,3,6,7,8-HxCDD	0.57	J	0.66	JI	14.63
1,2,3,7,8,9-HxCDD	0.66	JIS	0.78	JS	16.67
1,2,3,7,8-PeCDD	0.17	U	0.49	J	NC
OCDD	98	J	79	J	21.47
OCDF	4.8	J	4.2	J	13.33
Total HpCDD	40	J	58	I	36.73*
Total HpCDF	5.7	JI	4.1	J	32.65*
Total HxCDD	4.6	JIS	6.9	JIS	40.00*
Total HxCDF	5.7	JIS	2	JI	96.10*
Total PeCDD	0.93	JI	1.6	JI	52.96*
Total PeCDF	0.61	JI	0.61	JI	0.00
Total TCDF	1.2	JI	0.2	U	NC

NC – not calculated due to nondetect result

* - RPD is greater than 30%, associated samples are qualified as estimated, "J," due to laboratory or field sampling imprecision

FTS, LLC

DATE: May 23, 2022

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 480-197349-1

SAMPLES: SUPE-W-12CR-042822, SUPE-W-30C-042822, SUPE-W-30A-042822, SUPE-W-18D-042822, SUPE-W-04AR2-042822, SUPE-W-10AR2-042822, SUPE-W-EB-02-042822

ANALYSES: Method 8260C (VOCs), 8270D (SVOCs), 8270D LL (Pentachlorophenol)

LABORATORY: Eurofins Laboratories, Buffalo, Chicago

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: None
- Field Blank Contamination
Noncompliance: Benzoic acid was detected in the equipment blank. Benzoic acid was detected in the equipment blank below the QL and result detected below the QL in sample W-18D was qualified not detected at the QL.
- Surrogate Recoveries
Noncompliance: The surrogate recovery of p-terphenyl-d14 fell below the recovery limits in sample W-12CR. The surrogate recovery of 2-fluorophenol fell below the recovery limits in sample W-10AR2 in the diluted run. No action was taken on this basis.
- Laboratory Control Sample
Noncompliance: The LCSD recovery of butyl benzyl phthalate fell below the recovery limits. No action was taken on this basis.

FTS, LLC

DATE: June 2, 2022

FROM: Kendra Chintella

SUBJECT: Superior Groundwater

SAMPLE DELIVERY GROUP (SDG): 480-197349-2

SAMPLES: SUPE-W-12CR-042822, SUPE-W-30C-042822, SUPE-W-30A-042822, SUPE-W-04AR2-042822, SUPE-W-10AR2-042822, SUPE-W-EB-02-042822

ANALYSES: Method 8290A (Dioxins/Furans)

LABORATORY: Eurofins Laboratories, Knoxville

The data contained in this SDG were evaluated with regard to the following parameters:

- Data Completeness
Noncompliance: None
- Holding Times
Noncompliance: None
- Laboratory Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8,9-HpCDF, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, OCDD, OCDF, total HpCDF, total HxCDD, and total PeCDD were detected in the method blank. Results were detected in the method blank below the QL and results detected below the QL in samples were qualified not detected at the QL.
- Field Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, OCDD, OCDF, total HpCDF, total HxCDD, and total PeCDD were detected in the equipment blank. Results were detected in the equipment blank below the QL and results detected below the QL in samples were qualified not detected at the QL.
- Surrogate Recoveries
Noncompliance: None
- Laboratory Control Sample
Noncompliance: None

APPENDIX E
LABORATORY ANALYTICAL DATA



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-197333-1

Client Project/Site: Superior, WI Semiannual Groundwater

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
5/19/2022 9:17:52 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

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results through



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	21
QC Sample Results	23
QC Association Summary	31
Lab Chronicle	33
Certification Summary	35
Method Summary	36
Sample Summary	37
Chain of Custody	38
Receipt Checklists	42

Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Job ID: 480-197333-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-197333-1

Comments

No additional comments.

Receipt

The samples were received on 4/28/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4° C, 1.8° C, 2.9° C and 3.2° C.

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Methods 8270D, 8270D LL: The continuing calibration verification (CCV) analyzed in batch 480-624252 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Methods 8270D, 8270D LL: The laboratory control sample (LCS) for preparation batch 480-624194 and analytical batch 480-624252 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: SUPE-W-06A-042722, SUPE-W-28C-042722, SUPE-EB-01-042722, SUPE-M-99A-042722, SUPE-W-06C-042722 and SUPE-W-12A-042722. Therefore, the data has been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-657032 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene and 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCSD associated with preparation batch 500-654410 and analytical batch 500-657032 had 2 analytes outside control limits: 2-Chloronaphthalene and 1-Methylnaphthalene. These results have been reported and qualified.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-654410 and analytical batch 500-657032 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, 2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane and 1-Methylnaphthalene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06A-042722 **Lab Sample ID: 480-197333-1**

No Detections.

Client Sample ID: SUPE-W-28C-042722 **Lab Sample ID: 480-197333-2**

No Detections.

Client Sample ID: SUPE-EB-01-042722 **Lab Sample ID: 480-197333-3**

No Detections.

Client Sample ID: SUPE-M-99A-042722 **Lab Sample ID: 480-197333-4**

No Detections.

Client Sample ID: SUPE-W-06C-042722 **Lab Sample ID: 480-197333-5**

No Detections.

Client Sample ID: SUPE-W-12A-042722 **Lab Sample ID: 480-197333-6**

No Detections.

Client Sample ID: SUPE-TB-01-042722 **Lab Sample ID: 480-197333-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo



Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Date Collected: 04/27/22 08:38

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 15:48	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 15:48	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 15:48	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 15:48	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 15:48	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 15:48	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 15:48	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 15:48	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 15:48	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 15:48	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 15:48	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 15:48	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 15:48	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 15:48	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		05/06/22 15:48	1
4-Bromofluorobenzene (Surr)	111		73 - 120		05/06/22 15:48	1
Dibromofluoromethane (Surr)	108		75 - 123		05/06/22 15:48	1
Toluene-d8 (Surr)	110		80 - 120		05/06/22 15:48	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	140		24 - 146	05/02/22 15:33	05/03/22 14:37	1
2-Fluorobiphenyl	96		37 - 120	05/02/22 15:33	05/03/22 14:37	1
2-Fluorophenol (Surr)	43		10 - 120	05/02/22 15:33	05/03/22 14:37	1
Nitrobenzene-d5 (Surr)	83		26 - 120	05/02/22 15:33	05/03/22 14:37	1
Phenol-d5 (Surr)	27		11 - 120	05/02/22 15:33	05/03/22 14:37	1
p-Terphenyl-d14	103		64 - 127	05/02/22 15:33	05/03/22 14:37	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 13:26	1
1,2-Dichlorobenzene	ND		1.3	0.16	ug/L		05/02/22 16:07	05/17/22 13:26	1
1,3-Dichlorobenzene	ND	*1	1.3	0.13	ug/L		05/02/22 16:07	05/17/22 13:26	1
1,4-Dichlorobenzene	ND		1.3	0.13	ug/L		05/02/22 16:07	05/17/22 13:26	1
bis(chloroisopropyl) ether	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,4,5-Trichlorophenol	ND		6.4	1.6	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,4,6-Trichlorophenol	ND		3.2	0.46	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,4-Dichlorophenol	ND		6.4	1.7	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,4-Dimethylphenol	ND		6.4	1.2	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,4-Dinitrophenol	ND		13	5.5	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,4-Dinitrotoluene	ND		0.64	0.16	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,6-Dinitrotoluene	ND		0.64	0.047	ug/L		05/02/22 16:07	05/17/22 13:26	1
2-Chloronaphthalene	ND	*- *1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 13:26	1
2-Chlorophenol	ND		3.2	0.36	ug/L		05/02/22 16:07	05/17/22 13:26	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Date Collected: 04/27/22 08:38

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND	*1	1.3	0.042	ug/L		05/02/22 16:07	05/17/22 13:26	1
2-Methylphenol	ND		1.3	0.20	ug/L		05/02/22 16:07	05/17/22 13:26	1
2-Nitroaniline	ND		3.2	0.82	ug/L		05/02/22 16:07	05/17/22 13:26	1
2-Nitrophenol	ND		6.4	1.6	ug/L		05/02/22 16:07	05/17/22 13:26	1
3 & 4 Methylphenol	ND		1.3	0.29	ug/L		05/02/22 16:07	05/17/22 13:26	1
3,3'-Dichlorobenzidine	ND		3.2	1.1	ug/L		05/02/22 16:07	05/17/22 13:26	1
3-Nitroaniline	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 13:26	1
4,6-Dinitro-2-methylphenol	ND		13	3.8	ug/L		05/02/22 16:07	05/17/22 13:26	1
4-Bromophenyl phenyl ether	ND		3.2	0.35	ug/L		05/02/22 16:07	05/17/22 13:26	1
4-Chloro-3-methylphenol	ND		6.4	1.5	ug/L		05/02/22 16:07	05/17/22 13:26	1
4-Chloroaniline	ND		6.4	1.3	ug/L		05/02/22 16:07	05/17/22 13:26	1
4-Chlorophenyl phenyl ether	ND		3.2	0.41	ug/L		05/02/22 16:07	05/17/22 13:26	1
4-Nitroaniline	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 13:26	1
4-Nitrophenol	ND		13	4.8	ug/L		05/02/22 16:07	05/17/22 13:26	1
Acenaphthene	ND	*1	0.64	0.20	ug/L		05/02/22 16:07	05/17/22 13:26	1
Acenaphthylene	ND		0.64	0.17	ug/L		05/02/22 16:07	05/17/22 13:26	1
Anthracene	ND		0.64	0.21	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzo[a]anthracene	ND		0.13	0.036	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzo[a]pyrene	ND		0.13	0.063	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzo[b]fluoranthene	ND		0.13	0.052	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzo[g,h,i]perylene	ND		0.64	0.24	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzo[k]fluoranthene	ND		0.13	0.041	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzoic acid	ND		13	3.7	ug/L		05/02/22 16:07	05/17/22 13:26	1
Benzyl alcohol	ND		13	3.9	ug/L		05/02/22 16:07	05/17/22 13:26	1
Bis(2-chloroethoxy)methane	ND		1.3	0.18	ug/L		05/02/22 16:07	05/17/22 13:26	1
Bis(2-chloroethyl)ether	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 13:26	1
Bis(2-ethylhexyl) phthalate	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 13:26	1
Butyl benzyl phthalate	ND		1.3	0.31	ug/L		05/02/22 16:07	05/17/22 13:26	1
Chrysene	ND		0.13	0.044	ug/L		05/02/22 16:07	05/17/22 13:26	1
Dibenz(a,h)anthracene	ND		0.19	0.033	ug/L		05/02/22 16:07	05/17/22 13:26	1
Dibenzofuran	ND		1.3	0.17	ug/L		05/02/22 16:07	05/17/22 13:26	1
Diethyl phthalate	ND		3.2	0.23	ug/L		05/02/22 16:07	05/17/22 13:26	1
Dimethyl phthalate	ND		3.2	0.20	ug/L		05/02/22 16:07	05/17/22 13:26	1
Di-n-butyl phthalate	ND		3.2	0.47	ug/L		05/02/22 16:07	05/17/22 13:26	1
Di-n-octyl phthalate	ND		6.4	0.67	ug/L		05/02/22 16:07	05/17/22 13:26	1
Fluoranthene	ND		0.64	0.29	ug/L		05/02/22 16:07	05/17/22 13:26	1
Fluorene	ND		0.64	0.16	ug/L		05/02/22 16:07	05/17/22 13:26	1
Hexachlorobenzene	ND		0.32	0.051	ug/L		05/02/22 16:07	05/17/22 13:26	1
Hexachlorobutadiene	ND	*1	3.2	0.33	ug/L		05/02/22 16:07	05/17/22 13:26	1
Hexachlorocyclopentadiene	ND	*1	13	4.1	ug/L		05/02/22 16:07	05/17/22 13:26	1
Hexachloroethane	ND	*1	3.2	0.38	ug/L		05/02/22 16:07	05/17/22 13:26	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.048	ug/L		05/02/22 16:07	05/17/22 13:26	1
Isophorone	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 13:26	1
Nitrobenzene	ND		0.64	0.29	ug/L		05/02/22 16:07	05/17/22 13:26	1
N-Nitrosodi-n-propylamine	ND		0.32	0.098	ug/L		05/02/22 16:07	05/17/22 13:26	1
N-Nitrosodiphenylamine	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 13:26	1
Phenanthrene	ND		0.64	0.19	ug/L		05/02/22 16:07	05/17/22 13:26	1
Phenol	ND		3.2	0.43	ug/L		05/02/22 16:07	05/17/22 13:26	1
Pyrene	ND		0.64	0.27	ug/L		05/02/22 16:07	05/17/22 13:26	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Date Collected: 04/27/22 08:38

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		3.2	0.48	ug/L		05/02/22 16:07	05/17/22 13:26	1
2,3,5,6-Tetrachlorophenol	ND		6.4	2.4	ug/L		05/02/22 16:07	05/17/22 13:26	1
1-Methylnaphthalene	ND	*- *1	1.3	0.19	ug/L		05/02/22 16:07	05/17/22 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	54		27 - 110	05/02/22 16:07	05/17/22 13:26	1
Phenol-d5 (Surr)	30		20 - 110	05/02/22 16:07	05/17/22 13:26	1
Nitrobenzene-d5 (Surr)	63		36 - 120	05/02/22 16:07	05/17/22 13:26	1
2-Fluorobiphenyl	69		34 - 110	05/02/22 16:07	05/17/22 13:26	1
2,4,6-Tribromophenol (Surr)	118		40 - 145	05/02/22 16:07	05/17/22 13:26	1
Terphenyl-d14 (Surr)	116		40 - 145	05/02/22 16:07	05/17/22 13:26	1

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 16:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 16:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 16:11	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 16:11	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 16:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 16:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 16:11	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 16:11	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 16:11	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 16:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 16:11	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 16:11	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 16:11	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 16:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 16:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		77 - 120		05/06/22 16:11	1
4-Bromofluorobenzene (Surr)	114		73 - 120		05/06/22 16:11	1
Dibromofluoromethane (Surr)	109		75 - 123		05/06/22 16:11	1
Toluene-d8 (Surr)	111		80 - 120		05/06/22 16:11	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 15:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	128		24 - 146	05/02/22 15:33	05/03/22 15:04	1
2-Fluorobiphenyl	96		37 - 120	05/02/22 15:33	05/03/22 15:04	1
2-Fluorophenol (Surr)	44		10 - 120	05/02/22 15:33	05/03/22 15:04	1
Nitrobenzene-d5 (Surr)	79		26 - 120	05/02/22 15:33	05/03/22 15:04	1
Phenol-d5 (Surr)	28		11 - 120	05/02/22 15:33	05/03/22 15:04	1
p-Terphenyl-d14	102		64 - 127	05/02/22 15:33	05/03/22 15:04	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*1	1.3	0.16	ug/L		05/02/22 16:07	05/17/22 13:50	1
1,2-Dichlorobenzene	ND		1.3	0.17	ug/L		05/02/22 16:07	05/17/22 13:50	1
1,3-Dichlorobenzene	ND	*1	1.3	0.14	ug/L		05/02/22 16:07	05/17/22 13:50	1
1,4-Dichlorobenzene	ND		1.3	0.14	ug/L		05/02/22 16:07	05/17/22 13:50	1
bis(chloroisopropyl) ether	ND		1.3	0.25	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,4,5-Trichlorophenol	ND		6.7	1.7	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,4,6-Trichlorophenol	ND		3.4	0.48	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,4-Dichlorophenol	ND		6.7	1.7	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,4-Dimethylphenol	ND		6.7	1.2	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,4-Dinitrophenol	ND		13	5.8	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,4-Dinitrotoluene	ND		0.67	0.16	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,6-Dinitrotoluene	ND		0.67	0.049	ug/L		05/02/22 16:07	05/17/22 13:50	1
2-Chloronaphthalene	ND	*- *1	1.3	0.16	ug/L		05/02/22 16:07	05/17/22 13:50	1
2-Chlorophenol	ND		3.4	0.37	ug/L		05/02/22 16:07	05/17/22 13:50	1
2-Methylnaphthalene	ND	*1	1.3	0.044	ug/L		05/02/22 16:07	05/17/22 13:50	1
2-Methylphenol	ND		1.3	0.20	ug/L		05/02/22 16:07	05/17/22 13:50	1
2-Nitroaniline	ND		3.4	0.86	ug/L		05/02/22 16:07	05/17/22 13:50	1
2-Nitrophenol	ND		6.7	1.7	ug/L		05/02/22 16:07	05/17/22 13:50	1
3 & 4 Methylphenol	ND		1.3	0.30	ug/L		05/02/22 16:07	05/17/22 13:50	1
3,3'-Dichlorobenzidine	ND		3.4	1.1	ug/L		05/02/22 16:07	05/17/22 13:50	1
3-Nitroaniline	ND		6.7	1.2	ug/L		05/02/22 16:07	05/17/22 13:50	1
4,6-Dinitro-2-methylphenol	ND		13	4.0	ug/L		05/02/22 16:07	05/17/22 13:50	1
4-Bromophenyl phenyl ether	ND		3.4	0.36	ug/L		05/02/22 16:07	05/17/22 13:50	1
4-Chloro-3-methylphenol	ND		6.7	1.5	ug/L		05/02/22 16:07	05/17/22 13:50	1
4-Chloroaniline	ND		6.7	1.4	ug/L		05/02/22 16:07	05/17/22 13:50	1
4-Chlorophenyl phenyl ether	ND		3.4	0.43	ug/L		05/02/22 16:07	05/17/22 13:50	1
4-Nitroaniline	ND		6.7	1.1	ug/L		05/02/22 16:07	05/17/22 13:50	1
4-Nitrophenol	ND		13	5.0	ug/L		05/02/22 16:07	05/17/22 13:50	1
Acenaphthene	ND	*1	0.67	0.21	ug/L		05/02/22 16:07	05/17/22 13:50	1
Acenaphthylene	ND		0.67	0.18	ug/L		05/02/22 16:07	05/17/22 13:50	1
Anthracene	ND		0.67	0.22	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzo[a]anthracene	ND		0.13	0.038	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzo[a]pyrene	ND		0.13	0.066	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzo[b]fluoranthene	ND		0.13	0.054	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzo[g,h,i]perylene	ND		0.67	0.25	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzo[k]fluoranthene	ND		0.13	0.043	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzoic acid	ND		13	3.9	ug/L		05/02/22 16:07	05/17/22 13:50	1
Benzyl alcohol	ND		13	4.1	ug/L		05/02/22 16:07	05/17/22 13:50	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 13:50	1
Bis(2-chloroethyl)ether	ND		1.3	0.20	ug/L		05/02/22 16:07	05/17/22 13:50	1
Bis(2-ethylhexyl) phthalate	ND		6.7	1.1	ug/L		05/02/22 16:07	05/17/22 13:50	1
Butyl benzyl phthalate	ND		1.3	0.32	ug/L		05/02/22 16:07	05/17/22 13:50	1
Chrysene	ND		0.13	0.046	ug/L		05/02/22 16:07	05/17/22 13:50	1
Dibenz(a,h)anthracene	ND		0.20	0.034	ug/L		05/02/22 16:07	05/17/22 13:50	1
Dibenzofuran	ND		1.3	0.18	ug/L		05/02/22 16:07	05/17/22 13:50	1
Diethyl phthalate	ND		3.4	0.24	ug/L		05/02/22 16:07	05/17/22 13:50	1
Dimethyl phthalate	ND		3.4	0.21	ug/L		05/02/22 16:07	05/17/22 13:50	1
Di-n-butyl phthalate	ND		3.4	0.49	ug/L		05/02/22 16:07	05/17/22 13:50	1
Di-n-octyl phthalate	ND		6.7	0.70	ug/L		05/02/22 16:07	05/17/22 13:50	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.67	0.30	ug/L		05/02/22 16:07	05/17/22 13:50	1
Fluorene	ND		0.67	0.16	ug/L		05/02/22 16:07	05/17/22 13:50	1
Hexachlorobenzene	ND		0.34	0.053	ug/L		05/02/22 16:07	05/17/22 13:50	1
Hexachlorobutadiene	ND	*1	3.4	0.35	ug/L		05/02/22 16:07	05/17/22 13:50	1
Hexachlorocyclopentadiene	ND	*1	13	4.3	ug/L		05/02/22 16:07	05/17/22 13:50	1
Hexachloroethane	ND	*1	3.4	0.40	ug/L		05/02/22 16:07	05/17/22 13:50	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.050	ug/L		05/02/22 16:07	05/17/22 13:50	1
Isophorone	ND		1.3	0.25	ug/L		05/02/22 16:07	05/17/22 13:50	1
Nitrobenzene	ND		0.67	0.30	ug/L		05/02/22 16:07	05/17/22 13:50	1
N-Nitrosodi-n-propylamine	ND		0.34	0.10	ug/L		05/02/22 16:07	05/17/22 13:50	1
N-Nitrosodiphenylamine	ND		1.3	0.25	ug/L		05/02/22 16:07	05/17/22 13:50	1
Phenanthrene	ND		0.67	0.20	ug/L		05/02/22 16:07	05/17/22 13:50	1
Phenol	ND		3.4	0.45	ug/L		05/02/22 16:07	05/17/22 13:50	1
Pyrene	ND		0.67	0.29	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,3,4,6-Tetrachlorophenol	ND		3.4	0.50	ug/L		05/02/22 16:07	05/17/22 13:50	1
2,3,5,6-Tetrachlorophenol	ND		6.7	2.6	ug/L		05/02/22 16:07	05/17/22 13:50	1
1-Methylnaphthalene	ND	*- *1	1.3	0.20	ug/L		05/02/22 16:07	05/17/22 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	59		27 - 110	05/02/22 16:07	05/17/22 13:50	1
Phenol-d5 (Surr)	33		20 - 110	05/02/22 16:07	05/17/22 13:50	1
Nitrobenzene-d5 (Surr)	66		36 - 120	05/02/22 16:07	05/17/22 13:50	1
2-Fluorobiphenyl	69		34 - 110	05/02/22 16:07	05/17/22 13:50	1
2,4,6-Tribromophenol (Surr)	118		40 - 145	05/02/22 16:07	05/17/22 13:50	1
Terphenyl-d14 (Surr)	113		40 - 145	05/02/22 16:07	05/17/22 13:50	1

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 16:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 16:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 16:34	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 16:34	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 16:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 16:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 16:34	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 16:34	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 16:34	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 16:34	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 16:34	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 16:34	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 16:34	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 16:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		05/06/22 16:34	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		73 - 120		05/06/22 16:34	1
Dibromofluoromethane (Surr)	106		75 - 123		05/06/22 16:34	1
Toluene-d8 (Surr)	111		80 - 120		05/06/22 16:34	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 15:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	108		24 - 146	05/02/22 15:33	05/03/22 15:32	1
2-Fluorobiphenyl	95		37 - 120	05/02/22 15:33	05/03/22 15:32	1
2-Fluorophenol (Surr)	43		10 - 120	05/02/22 15:33	05/03/22 15:32	1
Nitrobenzene-d5 (Surr)	81		26 - 120	05/02/22 15:33	05/03/22 15:32	1
Phenol-d5 (Surr)	28		11 - 120	05/02/22 15:33	05/03/22 15:32	1
p-Terphenyl-d14	105		64 - 127	05/02/22 15:33	05/03/22 15:32	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*1	1.3	0.16	ug/L		05/02/22 16:07	05/17/22 14:14	1
1,2-Dichlorobenzene	ND		1.3	0.16	ug/L		05/02/22 16:07	05/17/22 14:14	1
1,3-Dichlorobenzene	ND	*1	1.3	0.14	ug/L		05/02/22 16:07	05/17/22 14:14	1
1,4-Dichlorobenzene	ND		1.3	0.14	ug/L		05/02/22 16:07	05/17/22 14:14	1
bis(chloroisopropyl) ether	ND		1.3	0.25	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,4,5-Trichlorophenol	ND		6.6	1.7	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,4,6-Trichlorophenol	ND		3.3	0.47	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,4-Dichlorophenol	ND		6.6	1.7	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,4-Dimethylphenol	ND		6.6	1.2	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,4-Dinitrophenol	ND		13	5.7	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,4-Dinitrotoluene	ND		0.66	0.16	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,6-Dinitrotoluene	ND		0.66	0.049	ug/L		05/02/22 16:07	05/17/22 14:14	1
2-Chloronaphthalene	ND	*- *1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 14:14	1
2-Chlorophenol	ND		3.3	0.37	ug/L		05/02/22 16:07	05/17/22 14:14	1
2-Methylnaphthalene	ND	*1	1.3	0.043	ug/L		05/02/22 16:07	05/17/22 14:14	1
2-Methylphenol	ND		1.3	0.20	ug/L		05/02/22 16:07	05/17/22 14:14	1
2-Nitroaniline	ND		3.3	0.85	ug/L		05/02/22 16:07	05/17/22 14:14	1
2-Nitrophenol	ND		6.6	1.6	ug/L		05/02/22 16:07	05/17/22 14:14	1
3 & 4 Methylphenol	ND		1.3	0.30	ug/L		05/02/22 16:07	05/17/22 14:14	1
3,3'-Dichlorobenzidine	ND		3.3	1.1	ug/L		05/02/22 16:07	05/17/22 14:14	1
3-Nitroaniline	ND		6.6	1.2	ug/L		05/02/22 16:07	05/17/22 14:14	1
4,6-Dinitro-2-methylphenol	ND		13	3.9	ug/L		05/02/22 16:07	05/17/22 14:14	1
4-Bromophenyl phenyl ether	ND		3.3	0.36	ug/L		05/02/22 16:07	05/17/22 14:14	1
4-Chloro-3-methylphenol	ND		6.6	1.5	ug/L		05/02/22 16:07	05/17/22 14:14	1
4-Chloroaniline	ND		6.6	1.3	ug/L		05/02/22 16:07	05/17/22 14:14	1
4-Chlorophenyl phenyl ether	ND		3.3	0.42	ug/L		05/02/22 16:07	05/17/22 14:14	1
4-Nitroaniline	ND		6.6	1.1	ug/L		05/02/22 16:07	05/17/22 14:14	1
4-Nitrophenol	ND		13	4.9	ug/L		05/02/22 16:07	05/17/22 14:14	1
Acenaphthene	ND	*1	0.66	0.20	ug/L		05/02/22 16:07	05/17/22 14:14	1
Acenaphthylene	ND		0.66	0.18	ug/L		05/02/22 16:07	05/17/22 14:14	1
Anthracene	ND		0.66	0.22	ug/L		05/02/22 16:07	05/17/22 14:14	1
Benzo[a]anthracene	ND		0.13	0.037	ug/L		05/02/22 16:07	05/17/22 14:14	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.13	0.065	ug/L		05/02/22 16:07	05/17/22 14:14	1
Benzo[b]fluoranthene	ND		0.13	0.053	ug/L		05/02/22 16:07	05/17/22 14:14	1
Benzo[g,h,i]perylene	ND		0.66	0.25	ug/L		05/02/22 16:07	05/17/22 14:14	1
Benzo[k]fluoranthene	ND		0.13	0.042	ug/L		05/02/22 16:07	05/17/22 14:14	1
Benzoic acid	ND		13	3.8	ug/L		05/02/22 16:07	05/17/22 14:14	1
Benzyl alcohol	ND		13	4.0	ug/L		05/02/22 16:07	05/17/22 14:14	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 14:14	1
Bis(2-chloroethyl)ether	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 14:14	1
Bis(2-ethylhexyl) phthalate	ND		6.6	1.1	ug/L		05/02/22 16:07	05/17/22 14:14	1
Butyl benzyl phthalate	ND		1.3	0.32	ug/L		05/02/22 16:07	05/17/22 14:14	1
Chrysene	ND		0.13	0.045	ug/L		05/02/22 16:07	05/17/22 14:14	1
Dibenz(a,h)anthracene	ND		0.20	0.033	ug/L		05/02/22 16:07	05/17/22 14:14	1
Dibenzofuran	ND		1.3	0.17	ug/L		05/02/22 16:07	05/17/22 14:14	1
Diethyl phthalate	ND		3.3	0.24	ug/L		05/02/22 16:07	05/17/22 14:14	1
Dimethyl phthalate	ND		3.3	0.21	ug/L		05/02/22 16:07	05/17/22 14:14	1
Di-n-butyl phthalate	ND		3.3	0.48	ug/L		05/02/22 16:07	05/17/22 14:14	1
Di-n-octyl phthalate	ND		6.6	0.69	ug/L		05/02/22 16:07	05/17/22 14:14	1
Fluoranthene	ND		0.66	0.30	ug/L		05/02/22 16:07	05/17/22 14:14	1
Fluorene	ND		0.66	0.16	ug/L		05/02/22 16:07	05/17/22 14:14	1
Hexachlorobenzene	ND		0.33	0.052	ug/L		05/02/22 16:07	05/17/22 14:14	1
Hexachlorobutadiene	ND	*1	3.3	0.34	ug/L		05/02/22 16:07	05/17/22 14:14	1
Hexachlorocyclopentadiene	ND	*1	13	4.2	ug/L		05/02/22 16:07	05/17/22 14:14	1
Hexachloroethane	ND	*1	3.3	0.39	ug/L		05/02/22 16:07	05/17/22 14:14	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.049	ug/L		05/02/22 16:07	05/17/22 14:14	1
Isophorone	ND		1.3	0.25	ug/L		05/02/22 16:07	05/17/22 14:14	1
Nitrobenzene	ND		0.66	0.30	ug/L		05/02/22 16:07	05/17/22 14:14	1
N-Nitrosodi-n-propylamine	ND		0.33	0.10	ug/L		05/02/22 16:07	05/17/22 14:14	1
N-Nitrosodiphenylamine	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 14:14	1
Phenanthrene	ND		0.66	0.20	ug/L		05/02/22 16:07	05/17/22 14:14	1
Phenol	ND		3.3	0.44	ug/L		05/02/22 16:07	05/17/22 14:14	1
Pyrene	ND		0.66	0.28	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,3,4,6-Tetrachlorophenol	ND		3.3	0.49	ug/L		05/02/22 16:07	05/17/22 14:14	1
2,3,5,6-Tetrachlorophenol	ND		6.6	2.5	ug/L		05/02/22 16:07	05/17/22 14:14	1
1-Methylnaphthalene	ND	*- *1	1.3	0.20	ug/L		05/02/22 16:07	05/17/22 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	57		27 - 110	05/02/22 16:07	05/17/22 14:14	1
Phenol-d5 (Surr)	33		20 - 110	05/02/22 16:07	05/17/22 14:14	1
Nitrobenzene-d5 (Surr)	73		36 - 120	05/02/22 16:07	05/17/22 14:14	1
2-Fluorobiphenyl	80		34 - 110	05/02/22 16:07	05/17/22 14:14	1
2,4,6-Tribromophenol (Surr)	116		40 - 145	05/02/22 16:07	05/17/22 14:14	1
Terphenyl-d14 (Surr)	118		40 - 145	05/02/22 16:07	05/17/22 14:14	1

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 16:58	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 16:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 16:58	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 16:58	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 16:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 16:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 16:58	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 16:58	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 16:58	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 16:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 16:58	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 16:58	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 16:58	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 16:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		77 - 120		05/06/22 16:58	1
4-Bromofluorobenzene (Surr)	109		73 - 120		05/06/22 16:58	1
Dibromofluoromethane (Surr)	108		75 - 123		05/06/22 16:58	1
Toluene-d8 (Surr)	113		80 - 120		05/06/22 16:58	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	126		24 - 146	05/02/22 15:33	05/03/22 14:09	1
2-Fluorobiphenyl	93		37 - 120	05/02/22 15:33	05/03/22 14:09	1
2-Fluorophenol (Surr)	46		10 - 120	05/02/22 15:33	05/03/22 14:09	1
Nitrobenzene-d5 (Surr)	80		26 - 120	05/02/22 15:33	05/03/22 14:09	1
Phenol-d5 (Surr)	28		11 - 120	05/02/22 15:33	05/03/22 14:09	1
p-Terphenyl-d14	102		64 - 127	05/02/22 15:33	05/03/22 14:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*1	1.4	0.16	ug/L		05/02/22 16:07	05/17/22 14:38	1
1,2-Dichlorobenzene	ND		1.4	0.17	ug/L		05/02/22 16:07	05/17/22 14:38	1
1,3-Dichlorobenzene	ND	*1	1.4	0.14	ug/L		05/02/22 16:07	05/17/22 14:38	1
1,4-Dichlorobenzene	ND		1.4	0.14	ug/L		05/02/22 16:07	05/17/22 14:38	1
bis(chloroisopropyl) ether	ND		1.4	0.26	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,4,5-Trichlorophenol	ND		6.9	1.8	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,4,6-Trichlorophenol	ND		3.4	0.49	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,4-Dichlorophenol	ND		6.9	1.8	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,4-Dimethylphenol	ND		6.9	1.2	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,4-Dinitrophenol	ND		14	5.9	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,4-Dinitrotoluene	ND		0.69	0.17	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,6-Dinitrotoluene	ND		0.69	0.051	ug/L		05/02/22 16:07	05/17/22 14:38	1
2-Chloronaphthalene	ND	*- *1	1.4	0.16	ug/L		05/02/22 16:07	05/17/22 14:38	1
2-Chlorophenol	ND		3.4	0.38	ug/L		05/02/22 16:07	05/17/22 14:38	1
2-Methylnaphthalene	ND	*1	1.4	0.045	ug/L		05/02/22 16:07	05/17/22 14:38	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		1.4	0.21	ug/L		05/02/22 16:07	05/17/22 14:38	1
2-Nitroaniline	ND		3.4	0.88	ug/L		05/02/22 16:07	05/17/22 14:38	1
2-Nitrophenol	ND		6.9	1.7	ug/L		05/02/22 16:07	05/17/22 14:38	1
3 & 4 Methylphenol	ND		1.4	0.31	ug/L		05/02/22 16:07	05/17/22 14:38	1
3,3'-Dichlorobenzidine	ND		3.4	1.2	ug/L		05/02/22 16:07	05/17/22 14:38	1
3-Nitroaniline	ND		6.9	1.2	ug/L		05/02/22 16:07	05/17/22 14:38	1
4,6-Dinitro-2-methylphenol	ND		14	4.1	ug/L		05/02/22 16:07	05/17/22 14:38	1
4-Bromophenyl phenyl ether	ND		3.4	0.37	ug/L		05/02/22 16:07	05/17/22 14:38	1
4-Chloro-3-methylphenol	ND		6.9	1.6	ug/L		05/02/22 16:07	05/17/22 14:38	1
4-Chloroaniline	ND		6.9	1.4	ug/L		05/02/22 16:07	05/17/22 14:38	1
4-Chlorophenyl phenyl ether	ND		3.4	0.44	ug/L		05/02/22 16:07	05/17/22 14:38	1
4-Nitroaniline	ND		6.9	1.1	ug/L		05/02/22 16:07	05/17/22 14:38	1
4-Nitrophenol	ND		14	5.1	ug/L		05/02/22 16:07	05/17/22 14:38	1
Acenaphthene	ND	*1	0.69	0.21	ug/L		05/02/22 16:07	05/17/22 14:38	1
Acenaphthylene	ND		0.69	0.18	ug/L		05/02/22 16:07	05/17/22 14:38	1
Anthracene	ND		0.69	0.23	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzo[a]anthracene	ND		0.14	0.039	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzo[a]pyrene	ND		0.14	0.068	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzo[b]fluoranthene	ND		0.14	0.055	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzo[g,h,i]perylene	ND		0.69	0.26	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzo[k]fluoranthene	ND		0.14	0.044	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzoic acid	ND		14	4.0	ug/L		05/02/22 16:07	05/17/22 14:38	1
Benzyl alcohol	ND		14	4.1	ug/L		05/02/22 16:07	05/17/22 14:38	1
Bis(2-chloroethoxy)methane	ND		1.4	0.20	ug/L		05/02/22 16:07	05/17/22 14:38	1
Bis(2-chloroethyl)ether	ND		1.4	0.20	ug/L		05/02/22 16:07	05/17/22 14:38	1
Bis(2-ethylhexyl) phthalate	ND		6.9	1.2	ug/L		05/02/22 16:07	05/17/22 14:38	1
Butyl benzyl phthalate	ND		1.4	0.33	ug/L		05/02/22 16:07	05/17/22 14:38	1
Chrysene	ND		0.14	0.047	ug/L		05/02/22 16:07	05/17/22 14:38	1
Dibenz(a,h)anthracene	ND		0.21	0.035	ug/L		05/02/22 16:07	05/17/22 14:38	1
Dibenzofuran	ND		1.4	0.18	ug/L		05/02/22 16:07	05/17/22 14:38	1
Diethyl phthalate	ND		3.4	0.25	ug/L		05/02/22 16:07	05/17/22 14:38	1
Dimethyl phthalate	ND		3.4	0.22	ug/L		05/02/22 16:07	05/17/22 14:38	1
Di-n-butyl phthalate	ND		3.4	0.50	ug/L		05/02/22 16:07	05/17/22 14:38	1
Di-n-octyl phthalate	ND		6.9	0.72	ug/L		05/02/22 16:07	05/17/22 14:38	1
Fluoranthene	ND		0.69	0.31	ug/L		05/02/22 16:07	05/17/22 14:38	1
Fluorene	ND		0.69	0.17	ug/L		05/02/22 16:07	05/17/22 14:38	1
Hexachlorobenzene	ND		0.34	0.055	ug/L		05/02/22 16:07	05/17/22 14:38	1
Hexachlorobutadiene	ND	*1	3.4	0.35	ug/L		05/02/22 16:07	05/17/22 14:38	1
Hexachlorocyclopentadiene	ND	*1	14	4.4	ug/L		05/02/22 16:07	05/17/22 14:38	1
Hexachloroethane	ND	*1	3.4	0.41	ug/L		05/02/22 16:07	05/17/22 14:38	1
Indeno[1,2,3-cd]pyrene	ND		0.14	0.051	ug/L		05/02/22 16:07	05/17/22 14:38	1
Isophorone	ND		1.4	0.26	ug/L		05/02/22 16:07	05/17/22 14:38	1
Nitrobenzene	ND		0.69	0.31	ug/L		05/02/22 16:07	05/17/22 14:38	1
N-Nitrosodi-n-propylamine	ND		0.34	0.11	ug/L		05/02/22 16:07	05/17/22 14:38	1
N-Nitrosodiphenylamine	ND		1.4	0.25	ug/L		05/02/22 16:07	05/17/22 14:38	1
Phenanthrene	ND		0.69	0.21	ug/L		05/02/22 16:07	05/17/22 14:38	1
Phenol	ND		3.4	0.46	ug/L		05/02/22 16:07	05/17/22 14:38	1
Pyrene	ND		0.69	0.29	ug/L		05/02/22 16:07	05/17/22 14:38	1
2,3,4,6-Tetrachlorophenol	ND		3.4	0.51	ug/L		05/02/22 16:07	05/17/22 14:38	1

Euromins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	ND		6.9	2.6	ug/L		05/02/22 16:07	05/17/22 14:38	1
1-Methylnaphthalene	ND	*- *1	1.4	0.21	ug/L		05/02/22 16:07	05/17/22 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	58		27 - 110				05/02/22 16:07	05/17/22 14:38	1
Phenol-d5 (Surr)	31		20 - 110				05/02/22 16:07	05/17/22 14:38	1
Nitrobenzene-d5 (Surr)	69		36 - 120				05/02/22 16:07	05/17/22 14:38	1
2-Fluorobiphenyl	76		34 - 110				05/02/22 16:07	05/17/22 14:38	1
2,4,6-Tribromophenol (Surr)	112		40 - 145				05/02/22 16:07	05/17/22 14:38	1
Terphenyl-d14 (Surr)	112		40 - 145				05/02/22 16:07	05/17/22 14:38	1

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 17:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 17:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 17:21	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 17:21	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 17:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 17:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 17:21	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 17:21	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 17:21	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 17:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 17:21	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 17:21	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 17:21	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 17:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					05/06/22 17:21	1
4-Bromofluorobenzene (Surr)	107		73 - 120					05/06/22 17:21	1
Dibromofluoromethane (Surr)	105		75 - 123					05/06/22 17:21	1
Toluene-d8 (Surr)	113		80 - 120					05/06/22 17:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	132		24 - 146				05/02/22 15:33	05/03/22 16:00	1
2-Fluorobiphenyl	84		37 - 120				05/02/22 15:33	05/03/22 16:00	1
2-Fluorophenol (Surr)	36		10 - 120				05/02/22 15:33	05/03/22 16:00	1
Nitrobenzene-d5 (Surr)	68		26 - 120				05/02/22 15:33	05/03/22 16:00	1
Phenol-d5 (Surr)	24		11 - 120				05/02/22 15:33	05/03/22 16:00	1
p-Terphenyl-d14	79		64 - 127				05/02/22 15:33	05/03/22 16:00	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 15:02	1
1,2-Dichlorobenzene	ND		1.3	0.15	ug/L		05/02/22 16:07	05/17/22 15:02	1
1,3-Dichlorobenzene	ND	*1	1.3	0.13	ug/L		05/02/22 16:07	05/17/22 15:02	1
1,4-Dichlorobenzene	ND		1.3	0.13	ug/L		05/02/22 16:07	05/17/22 15:02	1
bis(chloroisopropyl) ether	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,4,5-Trichlorophenol	ND		6.3	1.6	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,4,6-Trichlorophenol	ND		3.1	0.45	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,4-Dichlorophenol	ND		6.3	1.6	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,4-Dimethylphenol	ND		6.3	1.1	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,4-Dinitrophenol	ND		13	5.4	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,4-Dinitrotoluene	ND		0.63	0.15	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,6-Dinitrotoluene	ND		0.63	0.046	ug/L		05/02/22 16:07	05/17/22 15:02	1
2-Chloronaphthalene	ND	*- *1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 15:02	1
2-Chlorophenol	ND		3.1	0.35	ug/L		05/02/22 16:07	05/17/22 15:02	1
2-Methylnaphthalene	ND	*1	1.3	0.041	ug/L		05/02/22 16:07	05/17/22 15:02	1
2-Methylphenol	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 15:02	1
2-Nitroaniline	ND		3.1	0.81	ug/L		05/02/22 16:07	05/17/22 15:02	1
2-Nitrophenol	ND		6.3	1.6	ug/L		05/02/22 16:07	05/17/22 15:02	1
3 & 4 Methylphenol	ND		1.3	0.28	ug/L		05/02/22 16:07	05/17/22 15:02	1
3,3'-Dichlorobenzidine	ND		3.1	1.1	ug/L		05/02/22 16:07	05/17/22 15:02	1
3-Nitroaniline	ND		6.3	1.1	ug/L		05/02/22 16:07	05/17/22 15:02	1
4,6-Dinitro-2-methylphenol	ND		13	3.7	ug/L		05/02/22 16:07	05/17/22 15:02	1
4-Bromophenyl phenyl ether	ND		3.1	0.34	ug/L		05/02/22 16:07	05/17/22 15:02	1
4-Chloro-3-methylphenol	ND		6.3	1.4	ug/L		05/02/22 16:07	05/17/22 15:02	1
4-Chloroaniline	ND		6.3	1.3	ug/L		05/02/22 16:07	05/17/22 15:02	1
4-Chlorophenyl phenyl ether	ND		3.1	0.40	ug/L		05/02/22 16:07	05/17/22 15:02	1
4-Nitroaniline	ND		6.3	1.0	ug/L		05/02/22 16:07	05/17/22 15:02	1
4-Nitrophenol	ND		13	4.7	ug/L		05/02/22 16:07	05/17/22 15:02	1
Acenaphthene	ND	*1	0.63	0.19	ug/L		05/02/22 16:07	05/17/22 15:02	1
Acenaphthylene	ND		0.63	0.17	ug/L		05/02/22 16:07	05/17/22 15:02	1
Anthracene	ND		0.63	0.21	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzo[a]anthracene	ND		0.13	0.036	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzo[a]pyrene	ND		0.13	0.062	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzo[b]fluoranthene	ND		0.13	0.051	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzo[g,h,i]perylene	ND		0.63	0.24	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzo[k]fluoranthene	ND		0.13	0.040	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzoic acid	ND		13	3.6	ug/L		05/02/22 16:07	05/17/22 15:02	1
Benzyl alcohol	ND		13	3.8	ug/L		05/02/22 16:07	05/17/22 15:02	1
Bis(2-chloroethoxy)methane	ND		1.3	0.18	ug/L		05/02/22 16:07	05/17/22 15:02	1
Bis(2-chloroethyl)ether	ND		1.3	0.18	ug/L		05/02/22 16:07	05/17/22 15:02	1
Bis(2-ethylhexyl) phthalate	ND		6.3	1.1	ug/L		05/02/22 16:07	05/17/22 15:02	1
Butyl benzyl phthalate	ND		1.3	0.30	ug/L		05/02/22 16:07	05/17/22 15:02	1
Chrysene	ND		0.13	0.043	ug/L		05/02/22 16:07	05/17/22 15:02	1
Dibenz(a,h)anthracene	ND		0.19	0.032	ug/L		05/02/22 16:07	05/17/22 15:02	1
Dibenzofuran	ND		1.3	0.16	ug/L		05/02/22 16:07	05/17/22 15:02	1
Diethyl phthalate	ND		3.1	0.23	ug/L		05/02/22 16:07	05/17/22 15:02	1
Dimethyl phthalate	ND		3.1	0.20	ug/L		05/02/22 16:07	05/17/22 15:02	1
Di-n-butyl phthalate	ND		3.1	0.46	ug/L		05/02/22 16:07	05/17/22 15:02	1
Di-n-octyl phthalate	ND		6.3	0.66	ug/L		05/02/22 16:07	05/17/22 15:02	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.63	0.29	ug/L		05/02/22 16:07	05/17/22 15:02	1
Fluorene	ND		0.63	0.15	ug/L		05/02/22 16:07	05/17/22 15:02	1
Hexachlorobenzene	ND		0.31	0.050	ug/L		05/02/22 16:07	05/17/22 15:02	1
Hexachlorobutadiene	ND	*1	3.1	0.32	ug/L		05/02/22 16:07	05/17/22 15:02	1
Hexachlorocyclopentadiene	ND	*1	13	4.0	ug/L		05/02/22 16:07	05/17/22 15:02	1
Hexachloroethane	ND	*1	3.1	0.38	ug/L		05/02/22 16:07	05/17/22 15:02	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.047	ug/L		05/02/22 16:07	05/17/22 15:02	1
Isophorone	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 15:02	1
Nitrobenzene	ND		0.63	0.28	ug/L		05/02/22 16:07	05/17/22 15:02	1
N-Nitrosodi-n-propylamine	ND		0.31	0.097	ug/L		05/02/22 16:07	05/17/22 15:02	1
N-Nitrosodiphenylamine	ND		1.3	0.23	ug/L		05/02/22 16:07	05/17/22 15:02	1
Phenanthrene	ND		0.63	0.19	ug/L		05/02/22 16:07	05/17/22 15:02	1
Phenol	ND		3.1	0.42	ug/L		05/02/22 16:07	05/17/22 15:02	1
Pyrene	ND		0.63	0.27	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,3,4,6-Tetrachlorophenol	ND		3.1	0.47	ug/L		05/02/22 16:07	05/17/22 15:02	1
2,3,5,6-Tetrachlorophenol	ND		6.3	2.4	ug/L		05/02/22 16:07	05/17/22 15:02	1
1-Methylnaphthalene	ND	*- *1	1.3	0.19	ug/L		05/02/22 16:07	05/17/22 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	47		27 - 110				05/02/22 16:07	05/17/22 15:02	1
Phenol-d5 (Surr)	28		20 - 110				05/02/22 16:07	05/17/22 15:02	1
Nitrobenzene-d5 (Surr)	57		36 - 120				05/02/22 16:07	05/17/22 15:02	1
2-Fluorobiphenyl	66		34 - 110				05/02/22 16:07	05/17/22 15:02	1
2,4,6-Tribromophenol (Surr)	119		40 - 145				05/02/22 16:07	05/17/22 15:02	1
Terphenyl-d14 (Surr)	104		40 - 145				05/02/22 16:07	05/17/22 15:02	1

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 17:43	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 17:43	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 17:43	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 17:43	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 17:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 17:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 17:43	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 17:43	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 17:43	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 17:43	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 17:43	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 17:43	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 17:43	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 17:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					05/06/22 17:43	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		73 - 120		05/06/22 17:43	1
Dibromofluoromethane (Surr)	104		75 - 123		05/06/22 17:43	1
Toluene-d8 (Surr)	111		80 - 120		05/06/22 17:43	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	143		24 - 146	05/02/22 15:33	05/03/22 16:27	1
2-Fluorobiphenyl	92		37 - 120	05/02/22 15:33	05/03/22 16:27	1
2-Fluorophenol (Surr)	45		10 - 120	05/02/22 15:33	05/03/22 16:27	1
Nitrobenzene-d5 (Surr)	76		26 - 120	05/02/22 15:33	05/03/22 16:27	1
Phenol-d5 (Surr)	29		11 - 120	05/02/22 15:33	05/03/22 16:27	1
p-Terphenyl-d14	85		64 - 127	05/02/22 15:33	05/03/22 16:27	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	*1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 15:26	1
1,2-Dichlorobenzene	ND		1.3	0.16	ug/L		05/02/22 16:07	05/17/22 15:26	1
1,3-Dichlorobenzene	ND	*1	1.3	0.13	ug/L		05/02/22 16:07	05/17/22 15:26	1
1,4-Dichlorobenzene	ND		1.3	0.13	ug/L		05/02/22 16:07	05/17/22 15:26	1
bis(chloroisopropyl) ether	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,4,5-Trichlorophenol	ND		6.4	1.6	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,4,6-Trichlorophenol	ND		3.2	0.46	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,4-Dichlorophenol	ND		6.4	1.7	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,4-Dimethylphenol	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,4-Dinitrophenol	ND		13	5.5	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,4-Dinitrotoluene	ND		0.64	0.16	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,6-Dinitrotoluene	ND		0.64	0.047	ug/L		05/02/22 16:07	05/17/22 15:26	1
2-Chloronaphthalene	ND	*- *1	1.3	0.15	ug/L		05/02/22 16:07	05/17/22 15:26	1
2-Chlorophenol	ND		3.2	0.36	ug/L		05/02/22 16:07	05/17/22 15:26	1
2-Methylnaphthalene	ND	*1	1.3	0.042	ug/L		05/02/22 16:07	05/17/22 15:26	1
2-Methylphenol	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 15:26	1
2-Nitroaniline	ND		3.2	0.82	ug/L		05/02/22 16:07	05/17/22 15:26	1
2-Nitrophenol	ND		6.4	1.6	ug/L		05/02/22 16:07	05/17/22 15:26	1
3 & 4 Methylphenol	ND		1.3	0.29	ug/L		05/02/22 16:07	05/17/22 15:26	1
3,3'-Dichlorobenzidine	ND		3.2	1.1	ug/L		05/02/22 16:07	05/17/22 15:26	1
3-Nitroaniline	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 15:26	1
4,6-Dinitro-2-methylphenol	ND		13	3.8	ug/L		05/02/22 16:07	05/17/22 15:26	1
4-Bromophenyl phenyl ether	ND		3.2	0.34	ug/L		05/02/22 16:07	05/17/22 15:26	1
4-Chloro-3-methylphenol	ND		6.4	1.5	ug/L		05/02/22 16:07	05/17/22 15:26	1
4-Chloroaniline	ND		6.4	1.3	ug/L		05/02/22 16:07	05/17/22 15:26	1
4-Chlorophenyl phenyl ether	ND		3.2	0.41	ug/L		05/02/22 16:07	05/17/22 15:26	1
4-Nitroaniline	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 15:26	1
4-Nitrophenol	ND		13	4.7	ug/L		05/02/22 16:07	05/17/22 15:26	1
Acenaphthene	ND	*1	0.64	0.20	ug/L		05/02/22 16:07	05/17/22 15:26	1
Acenaphthylene	ND		0.64	0.17	ug/L		05/02/22 16:07	05/17/22 15:26	1
Anthracene	ND		0.64	0.21	ug/L		05/02/22 16:07	05/17/22 15:26	1
Benzo[a]anthracene	ND		0.13	0.036	ug/L		05/02/22 16:07	05/17/22 15:26	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.13	0.063	ug/L		05/02/22 16:07	05/17/22 15:26	1
Benzo[b]fluoranthene	ND		0.13	0.052	ug/L		05/02/22 16:07	05/17/22 15:26	1
Benzo[g,h,i]perylene	ND		0.64	0.24	ug/L		05/02/22 16:07	05/17/22 15:26	1
Benzo[k]fluoranthene	ND		0.13	0.041	ug/L		05/02/22 16:07	05/17/22 15:26	1
Benzoic acid	ND		13	3.7	ug/L		05/02/22 16:07	05/17/22 15:26	1
Benzyl alcohol	ND		13	3.9	ug/L		05/02/22 16:07	05/17/22 15:26	1
Bis(2-chloroethoxy)methane	ND		1.3	0.18	ug/L		05/02/22 16:07	05/17/22 15:26	1
Bis(2-chloroethyl)ether	ND		1.3	0.19	ug/L		05/02/22 16:07	05/17/22 15:26	1
Bis(2-ethylhexyl) phthalate	ND		6.4	1.1	ug/L		05/02/22 16:07	05/17/22 15:26	1
Butyl benzyl phthalate	ND		1.3	0.31	ug/L		05/02/22 16:07	05/17/22 15:26	1
Chrysene	ND		0.13	0.044	ug/L		05/02/22 16:07	05/17/22 15:26	1
Dibenz(a,h)anthracene	ND		0.19	0.032	ug/L		05/02/22 16:07	05/17/22 15:26	1
Dibenzofuran	ND		1.3	0.17	ug/L		05/02/22 16:07	05/17/22 15:26	1
Diethyl phthalate	ND		3.2	0.23	ug/L		05/02/22 16:07	05/17/22 15:26	1
Dimethyl phthalate	ND		3.2	0.20	ug/L		05/02/22 16:07	05/17/22 15:26	1
Di-n-butyl phthalate	ND		3.2	0.47	ug/L		05/02/22 16:07	05/17/22 15:26	1
Di-n-octyl phthalate	ND		6.4	0.67	ug/L		05/02/22 16:07	05/17/22 15:26	1
Fluoranthene	ND		0.64	0.29	ug/L		05/02/22 16:07	05/17/22 15:26	1
Fluorene	ND		0.64	0.16	ug/L		05/02/22 16:07	05/17/22 15:26	1
Hexachlorobenzene	ND		0.32	0.051	ug/L		05/02/22 16:07	05/17/22 15:26	1
Hexachlorobutadiene	ND	*1	3.2	0.33	ug/L		05/02/22 16:07	05/17/22 15:26	1
Hexachlorocyclopentadiene	ND	*1	13	4.1	ug/L		05/02/22 16:07	05/17/22 15:26	1
Hexachloroethane	ND	*1	3.2	0.38	ug/L		05/02/22 16:07	05/17/22 15:26	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.048	ug/L		05/02/22 16:07	05/17/22 15:26	1
Isophorone	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 15:26	1
Nitrobenzene	ND		0.64	0.29	ug/L		05/02/22 16:07	05/17/22 15:26	1
N-Nitrosodi-n-propylamine	ND		0.32	0.098	ug/L		05/02/22 16:07	05/17/22 15:26	1
N-Nitrosodiphenylamine	ND		1.3	0.24	ug/L		05/02/22 16:07	05/17/22 15:26	1
Phenanthrene	ND		0.64	0.19	ug/L		05/02/22 16:07	05/17/22 15:26	1
Phenol	ND		3.2	0.43	ug/L		05/02/22 16:07	05/17/22 15:26	1
Pyrene	ND		0.64	0.27	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,3,4,6-Tetrachlorophenol	ND		3.2	0.48	ug/L		05/02/22 16:07	05/17/22 15:26	1
2,3,5,6-Tetrachlorophenol	ND		6.4	2.4	ug/L		05/02/22 16:07	05/17/22 15:26	1
1-Methylnaphthalene	ND	*- *1	1.3	0.19	ug/L		05/02/22 16:07	05/17/22 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	51		27 - 110	05/02/22 16:07	05/17/22 15:26	1
Phenol-d5 (Surr)	31		20 - 110	05/02/22 16:07	05/17/22 15:26	1
Nitrobenzene-d5 (Surr)	61		36 - 120	05/02/22 16:07	05/17/22 15:26	1
2-Fluorobiphenyl	71		34 - 110	05/02/22 16:07	05/17/22 15:26	1
2,4,6-Tribromophenol (Surr)	121		40 - 145	05/02/22 16:07	05/17/22 15:26	1
Terphenyl-d14 (Surr)	105		40 - 145	05/02/22 16:07	05/17/22 15:26	1

Client Sample ID: SUPE-TB-01-042722

Lab Sample ID: 480-197333-7

Date Collected: 04/27/22 15:23

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 18:06	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-TB-01-042722

Lab Sample ID: 480-197333-7

Date Collected: 04/27/22 15:23

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 18:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 18:06	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 18:06	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 18:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 18:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 18:06	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 18:06	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 18:06	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 18:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 18:06	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 18:06	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 18:06	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 18:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		05/06/22 18:06	1
4-Bromofluorobenzene (Surr)	106		73 - 120		05/06/22 18:06	1
Dibromofluoromethane (Surr)	104		75 - 123		05/06/22 18:06	1
Toluene-d8 (Surr)	114		80 - 120		05/06/22 18:06	1

Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-197333-1	SUPE-W-06A-042722	115	111	108	110
480-197333-2	SUPE-W-28C-042722	114	114	109	111
480-197333-3	SUPE-EB-01-042722	110	103	106	111
480-197333-4	SUPE-M-99A-042722	115	109	108	113
480-197333-5	SUPE-W-06C-042722	104	107	105	113
480-197333-6	SUPE-W-12A-042722	111	111	104	111
480-197333-7	SUPE-TB-01-042722	106	106	104	114
LCS 480-624853/5	Lab Control Sample	105	109	108	112
MB 480-624853/7	Method Blank	111	112	114	110

Surrogate Legend
 DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (27-110)	PHL (20-110)	NBZ (36-120)	FBP (34-110)	TBP (40-145)	TPHL (40-145)
480-197333-1	SUPE-W-06A-042722	54	30	63	69	118	116
480-197333-2	SUPE-W-28C-042722	59	33	66	69	118	113
480-197333-3	SUPE-EB-01-042722	57	33	73	80	116	118
480-197333-4	SUPE-M-99A-042722	58	31	69	76	112	112
480-197333-5	SUPE-W-06C-042722	47	28	57	66	119	104
480-197333-6	SUPE-W-12A-042722	51	31	61	71	121	105
LCS 500-654410/2-A	Lab Control Sample	93	60	74	71	138	104
LCS 500-654410/3-A	Lab Control Sample Dup	80	52	65	62	129	97
MB 500-654410/1-A	Method Blank	81	50	65	59	99	109

Surrogate Legend
 2FP = 2-Fluorophenol (Surr)
 PHL = Phenol-d5 (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-197333-1	SUPE-W-06A-042722	140	96	43	83	27	103
480-197333-2	SUPE-W-28C-042722	128	96	44	79	28	102
480-197333-3	SUPE-EB-01-042722	108	95	43	81	28	105
480-197333-4	SUPE-M-99A-042722	126	93	46	80	28	102
480-197333-4 MS	SUPE-M-99A-042722	143	93	41	75	28	92

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Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-197333-4 MSD	SUPE-M-99A-042722	142	95	43	80	29	91
480-197333-5	SUPE-W-06C-042722	132	84	36	68	24	79
480-197333-6	SUPE-W-12A-042722	143	92	45	76	29	85
LCS 480-624194/2-A	Lab Control Sample	156 S1+	98	48	81	32	113
MB 480-624194/1-A	Method Blank	113	88	42	72	27	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14



QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-624853/7
Matrix: Water
Analysis Batch: 624853

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/06/22 12:37	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/06/22 12:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/06/22 12:37	1
Benzene	ND		1.0	0.41	ug/L			05/06/22 12:37	1
Chloromethane	ND		1.0	0.35	ug/L			05/06/22 12:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/06/22 12:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/06/22 12:37	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/06/22 12:37	1
Naphthalene	ND		1.0	0.43	ug/L			05/06/22 12:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/06/22 12:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/06/22 12:37	1
o-Xylene	ND		1.0	0.76	ug/L			05/06/22 12:37	1
Styrene	ND		1.0	0.73	ug/L			05/06/22 12:37	1
Toluene	ND		1.0	0.51	ug/L			05/06/22 12:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/06/22 12:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		05/06/22 12:37	1
4-Bromofluorobenzene (Surr)	112		73 - 120		05/06/22 12:37	1
Dibromofluoromethane (Surr)	114		75 - 123		05/06/22 12:37	1
Toluene-d8 (Surr)	110		80 - 120		05/06/22 12:37	1

Lab Sample ID: LCS 480-624853/5
Matrix: Water
Analysis Batch: 624853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	73 - 126
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	76 - 121
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	77 - 121
Benzene	25.0	24.7		ug/L		99	71 - 124
Chloromethane	25.0	25.9		ug/L		104	68 - 124
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Methyl tert-butyl ether	25.0	25.0		ug/L		100	77 - 120
m-Xylene & p-Xylene	25.0	25.3		ug/L		101	76 - 122
Naphthalene	25.0	25.7		ug/L		103	66 - 125
n-Butylbenzene	25.0	25.6		ug/L		102	71 - 128
N-Propylbenzene	25.0	24.8		ug/L		99	75 - 127
o-Xylene	25.0	25.5		ug/L		102	76 - 122
Styrene	25.0	25.4		ug/L		102	80 - 120
Toluene	25.0	24.6		ug/L		98	80 - 122
Xylenes, Total	50.0	50.8		ug/L		102	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	112		80 - 120

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-654410/1-A
Matrix: Water
Analysis Batch: 657032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654410

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		1.6	0.19	ug/L		05/02/22 16:07	05/17/22 09:50	1
1,2-Dichlorobenzene	ND		1.6	0.20	ug/L		05/02/22 16:07	05/17/22 09:50	1
1,3-Dichlorobenzene	ND		1.6	0.17	ug/L		05/02/22 16:07	05/17/22 09:50	1
1,4-Dichlorobenzene	ND		1.6	0.17	ug/L		05/02/22 16:07	05/17/22 09:50	1
bis(chloroisopropyl) ether	ND		1.6	0.30	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,4,5-Trichlorophenol	ND		8.0	2.1	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,4,6-Trichlorophenol	ND		4.0	0.57	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,4-Dichlorophenol	ND		8.0	2.1	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,4-Dimethylphenol	ND		8.0	1.4	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,4-Dinitrophenol	ND		16	6.9	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,4-Dinitrotoluene	ND		0.80	0.20	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,6-Dinitrotoluene	ND		0.80	0.059	ug/L		05/02/22 16:07	05/17/22 09:50	1
2-Chloronaphthalene	ND		1.6	0.19	ug/L		05/02/22 16:07	05/17/22 09:50	1
2-Chlorophenol	ND		4.0	0.45	ug/L		05/02/22 16:07	05/17/22 09:50	1
2-Methylnaphthalene	ND		1.6	0.052	ug/L		05/02/22 16:07	05/17/22 09:50	1
2-Methylphenol	ND		1.6	0.24	ug/L		05/02/22 16:07	05/17/22 09:50	1
2-Nitroaniline	ND		4.0	1.0	ug/L		05/02/22 16:07	05/17/22 09:50	1
2-Nitrophenol	ND		8.0	2.0	ug/L		05/02/22 16:07	05/17/22 09:50	1
3 & 4 Methylphenol	ND		1.6	0.36	ug/L		05/02/22 16:07	05/17/22 09:50	1
3,3'-Dichlorobenzidine	ND		4.0	1.4	ug/L		05/02/22 16:07	05/17/22 09:50	1
3-Nitroaniline	ND		8.0	1.4	ug/L		05/02/22 16:07	05/17/22 09:50	1
4,6-Dinitro-2-methylphenol	ND		16	4.7	ug/L		05/02/22 16:07	05/17/22 09:50	1
4-Bromophenyl phenyl ether	ND		4.0	0.43	ug/L		05/02/22 16:07	05/17/22 09:50	1
4-Chloro-3-methylphenol	ND		8.0	1.8	ug/L		05/02/22 16:07	05/17/22 09:50	1
4-Chloroaniline	ND		8.0	1.6	ug/L		05/02/22 16:07	05/17/22 09:50	1
4-Chlorophenyl phenyl ether	ND		4.0	0.51	ug/L		05/02/22 16:07	05/17/22 09:50	1
4-Nitroaniline	ND		8.0	1.3	ug/L		05/02/22 16:07	05/17/22 09:50	1
4-Nitrophenol	ND		16	5.9	ug/L		05/02/22 16:07	05/17/22 09:50	1
Acenaphthene	ND		0.80	0.25	ug/L		05/02/22 16:07	05/17/22 09:50	1
Acenaphthylene	ND		0.80	0.21	ug/L		05/02/22 16:07	05/17/22 09:50	1
Anthracene	ND		0.80	0.27	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzo[a]anthracene	ND		0.16	0.045	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzo[a]pyrene	ND		0.16	0.079	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzo[b]fluoranthene	ND		0.16	0.065	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzo[g,h,i]perylene	ND		0.80	0.30	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzo[k]fluoranthene	ND		0.16	0.051	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzoic acid	ND		16	4.6	ug/L		05/02/22 16:07	05/17/22 09:50	1
Benzyl alcohol	ND		16	4.8	ug/L		05/02/22 16:07	05/17/22 09:50	1
Bis(2-chloroethoxy)methane	ND		1.6	0.23	ug/L		05/02/22 16:07	05/17/22 09:50	1
Bis(2-chloroethyl)ether	ND		1.6	0.23	ug/L		05/02/22 16:07	05/17/22 09:50	1
Bis(2-ethylhexyl) phthalate	ND		8.0	1.4	ug/L		05/02/22 16:07	05/17/22 09:50	1
Butyl benzyl phthalate	ND		1.6	0.38	ug/L		05/02/22 16:07	05/17/22 09:50	1
Chrysene	ND		0.16	0.055	ug/L		05/02/22 16:07	05/17/22 09:50	1
Dibenz(a,h)anthracene	ND		0.24	0.041	ug/L		05/02/22 16:07	05/17/22 09:50	1
Dibenzofuran	ND		1.6	0.21	ug/L		05/02/22 16:07	05/17/22 09:50	1
Diethyl phthalate	ND		4.0	0.29	ug/L		05/02/22 16:07	05/17/22 09:50	1
Dimethyl phthalate	ND		4.0	0.25	ug/L		05/02/22 16:07	05/17/22 09:50	1
Di-n-butyl phthalate	ND		4.0	0.58	ug/L		05/02/22 16:07	05/17/22 09:50	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-654410/1-A
Matrix: Water
Analysis Batch: 657032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654410

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Di-n-octyl phthalate	ND		8.0	0.84	ug/L		05/02/22 16:07	05/17/22 09:50	1
Fluoranthene	ND		0.80	0.36	ug/L		05/02/22 16:07	05/17/22 09:50	1
Fluorene	ND		0.80	0.20	ug/L		05/02/22 16:07	05/17/22 09:50	1
Hexachlorobenzene	ND		0.40	0.064	ug/L		05/02/22 16:07	05/17/22 09:50	1
Hexachlorobutadiene	ND		4.0	0.41	ug/L		05/02/22 16:07	05/17/22 09:50	1
Hexachlorocyclopentadiene	ND		16	5.1	ug/L		05/02/22 16:07	05/17/22 09:50	1
Hexachloroethane	ND		4.0	0.48	ug/L		05/02/22 16:07	05/17/22 09:50	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.060	ug/L		05/02/22 16:07	05/17/22 09:50	1
Isophorone	ND		1.6	0.30	ug/L		05/02/22 16:07	05/17/22 09:50	1
Nitrobenzene	ND		0.80	0.36	ug/L		05/02/22 16:07	05/17/22 09:50	1
N-Nitrosodi-n-propylamine	ND		0.40	0.12	ug/L		05/02/22 16:07	05/17/22 09:50	1
N-Nitrosodiphenylamine	ND		1.6	0.30	ug/L		05/02/22 16:07	05/17/22 09:50	1
Phenanthrene	ND		0.80	0.24	ug/L		05/02/22 16:07	05/17/22 09:50	1
Phenol	ND		4.0	0.54	ug/L		05/02/22 16:07	05/17/22 09:50	1
Pyrene	ND		0.80	0.34	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,3,4,6-Tetrachlorophenol	ND		4.0	0.60	ug/L		05/02/22 16:07	05/17/22 09:50	1
2,3,5,6-Tetrachlorophenol	ND		8.0	3.1	ug/L		05/02/22 16:07	05/17/22 09:50	1
1-Methylnaphthalene	ND		1.6	0.24	ug/L		05/02/22 16:07	05/17/22 09:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	81		27 - 110	05/02/22 16:07	05/17/22 09:50	1
Phenol-d5 (Surr)	50		20 - 110	05/02/22 16:07	05/17/22 09:50	1
Nitrobenzene-d5 (Surr)	65		36 - 120	05/02/22 16:07	05/17/22 09:50	1
2-Fluorobiphenyl	59		34 - 110	05/02/22 16:07	05/17/22 09:50	1
2,4,6-Tribromophenol (Surr)	99		40 - 145	05/02/22 16:07	05/17/22 09:50	1
Terphenyl-d14 (Surr)	109		40 - 145	05/02/22 16:07	05/17/22 09:50	1

Lab Sample ID: LCS 500-654410/2-A
Matrix: Water
Analysis Batch: 657032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	32.0	10.9		ug/L		34	26 - 110
1,3-Dichlorobenzene	32.0	9.86		ug/L		31	22 - 110
1,4-Dichlorobenzene	32.0	10.1		ug/L		32	23 - 110
bis(chloroisopropyl) ether	32.0	17.5		ug/L		55	38 - 140
2,4,5-Trichlorophenol	32.0	31.1		ug/L		97	63 - 124
2,4,6-Trichlorophenol	32.0	29.6		ug/L		93	62 - 121
2,4-Dichlorophenol	32.0	31.4		ug/L		98	58 - 120
2,4-Dimethylphenol	32.0	26.6		ug/L		83	51 - 115
2,4-Dinitrophenol	64.0	61.9		ug/L		97	37 - 130
2,4-Dinitrotoluene	32.0	31.8		ug/L		99	63 - 129
2,6-Dinitrotoluene	32.0	30.8		ug/L		96	63 - 129
2-Chloronaphthalene	32.0	14.7		ug/L		46	39 - 110
2-Chlorophenol	32.0	26.4		ug/L		82	59 - 110
2-Methylnaphthalene	32.0	14.2		ug/L		44	34 - 110
2-Methylphenol	32.0	27.4		ug/L		86	53 - 115

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-654410/2-A
Matrix: Water
Analysis Batch: 657032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Nitroaniline	32.0	27.2		ug/L		85	59 - 138
2-Nitrophenol	32.0	28.0		ug/L		87	59 - 115
3 & 4 Methylphenol	32.0	26.5		ug/L		83	50 - 116
3,3'-Dichlorobenzidine	32.0	35.6		ug/L		111	60 - 132
3-Nitroaniline	32.0	26.2		ug/L		82	47 - 123
4,6-Dinitro-2-methylphenol	64.0	61.6		ug/L		96	50 - 129
4-Bromophenyl phenyl ether	32.0	28.4		ug/L		89	58 - 120
4-Chloro-3-methylphenol	32.0	31.1		ug/L		97	64 - 128
4-Chloroaniline	32.0	26.1		ug/L		82	35 - 128
4-Chlorophenyl phenyl ether	32.0	22.7		ug/L		71	48 - 116
4-Nitroaniline	32.0	25.0		ug/L		78	35 - 110
4-Nitrophenol	64.0	36.4		ug/L		57	20 - 110
Acenaphthene	32.0	18.3		ug/L		57	46 - 110
Acenaphthylene	32.0	19.1		ug/L		60	47 - 113
Anthracene	32.0	28.4		ug/L		89	67 - 118
Benzo[a]anthracene	32.0	28.7		ug/L		90	70 - 126
Benzo[a]pyrene	32.0	31.3		ug/L		98	70 - 135
Benzo[b]fluoranthene	32.0	30.0		ug/L		94	69 - 136
Benzo[g,h,i]perylene	32.0	31.9		ug/L		100	70 - 135
Benzo[k]fluoranthene	32.0	32.0		ug/L		100	70 - 133
Benzoic acid	64.0	41.9		ug/L		65	10 - 112
Benzyl alcohol	32.0	27.6		ug/L		86	46 - 132
Bis(2-chloroethoxy)methane	32.0	27.0		ug/L		84	59 - 118
Bis(2-chloroethyl)ether	32.0	24.0		ug/L		75	54 - 112
Bis(2-ethylhexyl) phthalate	32.0	26.5		ug/L		83	69 - 136
Butyl benzyl phthalate	32.0	26.1		ug/L		82	68 - 135
Chrysene	32.0	30.1		ug/L		94	68 - 129
Dibenz(a,h)anthracene	32.0	33.8		ug/L		106	70 - 134
Dibenzofuran	32.0	20.9		ug/L		65	51 - 110
Diethyl phthalate	32.0	28.6		ug/L		89	62 - 123
Dimethyl phthalate	32.0	29.6		ug/L		92	63 - 122
Di-n-butyl phthalate	32.0	27.9		ug/L		87	69 - 129
Di-n-octyl phthalate	32.0	30.3		ug/L		95	68 - 137
Fluoranthene	32.0	30.0		ug/L		94	68 - 126
Fluorene	32.0	22.7		ug/L		71	53 - 120
Hexachlorobenzene	32.0	33.3		ug/L		104	61 - 126
Hexachlorobutadiene	32.0	11.5		ug/L		36	20 - 100
Hexachlorocyclopentadiene	32.0	6.66	J	ug/L		21	10 - 105
Hexachloroethane	32.0	8.69		ug/L		27	20 - 100
Indeno[1,2,3-cd]pyrene	32.0	32.9		ug/L		103	65 - 133
Isophorone	32.0	26.1		ug/L		82	54 - 127
Nitrobenzene	32.0	22.1		ug/L		69	54 - 121
N-Nitrosodi-n-propylamine	32.0	24.8		ug/L		77	47 - 131
N-Nitrosodiphenylamine	32.0	27.6		ug/L		86	66 - 120
Phenanthrene	32.0	26.9		ug/L		84	65 - 120
Phenol	32.0	18.6		ug/L		58	33 - 100
Pyrene	32.0	28.4		ug/L		89	70 - 126
2,3,4,6-Tetrachlorophenol	32.0	34.9		ug/L		109	44 - 128
1-Methylnaphthalene	32.0	14.7		ug/L		46	38 - 110

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	93		27 - 110
Phenol-d5 (Surr)	60		20 - 110
Nitrobenzene-d5 (Surr)	74		36 - 120
2-Fluorobiphenyl	71		34 - 110
2,4,6-Tribromophenol (Surr)	138		40 - 145
Terphenyl-d14 (Surr)	104		40 - 145

Lab Sample ID: LCSD 500-654410/3-A
Matrix: Water
Analysis Batch: 657032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 654410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	32.0	9.26	*1	ug/L		29	26 - 110	26	20
1,2-Dichlorobenzene	32.0	8.93		ug/L		28	26 - 110	20	20
1,3-Dichlorobenzene	32.0	7.89	*1	ug/L		25	22 - 110	22	20
1,4-Dichlorobenzene	32.0	8.28		ug/L		26	23 - 110	20	20
bis(chloroisopropyl) ether	32.0	15.0		ug/L		47	38 - 140	15	20
2,4,5-Trichlorophenol	32.0	28.6		ug/L		89	63 - 124	8	20
2,4,6-Trichlorophenol	32.0	26.9		ug/L		84	62 - 121	10	20
2,4-Dichlorophenol	32.0	27.9		ug/L		87	58 - 120	12	20
2,4-Dimethylphenol	32.0	23.2		ug/L		72	51 - 115	14	20
2,4-Dinitrophenol	64.0	57.8		ug/L		90	37 - 130	7	20
2,4-Dinitrotoluene	32.0	29.9		ug/L		93	63 - 129	6	20
2,6-Dinitrotoluene	32.0	28.7		ug/L		90	63 - 129	7	20
2-Chloronaphthalene	32.0	11.4	* - *1	ug/L		36	39 - 110	25	20
2-Chlorophenol	32.0	23.1		ug/L		72	59 - 110	13	20
2-Methylnaphthalene	32.0	11.1	*1	ug/L		35	34 - 110	25	20
2-Methylphenol	32.0	24.1		ug/L		75	53 - 115	13	20
2-Nitroaniline	32.0	25.0		ug/L		78	59 - 138	8	20
2-Nitrophenol	32.0	25.0		ug/L		78	59 - 115	11	20
3 & 4 Methylphenol	32.0	23.7		ug/L		74	50 - 116	11	20
3,3'-Dichlorobenzidine	32.0	33.5		ug/L		105	60 - 132	6	20
3-Nitroaniline	32.0	24.7		ug/L		77	47 - 123	6	20
4,6-Dinitro-2-methylphenol	64.0	58.6		ug/L		92	50 - 129	5	20
4-Bromophenyl phenyl ether	32.0	24.8		ug/L		77	58 - 120	14	20
4-Chloro-3-methylphenol	32.0	29.3		ug/L		91	64 - 128	6	20
4-Chloroaniline	32.0	23.5		ug/L		73	35 - 128	11	20
4-Chlorophenyl phenyl ether	32.0	18.8		ug/L		59	48 - 116	19	20
4-Nitroaniline	32.0	23.9		ug/L		75	35 - 110	4	20
4-Nitrophenol	64.0	32.5		ug/L		51	20 - 110	11	20
Acenaphthene	32.0	14.8	*1	ug/L		46	46 - 110	21	20
Acenaphthylene	32.0	15.9		ug/L		50	47 - 113	19	20
Anthracene	32.0	27.1		ug/L		85	67 - 118	5	20
Benzo[a]anthracene	32.0	26.9		ug/L		84	70 - 126	7	20
Benzo[a]pyrene	32.0	30.2		ug/L		94	70 - 135	4	20
Benzo[b]fluoranthene	32.0	28.5		ug/L		89	69 - 136	5	20
Benzo[g,h,i]perylene	32.0	30.6		ug/L		96	70 - 135	4	20
Benzo[k]fluoranthene	32.0	30.3		ug/L		95	70 - 133	6	20
Benzoic acid	64.0	37.3		ug/L		58	10 - 112	11	20
Benzyl alcohol	32.0	25.3		ug/L		79	46 - 132	9	20
Bis(2-chloroethoxy)methane	32.0	24.7		ug/L		77	59 - 118	9	20

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-654410/3-A
 Matrix: Water
 Analysis Batch: 657032

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 654410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	RPD Limit
							Limits	RPD		
Bis(2-chloroethyl)ether	32.0	20.9		ug/L		65	54 - 112	14	20	
Bis(2-ethylhexyl) phthalate	32.0	24.6		ug/L		77	69 - 136	7	20	
Butyl benzyl phthalate	32.0	24.7		ug/L		77	68 - 135	5	20	
Chrysene	32.0	28.2		ug/L		88	68 - 129	7	20	
Dibenz(a,h)anthracene	32.0	32.3		ug/L		101	70 - 134	5	20	
Dibenzofuran	32.0	17.6		ug/L		55	51 - 110	17	20	
Diethyl phthalate	32.0	27.1		ug/L		85	62 - 123	5	20	
Dimethyl phthalate	32.0	27.7		ug/L		87	63 - 122	7	20	
Di-n-butyl phthalate	32.0	27.0		ug/L		85	69 - 129	3	20	
Di-n-octyl phthalate	32.0	29.4		ug/L		92	68 - 137	3	20	
Fluoranthene	32.0	28.6		ug/L		90	68 - 126	5	20	
Fluorene	32.0	19.7		ug/L		62	53 - 120	14	20	
Hexachlorobenzene	32.0	29.4		ug/L		92	61 - 126	12	20	
Hexachlorobutadiene	32.0	8.19	*1	ug/L		26	20 - 100	34	20	
Hexachlorocyclopentadiene	32.0	ND	*1	ug/L		14	10 - 105	41	20	
Hexachloroethane	32.0	6.72	*1	ug/L		21	20 - 100	26	20	
Indeno[1,2,3-cd]pyrene	32.0	30.5		ug/L		95	65 - 133	8	20	
Isophorone	32.0	24.2		ug/L		76	54 - 127	8	20	
Nitrobenzene	32.0	19.3		ug/L		60	54 - 121	13	20	
N-Nitrosodi-n-propylamine	32.0	22.5		ug/L		70	47 - 131	10	20	
N-Nitrosodiphenylamine	32.0	26.4		ug/L		82	66 - 120	5	20	
Phenanthrene	32.0	25.3		ug/L		79	65 - 120	6	20	
Phenol	32.0	16.0		ug/L		50	33 - 100	15	20	
Pyrene	32.0	26.6		ug/L		83	70 - 126	7	20	
2,3,4,6-Tetrachlorophenol	32.0	32.7		ug/L		102	44 - 128	6	20	
1-Methylnaphthalene	32.0	11.4	*- *1	ug/L		36	38 - 110	25	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	80		27 - 110
Phenol-d5 (Surr)	52		20 - 110
Nitrobenzene-d5 (Surr)	65		36 - 120
2-Fluorobiphenyl	62		34 - 110
2,4,6-Tribromophenol (Surr)	129		40 - 145
Terphenyl-d14 (Surr)	97		40 - 145

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-624194/1-A
 Matrix: Water
 Analysis Batch: 624252

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 624194

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 12:19	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	113		24 - 146	05/02/22 15:33	05/03/22 12:19	1
2-Fluorobiphenyl	88		37 - 120	05/02/22 15:33	05/03/22 12:19	1
2-Fluorophenol (Surr)	42		10 - 120	05/02/22 15:33	05/03/22 12:19	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 480-624194/1-A
Matrix: Water
Analysis Batch: 624252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624194

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5 (Surr)	72		26 - 120	05/02/22 15:33	05/03/22 12:19	1
Phenol-d5 (Surr)	27		11 - 120	05/02/22 15:33	05/03/22 12:19	1
p-Terphenyl-d14	98		64 - 127	05/02/22 15:33	05/03/22 12:19	1

Lab Sample ID: LCS 480-624194/2-A
Matrix: Water
Analysis Batch: 624252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	156	S1+	24 - 146
2-Fluorobiphenyl	98		37 - 120
2-Fluorophenol (Surr)	48		10 - 120
Nitrobenzene-d5 (Surr)	81		26 - 120
Phenol-d5 (Surr)	32		11 - 120
p-Terphenyl-d14	113		64 - 127

Lab Sample ID: 480-197333-4 MS
Matrix: Water
Analysis Batch: 624252

Client Sample ID: SUPE-M-99A-042722
Prep Type: Total/NA
Prep Batch: 624194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	143		24 - 146
2-Fluorobiphenyl	93		37 - 120
2-Fluorophenol (Surr)	41		10 - 120
Nitrobenzene-d5 (Surr)	75		26 - 120
Phenol-d5 (Surr)	28		11 - 120
p-Terphenyl-d14	92		64 - 127

Lab Sample ID: 480-197333-4 MSD
Matrix: Water
Analysis Batch: 624252

Client Sample ID: SUPE-M-99A-042722
Prep Type: Total/NA
Prep Batch: 624194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	142		24 - 146
2-Fluorobiphenyl	95		37 - 120
2-Fluorophenol (Surr)	43		10 - 120
Nitrobenzene-d5 (Surr)	80		26 - 120
Phenol-d5 (Surr)	29		11 - 120

QC Sample Results

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 480-197333-4 MSD
Matrix: Water
Analysis Batch: 624252

Client Sample ID: SUPE-M-99A-042722
Prep Type: Total/NA
Prep Batch: 624194

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>p-Terphenyl-d14</i>	91		64 - 127

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QC Association Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

GC/MS VOA

Analysis Batch: 624853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	8260C	
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	8260C	
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	8260C	
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	8260C	
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	8260C	
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	8260C	
480-197333-7	SUPE-TB-01-042722	Total/NA	Water	8260C	
MB 480-624853/7	Method Blank	Total/NA	Water	8260C	
LCS 480-624853/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 624194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	3510C	
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	3510C	
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	3510C	
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	3510C	
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	3510C	
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	3510C	
MB 480-624194/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-624194/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-197333-4 MS	SUPE-M-99A-042722	Total/NA	Water	3510C	
480-197333-4 MSD	SUPE-M-99A-042722	Total/NA	Water	3510C	

Analysis Batch: 624252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	8270D LL	624194
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	8270D LL	624194
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	8270D LL	624194
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	8270D LL	624194
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	8270D LL	624194
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	8270D LL	624194
MB 480-624194/1-A	Method Blank	Total/NA	Water	8270D LL	624194
LCS 480-624194/2-A	Lab Control Sample	Total/NA	Water	8270D LL	624194
480-197333-4 MS	SUPE-M-99A-042722	Total/NA	Water	8270D LL	624194
480-197333-4 MSD	SUPE-M-99A-042722	Total/NA	Water	8270D LL	624194

Prep Batch: 654410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	3510C	
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	3510C	
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	3510C	
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	3510C	
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	3510C	
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	3510C	
MB 500-654410/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-654410/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-654410/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

GC/MS Semi VOA

Analysis Batch: 657032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	8270D	654410
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	8270D	654410
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	8270D	654410
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	8270D	654410
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	8270D	654410
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	8270D	654410
MB 500-654410/1-A	Method Blank	Total/NA	Water	8270D	654410
LCS 500-654410/2-A	Lab Control Sample	Total/NA	Water	8270D	654410
LCSD 500-654410/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	654410

Lab Chronicle

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Date Collected: 04/27/22 08:38

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 15:48	AXK	TAL BUF
Total/NA	Prep	3510C			654410	05/02/22 16:07	MJ	TAL CHI
Total/NA	Analysis	8270D		1	657032	05/17/22 13:26	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 14:37	PJQ	TAL BUF

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 16:11	AXK	TAL BUF
Total/NA	Prep	3510C			654410	05/02/22 16:07	MJ	TAL CHI
Total/NA	Analysis	8270D		1	657032	05/17/22 13:50	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 15:04	PJQ	TAL BUF

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 16:34	AXK	TAL BUF
Total/NA	Prep	3510C			654410	05/02/22 16:07	MJ	TAL CHI
Total/NA	Analysis	8270D		1	657032	05/17/22 14:14	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 15:32	PJQ	TAL BUF

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 16:58	AXK	TAL BUF
Total/NA	Prep	3510C			654410	05/02/22 16:07	MJ	TAL CHI
Total/NA	Analysis	8270D		1	657032	05/17/22 14:38	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 14:09	PJQ	TAL BUF

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 17:21	AXK	TAL BUF

Eurofins Buffalo

Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			654410	05/02/22 16:07	MJ	TAL CHI
Total/NA	Analysis	8270D		1	657032	05/17/22 15:02	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 16:00	PJQ	TAL BUF

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 17:43	AXK	TAL BUF
Total/NA	Prep	3510C			654410	05/02/22 16:07	MJ	TAL CHI
Total/NA	Analysis	8270D		1	657032	05/17/22 15:26	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 16:27	PJQ	TAL BUF

Client Sample ID: SUPE-TB-01-042722

Lab Sample ID: 480-197333-7

Date Collected: 04/27/22 15:23

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624853	05/06/22 18:06	AXK	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
 TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-22

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	2,3,5,6-Tetrachlorophenol

Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-197333-1	SUPE-W-06A-042722	Water	04/27/22 08:38	04/28/22 10:00
480-197333-2	SUPE-W-28C-042722	Water	04/27/22 13:54	04/28/22 10:00
480-197333-3	SUPE-EB-01-042722	Water	04/27/22 15:10	04/28/22 10:00
480-197333-4	SUPE-M-99A-042722	Water	04/27/22 22:00	04/28/22 10:00
480-197333-5	SUPE-W-06C-042722	Water	04/27/22 10:43	04/28/22 10:00
480-197333-6	SUPE-W-12A-042722	Water	04/27/22 13:06	04/28/22 10:00
480-197333-7	SUPE-TB-01-042722	Water	04/27/22 15:23	04/28/22 10:00

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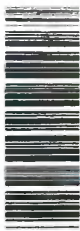
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Ref 210311

CHAIN OF CUSTODY REQUEST FORM

REF.# 00200413



Project Name: Superior, WI - 2022 OM&M Program
Project Number: OM-0556-22
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2022 1SA Sampling_001

Company: Field & Technical Services
Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
Contact: barbaugh.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:									
					HCL	None											
04/27/2022	0838	GW	SUPE-WW-06A-042722	8260C_VOA+naphtha (Butraio)	3	None	5										
04/27/2022	1354	GW	SUPE-WW-28C-042722	8270D_LL_PCP (Butraio) (TL)	3	None	5										
04/27/2022	1510	GW	SUPE-EB-01-042722		3	None	5										
04/27/2022	2200	GW	SUPE-M-99A-042722		3	None	5										



480-197333 Chain of Custody

Temp 3.2, 1.8, 1.4, 2.9 #1 ICE

Relinquished by: Printed Name: Brenden Arbaugh Firm: FTS	Received by: Printed Name: Mike Kald Firm: TA	Relinquished by: Printed Name: Mike Kald Firm: TA Date/Time: 4/27/22 1600	Received by: Printed Name: Mike Kald Firm: TA Date/Time: 4/28/22 1600	Turnaround Requirements: <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard
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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact		Phone:	Brown, Shali		480-71736-1
Shipping/Receiving		E-Mail:	Shali.Brown@et.eurofins.com	State of Origin:	Page:
Company:		Accreditations Required (See note):		Wisconsin	Page 1 of 1
TestAmerica Laboratories, Inc.		State Program - Wisconsin			Job #:
Address:		Due Date Requested:	480-197333-1		
5815 Middlebrook Pike,		5/18/2022			
City:	Knoxville	TAT Requested (days):			
State:	TN, 37921	PO #:			
Phone:	865-291-3000(Tel) 865-584-4315(Fax)	WO #:			
Email:		Project #:			
		18015916			
Project Name:	Superior, WI Semiannual Groundwater	SSOW#:			
Site:					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT= tissue, A=air)	Preservation Code:
SUPE-W-06A-042722 (480-197333-1)	4/27/22	08:38 Central		Water	
SUPE-W-28C-042722 (480-197333-2)	4/27/22	13:54 Central		Water	
SUPE-EB-01-042722 (480-197333-3)	4/27/22	15:10 Central		Water	
SUPE-M-99A-042722 (480-197333-4)	4/27/22	22:00 Central		Water	
SUPE-W-06C-042722 (480-197333-5)	4/27/22	10:43 Central		Water	
SUPE-W-12A-042722 (480-197333-6)	4/27/22	13:06 Central		Water	
<i>(VISUALLY SEALS INTACT)</i>					
<i>REG-NAS AT RT 0.9/GT 1.3C bxd 4:30:22</i>					
<i>160000 FAX# 1888 3870 4126 PDS</i>					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Method of Shipment:					
Relinquished by:		Date/Time:	Date/Time:		
<i>James How</i>		4/29/22 17:00	4:30:22 10:00		
Relinquished by:		Date/Time:	Date/Time:		
Relinquished by:		Date/Time:	Date/Time:		
Custody Seals Intact		Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No					



EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	/			<input type="checkbox"/> Containers, Broken	
2. Were ambient air containers received intact?			/	<input type="checkbox"/> Checked in lab	
3. The coolers/containers custody seal if present, is it intact?	/			<input type="checkbox"/> Yes <input type="checkbox"/> NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>SG11</u> Correction factor: <u>+0.5°C</u>	/			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	/			<input type="checkbox"/> Containers, Broken	
6. Were samples received in appropriate containers?	/			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	/			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	/			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received <input type="checkbox"/> COC; No Date/Time; Client Contacted	
9. Is the date/time of sample collection noted?	/			<input type="checkbox"/> Sampler Not Listed on COC	
10. Was the sampler identified on the COC?	/		/	<input type="checkbox"/> COC Incorrect/Incomplete	
11. Is the client and project name/# identified?	/			<input type="checkbox"/> COC No tests on COC	
12. Are tests/parameters listed for each sample?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
13. Is the matrix of the samples noted?	/			<input type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	/			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	/			<input type="checkbox"/> Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?			/	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	
17. Were VOA samples received without headspace?			/	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			/		
19. For 1613B water samples is pH<9?			/	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			/	<input type="checkbox"/> Project missing info	
Project #:					
PM Instructions:					

Labeling Verified by: _____ Date: _____

pH test strip lot number: _____

Box 16A: pH Preservation	Box 18A: Residual Chlorine
Preservative: _____	
Lot Number: _____	
Exp Date: _____	
Analyst: _____	
Date: _____	
Time: _____	

Sample Receiving Associate: [Signature] Date: 4:30:22

QA026R32.doc, 062719



Eurofins Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone 716-691-2600 Fax: 716-691-7991

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM Brown Shali		Carrier Tracking No(s)		COC No: 480-71735 1																																																																							
Client Contact: Shipping/Receiving		Phone:	E-Mail Shali Brown@et.eurofinsus.com		State of Origin Wisconsin		Page Page 1 of 1																																																																							
Company Eurofins Environment Testing North Centr		Accreditations Required (See note) State Program - Wisconsin				Job #: 480-197333-1																																																																								
Address: 2417 Bond Street		Due Date Requested: 5/18/2022		Analysis Requested					Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G - Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I - Ice U Acetone J DI Water V MCAA K - EDTA W pH 4-5 L EDA Z other (specify)																																																																					
City University Park		TAT Requested (days)																																																																												
State Zip IL, 60484		PO #:		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> 8270D/3510C_LVI (MOD) Semivolatiles, project list with n					Total Number of containers Other																																																																					
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #: 480-197333 COC																																																																												
Project Name Superior WI Semiannual Groundwater		Project # 18015916		<table border="1"> <thead> <tr> <th>Sample Identification - Client ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8270D/3510C_LVI (MOD) Semivolatiles, project list with n</th> <th>Total Number of containers</th> <th>Special Instructions/Note</th> </tr> </thead> <tbody> <tr> <td>SUPE-W-06A-042722 (480-197333-1)</td> <td>4/27/22</td> <td>08 38 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td></td> <td>1</td> <td>Refer to PT-PM-WI-006 for Wisconsin Protocol</td> </tr> <tr> <td>SUPE-W-28C-042722 (480-197333-2)</td> <td>4/27/22</td> <td>13 54 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td></td> <td>1</td> <td>Refer to PT-PM-WI-006 for Wisconsin Protocol</td> </tr> <tr> <td>SUPE-EB-01 042722 (480-197333-3)</td> <td>4/27/22</td> <td>15 10 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td></td> <td>1</td> <td>Refer to PT-PM-WI-006 for Wisconsin Protocol</td> </tr> <tr> <td>SUPE-M-99A-042722 (480-197333-4)</td> <td>4/27/22</td> <td>22 00 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td></td> <td>1</td> <td>Refer to PT-PM-WI-006 for Wisconsin Protocol</td> </tr> <tr> <td>SUPE-W-06C-042722 (480-197333-5)</td> <td>4/27/22</td> <td>10 43 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td></td> <td>1</td> <td>Refer to PT-PM-WI-006 for Wisconsin Protocol</td> </tr> <tr> <td>SUPE-W-12A-042722 (480-197333-6)</td> <td>4/27/22</td> <td>13 06 Central</td> <td></td> <td>Water</td> <td></td> <td>X</td> <td></td> <td>1</td> <td>Refer to PT-PM-WI-006 for Wisconsin Protocol</td> </tr> </tbody> </table>					Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI (MOD) Semivolatiles, project list with n	Total Number of containers	Special Instructions/Note	SUPE-W-06A-042722 (480-197333-1)	4/27/22	08 38 Central		Water		X		1	Refer to PT-PM-WI-006 for Wisconsin Protocol	SUPE-W-28C-042722 (480-197333-2)	4/27/22	13 54 Central		Water		X		1	Refer to PT-PM-WI-006 for Wisconsin Protocol	SUPE-EB-01 042722 (480-197333-3)	4/27/22	15 10 Central		Water		X		1	Refer to PT-PM-WI-006 for Wisconsin Protocol	SUPE-M-99A-042722 (480-197333-4)	4/27/22	22 00 Central		Water		X		1	Refer to PT-PM-WI-006 for Wisconsin Protocol	SUPE-W-06C-042722 (480-197333-5)	4/27/22	10 43 Central		Water		X		1	Refer to PT-PM-WI-006 for Wisconsin Protocol	SUPE-W-12A-042722 (480-197333-6)	4/27/22	13 06 Central		Water		X		1	Refer to PT-PM-WI-006 for Wisconsin Protocol
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Site		SSOW#:																																																																												

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested I, II, III IV, Other (specify)		Primary Deliverable Rank. 2	
		Special Instructions/QC Requirements	
Empty Kit Relinquished by:		Date:	
Date/Time:		Time	
Method of Shipment:			
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:
Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks -0.7 → -0.6	

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-197333-1

Login Number: 197333

List Number: 1

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-197333-1

Login Number: 197333

List Number: 3

Creator: Buckley, Paula M

List Source: Eurofins Chicago

List Creation: 04/30/22 11:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.6 samples were not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-197333-2

Client Project/Site: Superior, WI Semiannual Groundwater

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
5/27/2022 6:17:23 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
Isotope Dilution Summary	14
QC Sample Results	15
QC Association Summary	17
Lab Chronicle	18
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S	Ion suppression

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Job ID: 480-197333-2

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-197333-2

Comments

No additional comments.

Receipt

The samples were received on 4/28/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.4° C, 1.8° C, 2.9° C and 3.2° C.

Dioxin

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 8290: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 140-61532. The method required MS/MSD were not performed due to insufficient sample received. As a result, the data may be rejected by the WDNR.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.74	J I	47	0.18	pg/L	1		8290A	Total/NA
Total PeCDD	1.2	J I B	47	0.18	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	2.2	J B	47	0.15	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	3.4	J B	47	0.15	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	3.2	J I S B	47	0.14	pg/L	1		8290A	Total/NA
Total HxCDD	32	J I S B	47	0.15	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	78		47	1.9	pg/L	1		8290A	Total/NA
Total HpCDD	290		47	1.9	pg/L	1		8290A	Total/NA
OCDD	620	B	94	0.21	pg/L	1		8290A	Total/NA
Total TCDF	2.3	J I	9.4	0.28	pg/L	1		8290A	Total/NA
Total PeCDF	12	J I	47	0.23	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	2.4	J I	47	0.70	pg/L	1		8290A	Total/NA
Total HxCDF	37	J I	47	0.74	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	9.7	J B	47	0.66	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	1.8	J I B	47	0.94	pg/L	1		8290A	Total/NA
Total HpCDF	39	J I B	47	0.80	pg/L	1		8290A	Total/NA
OCDF	34	J B	94	0.10	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total PeCDD	0.93	J I B	50	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.2	J I B	50	0.20	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.57	J B	50	0.21	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.66	J I S B	50	0.19	pg/L	1		8290A	Total/NA
Total HxCDD	4.6	J I S B	50	0.20	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	9.2	J	50	1.5	pg/L	1		8290A	Total/NA
Total HpCDD	40	J	50	1.5	pg/L	1		8290A	Total/NA
OCDD	98	J B	100	0.32	pg/L	1		8290A	Total/NA
Total TCDF	1.2	J I	10	0.27	pg/L	1		8290A	Total/NA
Total PeCDF	0.61	J I	50	0.20	pg/L	1		8290A	Total/NA
Total HxCDF	5.7	J I S	50	0.32	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.8	J I B	50	0.13	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.59	J I B	50	0.18	pg/L	1		8290A	Total/NA
Total HpCDF	5.7	J I B	50	0.16	pg/L	1		8290A	Total/NA
OCDF	4.8	J B	100	0.12	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	1.5	J I B	48	0.20	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.42	J B	48	0.19	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.50	J B	48	0.18	pg/L	1		8290A	Total/NA
Total HxCDD	3.2	J I B	48	0.19	pg/L	1		8290A	Total/NA
OCDD	3.3	J I B	96	0.28	pg/L	1		8290A	Total/NA
Total TCDF	2.2	J	9.6	0.25	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.95	J B	48	0.22	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.84	J I B	48	0.26	pg/L	1		8290A	Total/NA
Total HpCDF	1.8	J I B	48	0.24	pg/L	1		8290A	Total/NA
OCDF	1.2	J I B	96	0.22	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.49	J	49	0.23	pg/L	1		8290A	Total/NA
Total PeCDD	1.6	J B	49	0.23	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.2	J B	49	0.39	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.66	J B	49	0.37	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.78	J S B	49	0.35	pg/L	1		8290A	Total/NA
Total HxCDD	6.9	J S B	49	0.37	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	14	J I	49	0.86	pg/L	1		8290A	Total/NA
Total HpCDD	58	I	49	0.86	pg/L	1		8290A	Total/NA
OCDD	79	J B	98	0.24	pg/L	1		8290A	Total/NA
Total PeCDF	0.61	J I	49	0.17	pg/L	1		8290A	Total/NA
Total HxCDF	2.0	J I	49	0.55	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.8	J B	49	0.43	pg/L	1		8290A	Total/NA
Total HpCDF	4.1	J B	49	0.51	pg/L	1		8290A	Total/NA
OCDF	4.2	J B	98	0.49	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	1.4	J B	47	0.24	pg/L	1		8290A	Total/NA
Total HxCDD	2.4	J B	47	0.24	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	13	J I	47	0.49	pg/L	1		8290A	Total/NA
Total HpCDD	36	J I	47	0.49	pg/L	1		8290A	Total/NA
OCDD	64	J B	94	0.24	pg/L	1		8290A	Total/NA
Total TCDF	1.0	J I	9.4	0.23	pg/L	1		8290A	Total/NA
Total PeCDF	1.6	J I	47	0.25	pg/L	1		8290A	Total/NA
Total HxCDF	3.9	J I	47	0.54	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	2.5	J B	47	0.40	pg/L	1		8290A	Total/NA
Total HpCDF	5.2	J B	47	0.46	pg/L	1		8290A	Total/NA
OCDF	5.7	J B	94	0.18	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	1.4	J I	9.6	0.34	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDD	0.98	J I	48	0.36	pg/L	1		8290A	Total/NA
Total PeCDD	2.7	J B	48	0.36	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	2.1	J B	48	0.35	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	7.5	J B	48	0.30	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	2.8	J S B	48	0.30	pg/L	1		8290A	Total/NA
Total HxCDD	28	J S B	48	0.32	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	73	I	48	1.3	pg/L	1		8290A	Total/NA
Total HpCDD	150	I	48	1.3	pg/L	1		8290A	Total/NA
OCDD	380	B	96	0.35	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.84	J	9.6	0.31	pg/L	1		8290A	Total/NA
Total TCDF	69	I	9.6	0.31	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDF	0.92	J	48	0.16	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	1.6	J I	48	0.19	pg/L	1		8290A	Total/NA
Total PeCDF	63	I	48	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	8.0	J	48	0.76	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	6.1	J I	48	0.81	pg/L	1		8290A	Total/NA
Total HxCDF	110	S I	48	0.87	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	18	J B	48	0.35	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-12A-042722 (Continued)

Lab Sample ID: 480-197333-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8,9-HpCDF	2.9	J B	48	0.49	pg/L	1		8290A	Total/NA
Total HpCDF	60	B	48	0.42	pg/L	1		8290A	Total/NA
OCDF	27	J B	96	0.095	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Date Collected: 04/27/22 08:38

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.4	0.18	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total TCDD	ND		9.4	0.18	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,7,8-PeCDD	0.74	J I	47	0.18	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total PeCDD	1.2	J I B	47	0.18	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,4,7,8-HxCDD	2.2	J B	47	0.15	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,6,7,8-HxCDD	3.4	J B	47	0.15	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,7,8,9-HxCDD	3.2	J I S B	47	0.14	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total HxCDD	32	J I S B	47	0.15	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,4,6,7,8-HpCDD	78		47	1.9	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total HpCDD	290		47	1.9	pg/L		05/10/22 09:09	05/24/22 17:21	1
OCDD	620	B	94	0.21	pg/L		05/10/22 09:09	05/24/22 17:21	1
2,3,7,8-TCDF	ND		9.4	0.28	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total TCDF	2.3	J I	9.4	0.28	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,7,8-PeCDF	ND		47	0.21	pg/L		05/10/22 09:09	05/24/22 17:21	1
2,3,4,7,8-PeCDF	ND		47	0.25	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total PeCDF	12	J I	47	0.23	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,4,7,8-HxCDF	ND		47	0.64	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,6,7,8-HxCDF	2.4	J I	47	0.70	pg/L		05/10/22 09:09	05/24/22 17:21	1
2,3,4,6,7,8-HxCDF	ND		47	0.83	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,7,8,9-HxCDF	ND		47	0.80	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total HxCDF	37	J I	47	0.74	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,4,6,7,8-HpCDF	9.7	J B	47	0.66	pg/L		05/10/22 09:09	05/24/22 17:21	1
1,2,3,4,7,8,9-HpCDF	1.8	J I B	47	0.94	pg/L		05/10/22 09:09	05/24/22 17:21	1
Total HpCDF	39	J I B	47	0.80	pg/L		05/10/22 09:09	05/24/22 17:21	1
OCDF	34	J B	94	0.10	pg/L		05/10/22 09:09	05/24/22 17:21	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	79		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,7,8-PeCDD	100		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,4,7,8-HxCDD	92		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,6,7,8-HxCDD	99		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,4,6,7,8-HpCDD	96		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-OCDD	88		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-2,3,7,8-TCDF	75		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,7,8-PeCDF	102		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-2,3,4,7,8-PeCDF	82		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,4,7,8-HxCDF	102		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,6,7,8-HxCDF	88		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-2,3,4,6,7,8-HxCDF	94		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,7,8,9-HxCDF	105		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,4,6,7,8-HpCDF	95		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-1,2,3,4,7,8,9-HpCDF	100		40 - 135	05/10/22 09:09	05/24/22 17:21	1
13C-OCDF	88		40 - 135	05/10/22 09:09	05/24/22 17:21	1

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.20	pg/L		05/10/22 09:09	05/24/22 18:22	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	ND		10	0.20	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,7,8-PeCDD	ND		50	0.17	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total PeCDD	0.93	J I B	50	0.17	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,4,7,8-HxCDD	1.2	J I B	50	0.20	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,6,7,8-HxCDD	0.57	J B	50	0.21	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,7,8,9-HxCDD	0.66	J I S B	50	0.19	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total HxCDD	4.6	J I S B	50	0.20	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,4,6,7,8-HpCDD	9.2	J	50	1.5	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total HpCDD	40	J	50	1.5	pg/L		05/10/22 09:09	05/24/22 18:22	1
OCDD	98	J B	100	0.32	pg/L		05/10/22 09:09	05/24/22 18:22	1
2,3,7,8-TCDF	ND		10	0.27	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total TCDF	1.2	J I	10	0.27	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,7,8-PeCDF	ND		50	0.20	pg/L		05/10/22 09:09	05/24/22 18:22	1
2,3,4,7,8-PeCDF	ND		50	0.21	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total PeCDF	0.61	J I	50	0.20	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,4,7,8-HxCDF	ND		50	0.26	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,6,7,8-HxCDF	ND		50	0.30	pg/L		05/10/22 09:09	05/24/22 18:22	1
2,3,4,6,7,8-HxCDF	ND		50	0.34	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,7,8,9-HxCDF	ND		50	0.36	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total HxCDF	5.7	J I S	50	0.32	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,4,6,7,8-HpCDF	1.8	J I B	50	0.13	pg/L		05/10/22 09:09	05/24/22 18:22	1
1,2,3,4,7,8,9-HpCDF	0.59	J I B	50	0.18	pg/L		05/10/22 09:09	05/24/22 18:22	1
Total HpCDF	5.7	J I B	50	0.16	pg/L		05/10/22 09:09	05/24/22 18:22	1
OCDF	4.8	J B	100	0.12	pg/L		05/10/22 09:09	05/24/22 18:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	78		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,7,8-PeCDD	98		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,4,7,8-HxCDD	94		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,6,7,8-HxCDD	102		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,4,6,7,8-HpCDD	113		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-OCDD	84		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-2,3,7,8-TCDF	79		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,7,8-PeCDF	97		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-2,3,4,7,8-PeCDF	85		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,4,7,8-HxCDF	110		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,6,7,8-HxCDF	97		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-2,3,4,6,7,8-HxCDF	101		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,7,8,9-HxCDF	105		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,4,6,7,8-HpCDF	106		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-1,2,3,4,7,8,9-HpCDF	116		40 - 135	05/10/22 09:09	05/24/22 18:22	1
13C-OCDF	92		40 - 135	05/10/22 09:09	05/24/22 18:22	1

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.6	0.36	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total TCDD	ND		9.6	0.36	pg/L		05/10/22 09:09	05/24/22 23:22	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	ND		48	0.24	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total PeCDD	ND		48	0.24	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,4,7,8-HxCDD	1.5	J B	48	0.20	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,6,7,8-HxCDD	0.42	J B	48	0.19	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,7,8,9-HxCDD	0.50	J B	48	0.18	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total HxCDD	3.2	J B	48	0.19	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,4,6,7,8-HpCDD	ND		48	1.7	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total HpCDD	ND		48	1.7	pg/L		05/10/22 09:09	05/24/22 23:22	1
OCDD	3.3	J B	96	0.28	pg/L		05/10/22 09:09	05/24/22 23:22	1
2,3,7,8-TCDF	ND		9.6	0.25	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total TCDF	2.2	J	9.6	0.25	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,7,8-PeCDF	ND		48	0.26	pg/L		05/10/22 09:09	05/24/22 23:22	1
2,3,4,7,8-PeCDF	ND		48	0.28	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total PeCDF	ND		48	0.28	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,4,7,8-HxCDF	ND		48	0.39	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,6,7,8-HxCDF	ND		48	0.38	pg/L		05/10/22 09:09	05/24/22 23:22	1
2,3,4,6,7,8-HxCDF	ND		48	0.42	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,7,8,9-HxCDF	ND		48	0.47	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total HxCDF	ND		48	0.47	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,4,6,7,8-HpCDF	0.95	J B	48	0.22	pg/L		05/10/22 09:09	05/24/22 23:22	1
1,2,3,4,7,8,9-HpCDF	0.84	J B	48	0.26	pg/L		05/10/22 09:09	05/24/22 23:22	1
Total HpCDF	1.8	J B	48	0.24	pg/L		05/10/22 09:09	05/24/22 23:22	1
OCDF	1.2	J B	96	0.22	pg/L		05/10/22 09:09	05/24/22 23:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	73		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,7,8-PeCDD	84		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,4,7,8-HxCDD	89		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,6,7,8-HxCDD	99		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,4,6,7,8-HpCDD	98		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-OCDD	85		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-2,3,7,8-TCDF	73		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,7,8-PeCDF	84		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-2,3,4,7,8-PeCDF	72		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,4,7,8-HxCDF	91		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,6,7,8-HxCDF	90		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-2,3,4,6,7,8-HxCDF	100		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,7,8,9-HxCDF	99		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,4,6,7,8-HpCDF	81		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-1,2,3,4,7,8,9-HpCDF	106		40 - 135	05/10/22 09:09	05/24/22 23:22	1
13C-OCDF	90		40 - 135	05/10/22 09:09	05/24/22 23:22	1

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.8	0.35	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total TCDD	ND		9.8	0.35	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,7,8-PeCDD	0.49	J	49	0.23	pg/L		05/10/22 09:09	05/25/22 00:22	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	1.6	J I B	49	0.23	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,4,7,8-HxCDD	1.2	J I B	49	0.39	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,6,7,8-HxCDD	0.66	J I B	49	0.37	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,7,8,9-HxCDD	0.78	J S B	49	0.35	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total HxCDD	6.9	J S I B	49	0.37	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,4,6,7,8-HpCDD	14	J I	49	0.86	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total HpCDD	58	I	49	0.86	pg/L		05/10/22 09:09	05/25/22 00:22	1
OCDD	79	J B	98	0.24	pg/L		05/10/22 09:09	05/25/22 00:22	1
2,3,7,8-TCDF	ND		9.8	0.20	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total TCDF	ND		9.8	0.20	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,7,8-PeCDF	ND		49	0.16	pg/L		05/10/22 09:09	05/25/22 00:22	1
2,3,4,7,8-PeCDF	ND		49	0.17	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total PeCDF	0.61	J I	49	0.17	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,4,7,8-HxCDF	ND		49	0.44	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,6,7,8-HxCDF	ND		49	0.48	pg/L		05/10/22 09:09	05/25/22 00:22	1
2,3,4,6,7,8-HxCDF	ND		49	0.59	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,7,8,9-HxCDF	ND		49	0.67	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total HxCDF	2.0	J I	49	0.55	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,4,6,7,8-HpCDF	1.8	J B	49	0.43	pg/L		05/10/22 09:09	05/25/22 00:22	1
1,2,3,4,7,8,9-HpCDF	ND		49	0.58	pg/L		05/10/22 09:09	05/25/22 00:22	1
Total HpCDF	4.1	J B	49	0.51	pg/L		05/10/22 09:09	05/25/22 00:22	1
OCDF	4.2	J B	98	0.49	pg/L		05/10/22 09:09	05/25/22 00:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	84		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,7,8-PeCDD	97		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,4,7,8-HxCDD	89		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,6,7,8-HxCDD	93		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,4,6,7,8-HpCDD	110		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-OCDD	80		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-2,3,7,8-TCDF	81		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,7,8-PeCDF	99		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-2,3,4,7,8-PeCDF	87		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,4,7,8-HxCDF	110		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,6,7,8-HxCDF	94		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-2,3,4,6,7,8-HxCDF	101		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,7,8,9-HxCDF	95		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,4,6,7,8-HpCDF	102		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-1,2,3,4,7,8,9-HpCDF	117		40 - 135	05/10/22 09:09	05/25/22 00:22	1
13C-OCDF	89		40 - 135	05/10/22 09:09	05/25/22 00:22	1

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.4	0.44	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total TCDD	ND		9.4	0.44	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,7,8-PeCDD	ND		47	0.29	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total PeCDD	ND		47	0.29	pg/L		05/10/22 09:09	05/25/22 01:22	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	1.4	J I B	47	0.24	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,6,7,8-HxCDD	ND		47	0.26	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,7,8,9-HxCDD	ND		47	0.23	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total HxCDD	2.4	J I B	47	0.24	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,4,6,7,8-HpCDD	13	J I	47	0.49	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total HpCDD	36	J I	47	0.49	pg/L		05/10/22 09:09	05/25/22 01:22	1
OCDD	64	J B	94	0.24	pg/L		05/10/22 09:09	05/25/22 01:22	1
2,3,7,8-TCDF	ND		9.4	0.23	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total TCDF	1.0	J I	9.4	0.23	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,7,8-PeCDF	ND		47	0.25	pg/L		05/10/22 09:09	05/25/22 01:22	1
2,3,4,7,8-PeCDF	ND		47	0.26	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total PeCDF	1.6	J I	47	0.25	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,4,7,8-HxCDF	ND		47	0.49	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,6,7,8-HxCDF	ND		47	0.51	pg/L		05/10/22 09:09	05/25/22 01:22	1
2,3,4,6,7,8-HxCDF	ND		47	0.54	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,7,8,9-HxCDF	ND		47	0.64	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total HxCDF	3.9	J I	47	0.54	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,4,6,7,8-HpCDF	2.5	J I B	47	0.40	pg/L		05/10/22 09:09	05/25/22 01:22	1
1,2,3,4,7,8,9-HpCDF	ND		47	0.53	pg/L		05/10/22 09:09	05/25/22 01:22	1
Total HpCDF	5.2	J I B	47	0.46	pg/L		05/10/22 09:09	05/25/22 01:22	1
OCDF	5.7	J B	94	0.18	pg/L		05/10/22 09:09	05/25/22 01:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	74		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,7,8-PeCDD	105		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,4,7,8-HxCDD	102		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,6,7,8-HxCDD	100		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,4,6,7,8-HpCDD	93		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-OCDD	78		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-2,3,7,8-TCDF	83		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,7,8-PeCDF	100		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-2,3,4,7,8-PeCDF	88		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,4,7,8-HxCDF	104		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,6,7,8-HxCDF	93		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-2,3,4,6,7,8-HxCDF	105		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,7,8,9-HxCDF	97		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,4,6,7,8-HpCDF	88		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-1,2,3,4,7,8,9-HpCDF	99		40 - 135	05/10/22 09:09	05/25/22 01:22	1
13C-OCDF	81		40 - 135	05/10/22 09:09	05/25/22 01:22	1

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.6	0.34	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total TCDD	1.4	J I	9.6	0.34	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,7,8-PeCDD	0.98	J I	48	0.36	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total PeCDD	2.7	J I B	48	0.36	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,4,7,8-HxCDD	2.1	J I B	48	0.35	pg/L		05/10/22 09:09	05/25/22 02:22	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	7.5	J B	48	0.30	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,7,8,9-HxCDD	2.8	J S B	48	0.30	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total HxCDD	28	J S I B	48	0.32	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,4,6,7,8-HpCDD	73	I	48	1.3	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total HpCDD	150	I	48	1.3	pg/L		05/10/22 09:09	05/25/22 02:22	1
OCDD	380	B	96	0.35	pg/L		05/10/22 09:09	05/25/22 02:22	1
2,3,7,8-TCDF	0.84	J	9.6	0.31	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total TCDF	69	I	9.6	0.31	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,7,8-PeCDF	0.92	J	48	0.16	pg/L		05/10/22 09:09	05/25/22 02:22	1
2,3,4,7,8-PeCDF	1.6	J I	48	0.19	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total PeCDF	63	I	48	0.17	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,4,7,8-HxCDF	8.0	J	48	0.76	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,6,7,8-HxCDF	6.1	J I	48	0.81	pg/L		05/10/22 09:09	05/25/22 02:22	1
2,3,4,6,7,8-HxCDF	ND		48	1.0	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,7,8,9-HxCDF	ND		48	0.89	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total HxCDF	110	S I	48	0.87	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,4,6,7,8-HpCDF	18	J B	48	0.35	pg/L		05/10/22 09:09	05/25/22 02:22	1
1,2,3,4,7,8,9-HpCDF	2.9	J B	48	0.49	pg/L		05/10/22 09:09	05/25/22 02:22	1
Total HpCDF	60	B	48	0.42	pg/L		05/10/22 09:09	05/25/22 02:22	1
OCDF	27	J B	96	0.095	pg/L		05/10/22 09:09	05/25/22 02:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	75		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,7,8-PeCDD	93		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,4,7,8-HxCDD	76		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,6,7,8-HxCDD	94		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,4,6,7,8-HpCDD	97		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-OCDD	82		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-2,3,7,8-TCDF	73		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,7,8-PeCDF	98		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-2,3,4,7,8-PeCDF	81		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,4,7,8-HxCDF	98		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,6,7,8-HxCDF	85		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-2,3,4,6,7,8-HxCDF	87		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,7,8,9-HxCDF	104		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,4,6,7,8-HpCDF	94		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-1,2,3,4,7,8,9-HpCDF	103		40 - 135	05/10/22 09:09	05/25/22 02:22	1
13C-OCDF	87		40 - 135	05/10/22 09:09	05/25/22 02:22	1

Isotope Dilution Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD (40-135)	HxDD (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF (40-135)
480-197333-1	SUPE-W-06A-042722	79	100	92	99	96	88	75	102
480-197333-2	SUPE-W-28C-042722	78	98	94	102	113	84	79	97
480-197333-3	SUPE-EB-01-042722	73	84	89	99	98	85	73	84
480-197333-4	SUPE-M-99A-042722	84	97	89	93	110	80	81	99
480-197333-5	SUPE-W-06C-042722	74	105	102	100	93	78	83	100
480-197333-6	SUPE-W-12A-042722	75	93	76	94	97	82	73	98
LCS 140-61532/13-A	Lab Control Sample	79	96	76	84	86	65	76	90
MB 140-61532/14-A	Method Blank	75	100	74	78	75	52	79	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PeCF (40-135)	HxCDF (40-135)	HxDF (40-135)	13CHxCF (40-135)	HxCF (40-135)	HpCDF (40-135)	HpCDF2 (40-135)	OCDF (40-135)
480-197333-1	SUPE-W-06A-042722	82	102	88	94	105	95	100	88
480-197333-2	SUPE-W-28C-042722	85	110	97	101	105	106	116	92
480-197333-3	SUPE-EB-01-042722	72	91	90	100	99	81	106	90
480-197333-4	SUPE-M-99A-042722	87	110	94	101	95	102	117	89
480-197333-5	SUPE-W-06C-042722	88	104	93	105	97	88	99	81
480-197333-6	SUPE-W-12A-042722	81	98	85	87	104	94	103	87
LCS 140-61532/13-A	Lab Control Sample	81	90	82	86	86	85	88	71
MB 140-61532/14-A	Method Blank	84	79	73	80	79	71	72	57

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- PeCDD = 13C-1,2,3,7,8-PeCDD
- HxCDD = 13C-1,2,3,4,7,8-HxCDD
- HxDD = 13C-1,2,3,6,7,8-HxCDD
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- OCDD = 13C-OCDD
- TCDF = 13C-2,3,7,8-TCDF
- PeCDF = 13C-1,2,3,7,8-PeCDF
- PeCF = 13C-2,3,4,7,8-PeCDF
- HxCDF = 13C-1,2,3,4,7,8-HxCDF
- HxDF = 13C-1,2,3,6,7,8-HxCDF
- 13CHxCF = 13C-2,3,4,6,7,8-HxCDF
- HxCF = 13C-1,2,3,7,8,9-HxCDF
- HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
- HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
- OCDF = 13C-OCDF

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 140-61532/14-A
Matrix: Water
Analysis Batch: 61928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61532

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.58	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total TCDD	ND		10	0.58	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8-PeCDD	ND		50	0.64	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total PeCDD	9.77	J I	50	0.64	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,7,8-HxCDD	2.14	J	50	0.46	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,6,7,8-HxCDD	1.61	J I	50	0.48	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8,9-HxCDD	4.31	J	50	0.44	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HxCDD	8.06	J I	50	0.46	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,6,7,8-HpCDD	ND		50	4.8	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HpCDD	ND		50	4.8	pg/L		05/10/22 09:09	05/24/22 16:20	1
OCDD	7.68	J	100	0.59	pg/L		05/10/22 09:09	05/24/22 16:20	1
2,3,7,8-TCDF	ND		10	0.43	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total TCDF	ND		10	0.43	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8-PeCDF	ND		50	0.49	pg/L		05/10/22 09:09	05/24/22 16:20	1
2,3,4,7,8-PeCDF	ND		50	0.53	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total PeCDF	ND		50	0.53	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,7,8-HxCDF	ND		50	1.5	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,6,7,8-HxCDF	ND		50	1.5	pg/L		05/10/22 09:09	05/24/22 16:20	1
2,3,4,6,7,8-HxCDF	ND		50	1.6	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8,9-HxCDF	ND		50	1.9	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HxCDF	ND		50	1.9	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,6,7,8-HpCDF	1.79	J	50	0.52	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,7,8,9-HpCDF	1.74	J I	50	0.67	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HpCDF	3.52	J I	50	0.59	pg/L		05/10/22 09:09	05/24/22 16:20	1
OCDF	2.35	J I	100	0.42	pg/L		05/10/22 09:09	05/24/22 16:20	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C-2,3,7,8-TCDD	75		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,7,8-PeCDD	100		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,7,8-HxCDD	74		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,6,7,8-HxCDD	78		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-OCDD	52		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-2,3,7,8-TCDF	79		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,7,8-PeCDF	98		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-2,3,4,7,8-PeCDF	84		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,7,8-HxCDF	79		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,6,7,8-HxCDF	73		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-2,3,4,6,7,8-HxCDF	80		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,7,8,9-HxCDF	79		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,6,7,8-HpCDF	71		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,7,8,9-HpCDF	72		40 - 135	05/10/22 09:09	05/24/22 16:20	1
13C-OCDF	57		40 - 135	05/10/22 09:09	05/24/22 16:20	1

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 140-61532/13-A

Matrix: Water

Analysis Batch: 61928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	217		pg/L		108	77 - 127
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	78 - 128
1,2,3,4,7,8-HxCDD	1000	1060		pg/L		106	73 - 123
1,2,3,6,7,8-HxCDD	1000	1020		pg/L		102	72 - 127
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	76 - 126
1,2,3,4,6,7,8-HpCDD	1000	974		pg/L		97	73 - 123
OCDD	2000	1960		pg/L		98	75 - 125
2,3,7,8-TCDF	200	240		pg/L		120	74 - 124
1,2,3,7,8-PeCDF	1000	993		pg/L		99	74 - 124
2,3,4,7,8-PeCDF	1000	1070		pg/L		107	74 - 124
1,2,3,4,7,8-HxCDF	1000	925		pg/L		92	75 - 125
1,2,3,6,7,8-HxCDF	1000	996		pg/L		100	75 - 125
2,3,4,6,7,8-HxCDF	1000	1030		pg/L		103	76 - 126
1,2,3,7,8,9-HxCDF	1000	1030		pg/L		103	76 - 126
1,2,3,4,6,7,8-HpCDF	1000	975		pg/L		97	71 - 121
1,2,3,4,7,8,9-HpCDF	1000	1030		pg/L		103	73 - 123
OCDF	2000	1730		pg/L		87	68 - 132

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	79		40 - 135
13C-1,2,3,7,8-PeCDD	96		40 - 135
13C-1,2,3,4,7,8-HxCDD	76		40 - 135
13C-1,2,3,6,7,8-HxCDD	84		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	86		40 - 135
13C-OCDD	65		40 - 135
13C-2,3,7,8-TCDF	76		40 - 135
13C-1,2,3,7,8-PeCDF	90		40 - 135
13C-2,3,4,7,8-PeCDF	81		40 - 135
13C-1,2,3,4,7,8-HxCDF	90		40 - 135
13C-1,2,3,6,7,8-HxCDF	82		40 - 135
13C-2,3,4,6,7,8-HxCDF	86		40 - 135
13C-1,2,3,7,8,9-HxCDF	86		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	85		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	88		40 - 135
13C-OCDF	71		40 - 135

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Specialty Organics

Prep Batch: 61532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	8290	
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	8290	
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	8290	
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	8290	
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	8290	
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	8290	
MB 140-61532/14-A	Method Blank	Total/NA	Water	8290	
LCS 140-61532/13-A	Lab Control Sample	Total/NA	Water	8290	

Analysis Batch: 61928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-1	SUPE-W-06A-042722	Total/NA	Water	8290A	61532
480-197333-2	SUPE-W-28C-042722	Total/NA	Water	8290A	61532
MB 140-61532/14-A	Method Blank	Total/NA	Water	8290A	61532
LCS 140-61532/13-A	Lab Control Sample	Total/NA	Water	8290A	61532

Analysis Batch: 62000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197333-3	SUPE-EB-01-042722	Total/NA	Water	8290A	61532
480-197333-4	SUPE-M-99A-042722	Total/NA	Water	8290A	61532
480-197333-5	SUPE-W-06C-042722	Total/NA	Water	8290A	61532
480-197333-6	SUPE-W-12A-042722	Total/NA	Water	8290A	61532

Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Client Sample ID: SUPE-W-06A-042722

Lab Sample ID: 480-197333-1

Date Collected: 04/27/22 08:38

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	61928	05/24/22 17:21	KBL	TAL KNX

Client Sample ID: SUPE-W-28C-042722

Lab Sample ID: 480-197333-2

Date Collected: 04/27/22 13:54

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	61928	05/24/22 18:22	KBL	TAL KNX

Client Sample ID: SUPE-EB-01-042722

Lab Sample ID: 480-197333-3

Date Collected: 04/27/22 15:10

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62000	05/24/22 23:22	PMP	TAL KNX

Client Sample ID: SUPE-M-99A-042722

Lab Sample ID: 480-197333-4

Date Collected: 04/27/22 22:00

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62000	05/25/22 00:22	PMP	TAL KNX

Client Sample ID: SUPE-W-06C-042722

Lab Sample ID: 480-197333-5

Date Collected: 04/27/22 10:43

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62000	05/25/22 01:22	PMP	TAL KNX

Client Sample ID: SUPE-W-12A-042722

Lab Sample ID: 480-197333-6

Date Collected: 04/27/22 13:06

Matrix: Water

Date Received: 04/28/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62000	05/25/22 02:22	PMP	TAL KNX

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Laboratory: Eurofins Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8290A	8290	Water	Total HpCDD
8290A	8290	Water	Total HpCDF
8290A	8290	Water	Total HxCDD
8290A	8290	Water	Total HxCDF
8290A	8290	Water	Total PeCDD
8290A	8290	Water	Total PeCDF
8290A	8290	Water	Total TCDD
8290A	8290	Water	Total TCDF

Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL KNX
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	TAL KNX

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197333-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-197333-1	SUPE-W-06A-042722	Water	04/27/22 08:38	04/28/22 10:00
480-197333-2	SUPE-W-28C-042722	Water	04/27/22 13:54	04/28/22 10:00
480-197333-3	SUPE-EB-01-042722	Water	04/27/22 15:10	04/28/22 10:00
480-197333-4	SUPE-M-99A-042722	Water	04/27/22 22:00	04/28/22 10:00
480-197333-5	SUPE-W-06C-042722	Water	04/27/22 10:43	04/28/22 10:00
480-197333-6	SUPE-W-12A-042722	Water	04/27/22 13:06	04/28/22 10:00

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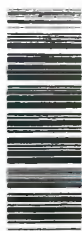
15



Ref 210311

CHAIN OF CUSTODY REQUEST FORM

REF.# 00200413



Project Name: Superior, WI - 2022 OM&M Program
Project Number: OM-0556-22
Laboratory: TABUF
Shipment Method: FEDEX
Program: Superior 2022 1SA Sampling_001

Company: Field & Technical Services
Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
Contact: barbaugh.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative		Total Bottle Count	Notes:									
					HCL	None											
04/27/2022	0838	GW	SUPE-WW-06A-042722	8260C_VOA+naphtha (Butraio)	3	None	5										
04/27/2022	1354	GW	SUPE-WW-28C-042722	8270D_LL_PCP (Butraio) (TL)	3	None	5										
04/27/2022	1510	GW	SUPE-EB-01-042722		3	None	5										
04/27/2022	2200	GW	SUPE-M-99A-042722		3	None	5										



480-197333 Chain of Custody

Temp 3.2, 1.8, 1.4, 2.9 #1 ICE

Relinquished by: Printed Name: Brenden Arbaugh Firm: FTS	Received by: Printed Name: Mike B Firm: TA	Relinquished by: Printed Name: Mike B Firm: TA Date/Time: 4/27/22 1500	Received by: Printed Name: Mike B Firm: TA Date/Time: 4/28/22 1600	Turnaround Requirements: <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard
---	---	---	---	---



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-197333-2

Login Number: 197333

List Number: 1

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-197349-1

Client Project/Site: Superior, WI Semiannual Groundwater

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
5/19/2022 9:19:18 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	8
Surrogate Summary	24
QC Sample Results	26
QC Association Summary	33
Lab Chronicle	35
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	44

Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Job ID: 480-197349-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-197349-1

Comments

No additional comments.

Receipt

The samples were received on 4/29/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.0° C, 1.4° C, 2.0° C and 2.2° C.

GC/MS VOA

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: SUPE-W-30A-042822. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Methods 8270D, 8270D LL: The continuing calibration verification (CCV) analyzed in batch 480-624252 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol (Surr). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Methods 8270D, 8270D LL: The laboratory control sample (LCS) for preparation batch 480-624194 and analytical batch 480-624252 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: SUPE-W-12CR-042822, SUPE-W-30C-042822, SUPE-W-30A-042822, SUPE-W-18D-042822, SUPE-W-04AR2-042822, SUPE-W-10AR2-042822 and SUPE-W-EB-02-042822. Therefore, the data has been reported.

Methods 8270D, 8270D LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SUPE-W-12CR-042822. These results have been reported and qualified.

Methods 8270D, 8270D LL: The following samples were diluted due to color, appearance, and viscosity: SUPE-W-30A-042822, SUPE-W-04AR2-042822 and SUPE-W-10AR2-042822. Elevated reporting limits (RL) are provided.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-655604 was outside the method criteria for the following analyte(s): 4-Nitrophenol and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when utilizing this list of analytes. The LCSD associated with preparation batch 500-654744 and analytical batch 500-655604 had 1 analytes outside control limits: Butyl benzyl phthalate. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-656186 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane], Benzo[g,h,i]perylene and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: SUPE-W-10AR2-042822. The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Job ID: 480-197349-1 (Continued)

Laboratory: Eurofins Buffalo (Continued)

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.056	J	0.15	0.044	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.072	J	0.15	0.062	ug/L	1		8270D	Total/NA
Chrysene	0.093	J	0.15	0.052	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

No Detections.

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	1.0	J	2.0	0.86	ug/L	2		8260C	Total/NA
Anthracene	0.53	J	0.69	0.23	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-18D-042822

Lab Sample ID: 480-197349-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	3.9	J	13	3.9	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.14	J	1.4	0.046	ug/L	1		8270D	Total/NA
Acenaphthene	0.77		0.70	0.22	ug/L	1		8270D	Total/NA
Anthracene	7.3		0.70	0.24	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	1.4		0.14	0.040	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.51		0.14	0.070	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	1.5		0.14	0.057	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.65		0.14	0.045	ug/L	1		8270D	Total/NA
Chrysene	2.9		0.14	0.048	ug/L	1		8270D	Total/NA
Dibenz(a,h)anthracene	0.079	J	0.21	0.036	ug/L	1		8270D	Total/NA
Dibenzofuran	1.1	J	1.4	0.18	ug/L	1		8270D	Total/NA
Fluoranthene	15		0.70	0.32	ug/L	1		8270D	Total/NA
Fluorene	2.2		0.70	0.17	ug/L	1		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.26		0.14	0.053	ug/L	1		8270D	Total/NA
Phenanthrene	7.2		0.70	0.21	ug/L	1		8270D	Total/NA
Pyrene	7.2		0.70	0.30	ug/L	1		8270D	Total/NA

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5.3		1.0	0.75	ug/L	1		8260C	Total/NA
Benzene	9.4		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	16		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.0		2.0	0.66	ug/L	1		8260C	Total/NA
Naphthalene	1.5		1.0	0.43	ug/L	1		8260C	Total/NA
o-Xylene	11		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	1.2		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	13		2.0	0.66	ug/L	1		8260C	Total/NA
3 & 4 Methylphenol	0.37	J	1.3	0.30	ug/L	1		8270D	Total/NA
Acenaphthylene	2.7		0.67	0.18	ug/L	1		8270D	Total/NA
Anthracene	0.63	J	0.67	0.22	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.12	J	0.13	0.038	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.13		0.13	0.054	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-10AR2-042822 (Continued)

Lab Sample ID: 480-197349-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	0.050	J	0.13	0.043	ug/L	1		8270D	Total/NA
Chrysene	0.22		0.13	0.046	ug/L	1		8270D	Total/NA
Dibenzofuran	14		1.3	0.18	ug/L	1		8270D	Total/NA
Fluoranthene	2.7		0.67	0.30	ug/L	1		8270D	Total/NA
Fluorene	12		0.67	0.16	ug/L	1		8270D	Total/NA
Phenanthrene	0.48	J	0.67	0.20	ug/L	1		8270D	Total/NA
Phenol	0.49	J	3.4	0.45	ug/L	1		8270D	Total/NA
Pyrene	1.5		0.67	0.29	ug/L	1		8270D	Total/NA
1-Methylnaphthalene	7.1		1.3	0.20	ug/L	1		8270D	Total/NA
Acenaphthene - DL	58		3.4	1.0	ug/L	5		8270D	Total/NA

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	6.1	J	13	3.8	ug/L	1		8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Date Collected: 04/28/22 08:28

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/08/22 13:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/08/22 13:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/08/22 13:08	1
Benzene	ND		1.0	0.41	ug/L			05/08/22 13:08	1
Chloromethane	ND		1.0	0.35	ug/L			05/08/22 13:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/08/22 13:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/08/22 13:08	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/08/22 13:08	1
Naphthalene	ND		1.0	0.43	ug/L			05/08/22 13:08	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/08/22 13:08	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/08/22 13:08	1
o-Xylene	ND		1.0	0.76	ug/L			05/08/22 13:08	1
Styrene	ND		1.0	0.73	ug/L			05/08/22 13:08	1
Toluene	ND		1.0	0.51	ug/L			05/08/22 13:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/08/22 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					05/08/22 13:08	1
4-Bromofluorobenzene (Surr)	103		73 - 120					05/08/22 13:08	1
Dibromofluoromethane (Surr)	98		75 - 123					05/08/22 13:08	1
Toluene-d8 (Surr)	101		80 - 120					05/08/22 13:08	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	144		24 - 146				05/02/22 15:33	05/03/22 16:55	1
2-Fluorobiphenyl	88		37 - 120				05/02/22 15:33	05/03/22 16:55	1
2-Fluorophenol (Surr)	42		10 - 120				05/02/22 15:33	05/03/22 16:55	1
Nitrobenzene-d5 (Surr)	77		26 - 120				05/02/22 15:33	05/03/22 16:55	1
Phenol-d5 (Surr)	27		11 - 120				05/02/22 15:33	05/03/22 16:55	1
p-Terphenyl-d14	55	S1-	64 - 127				05/02/22 15:33	05/03/22 16:55	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.5	0.18	ug/L		05/04/22 08:47	05/09/22 23:38	1
1,2-Dichlorobenzene	ND		1.5	0.19	ug/L		05/04/22 08:47	05/09/22 23:38	1
1,3-Dichlorobenzene	ND		1.5	0.16	ug/L		05/04/22 08:47	05/09/22 23:38	1
1,4-Dichlorobenzene	ND		1.5	0.16	ug/L		05/04/22 08:47	05/09/22 23:38	1
bis(chloroisopropyl) ether	ND		1.5	0.29	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,4,5-Trichlorophenol	ND		7.7	2.0	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,4,6-Trichlorophenol	ND		3.8	0.55	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,4-Dichlorophenol	ND		7.7	2.0	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,4-Dimethylphenol	ND		7.7	1.4	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,4-Dinitrophenol	ND		15	6.6	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,4-Dinitrotoluene	ND		0.77	0.19	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,6-Dinitrotoluene	ND		0.77	0.057	ug/L		05/04/22 08:47	05/09/22 23:38	1
2-Chloronaphthalene	ND		1.5	0.18	ug/L		05/04/22 08:47	05/09/22 23:38	1
2-Chlorophenol	ND		3.8	0.43	ug/L		05/04/22 08:47	05/09/22 23:38	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Date Collected: 04/28/22 08:28

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		1.5	0.050	ug/L		05/04/22 08:47	05/09/22 23:38	1
2-Methylphenol	ND		1.5	0.23	ug/L		05/04/22 08:47	05/09/22 23:38	1
2-Nitroaniline	ND		3.8	0.99	ug/L		05/04/22 08:47	05/09/22 23:38	1
2-Nitrophenol	ND		7.7	1.9	ug/L		05/04/22 08:47	05/09/22 23:38	1
3 & 4 Methylphenol	ND		1.5	0.35	ug/L		05/04/22 08:47	05/09/22 23:38	1
3,3'-Dichlorobenzidine	ND		3.8	1.3	ug/L		05/04/22 08:47	05/09/22 23:38	1
3-Nitroaniline	ND		7.7	1.4	ug/L		05/04/22 08:47	05/09/22 23:38	1
4,6-Dinitro-2-methylphenol	ND		15	4.5	ug/L		05/04/22 08:47	05/09/22 23:38	1
4-Bromophenyl phenyl ether	ND		3.8	0.42	ug/L		05/04/22 08:47	05/09/22 23:38	1
4-Chloro-3-methylphenol	ND		7.7	1.8	ug/L		05/04/22 08:47	05/09/22 23:38	1
4-Chloroaniline	ND		7.7	1.5	ug/L		05/04/22 08:47	05/09/22 23:38	1
4-Chlorophenyl phenyl ether	ND		3.8	0.49	ug/L		05/04/22 08:47	05/09/22 23:38	1
4-Nitroaniline	ND		7.7	1.3	ug/L		05/04/22 08:47	05/09/22 23:38	1
4-Nitrophenol	ND		15	5.7	ug/L		05/04/22 08:47	05/09/22 23:38	1
Acenaphthene	ND		0.77	0.24	ug/L		05/04/22 08:47	05/09/22 23:38	1
Acenaphthylene	ND		0.77	0.21	ug/L		05/04/22 08:47	05/09/22 23:38	1
Anthracene	ND		0.77	0.26	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzo[a]anthracene	0.056	J	0.15	0.044	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzo[a]pyrene	ND		0.15	0.076	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzo[b]fluoranthene	0.072	J	0.15	0.062	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzo[g,h,i]perylene	ND		0.77	0.29	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzo[k]fluoranthene	ND		0.15	0.049	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzoic acid	ND		15	4.4	ug/L		05/04/22 08:47	05/09/22 23:38	1
Benzyl alcohol	ND		15	4.6	ug/L		05/04/22 08:47	05/09/22 23:38	1
Bis(2-chloroethoxy)methane	ND		1.5	0.22	ug/L		05/04/22 08:47	05/09/22 23:38	1
Bis(2-chloroethyl)ether	ND		1.5	0.23	ug/L		05/04/22 08:47	05/09/22 23:38	1
Bis(2-ethylhexyl) phthalate	ND		7.7	1.3	ug/L		05/04/22 08:47	05/09/22 23:38	1
Butyl benzyl phthalate	ND	*	1.5	0.37	ug/L		05/04/22 08:47	05/09/22 23:38	1
Chrysene	0.093	J	0.15	0.052	ug/L		05/04/22 08:47	05/09/22 23:38	1
Dibenz(a,h)anthracene	ND		0.23	0.039	ug/L		05/04/22 08:47	05/09/22 23:38	1
Dibenzofuran	ND		1.5	0.20	ug/L		05/04/22 08:47	05/09/22 23:38	1
Diethyl phthalate	ND		3.8	0.28	ug/L		05/04/22 08:47	05/09/22 23:38	1
Dimethyl phthalate	ND		3.8	0.24	ug/L		05/04/22 08:47	05/09/22 23:38	1
Di-n-butyl phthalate	ND		3.8	0.56	ug/L		05/04/22 08:47	05/09/22 23:38	1
Di-n-octyl phthalate	ND		7.7	0.81	ug/L		05/04/22 08:47	05/09/22 23:38	1
Fluoranthene	ND		0.77	0.35	ug/L		05/04/22 08:47	05/09/22 23:38	1
Fluorene	ND		0.77	0.19	ug/L		05/04/22 08:47	05/09/22 23:38	1
Hexachlorobenzene	ND		0.38	0.061	ug/L		05/04/22 08:47	05/09/22 23:38	1
Hexachlorobutadiene	ND		3.8	0.40	ug/L		05/04/22 08:47	05/09/22 23:38	1
Hexachlorocyclopentadiene	ND		15	4.9	ug/L		05/04/22 08:47	05/09/22 23:38	1
Hexachloroethane	ND		3.8	0.46	ug/L		05/04/22 08:47	05/09/22 23:38	1
Indeno[1,2,3-cd]pyrene	ND		0.15	0.058	ug/L		05/04/22 08:47	05/09/22 23:38	1
Isophorone	ND		1.5	0.29	ug/L		05/04/22 08:47	05/09/22 23:38	1
Nitrobenzene	ND		0.77	0.35	ug/L		05/04/22 08:47	05/09/22 23:38	1
N-Nitrosodi-n-propylamine	ND		0.38	0.12	ug/L		05/04/22 08:47	05/09/22 23:38	1
N-Nitrosodiphenylamine	ND		1.5	0.28	ug/L		05/04/22 08:47	05/09/22 23:38	1
Phenanthrene	ND		0.77	0.23	ug/L		05/04/22 08:47	05/09/22 23:38	1
Phenol	ND		3.8	0.52	ug/L		05/04/22 08:47	05/09/22 23:38	1
Pyrene	ND		0.77	0.33	ug/L		05/04/22 08:47	05/09/22 23:38	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Date Collected: 04/28/22 08:28

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		3.8	0.57	ug/L		05/04/22 08:47	05/09/22 23:38	1
2,3,5,6-Tetrachlorophenol	ND		7.7	2.9	ug/L		05/04/22 08:47	05/09/22 23:38	1
1-Methylnaphthalene	ND		1.5	0.23	ug/L		05/04/22 08:47	05/09/22 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	43		27 - 110	05/04/22 08:47	05/09/22 23:38	1
Phenol-d5 (Surr)	35		20 - 110	05/04/22 08:47	05/09/22 23:38	1
Nitrobenzene-d5 (Surr)	54		36 - 120	05/04/22 08:47	05/09/22 23:38	1
2-Fluorobiphenyl	63		34 - 110	05/04/22 08:47	05/09/22 23:38	1
2,4,6-Tribromophenol (Surr)	115		40 - 145	05/04/22 08:47	05/09/22 23:38	1
Terphenyl-d14 (Surr)	81		40 - 145	05/04/22 08:47	05/09/22 23:38	1

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/08/22 13:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/08/22 13:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/08/22 13:30	1
Benzene	ND		1.0	0.41	ug/L			05/08/22 13:30	1
Chloromethane	ND		1.0	0.35	ug/L			05/08/22 13:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/08/22 13:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/08/22 13:30	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/08/22 13:30	1
Naphthalene	ND		1.0	0.43	ug/L			05/08/22 13:30	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/08/22 13:30	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/08/22 13:30	1
o-Xylene	ND		1.0	0.76	ug/L			05/08/22 13:30	1
Styrene	ND		1.0	0.73	ug/L			05/08/22 13:30	1
Toluene	ND		1.0	0.51	ug/L			05/08/22 13:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/08/22 13:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		05/08/22 13:30	1
4-Bromofluorobenzene (Surr)	105		73 - 120		05/08/22 13:30	1
Dibromofluoromethane (Surr)	100		75 - 123		05/08/22 13:30	1
Toluene-d8 (Surr)	102		80 - 120		05/08/22 13:30	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	119		24 - 146	05/02/22 15:33	05/03/22 17:23	1
2-Fluorobiphenyl	87		37 - 120	05/02/22 15:33	05/03/22 17:23	1
2-Fluorophenol (Surr)	45		10 - 120	05/02/22 15:33	05/03/22 17:23	1
Nitrobenzene-d5 (Surr)	73		26 - 120	05/02/22 15:33	05/03/22 17:23	1
Phenol-d5 (Surr)	30		11 - 120	05/02/22 15:33	05/03/22 17:23	1
p-Terphenyl-d14	95		64 - 127	05/02/22 15:33	05/03/22 17:23	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.4	0.16	ug/L		05/04/22 08:47	05/10/22 00:02	1
1,2-Dichlorobenzene	ND		1.4	0.17	ug/L		05/04/22 08:47	05/10/22 00:02	1
1,3-Dichlorobenzene	ND		1.4	0.14	ug/L		05/04/22 08:47	05/10/22 00:02	1
1,4-Dichlorobenzene	ND		1.4	0.14	ug/L		05/04/22 08:47	05/10/22 00:02	1
bis(chloroisopropyl) ether	ND		1.4	0.26	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,4,5-Trichlorophenol	ND		6.8	1.7	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,4,6-Trichlorophenol	ND		3.4	0.49	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,4-Dichlorophenol	ND		6.8	1.8	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,4-Dimethylphenol	ND		6.8	1.2	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,4-Dinitrophenol	ND		14	5.9	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,4-Dinitrotoluene	ND		0.68	0.17	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,6-Dinitrotoluene	ND		0.68	0.050	ug/L		05/04/22 08:47	05/10/22 00:02	1
2-Chloronaphthalene	ND		1.4	0.16	ug/L		05/04/22 08:47	05/10/22 00:02	1
2-Chlorophenol	ND		3.4	0.38	ug/L		05/04/22 08:47	05/10/22 00:02	1
2-Methylnaphthalene	ND		1.4	0.044	ug/L		05/04/22 08:47	05/10/22 00:02	1
2-Methylphenol	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 00:02	1
2-Nitroaniline	ND		3.4	0.88	ug/L		05/04/22 08:47	05/10/22 00:02	1
2-Nitrophenol	ND		6.8	1.7	ug/L		05/04/22 08:47	05/10/22 00:02	1
3 & 4 Methylphenol	ND		1.4	0.31	ug/L		05/04/22 08:47	05/10/22 00:02	1
3,3'-Dichlorobenzidine	ND		3.4	1.2	ug/L		05/04/22 08:47	05/10/22 00:02	1
3-Nitroaniline	ND		6.8	1.2	ug/L		05/04/22 08:47	05/10/22 00:02	1
4,6-Dinitro-2-methylphenol	ND		14	4.0	ug/L		05/04/22 08:47	05/10/22 00:02	1
4-Bromophenyl phenyl ether	ND		3.4	0.37	ug/L		05/04/22 08:47	05/10/22 00:02	1
4-Chloro-3-methylphenol	ND		6.8	1.6	ug/L		05/04/22 08:47	05/10/22 00:02	1
4-Chloroaniline	ND		6.8	1.4	ug/L		05/04/22 08:47	05/10/22 00:02	1
4-Chlorophenyl phenyl ether	ND		3.4	0.43	ug/L		05/04/22 08:47	05/10/22 00:02	1
4-Nitroaniline	ND		6.8	1.1	ug/L		05/04/22 08:47	05/10/22 00:02	1
4-Nitrophenol	ND		14	5.1	ug/L		05/04/22 08:47	05/10/22 00:02	1
Acenaphthene	ND		0.68	0.21	ug/L		05/04/22 08:47	05/10/22 00:02	1
Acenaphthylene	ND		0.68	0.18	ug/L		05/04/22 08:47	05/10/22 00:02	1
Anthracene	ND		0.68	0.23	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzo[a]anthracene	ND		0.14	0.039	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzo[a]pyrene	ND		0.14	0.067	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzo[b]fluoranthene	ND		0.14	0.055	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzo[g,h,i]perylene	ND		0.68	0.26	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzo[k]fluoranthene	ND		0.14	0.044	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzoic acid	ND		14	3.9	ug/L		05/04/22 08:47	05/10/22 00:02	1
Benzyl alcohol	ND		14	4.1	ug/L		05/04/22 08:47	05/10/22 00:02	1
Bis(2-chloroethoxy)methane	ND		1.4	0.19	ug/L		05/04/22 08:47	05/10/22 00:02	1
Bis(2-chloroethyl)ether	ND		1.4	0.20	ug/L		05/04/22 08:47	05/10/22 00:02	1
Bis(2-ethylhexyl) phthalate	ND		6.8	1.2	ug/L		05/04/22 08:47	05/10/22 00:02	1
Butyl benzyl phthalate	ND	*	1.4	0.33	ug/L		05/04/22 08:47	05/10/22 00:02	1
Chrysene	ND		0.14	0.046	ug/L		05/04/22 08:47	05/10/22 00:02	1
Dibenz(a,h)anthracene	ND		0.20	0.035	ug/L		05/04/22 08:47	05/10/22 00:02	1
Dibenzofuran	ND		1.4	0.18	ug/L		05/04/22 08:47	05/10/22 00:02	1
Diethyl phthalate	ND		3.4	0.25	ug/L		05/04/22 08:47	05/10/22 00:02	1
Dimethyl phthalate	ND		3.4	0.21	ug/L		05/04/22 08:47	05/10/22 00:02	1
Di-n-butyl phthalate	ND		3.4	0.50	ug/L		05/04/22 08:47	05/10/22 00:02	1
Di-n-octyl phthalate	ND		6.8	0.72	ug/L		05/04/22 08:47	05/10/22 00:02	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.68	0.31	ug/L		05/04/22 08:47	05/10/22 00:02	1
Fluorene	ND		0.68	0.17	ug/L		05/04/22 08:47	05/10/22 00:02	1
Hexachlorobenzene	ND		0.34	0.054	ug/L		05/04/22 08:47	05/10/22 00:02	1
Hexachlorobutadiene	ND		3.4	0.35	ug/L		05/04/22 08:47	05/10/22 00:02	1
Hexachlorocyclopentadiene	ND		14	4.3	ug/L		05/04/22 08:47	05/10/22 00:02	1
Hexachloroethane	ND		3.4	0.41	ug/L		05/04/22 08:47	05/10/22 00:02	1
Indeno[1,2,3-cd]pyrene	ND		0.14	0.051	ug/L		05/04/22 08:47	05/10/22 00:02	1
Isophorone	ND		1.4	0.26	ug/L		05/04/22 08:47	05/10/22 00:02	1
Nitrobenzene	ND		0.68	0.31	ug/L		05/04/22 08:47	05/10/22 00:02	1
N-Nitrosodi-n-propylamine	ND		0.34	0.10	ug/L		05/04/22 08:47	05/10/22 00:02	1
N-Nitrosodiphenylamine	ND		1.4	0.25	ug/L		05/04/22 08:47	05/10/22 00:02	1
Phenanthrene	ND		0.68	0.21	ug/L		05/04/22 08:47	05/10/22 00:02	1
Phenol	ND		3.4	0.46	ug/L		05/04/22 08:47	05/10/22 00:02	1
Pyrene	ND		0.68	0.29	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,3,4,6-Tetrachlorophenol	ND		3.4	0.51	ug/L		05/04/22 08:47	05/10/22 00:02	1
2,3,5,6-Tetrachlorophenol	ND		6.8	2.6	ug/L		05/04/22 08:47	05/10/22 00:02	1
1-Methylnaphthalene	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	45		27 - 110	05/04/22 08:47	05/10/22 00:02	1
Phenol-d5 (Surr)	25		20 - 110	05/04/22 08:47	05/10/22 00:02	1
Nitrobenzene-d5 (Surr)	58		36 - 120	05/04/22 08:47	05/10/22 00:02	1
2-Fluorobiphenyl	69		34 - 110	05/04/22 08:47	05/10/22 00:02	1
2,4,6-Tribromophenol (Surr)	96		40 - 145	05/04/22 08:47	05/10/22 00:02	1
Terphenyl-d14 (Surr)	95		40 - 145	05/04/22 08:47	05/10/22 00:02	1

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			05/08/22 13:52	2
1,2,4-Trimethylbenzene	ND		2.0	1.5	ug/L			05/08/22 13:52	2
1,3,5-Trimethylbenzene	ND		2.0	1.5	ug/L			05/08/22 13:52	2
Benzene	ND		2.0	0.82	ug/L			05/08/22 13:52	2
Chloromethane	ND		2.0	0.70	ug/L			05/08/22 13:52	2
Ethylbenzene	ND		2.0	1.5	ug/L			05/08/22 13:52	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			05/08/22 13:52	2
m-Xylene & p-Xylene	ND		4.0	1.3	ug/L			05/08/22 13:52	2
Naphthalene	1.0	J	2.0	0.86	ug/L			05/08/22 13:52	2
n-Butylbenzene	ND		2.0	1.3	ug/L			05/08/22 13:52	2
N-Propylbenzene	ND		2.0	1.4	ug/L			05/08/22 13:52	2
o-Xylene	ND		2.0	1.5	ug/L			05/08/22 13:52	2
Styrene	ND		2.0	1.5	ug/L			05/08/22 13:52	2
Toluene	ND		2.0	1.0	ug/L			05/08/22 13:52	2
Xylenes, Total	ND		4.0	1.3	ug/L			05/08/22 13:52	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		05/08/22 13:52	2

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		73 - 120		05/08/22 13:52	2
Dibromofluoromethane (Surr)	97		75 - 123		05/08/22 13:52	2
Toluene-d8 (Surr)	101		80 - 120		05/08/22 13:52	2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		10	3.4	ug/L		05/02/22 15:33	05/03/22 17:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		24 - 146	05/02/22 15:33	05/03/22 17:50	10
2-Fluorobiphenyl	98		37 - 120	05/02/22 15:33	05/03/22 17:50	10
2-Fluorophenol (Surr)	48		10 - 120	05/02/22 15:33	05/03/22 17:50	10
Nitrobenzene-d5 (Surr)	83		26 - 120	05/02/22 15:33	05/03/22 17:50	10
Phenol-d5 (Surr)	25		11 - 120	05/02/22 15:33	05/03/22 17:50	10
p-Terphenyl-d14	101		64 - 127	05/02/22 15:33	05/03/22 17:50	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.4	0.16	ug/L		05/04/22 08:47	05/10/22 00:26	1
1,2-Dichlorobenzene	ND		1.4	0.17	ug/L		05/04/22 08:47	05/10/22 00:26	1
1,3-Dichlorobenzene	ND		1.4	0.14	ug/L		05/04/22 08:47	05/10/22 00:26	1
1,4-Dichlorobenzene	ND		1.4	0.14	ug/L		05/04/22 08:47	05/10/22 00:26	1
bis(chloroisopropyl) ether	ND		1.4	0.26	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,4,5-Trichlorophenol	ND		6.9	1.8	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,4,6-Trichlorophenol	ND		3.4	0.49	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,4-Dichlorophenol	ND		6.9	1.8	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,4-Dimethylphenol	ND		6.9	1.2	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,4-Dinitrophenol	ND		14	5.9	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,4-Dinitrotoluene	ND		0.69	0.17	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,6-Dinitrotoluene	ND		0.69	0.051	ug/L		05/04/22 08:47	05/10/22 00:26	1
2-Chloronaphthalene	ND		1.4	0.16	ug/L		05/04/22 08:47	05/10/22 00:26	1
2-Chlorophenol	ND		3.4	0.38	ug/L		05/04/22 08:47	05/10/22 00:26	1
2-Methylnaphthalene	ND		1.4	0.045	ug/L		05/04/22 08:47	05/10/22 00:26	1
2-Methylphenol	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 00:26	1
2-Nitroaniline	ND		3.4	0.89	ug/L		05/04/22 08:47	05/10/22 00:26	1
2-Nitrophenol	ND		6.9	1.7	ug/L		05/04/22 08:47	05/10/22 00:26	1
3 & 4 Methylphenol	ND		1.4	0.31	ug/L		05/04/22 08:47	05/10/22 00:26	1
3,3'-Dichlorobenzidine	ND		3.4	1.2	ug/L		05/04/22 08:47	05/10/22 00:26	1
3-Nitroaniline	ND		6.9	1.2	ug/L		05/04/22 08:47	05/10/22 00:26	1
4,6-Dinitro-2-methylphenol	ND		14	4.1	ug/L		05/04/22 08:47	05/10/22 00:26	1
4-Bromophenyl phenyl ether	ND		3.4	0.37	ug/L		05/04/22 08:47	05/10/22 00:26	1
4-Chloro-3-methylphenol	ND		6.9	1.6	ug/L		05/04/22 08:47	05/10/22 00:26	1
4-Chloroaniline	ND		6.9	1.4	ug/L		05/04/22 08:47	05/10/22 00:26	1
4-Chlorophenyl phenyl ether	ND		3.4	0.44	ug/L		05/04/22 08:47	05/10/22 00:26	1
4-Nitroaniline	ND		6.9	1.1	ug/L		05/04/22 08:47	05/10/22 00:26	1
4-Nitrophenol	ND		14	5.1	ug/L		05/04/22 08:47	05/10/22 00:26	1
Acenaphthene	ND		0.69	0.21	ug/L		05/04/22 08:47	05/10/22 00:26	1
Acenaphthylene	ND		0.69	0.18	ug/L		05/04/22 08:47	05/10/22 00:26	1
Anthracene	0.53	J	0.69	0.23	ug/L		05/04/22 08:47	05/10/22 00:26	1
Benzo[a]anthracene	ND		0.14	0.039	ug/L		05/04/22 08:47	05/10/22 00:26	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.14	0.068	ug/L		05/04/22 08:47	05/10/22 00:26	1
Benzo[b]fluoranthene	ND		0.14	0.056	ug/L		05/04/22 08:47	05/10/22 00:26	1
Benzo[g,h,i]perylene	ND		0.69	0.26	ug/L		05/04/22 08:47	05/10/22 00:26	1
Benzo[k]fluoranthene	ND		0.14	0.044	ug/L		05/04/22 08:47	05/10/22 00:26	1
Benzoic acid	ND		14	4.0	ug/L		05/04/22 08:47	05/10/22 00:26	1
Benzyl alcohol	ND		14	4.2	ug/L		05/04/22 08:47	05/10/22 00:26	1
Bis(2-chloroethoxy)methane	ND		1.4	0.20	ug/L		05/04/22 08:47	05/10/22 00:26	1
Bis(2-chloroethyl)ether	ND		1.4	0.20	ug/L		05/04/22 08:47	05/10/22 00:26	1
Bis(2-ethylhexyl) phthalate	ND		6.9	1.2	ug/L		05/04/22 08:47	05/10/22 00:26	1
Butyl benzyl phthalate	ND	*	1.4	0.33	ug/L		05/04/22 08:47	05/10/22 00:26	1
Chrysene	ND		0.14	0.047	ug/L		05/04/22 08:47	05/10/22 00:26	1
Dibenz(a,h)anthracene	ND		0.21	0.035	ug/L		05/04/22 08:47	05/10/22 00:26	1
Dibenzofuran	ND		1.4	0.18	ug/L		05/04/22 08:47	05/10/22 00:26	1
Diethyl phthalate	ND		3.4	0.25	ug/L		05/04/22 08:47	05/10/22 00:26	1
Dimethyl phthalate	ND		3.4	0.22	ug/L		05/04/22 08:47	05/10/22 00:26	1
Di-n-butyl phthalate	ND		3.4	0.50	ug/L		05/04/22 08:47	05/10/22 00:26	1
Di-n-octyl phthalate	ND		6.9	0.72	ug/L		05/04/22 08:47	05/10/22 00:26	1
Fluoranthene	ND		0.69	0.31	ug/L		05/04/22 08:47	05/10/22 00:26	1
Fluorene	ND		0.69	0.17	ug/L		05/04/22 08:47	05/10/22 00:26	1
Hexachlorobenzene	ND		0.34	0.055	ug/L		05/04/22 08:47	05/10/22 00:26	1
Hexachlorobutadiene	ND		3.4	0.35	ug/L		05/04/22 08:47	05/10/22 00:26	1
Hexachlorocyclopentadiene	ND		14	4.4	ug/L		05/04/22 08:47	05/10/22 00:26	1
Hexachloroethane	ND		3.4	0.41	ug/L		05/04/22 08:47	05/10/22 00:26	1
Indeno[1,2,3-cd]pyrene	ND		0.14	0.051	ug/L		05/04/22 08:47	05/10/22 00:26	1
Isophorone	ND		1.4	0.26	ug/L		05/04/22 08:47	05/10/22 00:26	1
Nitrobenzene	ND		0.69	0.31	ug/L		05/04/22 08:47	05/10/22 00:26	1
N-Nitrosodi-n-propylamine	ND		0.34	0.11	ug/L		05/04/22 08:47	05/10/22 00:26	1
N-Nitrosodiphenylamine	ND		1.4	0.25	ug/L		05/04/22 08:47	05/10/22 00:26	1
Phenanthrene	ND		0.69	0.21	ug/L		05/04/22 08:47	05/10/22 00:26	1
Phenol	ND		3.4	0.46	ug/L		05/04/22 08:47	05/10/22 00:26	1
Pyrene	ND		0.69	0.29	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,3,4,6-Tetrachlorophenol	ND		3.4	0.51	ug/L		05/04/22 08:47	05/10/22 00:26	1
2,3,5,6-Tetrachlorophenol	ND		6.9	2.6	ug/L		05/04/22 08:47	05/10/22 00:26	1
1-Methylnaphthalene	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	44		27 - 110	05/04/22 08:47	05/10/22 00:26	1
Phenol-d5 (Surr)	27		20 - 110	05/04/22 08:47	05/10/22 00:26	1
Nitrobenzene-d5 (Surr)	56		36 - 120	05/04/22 08:47	05/10/22 00:26	1
2-Fluorobiphenyl	69		34 - 110	05/04/22 08:47	05/10/22 00:26	1
2,4,6-Tribromophenol (Surr)	96		40 - 145	05/04/22 08:47	05/10/22 00:26	1
Terphenyl-d14 (Surr)	90		40 - 145	05/04/22 08:47	05/10/22 00:26	1

Client Sample ID: SUPE-W-18D-042822

Lab Sample ID: 480-197349-4

Date Collected: 04/28/22 08:29

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 18:18	1

Euromins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-18D-042822

Lab Sample ID: 480-197349-4

Date Collected: 04/28/22 08:29

Matrix: Water

Date Received: 04/29/22 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	132		24 - 146	05/02/22 15:33	05/03/22 18:18	1
2-Fluorobiphenyl	89		37 - 120	05/02/22 15:33	05/03/22 18:18	1
2-Fluorophenol (Surr)	42		10 - 120	05/02/22 15:33	05/03/22 18:18	1
Nitrobenzene-d5 (Surr)	73		26 - 120	05/02/22 15:33	05/03/22 18:18	1
Phenol-d5 (Surr)	27		11 - 120	05/02/22 15:33	05/03/22 18:18	1
p-Terphenyl-d14	102		64 - 127	05/02/22 15:33	05/03/22 18:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 00:51	1
1,2-Dichlorobenzene	ND		1.3	0.17	ug/L		05/04/22 08:47	05/10/22 00:51	1
1,3-Dichlorobenzene	ND		1.3	0.14	ug/L		05/04/22 08:47	05/10/22 00:51	1
1,4-Dichlorobenzene	ND		1.3	0.14	ug/L		05/04/22 08:47	05/10/22 00:51	1
bis(chloroisopropyl) ether	ND		1.3	0.26	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,4,5-Trichlorophenol	ND		6.7	1.7	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,4,6-Trichlorophenol	ND		3.4	0.48	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,4-Dichlorophenol	ND		6.7	1.7	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,4-Dimethylphenol	ND		6.7	1.2	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,4-Dinitrophenol	ND		13	5.8	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,4-Dinitrotoluene	ND		0.67	0.16	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,6-Dinitrotoluene	ND		0.67	0.050	ug/L		05/04/22 08:47	05/10/22 00:51	1
2-Chloronaphthalene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 00:51	1
2-Chlorophenol	ND		3.4	0.38	ug/L		05/04/22 08:47	05/10/22 00:51	1
2-Methylnaphthalene	ND		1.3	0.044	ug/L		05/04/22 08:47	05/10/22 00:51	1
2-Methylphenol	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 00:51	1
2-Nitroaniline	ND		3.4	0.86	ug/L		05/04/22 08:47	05/10/22 00:51	1
2-Nitrophenol	ND		6.7	1.7	ug/L		05/04/22 08:47	05/10/22 00:51	1
3 & 4 Methylphenol	ND		1.3	0.30	ug/L		05/04/22 08:47	05/10/22 00:51	1
3,3'-Dichlorobenzidine	ND		3.4	1.1	ug/L		05/04/22 08:47	05/10/22 00:51	1
3-Nitroaniline	ND		6.7	1.2	ug/L		05/04/22 08:47	05/10/22 00:51	1
4,6-Dinitro-2-methylphenol	ND		13	4.0	ug/L		05/04/22 08:47	05/10/22 00:51	1
4-Bromophenyl phenyl ether	ND		3.4	0.36	ug/L		05/04/22 08:47	05/10/22 00:51	1
4-Chloro-3-methylphenol	ND		6.7	1.5	ug/L		05/04/22 08:47	05/10/22 00:51	1
4-Chloroaniline	ND		6.7	1.4	ug/L		05/04/22 08:47	05/10/22 00:51	1
4-Chlorophenyl phenyl ether	ND		3.4	0.43	ug/L		05/04/22 08:47	05/10/22 00:51	1
4-Nitroaniline	ND		6.7	1.1	ug/L		05/04/22 08:47	05/10/22 00:51	1
4-Nitrophenol	ND		13	5.0	ug/L		05/04/22 08:47	05/10/22 00:51	1
Acenaphthene	ND		0.67	0.21	ug/L		05/04/22 08:47	05/10/22 00:51	1
Acenaphthylene	ND		0.67	0.18	ug/L		05/04/22 08:47	05/10/22 00:51	1
Anthracene	ND		0.67	0.22	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzo[a]anthracene	ND		0.13	0.038	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzo[a]pyrene	ND		0.13	0.066	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzo[b]fluoranthene	ND		0.13	0.054	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzo[g,h,i]perylene	ND		0.67	0.25	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzo[k]fluoranthene	ND		0.13	0.043	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzoic acid	3.9	J	13	3.9	ug/L		05/04/22 08:47	05/10/22 00:51	1
Benzyl alcohol	ND		13	4.1	ug/L		05/04/22 08:47	05/10/22 00:51	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		05/04/22 08:47	05/10/22 00:51	1
Bis(2-chloroethyl)ether	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 00:51	1
Bis(2-ethylhexyl) phthalate	ND		6.7	1.1	ug/L		05/04/22 08:47	05/10/22 00:51	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-18D-042822

Lab Sample ID: 480-197349-4

Date Collected: 04/28/22 08:29

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND	*-	1.3	0.32	ug/L		05/04/22 08:47	05/10/22 00:51	1
Chrysene	ND		0.13	0.046	ug/L		05/04/22 08:47	05/10/22 00:51	1
Dibenz(a,h)anthracene	ND		0.20	0.034	ug/L		05/04/22 08:47	05/10/22 00:51	1
Dibenzofuran	ND		1.3	0.18	ug/L		05/04/22 08:47	05/10/22 00:51	1
Diethyl phthalate	ND		3.4	0.24	ug/L		05/04/22 08:47	05/10/22 00:51	1
Dimethyl phthalate	ND		3.4	0.21	ug/L		05/04/22 08:47	05/10/22 00:51	1
Di-n-butyl phthalate	ND		3.4	0.49	ug/L		05/04/22 08:47	05/10/22 00:51	1
Di-n-octyl phthalate	ND		6.7	0.70	ug/L		05/04/22 08:47	05/10/22 00:51	1
Fluoranthene	ND		0.67	0.30	ug/L		05/04/22 08:47	05/10/22 00:51	1
Fluorene	ND		0.67	0.16	ug/L		05/04/22 08:47	05/10/22 00:51	1
Hexachlorobenzene	ND		0.34	0.053	ug/L		05/04/22 08:47	05/10/22 00:51	1
Hexachlorobutadiene	ND		3.4	0.35	ug/L		05/04/22 08:47	05/10/22 00:51	1
Hexachlorocyclopentadiene	ND		13	4.3	ug/L		05/04/22 08:47	05/10/22 00:51	1
Hexachloroethane	ND		3.4	0.40	ug/L		05/04/22 08:47	05/10/22 00:51	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.050	ug/L		05/04/22 08:47	05/10/22 00:51	1
Isophorone	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 00:51	1
Naphthalene	ND		0.67	0.21	ug/L		05/04/22 08:47	05/10/22 00:51	1
Nitrobenzene	ND		0.67	0.30	ug/L		05/04/22 08:47	05/10/22 00:51	1
N-Nitrosodi-n-propylamine	ND		0.34	0.10	ug/L		05/04/22 08:47	05/10/22 00:51	1
N-Nitrosodiphenylamine	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 00:51	1
Phenanthrene	ND		0.67	0.20	ug/L		05/04/22 08:47	05/10/22 00:51	1
Phenol	ND		3.4	0.45	ug/L		05/04/22 08:47	05/10/22 00:51	1
Pyrene	ND		0.67	0.29	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,3,4,6-Tetrachlorophenol	ND		3.4	0.50	ug/L		05/04/22 08:47	05/10/22 00:51	1
2,3,5,6-Tetrachlorophenol	ND		6.7	2.6	ug/L		05/04/22 08:47	05/10/22 00:51	1
1-Methylnaphthalene	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	42		27 - 110	05/04/22 08:47	05/10/22 00:51	1
Phenol-d5 (Surr)	24		20 - 110	05/04/22 08:47	05/10/22 00:51	1
Nitrobenzene-d5 (Surr)	57		36 - 120	05/04/22 08:47	05/10/22 00:51	1
2-Fluorobiphenyl	65		34 - 110	05/04/22 08:47	05/10/22 00:51	1
2,4,6-Tribromophenol (Surr)	100		40 - 145	05/04/22 08:47	05/10/22 00:51	1
Terphenyl-d14 (Surr)	131		40 - 145	05/04/22 08:47	05/10/22 00:51	1

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/08/22 14:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/08/22 14:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/08/22 14:14	1
Benzene	ND		1.0	0.41	ug/L			05/08/22 14:14	1
Chloromethane	ND		1.0	0.35	ug/L			05/08/22 14:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/08/22 14:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/08/22 14:14	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/08/22 14:14	1
Naphthalene	ND		1.0	0.43	ug/L			05/08/22 14:14	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.64	ug/L			05/08/22 14:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/08/22 14:14	1
o-Xylene	ND		1.0	0.76	ug/L			05/08/22 14:14	1
Styrene	ND		1.0	0.73	ug/L			05/08/22 14:14	1
Toluene	ND		1.0	0.51	ug/L			05/08/22 14:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/08/22 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		05/08/22 14:14	1
4-Bromofluorobenzene (Surr)	106		73 - 120		05/08/22 14:14	1
Dibromofluoromethane (Surr)	100		75 - 123		05/08/22 14:14	1
Toluene-d8 (Surr)	101		80 - 120		05/08/22 14:14	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.7	ug/L		05/02/22 15:33	05/03/22 18:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	126		24 - 146	05/02/22 15:33	05/03/22 18:46	5
2-Fluorobiphenyl	96		37 - 120	05/02/22 15:33	05/03/22 18:46	5
2-Fluorophenol (Surr)	45		10 - 120	05/02/22 15:33	05/03/22 18:46	5
Nitrobenzene-d5 (Surr)	76		26 - 120	05/02/22 15:33	05/03/22 18:46	5
Phenol-d5 (Surr)	25		11 - 120	05/02/22 15:33	05/03/22 18:46	5
p-Terphenyl-d14	95		64 - 127	05/02/22 15:33	05/03/22 18:46	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.4	0.17	ug/L		05/04/22 08:47	05/10/22 01:15	1
1,2-Dichlorobenzene	ND		1.4	0.17	ug/L		05/04/22 08:47	05/10/22 01:15	1
1,3-Dichlorobenzene	ND		1.4	0.15	ug/L		05/04/22 08:47	05/10/22 01:15	1
1,4-Dichlorobenzene	ND		1.4	0.15	ug/L		05/04/22 08:47	05/10/22 01:15	1
bis(chloroisopropyl) ether	ND		1.4	0.27	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,4,5-Trichlorophenol	ND		7.0	1.8	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,4,6-Trichlorophenol	ND		3.5	0.50	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,4-Dichlorophenol	ND		7.0	1.8	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,4-Dimethylphenol	ND		7.0	1.3	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,4-Dinitrophenol	ND		14	6.0	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,4-Dinitrotoluene	ND		0.70	0.17	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,6-Dinitrotoluene	ND		0.70	0.052	ug/L		05/04/22 08:47	05/10/22 01:15	1
2-Chloronaphthalene	ND		1.4	0.17	ug/L		05/04/22 08:47	05/10/22 01:15	1
2-Chlorophenol	ND		3.5	0.39	ug/L		05/04/22 08:47	05/10/22 01:15	1
2-Methylnaphthalene	0.14	J	1.4	0.046	ug/L		05/04/22 08:47	05/10/22 01:15	1
2-Methylphenol	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 01:15	1
2-Nitroaniline	ND		3.5	0.91	ug/L		05/04/22 08:47	05/10/22 01:15	1
2-Nitrophenol	ND		7.0	1.8	ug/L		05/04/22 08:47	05/10/22 01:15	1
3 & 4 Methylphenol	ND		1.4	0.32	ug/L		05/04/22 08:47	05/10/22 01:15	1
3,3'-Dichlorobenzidine	ND		3.5	1.2	ug/L		05/04/22 08:47	05/10/22 01:15	1
3-Nitroaniline	ND		7.0	1.3	ug/L		05/04/22 08:47	05/10/22 01:15	1
4,6-Dinitro-2-methylphenol	ND		14	4.2	ug/L		05/04/22 08:47	05/10/22 01:15	1
4-Bromophenyl phenyl ether	ND		3.5	0.38	ug/L		05/04/22 08:47	05/10/22 01:15	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	ND		7.0	1.6	ug/L		05/04/22 08:47	05/10/22 01:15	1
4-Chloroaniline	ND		7.0	1.4	ug/L		05/04/22 08:47	05/10/22 01:15	1
4-Chlorophenyl phenyl ether	ND		3.5	0.45	ug/L		05/04/22 08:47	05/10/22 01:15	1
4-Nitroaniline	ND		7.0	1.2	ug/L		05/04/22 08:47	05/10/22 01:15	1
4-Nitrophenol	ND		14	5.2	ug/L		05/04/22 08:47	05/10/22 01:15	1
Acenaphthene	0.77		0.70	0.22	ug/L		05/04/22 08:47	05/10/22 01:15	1
Acenaphthylene	ND		0.70	0.19	ug/L		05/04/22 08:47	05/10/22 01:15	1
Anthracene	7.3		0.70	0.24	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzo[a]anthracene	1.4		0.14	0.040	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzo[a]pyrene	0.51		0.14	0.070	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzo[b]fluoranthene	1.5		0.14	0.057	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzo[g,h,i]perylene	ND		0.70	0.26	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzo[k]fluoranthene	0.65		0.14	0.045	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzoic acid	ND		14	4.1	ug/L		05/04/22 08:47	05/10/22 01:15	1
Benzyl alcohol	ND		14	4.3	ug/L		05/04/22 08:47	05/10/22 01:15	1
Bis(2-chloroethoxy)methane	ND		1.4	0.20	ug/L		05/04/22 08:47	05/10/22 01:15	1
Bis(2-chloroethyl)ether	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 01:15	1
Bis(2-ethylhexyl) phthalate	ND		7.0	1.2	ug/L		05/04/22 08:47	05/10/22 01:15	1
Butyl benzyl phthalate	ND	*	1.4	0.34	ug/L		05/04/22 08:47	05/10/22 01:15	1
Chrysene	2.9		0.14	0.048	ug/L		05/04/22 08:47	05/10/22 01:15	1
Dibenz(a,h)anthracene	0.079	J	0.21	0.036	ug/L		05/04/22 08:47	05/10/22 01:15	1
Dibenzofuran	1.1	J	1.4	0.18	ug/L		05/04/22 08:47	05/10/22 01:15	1
Diethyl phthalate	ND		3.5	0.25	ug/L		05/04/22 08:47	05/10/22 01:15	1
Dimethyl phthalate	ND		3.5	0.22	ug/L		05/04/22 08:47	05/10/22 01:15	1
Di-n-butyl phthalate	ND		3.5	0.51	ug/L		05/04/22 08:47	05/10/22 01:15	1
Di-n-octyl phthalate	ND		7.0	0.74	ug/L		05/04/22 08:47	05/10/22 01:15	1
Fluoranthene	15		0.70	0.32	ug/L		05/04/22 08:47	05/10/22 01:15	1
Fluorene	2.2		0.70	0.17	ug/L		05/04/22 08:47	05/10/22 01:15	1
Hexachlorobenzene	ND		0.35	0.056	ug/L		05/04/22 08:47	05/10/22 01:15	1
Hexachlorobutadiene	ND		3.5	0.36	ug/L		05/04/22 08:47	05/10/22 01:15	1
Hexachlorocyclopentadiene	ND		14	4.5	ug/L		05/04/22 08:47	05/10/22 01:15	1
Hexachloroethane	ND		3.5	0.42	ug/L		05/04/22 08:47	05/10/22 01:15	1
Indeno[1,2,3-cd]pyrene	0.26		0.14	0.053	ug/L		05/04/22 08:47	05/10/22 01:15	1
Isophorone	ND		1.4	0.26	ug/L		05/04/22 08:47	05/10/22 01:15	1
Nitrobenzene	ND		0.70	0.32	ug/L		05/04/22 08:47	05/10/22 01:15	1
N-Nitrosodi-n-propylamine	ND		0.35	0.11	ug/L		05/04/22 08:47	05/10/22 01:15	1
N-Nitrosodiphenylamine	ND		1.4	0.26	ug/L		05/04/22 08:47	05/10/22 01:15	1
Phenanthrene	7.2		0.70	0.21	ug/L		05/04/22 08:47	05/10/22 01:15	1
Phenol	ND		3.5	0.47	ug/L		05/04/22 08:47	05/10/22 01:15	1
Pyrene	7.2		0.70	0.30	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,3,4,6-Tetrachlorophenol	ND		3.5	0.53	ug/L		05/04/22 08:47	05/10/22 01:15	1
2,3,5,6-Tetrachlorophenol	ND		7.0	2.7	ug/L		05/04/22 08:47	05/10/22 01:15	1
1-Methylnaphthalene	ND		1.4	0.21	ug/L		05/04/22 08:47	05/10/22 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	45		27 - 110	05/04/22 08:47	05/10/22 01:15	1
Phenol-d5 (Surr)	29		20 - 110	05/04/22 08:47	05/10/22 01:15	1
Nitrobenzene-d5 (Surr)	63		36 - 120	05/04/22 08:47	05/10/22 01:15	1
2-Fluorobiphenyl	76		34 - 110	05/04/22 08:47	05/10/22 01:15	1
2,4,6-Tribromophenol (Surr)	120		40 - 145	05/04/22 08:47	05/10/22 01:15	1

Euromins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	95		40 - 145	05/04/22 08:47	05/10/22 01:15	1

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/08/22 14:37	1
1,2,4-Trimethylbenzene	5.3		1.0	0.75	ug/L			05/08/22 14:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/08/22 14:37	1
Benzene	9.4		1.0	0.41	ug/L			05/08/22 14:37	1
Chloromethane	ND		1.0	0.35	ug/L			05/08/22 14:37	1
Ethylbenzene	16		1.0	0.74	ug/L			05/08/22 14:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/08/22 14:37	1
m-Xylene & p-Xylene	2.0		2.0	0.66	ug/L			05/08/22 14:37	1
Naphthalene	1.5		1.0	0.43	ug/L			05/08/22 14:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/08/22 14:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/08/22 14:37	1
o-Xylene	11		1.0	0.76	ug/L			05/08/22 14:37	1
Styrene	ND		1.0	0.73	ug/L			05/08/22 14:37	1
Toluene	1.2		1.0	0.51	ug/L			05/08/22 14:37	1
Xylenes, Total	13		2.0	0.66	ug/L			05/08/22 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		05/08/22 14:37	1
4-Bromofluorobenzene (Surr)	99		73 - 120		05/08/22 14:37	1
Dibromofluoromethane (Surr)	98		75 - 123		05/08/22 14:37	1
Toluene-d8 (Surr)	101		80 - 120		05/08/22 14:37	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		5.0	1.7	ug/L		05/02/22 15:33	05/03/22 19:14	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	122		24 - 146	05/02/22 15:33	05/03/22 19:14	5
2-Fluorobiphenyl	92		37 - 120	05/02/22 15:33	05/03/22 19:14	5
2-Fluorophenol (Surr)	45		10 - 120	05/02/22 15:33	05/03/22 19:14	5
Nitrobenzene-d5 (Surr)	79		26 - 120	05/02/22 15:33	05/03/22 19:14	5
Phenol-d5 (Surr)	26		11 - 120	05/02/22 15:33	05/03/22 19:14	5
p-Terphenyl-d14	100		64 - 127	05/02/22 15:33	05/03/22 19:14	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 01:40	1
1,2-Dichlorobenzene	ND		1.3	0.17	ug/L		05/04/22 08:47	05/10/22 01:40	1
1,3-Dichlorobenzene	ND		1.3	0.14	ug/L		05/04/22 08:47	05/10/22 01:40	1
1,4-Dichlorobenzene	ND		1.3	0.14	ug/L		05/04/22 08:47	05/10/22 01:40	1
bis(chloroisopropyl) ether	ND		1.3	0.26	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,4,5-Trichlorophenol	ND		6.7	1.7	ug/L		05/04/22 08:47	05/10/22 01:40	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		3.4	0.48	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,4-Dichlorophenol	ND		6.7	1.7	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,4-Dimethylphenol	ND		6.7	1.2	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,4-Dinitrophenol	ND		13	5.8	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,4-Dinitrotoluene	ND		0.67	0.16	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,6-Dinitrotoluene	ND		0.67	0.050	ug/L		05/04/22 08:47	05/10/22 01:40	1
2-Chloronaphthalene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 01:40	1
2-Chlorophenol	ND		3.4	0.38	ug/L		05/04/22 08:47	05/10/22 01:40	1
2-Methylnaphthalene	ND		1.3	0.044	ug/L		05/04/22 08:47	05/10/22 01:40	1
2-Methylphenol	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 01:40	1
2-Nitroaniline	ND		3.4	0.86	ug/L		05/04/22 08:47	05/10/22 01:40	1
2-Nitrophenol	ND		6.7	1.7	ug/L		05/04/22 08:47	05/10/22 01:40	1
3 & 4 Methylphenol	0.37	J	1.3	0.30	ug/L		05/04/22 08:47	05/10/22 01:40	1
3,3'-Dichlorobenzidine	ND		3.4	1.2	ug/L		05/04/22 08:47	05/10/22 01:40	1
3-Nitroaniline	ND		6.7	1.2	ug/L		05/04/22 08:47	05/10/22 01:40	1
4,6-Dinitro-2-methylphenol	ND		13	4.0	ug/L		05/04/22 08:47	05/10/22 01:40	1
4-Bromophenyl phenyl ether	ND		3.4	0.36	ug/L		05/04/22 08:47	05/10/22 01:40	1
4-Chloro-3-methylphenol	ND		6.7	1.5	ug/L		05/04/22 08:47	05/10/22 01:40	1
4-Chloroaniline	ND		6.7	1.4	ug/L		05/04/22 08:47	05/10/22 01:40	1
4-Chlorophenyl phenyl ether	ND		3.4	0.43	ug/L		05/04/22 08:47	05/10/22 01:40	1
4-Nitroaniline	ND		6.7	1.1	ug/L		05/04/22 08:47	05/10/22 01:40	1
4-Nitrophenol	ND		13	5.0	ug/L		05/04/22 08:47	05/10/22 01:40	1
Acenaphthylene	2.7		0.67	0.18	ug/L		05/04/22 08:47	05/10/22 01:40	1
Anthracene	0.63	J	0.67	0.22	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzo[a]anthracene	0.12	J	0.13	0.038	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzo[a]pyrene	ND		0.13	0.066	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzo[b]fluoranthene	0.13		0.13	0.054	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzo[g,h,i]perylene	ND		0.67	0.25	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzo[k]fluoranthene	0.050	J	0.13	0.043	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzoic acid	ND		13	3.9	ug/L		05/04/22 08:47	05/10/22 01:40	1
Benzyl alcohol	ND		13	4.1	ug/L		05/04/22 08:47	05/10/22 01:40	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		05/04/22 08:47	05/10/22 01:40	1
Bis(2-chloroethyl)ether	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 01:40	1
Bis(2-ethylhexyl) phthalate	ND		6.7	1.2	ug/L		05/04/22 08:47	05/10/22 01:40	1
Butyl benzyl phthalate	ND	*	1.3	0.32	ug/L		05/04/22 08:47	05/10/22 01:40	1
Chrysene	0.22		0.13	0.046	ug/L		05/04/22 08:47	05/10/22 01:40	1
Dibenz(a,h)anthracene	ND		0.20	0.034	ug/L		05/04/22 08:47	05/10/22 01:40	1
Dibenzofuran	14		1.3	0.18	ug/L		05/04/22 08:47	05/10/22 01:40	1
Diethyl phthalate	ND		3.4	0.24	ug/L		05/04/22 08:47	05/10/22 01:40	1
Dimethyl phthalate	ND		3.4	0.21	ug/L		05/04/22 08:47	05/10/22 01:40	1
Di-n-butyl phthalate	ND		3.4	0.49	ug/L		05/04/22 08:47	05/10/22 01:40	1
Di-n-octyl phthalate	ND		6.7	0.71	ug/L		05/04/22 08:47	05/10/22 01:40	1
Fluoranthene	2.7		0.67	0.30	ug/L		05/04/22 08:47	05/10/22 01:40	1
Fluorene	12		0.67	0.16	ug/L		05/04/22 08:47	05/10/22 01:40	1
Hexachlorobenzene	ND		0.34	0.053	ug/L		05/04/22 08:47	05/10/22 01:40	1
Hexachlorobutadiene	ND		3.4	0.35	ug/L		05/04/22 08:47	05/10/22 01:40	1
Hexachlorocyclopentadiene	ND		13	4.3	ug/L		05/04/22 08:47	05/10/22 01:40	1
Hexachloroethane	ND		3.4	0.40	ug/L		05/04/22 08:47	05/10/22 01:40	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.050	ug/L		05/04/22 08:47	05/10/22 01:40	1

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 01:40	1
Nitrobenzene	ND		0.67	0.30	ug/L		05/04/22 08:47	05/10/22 01:40	1
N-Nitrosodi-n-propylamine	ND		0.34	0.10	ug/L		05/04/22 08:47	05/10/22 01:40	1
N-Nitrosodiphenylamine	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 01:40	1
Phenanthrene	0.48	J	0.67	0.20	ug/L		05/04/22 08:47	05/10/22 01:40	1
Phenol	0.49	J	3.4	0.45	ug/L		05/04/22 08:47	05/10/22 01:40	1
Pyrene	1.5		0.67	0.29	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,3,4,6-Tetrachlorophenol	ND		3.4	0.50	ug/L		05/04/22 08:47	05/10/22 01:40	1
2,3,5,6-Tetrachlorophenol	ND		6.7	2.6	ug/L		05/04/22 08:47	05/10/22 01:40	1
1-Methylnaphthalene	7.1		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	63		27 - 110	05/04/22 08:47	05/10/22 01:40	1
Phenol-d5 (Surr)	43		20 - 110	05/04/22 08:47	05/10/22 01:40	1
Nitrobenzene-d5 (Surr)	75		36 - 120	05/04/22 08:47	05/10/22 01:40	1
2-Fluorobiphenyl	88		34 - 110	05/04/22 08:47	05/10/22 01:40	1
2,4,6-Tribromophenol (Surr)	96		40 - 145	05/04/22 08:47	05/10/22 01:40	1
Terphenyl-d14 (Surr)	92		40 - 145	05/04/22 08:47	05/10/22 01:40	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	58		3.4	1.0	ug/L		05/04/22 08:47	05/12/22 11:38	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	20	S1-	27 - 110	05/04/22 08:47	05/12/22 11:38	5
Phenol-d5 (Surr)	21		20 - 110	05/04/22 08:47	05/12/22 11:38	5
Nitrobenzene-d5 (Surr)	55		36 - 120	05/04/22 08:47	05/12/22 11:38	5
2-Fluorobiphenyl	55		34 - 110	05/04/22 08:47	05/12/22 11:38	5
2,4,6-Tribromophenol (Surr)	57		40 - 145	05/04/22 08:47	05/12/22 11:38	5
Terphenyl-d14 (Surr)	77		40 - 145	05/04/22 08:47	05/12/22 11:38	5

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/08/22 14:59	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/08/22 14:59	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/08/22 14:59	1
Benzene	ND		1.0	0.41	ug/L			05/08/22 14:59	1
Chloromethane	ND		1.0	0.35	ug/L			05/08/22 14:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/08/22 14:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/08/22 14:59	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/08/22 14:59	1
Naphthalene	ND		1.0	0.43	ug/L			05/08/22 14:59	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/08/22 14:59	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/08/22 14:59	1
o-Xylene	ND		1.0	0.76	ug/L			05/08/22 14:59	1
Styrene	ND		1.0	0.73	ug/L			05/08/22 14:59	1
Toluene	ND		1.0	0.51	ug/L			05/08/22 14:59	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			05/08/22 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					05/08/22 14:59	1
4-Bromofluorobenzene (Surr)	104		73 - 120					05/08/22 14:59	1
Dibromofluoromethane (Surr)	98		75 - 123					05/08/22 14:59	1
Toluene-d8 (Surr)	103		80 - 120					05/08/22 14:59	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	104		24 - 146				05/02/22 15:33	05/03/22 19:41	1
2-Fluorobiphenyl	98		37 - 120				05/02/22 15:33	05/03/22 19:41	1
2-Fluorophenol (Surr)	45		10 - 120				05/02/22 15:33	05/03/22 19:41	1
Nitrobenzene-d5 (Surr)	80		26 - 120				05/02/22 15:33	05/03/22 19:41	1
Phenol-d5 (Surr)	29		11 - 120				05/02/22 15:33	05/03/22 19:41	1
p-Terphenyl-d14	106		64 - 127				05/02/22 15:33	05/03/22 19:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 02:04	1
1,2-Dichlorobenzene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 02:04	1
1,3-Dichlorobenzene	ND		1.3	0.14	ug/L		05/04/22 08:47	05/10/22 02:04	1
1,4-Dichlorobenzene	ND		1.3	0.14	ug/L		05/04/22 08:47	05/10/22 02:04	1
bis(chloroisopropyl) ether	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,4,5-Trichlorophenol	ND		6.6	1.7	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,4,6-Trichlorophenol	ND		3.3	0.48	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,4-Dichlorophenol	ND		6.6	1.7	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,4-Dimethylphenol	ND		6.6	1.2	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,4-Dinitrophenol	ND		13	5.7	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,4-Dinitrotoluene	ND		0.66	0.16	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,6-Dinitrotoluene	ND		0.66	0.049	ug/L		05/04/22 08:47	05/10/22 02:04	1
2-Chloronaphthalene	ND		1.3	0.16	ug/L		05/04/22 08:47	05/10/22 02:04	1
2-Chlorophenol	ND		3.3	0.37	ug/L		05/04/22 08:47	05/10/22 02:04	1
2-Methylnaphthalene	ND		1.3	0.043	ug/L		05/04/22 08:47	05/10/22 02:04	1
2-Methylphenol	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 02:04	1
2-Nitroaniline	ND		3.3	0.86	ug/L		05/04/22 08:47	05/10/22 02:04	1
2-Nitrophenol	ND		6.6	1.7	ug/L		05/04/22 08:47	05/10/22 02:04	1
3 & 4 Methylphenol	ND		1.3	0.30	ug/L		05/04/22 08:47	05/10/22 02:04	1
3,3'-Dichlorobenzidine	ND		3.3	1.1	ug/L		05/04/22 08:47	05/10/22 02:04	1
3-Nitroaniline	ND		6.6	1.2	ug/L		05/04/22 08:47	05/10/22 02:04	1
4,6-Dinitro-2-methylphenol	ND		13	3.9	ug/L		05/04/22 08:47	05/10/22 02:04	1
4-Bromophenyl phenyl ether	ND		3.3	0.36	ug/L		05/04/22 08:47	05/10/22 02:04	1
4-Chloro-3-methylphenol	ND		6.6	1.5	ug/L		05/04/22 08:47	05/10/22 02:04	1
4-Chloroaniline	ND		6.6	1.3	ug/L		05/04/22 08:47	05/10/22 02:04	1
4-Chlorophenyl phenyl ether	ND		3.3	0.42	ug/L		05/04/22 08:47	05/10/22 02:04	1
4-Nitroaniline	ND		6.6	1.1	ug/L		05/04/22 08:47	05/10/22 02:04	1
4-Nitrophenol	ND		13	4.9	ug/L		05/04/22 08:47	05/10/22 02:04	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.66	0.21	ug/L		05/04/22 08:47	05/10/22 02:04	1
Acenaphthylene	ND		0.66	0.18	ug/L		05/04/22 08:47	05/10/22 02:04	1
Anthracene	ND		0.66	0.22	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzo[a]anthracene	ND		0.13	0.038	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzo[a]pyrene	ND		0.13	0.066	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzo[b]fluoranthene	ND		0.13	0.054	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzo[g,h,i]perylene	ND		0.66	0.25	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzo[k]fluoranthene	ND		0.13	0.043	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzoic acid	6.1	J	13	3.8	ug/L		05/04/22 08:47	05/10/22 02:04	1
Benzyl alcohol	ND		13	4.0	ug/L		05/04/22 08:47	05/10/22 02:04	1
Bis(2-chloroethoxy)methane	ND		1.3	0.19	ug/L		05/04/22 08:47	05/10/22 02:04	1
Bis(2-chloroethyl)ether	ND		1.3	0.19	ug/L		05/04/22 08:47	05/10/22 02:04	1
Bis(2-ethylhexyl) phthalate	ND		6.6	1.1	ug/L		05/04/22 08:47	05/10/22 02:04	1
Butyl benzyl phthalate	ND	*	1.3	0.32	ug/L		05/04/22 08:47	05/10/22 02:04	1
Chrysene	ND		0.13	0.045	ug/L		05/04/22 08:47	05/10/22 02:04	1
Dibenz(a,h)anthracene	ND		0.20	0.034	ug/L		05/04/22 08:47	05/10/22 02:04	1
Dibenzofuran	ND		1.3	0.17	ug/L		05/04/22 08:47	05/10/22 02:04	1
Diethyl phthalate	ND		3.3	0.24	ug/L		05/04/22 08:47	05/10/22 02:04	1
Dimethyl phthalate	ND		3.3	0.21	ug/L		05/04/22 08:47	05/10/22 02:04	1
Di-n-butyl phthalate	ND		3.3	0.49	ug/L		05/04/22 08:47	05/10/22 02:04	1
Di-n-octyl phthalate	ND		6.6	0.70	ug/L		05/04/22 08:47	05/10/22 02:04	1
Fluoranthene	ND		0.66	0.30	ug/L		05/04/22 08:47	05/10/22 02:04	1
Fluorene	ND		0.66	0.16	ug/L		05/04/22 08:47	05/10/22 02:04	1
Hexachlorobenzene	ND		0.33	0.053	ug/L		05/04/22 08:47	05/10/22 02:04	1
Hexachlorobutadiene	ND		3.3	0.34	ug/L		05/04/22 08:47	05/10/22 02:04	1
Hexachlorocyclopentadiene	ND		13	4.2	ug/L		05/04/22 08:47	05/10/22 02:04	1
Hexachloroethane	ND		3.3	0.40	ug/L		05/04/22 08:47	05/10/22 02:04	1
Indeno[1,2,3-cd]pyrene	ND		0.13	0.050	ug/L		05/04/22 08:47	05/10/22 02:04	1
Isophorone	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 02:04	1
Nitrobenzene	ND		0.66	0.30	ug/L		05/04/22 08:47	05/10/22 02:04	1
N-Nitrosodi-n-propylamine	ND		0.33	0.10	ug/L		05/04/22 08:47	05/10/22 02:04	1
N-Nitrosodiphenylamine	ND		1.3	0.25	ug/L		05/04/22 08:47	05/10/22 02:04	1
Phenanthrene	ND		0.66	0.20	ug/L		05/04/22 08:47	05/10/22 02:04	1
Phenol	ND		3.3	0.45	ug/L		05/04/22 08:47	05/10/22 02:04	1
Pyrene	ND		0.66	0.28	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,3,4,6-Tetrachlorophenol	ND		3.3	0.50	ug/L		05/04/22 08:47	05/10/22 02:04	1
2,3,5,6-Tetrachlorophenol	ND		6.6	2.5	ug/L		05/04/22 08:47	05/10/22 02:04	1
1-Methylnaphthalene	ND		1.3	0.20	ug/L		05/04/22 08:47	05/10/22 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	49		27 - 110	05/04/22 08:47	05/10/22 02:04	1
Phenol-d5 (Surr)	28		20 - 110	05/04/22 08:47	05/10/22 02:04	1
Nitrobenzene-d5 (Surr)	67		36 - 120	05/04/22 08:47	05/10/22 02:04	1
2-Fluorobiphenyl	80		34 - 110	05/04/22 08:47	05/10/22 02:04	1
2,4,6-Tribromophenol (Surr)	98		40 - 145	05/04/22 08:47	05/10/22 02:04	1
Terphenyl-d14 (Surr)	99		40 - 145	05/04/22 08:47	05/10/22 02:04	1

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Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-197349-1	SUPE-W-12CR-042822	99	103	98	101
480-197349-2	SUPE-W-30C-042822	100	105	100	102
480-197349-3	SUPE-W-30A-042822	99	105	97	101
480-197349-5	SUPE-W-04AR2-042822	100	106	100	101
480-197349-6	SUPE-W-10AR2-042822	100	99	98	101
480-197349-7	SUPE-W-EB-02-042822	99	104	98	103
LCS 480-625069/5	Lab Control Sample	99	100	97	102
MB 480-625069/7	Method Blank	99	103	96	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (27-110)	PHL (20-110)	NBZ (36-120)	FBP (34-110)	TBP (40-145)	TPHL (40-145)
480-197349-1	SUPE-W-12CR-042822	43	35	54	63	115	81
480-197349-2	SUPE-W-30C-042822	45	25	58	69	96	95
480-197349-3	SUPE-W-30A-042822	44	27	56	69	96	90
480-197349-4	SUPE-W-18D-042822	42	24	57	65	100	131
480-197349-5	SUPE-W-04AR2-042822	45	29	63	76	120	95
480-197349-6	SUPE-W-10AR2-042822	63	43	75	88	96	92
480-197349-6 - DL	SUPE-W-10AR2-042822	20 S1-	21	55	55	57	77
480-197349-7	SUPE-W-EB-02-042822	49	28	67	80	98	99
LCS 500-654744/2-A	Lab Control Sample	65	56	65	75	114	98
LCSD 500-654744/3-A	Lab Control Sample Dup	71	57	66	77	120	81
MB 500-654744/1-A	Method Blank	55	36	62	81	94	95

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
 PHL = Phenol-d5 (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-197349-1	SUPE-W-12CR-042822	144	88	42	77	27	55 S1-
480-197349-2	SUPE-W-30C-042822	119	87	45	73	30	95
480-197349-3	SUPE-W-30A-042822	89	98	48	83	25	101
480-197349-4	SUPE-W-18D-042822	132	89	42	73	27	102

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Surrogate Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (24-146)	FBP (37-120)	2FP (10-120)	NBZ (26-120)	PHL (11-120)	TPHd14 (64-127)
480-197349-5	SUPE-W-04AR2-042822	126	96	45	76	25	95
480-197349-6	SUPE-W-10AR2-042822	122	92	45	79	26	100
480-197349-7	SUPE-W-EB-02-042822	104	98	45	80	29	106
LCS 480-624194/2-A	Lab Control Sample	156 S1+	98	48	81	32	113
MB 480-624194/1-A	Method Blank	113	88	42	72	27	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHd14 = p-Terphenyl-d14



QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-625069/7
Matrix: Water
Analysis Batch: 625069

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/08/22 11:27	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/08/22 11:27	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/08/22 11:27	1
Benzene	ND		1.0	0.41	ug/L			05/08/22 11:27	1
Chloromethane	ND		1.0	0.35	ug/L			05/08/22 11:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/08/22 11:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/08/22 11:27	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/08/22 11:27	1
Naphthalene	ND		1.0	0.43	ug/L			05/08/22 11:27	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/08/22 11:27	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/08/22 11:27	1
o-Xylene	ND		1.0	0.76	ug/L			05/08/22 11:27	1
Styrene	ND		1.0	0.73	ug/L			05/08/22 11:27	1
Toluene	ND		1.0	0.51	ug/L			05/08/22 11:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/08/22 11:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		05/08/22 11:27	1
4-Bromofluorobenzene (Surr)	103		73 - 120		05/08/22 11:27	1
Dibromofluoromethane (Surr)	96		75 - 123		05/08/22 11:27	1
Toluene-d8 (Surr)	101		80 - 120		05/08/22 11:27	1

Lab Sample ID: LCS 480-625069/5
Matrix: Water
Analysis Batch: 625069

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1-Trichloroethane	25.0	21.6		ug/L		87	73 - 126
1,2,4-Trimethylbenzene	25.0	22.5		ug/L		90	76 - 121
1,3,5-Trimethylbenzene	25.0	22.1		ug/L		88	77 - 121
Benzene	25.0	22.5		ug/L		90	71 - 124
Chloromethane	25.0	25.7		ug/L		103	68 - 124
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Methyl tert-butyl ether	25.0	22.1		ug/L		88	77 - 120
m-Xylene & p-Xylene	25.0	23.0		ug/L		92	76 - 122
Naphthalene	25.0	20.5		ug/L		82	66 - 125
n-Butylbenzene	25.0	21.9		ug/L		87	71 - 128
N-Propylbenzene	25.0	22.4		ug/L		90	75 - 127
o-Xylene	25.0	22.4		ug/L		90	76 - 122
Styrene	25.0	22.9		ug/L		92	80 - 120
Toluene	25.0	23.1		ug/L		92	80 - 122
Xylenes, Total	50.0	45.4		ug/L		91	76 - 122

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	102		80 - 120

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-654744/1-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654744

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	ND		1.6	0.19	ug/L		05/04/22 08:47	05/09/22 17:07	1
1,2-Dichlorobenzene	ND		1.6	0.20	ug/L		05/04/22 08:47	05/09/22 17:07	1
1,3-Dichlorobenzene	ND		1.6	0.17	ug/L		05/04/22 08:47	05/09/22 17:07	1
1,4-Dichlorobenzene	ND		1.6	0.17	ug/L		05/04/22 08:47	05/09/22 17:07	1
bis(chloroisopropyl) ether	ND		1.6	0.30	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,4,5-Trichlorophenol	ND		8.0	2.1	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,4,6-Trichlorophenol	ND		4.0	0.57	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,4-Dichlorophenol	ND		8.0	2.1	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,4-Dimethylphenol	ND		8.0	1.4	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,4-Dinitrophenol	ND		16	6.9	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,4-Dinitrotoluene	ND		0.80	0.20	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,6-Dinitrotoluene	ND		0.80	0.059	ug/L		05/04/22 08:47	05/09/22 17:07	1
2-Chloronaphthalene	ND		1.6	0.19	ug/L		05/04/22 08:47	05/09/22 17:07	1
2-Chlorophenol	ND		4.0	0.45	ug/L		05/04/22 08:47	05/09/22 17:07	1
2-Methylnaphthalene	ND		1.6	0.052	ug/L		05/04/22 08:47	05/09/22 17:07	1
2-Methylphenol	ND		1.6	0.24	ug/L		05/04/22 08:47	05/09/22 17:07	1
2-Nitroaniline	ND		4.0	1.0	ug/L		05/04/22 08:47	05/09/22 17:07	1
2-Nitrophenol	ND		8.0	2.0	ug/L		05/04/22 08:47	05/09/22 17:07	1
3 & 4 Methylphenol	ND		1.6	0.36	ug/L		05/04/22 08:47	05/09/22 17:07	1
3,3'-Dichlorobenzidine	ND		4.0	1.4	ug/L		05/04/22 08:47	05/09/22 17:07	1
3-Nitroaniline	ND		8.0	1.4	ug/L		05/04/22 08:47	05/09/22 17:07	1
4,6-Dinitro-2-methylphenol	ND		16	4.7	ug/L		05/04/22 08:47	05/09/22 17:07	1
4-Bromophenyl phenyl ether	ND		4.0	0.43	ug/L		05/04/22 08:47	05/09/22 17:07	1
4-Chloro-3-methylphenol	ND		8.0	1.8	ug/L		05/04/22 08:47	05/09/22 17:07	1
4-Chloroaniline	ND		8.0	1.6	ug/L		05/04/22 08:47	05/09/22 17:07	1
4-Chlorophenyl phenyl ether	ND		4.0	0.51	ug/L		05/04/22 08:47	05/09/22 17:07	1
4-Nitroaniline	ND		8.0	1.3	ug/L		05/04/22 08:47	05/09/22 17:07	1
4-Nitrophenol	ND		16	5.9	ug/L		05/04/22 08:47	05/09/22 17:07	1
Acenaphthene	ND		0.80	0.25	ug/L		05/04/22 08:47	05/09/22 17:07	1
Acenaphthylene	ND		0.80	0.21	ug/L		05/04/22 08:47	05/09/22 17:07	1
Anthracene	ND		0.80	0.27	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzo[a]anthracene	ND		0.16	0.045	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzo[a]pyrene	ND		0.16	0.079	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzo[b]fluoranthene	ND		0.16	0.065	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzo[g,h,i]perylene	ND		0.80	0.30	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzo[k]fluoranthene	ND		0.16	0.051	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzoic acid	ND		16	4.6	ug/L		05/04/22 08:47	05/09/22 17:07	1
Benzyl alcohol	ND		16	4.8	ug/L		05/04/22 08:47	05/09/22 17:07	1
Bis(2-chloroethoxy)methane	ND		1.6	0.23	ug/L		05/04/22 08:47	05/09/22 17:07	1
Bis(2-chloroethyl)ether	ND		1.6	0.23	ug/L		05/04/22 08:47	05/09/22 17:07	1
Bis(2-ethylhexyl) phthalate	ND		8.0	1.4	ug/L		05/04/22 08:47	05/09/22 17:07	1
Butyl benzyl phthalate	ND		1.6	0.38	ug/L		05/04/22 08:47	05/09/22 17:07	1
Chrysene	ND		0.16	0.055	ug/L		05/04/22 08:47	05/09/22 17:07	1
Dibenz(a,h)anthracene	ND		0.24	0.041	ug/L		05/04/22 08:47	05/09/22 17:07	1
Dibenzofuran	ND		1.6	0.21	ug/L		05/04/22 08:47	05/09/22 17:07	1
Diethyl phthalate	ND		4.0	0.29	ug/L		05/04/22 08:47	05/09/22 17:07	1
Dimethyl phthalate	ND		4.0	0.25	ug/L		05/04/22 08:47	05/09/22 17:07	1
Di-n-butyl phthalate	ND		4.0	0.58	ug/L		05/04/22 08:47	05/09/22 17:07	1

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-654744/1-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 654744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		8.0	0.84	ug/L		05/04/22 08:47	05/09/22 17:07	1
Fluoranthene	ND		0.80	0.36	ug/L		05/04/22 08:47	05/09/22 17:07	1
Fluorene	ND		0.80	0.20	ug/L		05/04/22 08:47	05/09/22 17:07	1
Hexachlorobenzene	ND		0.40	0.064	ug/L		05/04/22 08:47	05/09/22 17:07	1
Hexachlorobutadiene	ND		4.0	0.41	ug/L		05/04/22 08:47	05/09/22 17:07	1
Hexachlorocyclopentadiene	ND		16	5.1	ug/L		05/04/22 08:47	05/09/22 17:07	1
Hexachloroethane	ND		4.0	0.48	ug/L		05/04/22 08:47	05/09/22 17:07	1
Indeno[1,2,3-cd]pyrene	ND		0.16	0.060	ug/L		05/04/22 08:47	05/09/22 17:07	1
Isophorone	ND		1.6	0.30	ug/L		05/04/22 08:47	05/09/22 17:07	1
Naphthalene	ND		0.80	0.25	ug/L		05/04/22 08:47	05/09/22 17:07	1
Nitrobenzene	ND		0.80	0.36	ug/L		05/04/22 08:47	05/09/22 17:07	1
N-Nitrosodi-n-propylamine	ND		0.40	0.12	ug/L		05/04/22 08:47	05/09/22 17:07	1
N-Nitrosodiphenylamine	ND		1.6	0.30	ug/L		05/04/22 08:47	05/09/22 17:07	1
Phenanthrene	ND		0.80	0.24	ug/L		05/04/22 08:47	05/09/22 17:07	1
Phenol	ND		4.0	0.54	ug/L		05/04/22 08:47	05/09/22 17:07	1
Pyrene	ND		0.80	0.34	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,3,4,6-Tetrachlorophenol	ND		4.0	0.60	ug/L		05/04/22 08:47	05/09/22 17:07	1
2,3,5,6-Tetrachlorophenol	ND		8.0	3.1	ug/L		05/04/22 08:47	05/09/22 17:07	1
1-Methylnaphthalene	ND		1.6	0.24	ug/L		05/04/22 08:47	05/09/22 17:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	55		27 - 110	05/04/22 08:47	05/09/22 17:07	1
Phenol-d5 (Surr)	36		20 - 110	05/04/22 08:47	05/09/22 17:07	1
Nitrobenzene-d5 (Surr)	62		36 - 120	05/04/22 08:47	05/09/22 17:07	1
2-Fluorobiphenyl	81		34 - 110	05/04/22 08:47	05/09/22 17:07	1
2,4,6-Tribromophenol (Surr)	94		40 - 145	05/04/22 08:47	05/09/22 17:07	1
Terphenyl-d14 (Surr)	95		40 - 145	05/04/22 08:47	05/09/22 17:07	1

Lab Sample ID: LCS 500-654744/2-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	32.0	19.3		ug/L		60	26 - 110
1,2-Dichlorobenzene	32.0	18.5		ug/L		58	26 - 110
1,3-Dichlorobenzene	32.0	17.3		ug/L		54	22 - 110
1,4-Dichlorobenzene	32.0	17.4		ug/L		54	23 - 110
bis(chloroisopropyl) ether	32.0	17.7		ug/L		55	38 - 140
2,4,5-Trichlorophenol	32.0	28.0		ug/L		87	63 - 124
2,4,6-Trichlorophenol	32.0	26.8		ug/L		84	62 - 121
2,4-Dichlorophenol	32.0	28.1		ug/L		88	58 - 120
2,4-Dimethylphenol	32.0	21.7		ug/L		68	51 - 115
2,4-Dinitrophenol	64.0	56.0		ug/L		87	37 - 130
2,4-Dinitrotoluene	32.0	29.0		ug/L		91	63 - 129
2,6-Dinitrotoluene	32.0	28.2		ug/L		88	63 - 129
2-Chloronaphthalene	32.0	22.3		ug/L		70	39 - 110
2-Chlorophenol	32.0	23.9		ug/L		75	59 - 110
2-Methylnaphthalene	32.0	22.3		ug/L		70	34 - 110

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-654744/2-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylphenol	32.0	25.0		ug/L		78	53 - 115
2-Nitroaniline	32.0	22.7		ug/L		71	59 - 138
2-Nitrophenol	32.0	27.3		ug/L		85	59 - 115
3 & 4 Methylphenol	32.0	24.3		ug/L		76	50 - 116
3,3'-Dichlorobenzidine	32.0	31.9		ug/L		100	60 - 132
3-Nitroaniline	32.0	27.5		ug/L		86	47 - 123
4,6-Dinitro-2-methylphenol	64.0	56.6		ug/L		89	50 - 129
4-Bromophenyl phenyl ether	32.0	27.1		ug/L		85	58 - 120
4-Chloro-3-methylphenol	32.0	26.0		ug/L		81	64 - 128
4-Chloroaniline	32.0	26.6		ug/L		83	35 - 128
4-Chlorophenyl phenyl ether	32.0	24.3		ug/L		76	48 - 116
4-Nitroaniline	32.0	21.9		ug/L		69	35 - 110
4-Nitrophenol	64.0	28.0		ug/L		44	20 - 110
Acenaphthene	32.0	23.1		ug/L		72	46 - 110
Acenaphthylene	32.0	24.5		ug/L		77	47 - 113
Anthracene	32.0	27.8		ug/L		87	67 - 118
Benzo[a]anthracene	32.0	26.8		ug/L		84	70 - 126
Benzo[a]pyrene	32.0	28.6		ug/L		89	70 - 135
Benzo[b]fluoranthene	32.0	27.3		ug/L		85	69 - 136
Benzo[g,h,i]perylene	32.0	28.0		ug/L		88	70 - 135
Benzo[k]fluoranthene	32.0	28.2		ug/L		88	70 - 133
Benzoic acid	64.0	39.8		ug/L		62	10 - 112
Benzyl alcohol	32.0	24.7		ug/L		77	46 - 132
Bis(2-chloroethoxy)methane	32.0	24.5		ug/L		76	59 - 118
Bis(2-chloroethyl)ether	32.0	23.0		ug/L		72	54 - 112
Bis(2-ethylhexyl) phthalate	32.0	25.4		ug/L		79	69 - 136
Butyl benzyl phthalate	32.0	24.2		ug/L		76	68 - 135
Chrysene	32.0	28.0		ug/L		87	68 - 129
Dibenz(a,h)anthracene	32.0	28.5		ug/L		89	70 - 134
Dibenzofuran	32.0	25.1		ug/L		78	51 - 110
Diethyl phthalate	32.0	25.5		ug/L		80	62 - 123
Dimethyl phthalate	32.0	27.1		ug/L		85	63 - 122
Di-n-butyl phthalate	32.0	27.5		ug/L		86	69 - 129
Di-n-octyl phthalate	32.0	29.8		ug/L		93	68 - 137
Fluoranthene	32.0	29.6		ug/L		93	68 - 126
Fluorene	32.0	24.4		ug/L		76	53 - 120
Hexachlorobenzene	32.0	30.3		ug/L		95	61 - 126
Hexachlorobutadiene	32.0	16.3		ug/L		51	20 - 100
Hexachlorocyclopentadiene	32.0	12.1	J	ug/L		38	10 - 105
Hexachloroethane	32.0	14.0		ug/L		44	20 - 100
Indeno[1,2,3-cd]pyrene	32.0	27.9		ug/L		87	65 - 133
Isophorone	32.0	23.3		ug/L		73	54 - 127
Naphthalene	32.0	22.1		ug/L		69	36 - 110
Nitrobenzene	32.0	21.2		ug/L		66	54 - 121
N-Nitrosodi-n-propylamine	32.0	22.9		ug/L		71	47 - 131
N-Nitrosodiphenylamine	32.0	27.0		ug/L		84	66 - 120
Phenanthrene	32.0	27.0		ug/L		84	65 - 120
Phenol	32.0	17.0		ug/L		53	33 - 100
Pyrene	32.0	27.0		ug/L		84	70 - 126

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-654744/2-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 654744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,4,6-Tetrachlorophenol	32.0	29.9		ug/L		94	44 - 128
1-Methylnaphthalene	32.0	22.3		ug/L		70	38 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	65		27 - 110
Phenol-d5 (Surr)	56		20 - 110
Nitrobenzene-d5 (Surr)	65		36 - 120
2-Fluorobiphenyl	75		34 - 110
2,4,6-Tribromophenol (Surr)	114		40 - 145
Terphenyl-d14 (Surr)	98		40 - 145

Lab Sample ID: LCSD 500-654744/3-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 654744

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	32.0	20.1		ug/L		63	26 - 110	4	20
1,2-Dichlorobenzene	32.0	19.1		ug/L		60	26 - 110	3	20
1,3-Dichlorobenzene	32.0	18.2		ug/L		57	22 - 110	5	20
1,4-Dichlorobenzene	32.0	18.6		ug/L		58	23 - 110	7	20
bis(chloroisopropyl) ether	32.0	18.3		ug/L		57	38 - 140	3	20
2,4,5-Trichlorophenol	32.0	29.1		ug/L		91	63 - 124	4	20
2,4,6-Trichlorophenol	32.0	28.5		ug/L		89	62 - 121	6	20
2,4-Dichlorophenol	32.0	30.2		ug/L		94	58 - 120	7	20
2,4-Dimethylphenol	32.0	25.9		ug/L		81	51 - 115	18	20
2,4-Dinitrophenol	64.0	60.4		ug/L		94	37 - 130	8	20
2,4-Dinitrotoluene	32.0	31.0		ug/L		97	63 - 129	7	20
2,6-Dinitrotoluene	32.0	29.9		ug/L		94	63 - 129	6	20
2-Chloronaphthalene	32.0	22.9		ug/L		71	39 - 110	3	20
2-Chlorophenol	32.0	25.8		ug/L		81	59 - 110	8	20
2-Methylnaphthalene	32.0	22.6		ug/L		71	34 - 110	1	20
2-Methylphenol	32.0	26.9		ug/L		84	53 - 115	7	20
2-Nitroaniline	32.0	23.7		ug/L		74	59 - 138	4	20
2-Nitrophenol	32.0	28.5		ug/L		89	59 - 115	4	20
3 & 4 Methylphenol	32.0	25.6		ug/L		80	50 - 116	6	20
3,3'-Dichlorobenzidine	32.0	34.2		ug/L		107	60 - 132	7	20
3-Nitroaniline	32.0	28.2		ug/L		88	47 - 123	3	20
4,6-Dinitro-2-methylphenol	64.0	56.1		ug/L		88	50 - 129	1	20
4-Bromophenyl phenyl ether	32.0	30.9		ug/L		97	58 - 120	13	20
4-Chloro-3-methylphenol	32.0	27.8		ug/L		87	64 - 128	7	20
4-Chloroaniline	32.0	26.8		ug/L		84	35 - 128	1	20
4-Chlorophenyl phenyl ether	32.0	25.8		ug/L		81	48 - 116	6	20
4-Nitroaniline	32.0	23.9		ug/L		75	35 - 110	8	20
4-Nitrophenol	64.0	29.4		ug/L		46	20 - 110	5	20
Acenaphthene	32.0	24.4		ug/L		76	46 - 110	5	20
Acenaphthylene	32.0	26.2		ug/L		82	47 - 113	7	20
Anthracene	32.0	27.4		ug/L		86	67 - 118	1	20
Benzo[a]anthracene	32.0	28.7		ug/L		90	70 - 126	7	20

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QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-654744/3-A
Matrix: Water
Analysis Batch: 655604

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 654744

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Benzo[a]pyrene	32.0	29.9		ug/L		94	70 - 135	5	20	
Benzo[b]fluoranthene	32.0	29.5		ug/L		92	69 - 136	8	20	
Benzo[g,h,i]perylene	32.0	29.6		ug/L		92	70 - 135	5	20	
Benzo[k]fluoranthene	32.0	28.5		ug/L		89	70 - 133	1	20	
Benzoic acid	64.0	43.7		ug/L		68	10 - 112	9	20	
Benzyl alcohol	32.0	25.8		ug/L		80	46 - 132	4	20	
Bis(2-chloroethoxy)methane	32.0	25.8		ug/L		81	59 - 118	5	20	
Bis(2-chloroethyl)ether	32.0	24.0		ug/L		75	54 - 112	4	20	
Bis(2-ethylhexyl) phthalate	32.0	26.5		ug/L		83	69 - 136	5	20	
Butyl benzyl phthalate	32.0	21.2	*	ug/L		66	68 - 135	13	20	
Chrysene	32.0	29.3		ug/L		92	68 - 129	5	20	
Dibenz(a,h)anthracene	32.0	29.3		ug/L		92	70 - 134	3	20	
Dibenzofuran	32.0	26.1		ug/L		82	51 - 110	4	20	
Diethyl phthalate	32.0	27.4		ug/L		86	62 - 123	7	20	
Dimethyl phthalate	32.0	28.6		ug/L		89	63 - 122	5	20	
Di-n-butyl phthalate	32.0	27.0		ug/L		84	69 - 129	2	20	
Di-n-octyl phthalate	32.0	29.7		ug/L		93	68 - 137	1	20	
Fluoranthene	32.0	29.2		ug/L		91	68 - 126	2	20	
Fluorene	32.0	25.9		ug/L		81	53 - 120	6	20	
Hexachlorobenzene	32.0	34.9		ug/L		109	61 - 126	14	20	
Hexachlorobutadiene	32.0	16.2		ug/L		51	20 - 100	1	20	
Hexachlorocyclopentadiene	32.0	13.0	J	ug/L		41	10 - 105	7	20	
Hexachloroethane	32.0	14.1		ug/L		44	20 - 100	1	20	
Indeno[1,2,3-cd]pyrene	32.0	28.9		ug/L		90	65 - 133	4	20	
Isophorone	32.0	24.6		ug/L		77	54 - 127	5	20	
Naphthalene	32.0	23.0		ug/L		72	36 - 110	4	20	
Nitrobenzene	32.0	21.9		ug/L		68	54 - 121	3	20	
N-Nitrosodi-n-propylamine	32.0	24.2		ug/L		76	47 - 131	6	20	
N-Nitrosodiphenylamine	32.0	26.4		ug/L		82	66 - 120	2	20	
Phenanthrene	32.0	26.6		ug/L		83	65 - 120	1	20	
Phenol	32.0	17.9		ug/L		56	33 - 100	5	20	
Pyrene	32.0	23.5		ug/L		73	70 - 126	14	20	
2,3,4,6-Tetrachlorophenol	32.0	30.8		ug/L		96	44 - 128	3	20	
1-Methylnaphthalene	32.0	23.0		ug/L		72	38 - 110	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	71		27 - 110
Phenol-d5 (Surr)	57		20 - 110
Nitrobenzene-d5 (Surr)	66		36 - 120
2-Fluorobiphenyl	77		34 - 110
2,4,6-Tribromophenol (Surr)	120		40 - 145
Terphenyl-d14 (Surr)	81		40 - 145

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 480-624194/1-A
Matrix: Water
Analysis Batch: 624252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/02/22 15:33	05/03/22 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	113		24 - 146				05/02/22 15:33	05/03/22 12:19	1
2-Fluorobiphenyl	88		37 - 120				05/02/22 15:33	05/03/22 12:19	1
2-Fluorophenol (Surr)	42		10 - 120				05/02/22 15:33	05/03/22 12:19	1
Nitrobenzene-d5 (Surr)	72		26 - 120				05/02/22 15:33	05/03/22 12:19	1
Phenol-d5 (Surr)	27		11 - 120				05/02/22 15:33	05/03/22 12:19	1
p-Terphenyl-d14	98		64 - 127				05/02/22 15:33	05/03/22 12:19	1

Lab Sample ID: LCS 480-624194/2-A
Matrix: Water
Analysis Batch: 624252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624194

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	16.0	17.2		ug/L		108	10 - 131
Surrogate	%Recovery	Qualifier	Limits				
2,4,6-Tribromophenol (Surr)	156	S1+	24 - 146				
2-Fluorobiphenyl	98		37 - 120				
2-Fluorophenol (Surr)	48		10 - 120				
Nitrobenzene-d5 (Surr)	81		26 - 120				
Phenol-d5 (Surr)	32		11 - 120				
p-Terphenyl-d14	113		64 - 127				

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

GC/MS VOA

Analysis Batch: 625069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	8260C	
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	8260C	
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	8260C	
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	8260C	
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	8260C	
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	8260C	
MB 480-625069/7	Method Blank	Total/NA	Water	8260C	
LCS 480-625069/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 624194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	3510C	
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	3510C	
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	3510C	
480-197349-4	SUPE-W-18D-042822	Total/NA	Water	3510C	
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	3510C	
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	3510C	
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	3510C	
MB 480-624194/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-624194/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 624252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	8270D LL	624194
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	8270D LL	624194
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	8270D LL	624194
480-197349-4	SUPE-W-18D-042822	Total/NA	Water	8270D LL	624194
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	8270D LL	624194
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	8270D LL	624194
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	8270D LL	624194
MB 480-624194/1-A	Method Blank	Total/NA	Water	8270D LL	624194
LCS 480-624194/2-A	Lab Control Sample	Total/NA	Water	8270D LL	624194

Prep Batch: 654744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	3510C	
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	3510C	
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	3510C	
480-197349-4	SUPE-W-18D-042822	Total/NA	Water	3510C	
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	3510C	
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	3510C	
480-197349-6 - DL	SUPE-W-10AR2-042822	Total/NA	Water	3510C	
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	3510C	
MB 500-654744/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-654744/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-654744/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

GC/MS Semi VOA

Analysis Batch: 655604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	8270D	654744
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	8270D	654744
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	8270D	654744
480-197349-4	SUPE-W-18D-042822	Total/NA	Water	8270D	654744
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	8270D	654744
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	8270D	654744
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	8270D	654744
MB 500-654744/1-A	Method Blank	Total/NA	Water	8270D	654744
LCS 500-654744/2-A	Lab Control Sample	Total/NA	Water	8270D	654744
LCSD 500-654744/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	654744

Analysis Batch: 656186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-6 - DL	SUPE-W-10AR2-042822	Total/NA	Water	8270D	654744

Lab Chronicle

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Date Collected: 04/28/22 08:28

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	625069	05/08/22 13:08	CRL	TAL BUF
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/09/22 23:38	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 16:55	PJQ	TAL BUF

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	625069	05/08/22 13:30	CRL	TAL BUF
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/10/22 00:02	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 17:23	PJQ	TAL BUF

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	625069	05/08/22 13:52	CRL	TAL BUF
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/10/22 00:26	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		10	624252	05/03/22 17:50	PJQ	TAL BUF

Client Sample ID: SUPE-W-18D-042822

Lab Sample ID: 480-197349-4

Date Collected: 04/28/22 08:29

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/10/22 00:51	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 18:18	PJQ	TAL BUF

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	625069	05/08/22 14:14	CRL	TAL BUF

Lab Chronicle

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/10/22 01:15	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		5	624252	05/03/22 18:46	PJQ	TAL BUF

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	625069	05/08/22 14:37	CRL	TAL BUF
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/10/22 01:40	SS	TAL CHI
Total/NA	Prep	3510C	DL		654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D	DL	5	656186	05/12/22 11:38	JSB	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		5	624252	05/03/22 19:14	PJQ	TAL BUF

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	625069	05/08/22 14:59	CRL	TAL BUF
Total/NA	Prep	3510C			654744	05/04/22 08:47	TS	TAL CHI
Total/NA	Analysis	8270D		1	655604	05/10/22 02:04	SS	TAL CHI
Total/NA	Prep	3510C			624194	05/02/22 15:33	CMC	TAL BUF
Total/NA	Analysis	8270D LL		1	624252	05/03/22 19:41	PJQ	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-22

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8270D	3510C	Water	2,3,5,6-Tetrachlorophenol

Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-197349-1	SUPE-W-12CR-042822	Water	04/28/22 08:28	04/29/22 10:00
480-197349-2	SUPE-W-30C-042822	Water	04/28/22 11:47	04/29/22 10:00
480-197349-3	SUPE-W-30A-042822	Water	04/28/22 13:51	04/29/22 10:00
480-197349-4	SUPE-W-18D-042822	Water	04/28/22 08:29	04/29/22 10:00
480-197349-5	SUPE-W-04AR2-042822	Water	04/28/22 12:11	04/29/22 10:00
480-197349-6	SUPE-W-10AR2-042822	Water	04/28/22 14:00	04/29/22 10:00
480-197349-7	SUPE-W-EB-02-042822	Water	04/28/22 15:00	04/29/22 10:00

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CHAIN OF CUSTODY REQUEST FORM

REF.# 3020010



TestAmerica Duluth SC 269

Ref 210311

Project Name: Superior, WI - 2022 OM&M Program
 Project Number: OM-0556-22
 Laboratory: TACHI
 Shipment Method: FEDEX
 Program: Superior 2022 1SA Sampling_001

Company: Field & Technical Services
 Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
 Contact: tlowe.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Total Bottle Count		Notes:
						8270D_SVOC (less naphtha) (Chicago)	None	
04/28/2022	0828	GW	SUPE-W-12CR-042822			2		
04/28/2022	1147	GW	SUPE-W-30C-042822			2		
04/28/2022	1351	GW	SUPE-W-30A-042822			2		



480-197349 Chain of Custody

Temp 2.0 1.1 2.2 1.4 #1 ICE

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>[Signature]</i> Printed Name: Trevor Lowe Firm: FTS Date/Time: 5/19/2022	Signature: <i>[Signature]</i> Printed Name: <i>[Signature]</i> Firm: TA Date/Time: 4/29/22 1000	Signature: Printed Name: Firm: Date/Time:	Signature: <i>[Signature]</i> Printed Name: <i>[Signature]</i> Firm: TA Date/Time: 4/29/22 1000	<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard

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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Lab PM: Brown, Shali		Carrier Tracking No(s): 480-71769-1	
Client Contact: Shipping/Receiving		Phone: E-Mail: Shali.Brown@et.eurofins.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 5815 Middlebrook Pike, Knoxville TN, 37921		Job #: 480-197349-1	
Address: 5815 Middlebrook Pike, Knoxville TN, 37921		Phone: 865-291-3000 (Tel) 865-584-4315 (Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Due Date Requested: 5/19/2022		TAT Requested (days):		Analysis Requested	
PO #:		WO #:		Field Filtered Sample (Yes or No)	
Project #: 18015916		SSOW#:		Perform MS/MSD (Yes or No)	
Site: Superior, WI Semiannual Groundwater		Sample Date		Sample Time	
Sample Identification - Client ID (Lab ID)		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Oil, etc.)	
SUPE-W-12CR-042822 (480-197349-1)		08:28 Central		Water	
SUPE-W-30C-042822 (480-197349-2)		11:47 Central		Water	
SUPE-W-30A-042822 (480-197349-3)		13:51 Central		Water	
SUPE-W-04AR2-042822 (480-197349-5)		12:11 Central		Water	
SUPE-W-10AR2-042822 (480-197349-6)		14:00 Central		Water	
SUPE-W-EB-02-042822 (480-197349-7)		15:00 Central		Water	
480-197349 Chain of Custody		Special Instructions/Note:		Total Number of Containers	
SUPE-W-12CR-042822 (480-197349-1)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-30C-042822 (480-197349-2)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-30A-042822 (480-197349-3)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-04AR2-042822 (480-197349-5)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-10AR2-042822 (480-197349-6)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-EB-02-042822 (480-197349-7)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
480-197349 Chain of Custody		Special Instructions/Note:		Total Number of Containers	
SUPE-W-12CR-042822 (480-197349-1)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-30C-042822 (480-197349-2)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-30A-042822 (480-197349-3)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-04AR2-042822 (480-197349-5)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-10AR2-042822 (480-197349-6)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-EB-02-042822 (480-197349-7)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
480-197349 Chain of Custody		Special Instructions/Note:		Total Number of Containers	
SUPE-W-12CR-042822 (480-197349-1)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-30C-042822 (480-197349-2)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-30A-042822 (480-197349-3)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-04AR2-042822 (480-197349-5)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-10AR2-042822 (480-197349-6)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	
SUPE-W-EB-02-042822 (480-197349-7)		Refer to PT-PM-WI-006 for Wisconsin Protocol		1	



Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) _____
Primary Deliverable Rank: 2
Empty Kit Relinquished by: _____ Date: _____
Relinquished by: _____ Date/Time: 5-2-22 1700
Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____
Custody Seal Intact: Yes No
Custody Seal No.: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
Special Instructions/QC Requirements: _____
Method of Shipment: _____
Received by: _____ Date/Time: 05.03.22 9:30
Received by: _____ Date/Time: _____
Received by: _____ Date/Time: _____
Cooler Temperature(s) °C and Other Remarks: _____

EUROFINS/TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	✓				
2. Were ambient air containers received intact?			✓	Containers, Broken	
3. The coolers/containers custody seal if present, is it intact?	✓			Checked in lab Yes NA	
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID: 5C-71 Correction factor: +0.05°C	✓			Cooler Out of Temp, Client Contacted, Proceed/Cancel Cooler Out of Temp, Same Day Receipt	
5. Were all of the sample containers received intact?	✓			Containers, Broken	
6. Were samples received in appropriate containers?	✓			Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	✓			COC & Samples Do Not Match COC Incorrect/Incomplete COC Not Received	
8. Were all of the samples listed on the COC received?	✓			Sample Received, Not on COC Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	✓			COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?			✓	Sampler Not Listed on COC	
11. Is the client and project name/# identified?	✓			COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	✓			COC No tests on COC	
13. Is the matrix of the samples noted?	✓			COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			COC Incorrect/Incomplete	
15. Were samples received within holding time?	✓			Holding Time - Receipt	
16. Were samples received with correct chemical preservative (excluding Encore)?			✓	pH Adjusted, pH Included (See box 16A) Incorrect Preservative	
17. Were VOA samples received without headspace?			✓	Headspace (VOA only) Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:			✓		
19. For 1613B water samples is pH<9?			✓	If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			✓	Project missing info	
Project #: 18015916 PM Instructions:					
Sample Receiving Associate: <i>[Signature]</i> Date: 05.03.22					
QA026R32.doc, 062719					



Eurofins Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone 716-691-2600 Fax 716-691-7991

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM Brown Shali		Carrier Tracking No(s)	COC No 480-71761 1			
Client Contact: Shipping/Receiving		Phone	E-Mail Shali Brown@et.eurofins.com		State of Origin: Wisconsin	Page Page 1 of 1			
Company Eurofins Environment Testing North Centr		Accreditations Required (See note) State Program - Wisconsin				Job #: 480-197349-1			
Address 2417 Bond Street		Due Date Requested 5/19/2022		Analysis Requested				Preservation Codes	
City University Park		TAT Requested (days)							
State/Zip IL 60484		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Semivolatiles, project list with n	
Phone: 708-534-5200(Tel) 708-534-5211(Fax)		WO #:							
Email:		Project #: 18015916		Total Number of containers		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)		Other	
Project Name: Superior WI Semiannual Groundwater		SSOW#:							
Site									
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:		Special Instructions/Note	
SUPE-W-12CR-042822 (480-197349-1)		4/28/22	08 28 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30C-042822 (480-197349-2)		4/28/22	11 47 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30A-042822 (480-197349-3)		4/28/22	13 51 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-18D-042822 (480-197349-4)		4/28/22	08 29 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-042822 (480-197349-5)		4/28/22	12 11 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-10AR2-042822 (480-197349-6)		4/28/22	14 00 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-EB-02-042822 (480-197349-7)		4/28/22	15 00 Central	Water	Water	X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol
<p>Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Northeast, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northeast, LLC.</p>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)			Primary Deliverable Rank 2		Special Instructions/QC Requirements				
Empty Kit Relinquished by		Date	Time		Method of Shipment:				
Relinquished by: <i>yes</i>		Date/Time: 5-2-22 1700	Company: TAB		Received by: <i>Shali Brown</i>		Date/Time: 5/3/22 1035	Company: <i>EBTA</i>	
Relinquished by:		Date/Time:	Company:		Received by:		Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:		Received by:		Date/Time:	Company:	
Custody Seals Intact. Δ Yes Δ No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks: 11.3 → 0.4				

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-197349-1

Login Number: 197349

List Number: 1

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-197349-1

Login Number: 197349

List Number: 3

Creator: Scott, Sherri L

List Source: Eurofins Chicago

List Creation: 05/03/22 05:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ANALYTICAL REPORT

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-197349-2

Client Project/Site: Superior, WI Semiannual Groundwater

For:

Field & Technical Services LLC
200 Third Avenue
Carnegie, Pennsylvania 15106

Attn: Ms. Angie Gatchie



Authorized for release by:
5/27/2022 6:17:03 PM

Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@et.eurofinsus.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
Isotope Dilution Summary	14
QC Sample Results	15
QC Association Summary	17
Lab Chronicle	18
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23



Definitions/Glossary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S	Ion suppression

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Job ID: 480-197349-2

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-197349-2

Comments

No additional comments.

Receipt

The samples were received on 4/29/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.0° C, 1.4° C, 2.0° C and 2.2° C.

Dioxin

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Methods 1668_Sep_2L, 3540C, 8290, HRMS-Sepf, HRMS-Sox, Split: The following samples went through Gel-Permeation Cleanup procedure, based on EPA method 3640A: .SUPE-W-12CR-042822

Method 8290: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 140-61532. The method required MS/MSD were not performed due to insufficient sample received. As a result, the data may be rejected by the WDNR.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Detection Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total PeCDD	1.3	J I B	50	0.78	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.1	J B	50	0.30	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	1.4	J I B	50	0.32	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.2	J B	50	0.29	pg/L	1		8290A	Total/NA
Total HxCDD	13	J I B	50	0.31	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	42	J	50	2.2	pg/L	1		8290A	Total/NA
Total HpCDD	140		50	2.2	pg/L	1		8290A	Total/NA
OCDD	420	B	99	0.39	pg/L	1		8290A	Total/NA
Total TCDF	2.9	J I	9.9	0.24	pg/L	1		8290A	Total/NA
Total PeCDF	5.5	J I	50	0.47	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	2.4	J I	50	0.40	pg/L	1		8290A	Total/NA
Total HxCDF	28	J I	50	0.40	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	6.9	J B	50	0.32	pg/L	1		8290A	Total/NA
Total HpCDF	24	J B	50	0.37	pg/L	1		8290A	Total/NA
OCDF	14	J B	99	0.19	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	1.4	J I B	49	0.19	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.55	J I B	49	0.20	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.80	J S B	49	0.18	pg/L	1		8290A	Total/NA
Total HxCDD	6.9	J I S B	49	0.19	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	7.8	J	49	0.48	pg/L	1		8290A	Total/NA
Total HpCDD	33	J	49	0.48	pg/L	1		8290A	Total/NA
OCDD	76	J B	97	0.28	pg/L	1		8290A	Total/NA
Total TCDF	1.5	J	9.7	0.25	pg/L	1		8290A	Total/NA
Total PeCDF	0.50	J I	49	0.23	pg/L	1		8290A	Total/NA
Total HxCDF	1.3	J I	49	0.35	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.5	J I B	49	0.31	pg/L	1		8290A	Total/NA
Total HpCDF	4.0	J I B	49	0.37	pg/L	1		8290A	Total/NA
OCDF	4.2	J B	97	0.22	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	0.68	J I	49	0.35	pg/L	1		8290A	Total/NA
Total PeCDD	1.8	J I B	49	0.35	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	3.8	J B	49	0.26	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	23	J B	49	0.26	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	5.4	J S B	49	0.25	pg/L	1		8290A	Total/NA
Total HxCDD	100	I S B	49	0.26	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	670		49	2.3	pg/L	1		8290A	Total/NA
Total HpCDD	1500		49	2.3	pg/L	1		8290A	Total/NA
OCDD	9200	B	97	0.24	pg/L	1		8290A	Total/NA
Total TCDF	76	I	9.7	0.33	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDF	2.0	J I	49	0.33	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	3.7	J	49	0.34	pg/L	1		8290A	Total/NA
Total PeCDF	310	I	49	0.34	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	28	J	49	4.8	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	44	J I	49	5.1	pg/L	1		8290A	Total/NA
Total HxCDF	870	I S	49	5.7	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-30A-042822 (Continued)

Lab Sample ID: 480-197349-3

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	220	B	49	1.3	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	23	J B	49	1.9	pg/L	1		8290A	Total/NA
Total HpCDF	950	B	49	1.6	pg/L	1		8290A	Total/NA
OCDF	660	B	97	0.13	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8-PeCDD	1.1	J I	49	0.15	pg/L	1		8290A	Total/NA
Total PeCDD	2.3	J I B	49	0.15	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	3.2	J B	49	0.15	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	3.1	J B	49	0.16	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	3.6	J B	49	0.15	pg/L	1		8290A	Total/NA
Total HxCDD	31	J I B	49	0.15	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	52		49	1.5	pg/L	1		8290A	Total/NA
Total HpCDD	270		49	1.5	pg/L	1		8290A	Total/NA
OCDD	480	B	97	0.29	pg/L	1		8290A	Total/NA
Total TCDF	2.3	J I	9.7	0.23	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDF	0.90	J	49	0.42	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	0.65	J	49	0.39	pg/L	1		8290A	Total/NA
Total PeCDF	6.7	J I	49	0.41	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	2.2	J	49	0.33	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	2.5	J I	49	0.35	pg/L	1		8290A	Total/NA
2,3,4,6,7,8-HxCDF	1.9	J	49	0.36	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDF	1.9	J	49	0.43	pg/L	1		8290A	Total/NA
Total HxCDF	29	J I	49	0.37	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	8.0	J B	49	0.19	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	2.9	J B	49	0.28	pg/L	1		8290A	Total/NA
Total HpCDF	26	J B	49	0.24	pg/L	1		8290A	Total/NA
OCDF	21	J B	97	0.91	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total TCDD	0.51	J I	9.9	0.32	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.5	J I B	50	0.15	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	1.1	J B	50	0.15	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.7	J S B	50	0.14	pg/L	1		8290A	Total/NA
Total HxCDD	11	J I S B	50	0.15	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	23	J	50	0.78	pg/L	1		8290A	Total/NA
Total HpCDD	88		50	0.78	pg/L	1		8290A	Total/NA
OCDD	210	B	99	0.20	pg/L	1		8290A	Total/NA
Total TCDF	8.3	J I	9.9	0.21	pg/L	1		8290A	Total/NA
Total PeCDF	7.7	J I	50	0.30	pg/L	1		8290A	Total/NA
Total HxCDF	14	J I	50	0.54	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	3.8	J I B	50	0.40	pg/L	1		8290A	Total/NA
Total HpCDF	13	J I B	50	0.48	pg/L	1		8290A	Total/NA
OCDF	13	J B	99	1.1	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
Total PeCDD	0.92	J B	47	0.22	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.87	J B	47	0.16	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.39	J S B	47	0.16	pg/L	1		8290A	Total/NA
Total HxCDD	2.9	J S B	47	0.16	pg/L	1		8290A	Total/NA
OCDD	3.9	J B	95	0.22	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.47	J B	47	0.20	pg/L	1		8290A	Total/NA
Total HpCDF	0.47	J B	47	0.24	pg/L	1		8290A	Total/NA
OCDF	0.91	J B	95	0.080	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Date Collected: 04/28/22 08:28

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.9	0.35	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total TCDD	ND		9.9	0.35	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,7,8-PeCDD	ND		50	0.78	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total PeCDD	1.3	J I B	50	0.78	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,4,7,8-HxCDD	1.1	J B	50	0.30	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,6,7,8-HxCDD	1.4	J I B	50	0.32	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,7,8,9-HxCDD	1.2	J B	50	0.29	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total HxCDD	13	J I B	50	0.31	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,4,6,7,8-HpCDD	42	J	50	2.2	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total HpCDD	140		50	2.2	pg/L		05/10/22 09:09	05/25/22 03:22	1
OCDD	420	B	99	0.39	pg/L		05/10/22 09:09	05/25/22 03:22	1
2,3,7,8-TCDF	ND		9.9	0.24	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total TCDF	2.9	J I	9.9	0.24	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,7,8-PeCDF	ND		50	0.48	pg/L		05/10/22 09:09	05/25/22 03:22	1
2,3,4,7,8-PeCDF	ND		50	0.47	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total PeCDF	5.5	J I	50	0.47	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,4,7,8-HxCDF	ND		50	0.36	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,6,7,8-HxCDF	2.4	J I	50	0.40	pg/L		05/10/22 09:09	05/25/22 03:22	1
2,3,4,6,7,8-HxCDF	ND		50	0.39	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,7,8,9-HxCDF	ND		50	0.47	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total HxCDF	28	J I	50	0.40	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,4,6,7,8-HpCDF	6.9	J B	50	0.32	pg/L		05/10/22 09:09	05/25/22 03:22	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.42	pg/L		05/10/22 09:09	05/25/22 03:22	1
Total HpCDF	24	J B	50	0.37	pg/L		05/10/22 09:09	05/25/22 03:22	1
OCDF	14	J B	99	0.19	pg/L		05/10/22 09:09	05/25/22 03:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	72		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,7,8-PeCDD	86		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,4,7,8-HxCDD	75		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,6,7,8-HxCDD	74		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-OCDD	56		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-2,3,7,8-TCDF	73		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,7,8-PeCDF	85		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-2,3,4,7,8-PeCDF	80		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,4,7,8-HxCDF	77		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,6,7,8-HxCDF	67		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-2,3,4,6,7,8-HxCDF	74		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,7,8,9-HxCDF	77		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,4,6,7,8-HpCDF	68		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-1,2,3,4,7,8,9-HpCDF	74		40 - 135	05/10/22 09:09	05/25/22 03:22	1
13C-OCDF	58		40 - 135	05/10/22 09:09	05/25/22 03:22	1

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.33	pg/L		05/10/22 09:09	05/26/22 02:59	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TCDD	ND		9.7	0.33	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,7,8-PeCDD	ND		49	0.19	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total PeCDD	ND		49	0.19	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,4,7,8-HxCDD	1.4	J I B	49	0.19	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,6,7,8-HxCDD	0.55	J I B	49	0.20	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,7,8,9-HxCDD	0.80	J S B	49	0.18	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total HxCDD	6.9	J I S B	49	0.19	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,4,6,7,8-HpCDD	7.8	J	49	0.48	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total HpCDD	33	J	49	0.48	pg/L		05/10/22 09:09	05/26/22 02:59	1
OCDD	76	J B	97	0.28	pg/L		05/10/22 09:09	05/26/22 02:59	1
2,3,7,8-TCDF	ND		9.7	0.25	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total TCDF	1.5	J	9.7	0.25	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,7,8-PeCDF	ND		49	0.24	pg/L		05/10/22 09:09	05/26/22 02:59	1
2,3,4,7,8-PeCDF	ND		49	0.23	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total PeCDF	0.50	J I	49	0.23	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,4,7,8-HxCDF	ND		49	0.31	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,6,7,8-HxCDF	ND		49	0.34	pg/L		05/10/22 09:09	05/26/22 02:59	1
2,3,4,6,7,8-HxCDF	ND		49	0.35	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,7,8,9-HxCDF	ND		49	0.40	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total HxCDF	1.3	J I	49	0.35	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,4,6,7,8-HpCDF	1.5	J I B	49	0.31	pg/L		05/10/22 09:09	05/26/22 02:59	1
1,2,3,4,7,8,9-HpCDF	ND		49	0.44	pg/L		05/10/22 09:09	05/26/22 02:59	1
Total HpCDF	4.0	J I B	49	0.37	pg/L		05/10/22 09:09	05/26/22 02:59	1
OCDF	4.2	J B	97	0.22	pg/L		05/10/22 09:09	05/26/22 02:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	81		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,7,8-PeCDD	110		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,4,7,8-HxCDD	91		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,6,7,8-HxCDD	95		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,4,6,7,8-HpCDD	107		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-OCDD	84		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-2,3,7,8-TCDF	81		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,7,8-PeCDF	104		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-2,3,4,7,8-PeCDF	96		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,4,7,8-HxCDF	102		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,6,7,8-HxCDF	86		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-2,3,4,6,7,8-HxCDF	99		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,7,8,9-HxCDF	99		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,4,6,7,8-HpCDF	96		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-1,2,3,4,7,8,9-HpCDF	104		40 - 135	05/10/22 09:09	05/26/22 02:59	1
13C-OCDF	88		40 - 135	05/10/22 09:09	05/26/22 02:59	1

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.45	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total TCDD	ND		9.7	0.45	pg/L		05/10/22 09:09	05/25/22 05:23	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8-PeCDD	0.68	J I	49	0.35	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total PeCDD	1.8	J I B	49	0.35	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,4,7,8-HxCDD	3.8	J B	49	0.26	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,6,7,8-HxCDD	23	J B	49	0.26	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,7,8,9-HxCDD	5.4	J S B	49	0.25	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total HxCDD	100	I S B	49	0.26	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,4,6,7,8-HpCDD	670		49	2.3	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total HpCDD	1500		49	2.3	pg/L		05/10/22 09:09	05/25/22 05:23	1
OCDD	9200	B	97	0.24	pg/L		05/10/22 09:09	05/25/22 05:23	1
2,3,7,8-TCDF	ND		9.7	0.33	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total TCDF	76	I	9.7	0.33	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,7,8-PeCDF	2.0	J I	49	0.33	pg/L		05/10/22 09:09	05/25/22 05:23	1
2,3,4,7,8-PeCDF	3.7	J	49	0.34	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total PeCDF	310	I	49	0.34	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,4,7,8-HxCDF	28	J	49	4.8	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,6,7,8-HxCDF	44	J I	49	5.1	pg/L		05/10/22 09:09	05/25/22 05:23	1
2,3,4,6,7,8-HxCDF	ND		49	6.3	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,7,8,9-HxCDF	ND		49	6.6	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total HxCDF	870	I S	49	5.7	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,4,6,7,8-HpCDF	220	B	49	1.3	pg/L		05/10/22 09:09	05/25/22 05:23	1
1,2,3,4,7,8,9-HpCDF	23	J B	49	1.9	pg/L		05/10/22 09:09	05/25/22 05:23	1
Total HpCDF	950	B	49	1.6	pg/L		05/10/22 09:09	05/25/22 05:23	1
OCDF	660	B	97	0.13	pg/L		05/10/22 09:09	05/25/22 05:23	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	75		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,7,8-PeCDD	117		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,4,7,8-HxCDD	96		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,6,7,8-HxCDD	101		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,4,6,7,8-HpCDD	110		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-OCDD	93		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-2,3,7,8-TCDF	75		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,7,8-PeCDF	125		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-2,3,4,7,8-PeCDF	105		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,4,7,8-HxCDF	114		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,6,7,8-HxCDF	101		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-2,3,4,6,7,8-HxCDF	106		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,7,8,9-HxCDF	110		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,4,6,7,8-HpCDF	105		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-1,2,3,4,7,8,9-HpCDF	108		40 - 135	05/10/22 09:09	05/25/22 05:23	1
13C-OCDF	97		40 - 135	05/10/22 09:09	05/25/22 05:23	1

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.7	0.27	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total TCDD	ND		9.7	0.27	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,7,8-PeCDD	1.1	J I	49	0.15	pg/L		05/10/22 09:09	05/25/22 16:58	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PeCDD	2.3	J I B	49	0.15	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,4,7,8-HxCDD	3.2	J B	49	0.15	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,6,7,8-HxCDD	3.1	J B	49	0.16	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,7,8,9-HxCDD	3.6	J B	49	0.15	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total HxCDD	31	J I B	49	0.15	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,4,6,7,8-HpCDD	52		49	1.5	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total HpCDD	270		49	1.5	pg/L		05/10/22 09:09	05/25/22 16:58	1
OCDD	480	B	97	0.29	pg/L		05/10/22 09:09	05/25/22 16:58	1
2,3,7,8-TCDF	ND		9.7	0.23	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total TCDF	2.3	J I	9.7	0.23	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,7,8-PeCDF	0.90	J	49	0.42	pg/L		05/10/22 09:09	05/25/22 16:58	1
2,3,4,7,8-PeCDF	0.65	J	49	0.39	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total PeCDF	6.7	J I	49	0.41	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,4,7,8-HxCDF	2.2	J	49	0.33	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,6,7,8-HxCDF	2.5	J I	49	0.35	pg/L		05/10/22 09:09	05/25/22 16:58	1
2,3,4,6,7,8-HxCDF	1.9	J	49	0.36	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,7,8,9-HxCDF	1.9	J	49	0.43	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total HxCDF	29	J I	49	0.37	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,4,6,7,8-HpCDF	8.0	J B	49	0.19	pg/L		05/10/22 09:09	05/25/22 16:58	1
1,2,3,4,7,8,9-HpCDF	2.9	J B	49	0.28	pg/L		05/10/22 09:09	05/25/22 16:58	1
Total HpCDF	26	J B	49	0.24	pg/L		05/10/22 09:09	05/25/22 16:58	1
OCDF	21	J B	97	0.91	pg/L		05/10/22 09:09	05/25/22 16:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	80		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,7,8-PeCDD	101		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,4,7,8-HxCDD	92		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,6,7,8-HxCDD	92		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,4,6,7,8-HpCDD	91		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-OCDD	73		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-2,3,7,8-TCDF	78		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,7,8-PeCDF	91		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-2,3,4,7,8-PeCDF	91		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,4,7,8-HxCDF	99		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,6,7,8-HxCDF	87		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-2,3,4,6,7,8-HxCDF	97		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,7,8,9-HxCDF	95		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,4,6,7,8-HpCDF	89		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-1,2,3,4,7,8,9-HpCDF	92		40 - 135	05/10/22 09:09	05/25/22 16:58	1
13C-OCDF	78		40 - 135	05/10/22 09:09	05/25/22 16:58	1

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.9	0.32	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total TCDD	0.51	J I	9.9	0.32	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,7,8-PeCDD	ND		50	0.30	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total PeCDD	ND		50	0.30	pg/L		05/10/22 09:09	05/25/22 17:59	1

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Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	1.5	J I B	50	0.15	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,6,7,8-HxCDD	1.1	J B	50	0.15	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,7,8,9-HxCDD	1.7	J S B	50	0.14	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total HxCDD	11	J I S B	50	0.15	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,4,6,7,8-HpCDD	23	J	50	0.78	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total HpCDD	88		50	0.78	pg/L		05/10/22 09:09	05/25/22 17:59	1
OCDD	210	B	99	0.20	pg/L		05/10/22 09:09	05/25/22 17:59	1
2,3,7,8-TCDF	ND		9.9	0.21	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total TCDF	8.3	J I	9.9	0.21	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,7,8-PeCDF	ND		50	0.30	pg/L		05/10/22 09:09	05/25/22 17:59	1
2,3,4,7,8-PeCDF	ND		50	0.30	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total PeCDF	7.7	J I	50	0.30	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,4,7,8-HxCDF	ND		50	0.48	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,6,7,8-HxCDF	ND		50	0.54	pg/L		05/10/22 09:09	05/25/22 17:59	1
2,3,4,6,7,8-HxCDF	ND		50	0.55	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,7,8,9-HxCDF	ND		50	0.59	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total HxCDF	14	J I	50	0.54	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,4,6,7,8-HpCDF	3.8	J I B	50	0.40	pg/L		05/10/22 09:09	05/25/22 17:59	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.56	pg/L		05/10/22 09:09	05/25/22 17:59	1
Total HpCDF	13	J I B	50	0.48	pg/L		05/10/22 09:09	05/25/22 17:59	1
OCDF	13	J B	99	1.1	pg/L		05/10/22 09:09	05/25/22 17:59	1

Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	86		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,7,8-PeCDD	120		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,4,7,8-HxCDD	89		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,6,7,8-HxCDD	95		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,4,6,7,8-HpCDD	96		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-OCDD	74		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-2,3,7,8-TCDF	82		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,7,8-PeCDF	112		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-2,3,4,7,8-PeCDF	101		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,4,7,8-HxCDF	96		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,6,7,8-HxCDF	84		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-2,3,4,6,7,8-HxCDF	97		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,7,8,9-HxCDF	100		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,4,6,7,8-HpCDF	94		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-1,2,3,4,7,8,9-HpCDF	101		40 - 135				05/10/22 09:09	05/25/22 17:59	1
13C-OCDF	79		40 - 135				05/10/22 09:09	05/25/22 17:59	1

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		9.5	0.20	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total TCDD	ND		9.5	0.20	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,7,8-PeCDD	ND		47	0.22	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total PeCDD	0.92	J I B	47	0.22	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,4,7,8-HxCDD	0.87	J B	47	0.16	pg/L		05/10/22 09:09	05/26/22 04:00	1

Eurofins Buffalo

Client Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	ND		47	0.17	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,7,8,9-HxCDD	0.39	J I S B	47	0.16	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total HxCDD	2.9	J I S B	47	0.16	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,4,6,7,8-HpCDD	ND		47	1.0	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total HpCDD	ND		47	1.0	pg/L		05/10/22 09:09	05/26/22 04:00	1
OCDD	3.9	J B	95	0.22	pg/L		05/10/22 09:09	05/26/22 04:00	1
2,3,7,8-TCDF	ND		9.5	0.19	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total TCDF	ND		9.5	0.19	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,7,8-PeCDF	ND		47	0.17	pg/L		05/10/22 09:09	05/26/22 04:00	1
2,3,4,7,8-PeCDF	ND		47	0.15	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total PeCDF	ND		47	0.17	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,4,7,8-HxCDF	ND		47	0.25	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,6,7,8-HxCDF	ND		47	0.28	pg/L		05/10/22 09:09	05/26/22 04:00	1
2,3,4,6,7,8-HxCDF	ND		47	0.29	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,7,8,9-HxCDF	ND		47	0.32	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total HxCDF	ND		47	0.32	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,4,6,7,8-HpCDF	0.47	J I B	47	0.20	pg/L		05/10/22 09:09	05/26/22 04:00	1
1,2,3,4,7,8,9-HpCDF	ND		47	0.29	pg/L		05/10/22 09:09	05/26/22 04:00	1
Total HpCDF	0.47	J I B	47	0.24	pg/L		05/10/22 09:09	05/26/22 04:00	1
OCDF	0.91	J B	95	0.080	pg/L		05/10/22 09:09	05/26/22 04:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	81		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,7,8-PeCDD	102		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,4,7,8-HxCDD	92		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,6,7,8-HxCDD	91		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,4,6,7,8-HpCDD	93		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-OCDD	73		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-2,3,7,8-TCDF	77		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,7,8-PeCDF	101		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-2,3,4,7,8-PeCDF	98		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,4,7,8-HxCDF	100		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,6,7,8-HxCDF	85		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-2,3,4,6,7,8-HxCDF	98		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,7,8,9-HxCDF	98		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,4,6,7,8-HpCDF	91		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-1,2,3,4,7,8,9-HpCDF	99		40 - 135				05/10/22 09:09	05/26/22 04:00	1
13C-OCDF	79		40 - 135				05/10/22 09:09	05/26/22 04:00	1

Isotope Dilution Summary

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	PeCDD (40-135)	HxCDD (40-135)	HxDD (40-135)	HpCDD (40-135)	OCDD (40-135)	TCDF (40-135)	PeCDF (40-135)
480-197349-1	SUPE-W-12CR-042822	72	86	75	74	75	56	73	85
480-197349-2	SUPE-W-30C-042822	81	110	91	95	107	84	81	104
480-197349-3	SUPE-W-30A-042822	75	117	96	101	110	93	75	125
480-197349-5	SUPE-W-04AR2-042822	80	101	92	92	91	73	78	91
480-197349-6	SUPE-W-10AR2-042822	86	120	89	95	96	74	82	112
480-197349-7	SUPE-W-EB-02-042822	81	102	92	91	93	73	77	101
LCS 140-61532/13-A	Lab Control Sample	79	96	76	84	86	65	76	90
MB 140-61532/14-A	Method Blank	75	100	74	78	75	52	79	98

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PeCF (40-135)	HxCDF (40-135)	HxDF (40-135)	13CHxCF (40-135)	HxCF (40-135)	HpCDF (40-135)	HpCDF2 (40-135)	OCDF (40-135)
480-197349-1	SUPE-W-12CR-042822	80	77	67	74	77	68	74	58
480-197349-2	SUPE-W-30C-042822	96	102	86	99	99	96	104	88
480-197349-3	SUPE-W-30A-042822	105	114	101	106	110	105	108	97
480-197349-5	SUPE-W-04AR2-042822	91	99	87	97	95	89	92	78
480-197349-6	SUPE-W-10AR2-042822	101	96	84	97	100	94	101	79
480-197349-7	SUPE-W-EB-02-042822	98	100	85	98	98	91	99	79
LCS 140-61532/13-A	Lab Control Sample	81	90	82	86	86	85	88	71
MB 140-61532/14-A	Method Blank	84	79	73	80	79	71	72	57

Surrogate Legend

- TCDD = 13C-2,3,7,8-TCDD
- PeCDD = 13C-1,2,3,7,8-PeCDD
- HxCDD = 13C-1,2,3,4,7,8-HxCDD
- HxDD = 13C-1,2,3,6,7,8-HxCDD
- HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
- OCDD = 13C-OCDD
- TCDF = 13C-2,3,7,8-TCDF
- PeCDF = 13C-1,2,3,7,8-PeCDF
- PeCF = 13C-2,3,4,7,8-PeCDF
- HxCDF = 13C-1,2,3,4,7,8-HxCDF
- HxDF = 13C-1,2,3,6,7,8-HxCDF
- 13CHxCF = 13C-2,3,4,6,7,8-HxCDF
- HxCF = 13C-1,2,3,7,8,9-HxCDF
- HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
- HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
- OCDF = 13C-OCDF

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 140-61532/14-A
Matrix: Water
Analysis Batch: 61928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61532

Analyte	MB	MB	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,3,7,8-TCDD	ND		10	0.58	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total TCDD	ND		10	0.58	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8-PeCDD	ND		50	0.64	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total PeCDD	9.77	J I	50	0.64	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,7,8-HxCDD	2.14	J	50	0.46	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,6,7,8-HxCDD	1.61	J I	50	0.48	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8,9-HxCDD	4.31	J	50	0.44	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HxCDD	8.06	J I	50	0.46	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,6,7,8-HpCDD	ND		50	4.8	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HpCDD	ND		50	4.8	pg/L		05/10/22 09:09	05/24/22 16:20	1
OCDD	7.68	J	100	0.59	pg/L		05/10/22 09:09	05/24/22 16:20	1
2,3,7,8-TCDF	ND		10	0.43	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total TCDF	ND		10	0.43	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8-PeCDF	ND		50	0.49	pg/L		05/10/22 09:09	05/24/22 16:20	1
2,3,4,7,8-PeCDF	ND		50	0.53	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total PeCDF	ND		50	0.53	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,7,8-HxCDF	ND		50	1.5	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,6,7,8-HxCDF	ND		50	1.5	pg/L		05/10/22 09:09	05/24/22 16:20	1
2,3,4,6,7,8-HxCDF	ND		50	1.6	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,7,8,9-HxCDF	ND		50	1.9	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HxCDF	ND		50	1.9	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,6,7,8-HpCDF	1.79	J	50	0.52	pg/L		05/10/22 09:09	05/24/22 16:20	1
1,2,3,4,7,8,9-HpCDF	1.74	J I	50	0.67	pg/L		05/10/22 09:09	05/24/22 16:20	1
Total HpCDF	3.52	J I	50	0.59	pg/L		05/10/22 09:09	05/24/22 16:20	1
OCDF	2.35	J I	100	0.42	pg/L		05/10/22 09:09	05/24/22 16:20	1
	MB	MB					Prepared	Analyzed	Dil Fac
Isotope Dilution	%Recovery	Qualifier	Limits						
13C-2,3,7,8-TCDD	75		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,7,8-PeCDD	100		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,7,8-HxCDD	74		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,6,7,8-HxCDD	78		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-OCDD	52		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-2,3,7,8-TCDF	79		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,7,8-PeCDF	98		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-2,3,4,7,8-PeCDF	84		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,7,8-HxCDF	79		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,6,7,8-HxCDF	73		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-2,3,4,6,7,8-HxCDF	80		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,7,8,9-HxCDF	79		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,6,7,8-HpCDF	71		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-1,2,3,4,7,8,9-HpCDF	72		40 - 135				05/10/22 09:09	05/24/22 16:20	1
13C-OCDF	57		40 - 135				05/10/22 09:09	05/24/22 16:20	1

QC Sample Results

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 140-61532/13-A

Matrix: Water

Analysis Batch: 61928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 61532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,3,7,8-TCDD	200	217		pg/L		108	77 - 127
1,2,3,7,8-PeCDD	1000	1090		pg/L		109	78 - 128
1,2,3,4,7,8-HxCDD	1000	1060		pg/L		106	73 - 123
1,2,3,6,7,8-HxCDD	1000	1020		pg/L		102	72 - 127
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	76 - 126
1,2,3,4,6,7,8-HpCDD	1000	974		pg/L		97	73 - 123
OCDD	2000	1960		pg/L		98	75 - 125
2,3,7,8-TCDF	200	240		pg/L		120	74 - 124
1,2,3,7,8-PeCDF	1000	993		pg/L		99	74 - 124
2,3,4,7,8-PeCDF	1000	1070		pg/L		107	74 - 124
1,2,3,4,7,8-HxCDF	1000	925		pg/L		92	75 - 125
1,2,3,6,7,8-HxCDF	1000	996		pg/L		100	75 - 125
2,3,4,6,7,8-HxCDF	1000	1030		pg/L		103	76 - 126
1,2,3,7,8,9-HxCDF	1000	1030		pg/L		103	76 - 126
1,2,3,4,6,7,8-HpCDF	1000	975		pg/L		97	71 - 121
1,2,3,4,7,8,9-HpCDF	1000	1030		pg/L		103	73 - 123
OCDF	2000	1730		pg/L		87	68 - 132

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C-2,3,7,8-TCDD	79		40 - 135
13C-1,2,3,7,8-PeCDD	96		40 - 135
13C-1,2,3,4,7,8-HxCDD	76		40 - 135
13C-1,2,3,6,7,8-HxCDD	84		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	86		40 - 135
13C-OCDD	65		40 - 135
13C-2,3,7,8-TCDF	76		40 - 135
13C-1,2,3,7,8-PeCDF	90		40 - 135
13C-2,3,4,7,8-PeCDF	81		40 - 135
13C-1,2,3,4,7,8-HxCDF	90		40 - 135
13C-1,2,3,6,7,8-HxCDF	82		40 - 135
13C-2,3,4,6,7,8-HxCDF	86		40 - 135
13C-1,2,3,7,8,9-HxCDF	86		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	85		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	88		40 - 135
13C-OCDF	71		40 - 135

QC Association Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Specialty Organics

Prep Batch: 61532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	8290	
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	8290	
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	8290	
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	8290	
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	8290	
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	8290	
MB 140-61532/14-A	Method Blank	Total/NA	Water	8290	
LCS 140-61532/13-A	Lab Control Sample	Total/NA	Water	8290	

Analysis Batch: 61928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-61532/14-A	Method Blank	Total/NA	Water	8290A	61532
LCS 140-61532/13-A	Lab Control Sample	Total/NA	Water	8290A	61532

Analysis Batch: 62000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-1	SUPE-W-12CR-042822	Total/NA	Water	8290A	61532
480-197349-3	SUPE-W-30A-042822	Total/NA	Water	8290A	61532

Analysis Batch: 62016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-5	SUPE-W-04AR2-042822	Total/NA	Water	8290A	61532
480-197349-6	SUPE-W-10AR2-042822	Total/NA	Water	8290A	61532

Analysis Batch: 62038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-197349-2	SUPE-W-30C-042822	Total/NA	Water	8290A	61532
480-197349-7	SUPE-W-EB-02-042822	Total/NA	Water	8290A	61532

Lab Chronicle

Client: Field & Technical Services LLC
 Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Client Sample ID: SUPE-W-12CR-042822

Lab Sample ID: 480-197349-1

Date Collected: 04/28/22 08:28

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62000	05/25/22 03:22	PMP	TAL KNX

Client Sample ID: SUPE-W-30C-042822

Lab Sample ID: 480-197349-2

Date Collected: 04/28/22 11:47

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62038	05/26/22 02:59	PMP	TAL KNX

Client Sample ID: SUPE-W-30A-042822

Lab Sample ID: 480-197349-3

Date Collected: 04/28/22 13:51

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62000	05/25/22 05:23	PMP	TAL KNX

Client Sample ID: SUPE-W-04AR2-042822

Lab Sample ID: 480-197349-5

Date Collected: 04/28/22 12:11

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62016	05/25/22 16:58	KBL	TAL KNX

Client Sample ID: SUPE-W-10AR2-042822

Lab Sample ID: 480-197349-6

Date Collected: 04/28/22 14:00

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62016	05/25/22 17:59	KBL	TAL KNX

Client Sample ID: SUPE-W-EB-02-042822

Lab Sample ID: 480-197349-7

Date Collected: 04/28/22 15:00

Matrix: Water

Date Received: 04/29/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			61532	05/10/22 09:09	HNC	TAL KNX
Total/NA	Analysis	8290A		1	62038	05/26/22 04:00	PMP	TAL KNX

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Laboratory: Eurofins Knoxville

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998044300	08-31-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8290A	8290	Water	Total HpCDD
8290A	8290	Water	Total HpCDF
8290A	8290	Water	Total HxCDD
8290A	8290	Water	Total HxCDF
8290A	8290	Water	Total PeCDD
8290A	8290	Water	Total PeCDF
8290A	8290	Water	Total TCDD
8290A	8290	Water	Total TCDF



Method Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL KNX
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	TAL KNX

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000



Sample Summary

Client: Field & Technical Services LLC
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 480-197349-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-197349-1	SUPE-W-12CR-042822	Water	04/28/22 08:28	04/29/22 10:00
480-197349-2	SUPE-W-30C-042822	Water	04/28/22 11:47	04/29/22 10:00
480-197349-3	SUPE-W-30A-042822	Water	04/28/22 13:51	04/29/22 10:00
480-197349-5	SUPE-W-04AR2-042822	Water	04/28/22 12:11	04/29/22 10:00
480-197349-6	SUPE-W-10AR2-042822	Water	04/28/22 14:00	04/29/22 10:00
480-197349-7	SUPE-W-EB-02-042822	Water	04/28/22 15:00	04/29/22 10:00

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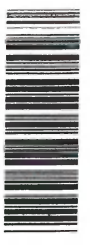
15



CHAIN OF CUSTODY REQUEST FORM

TestAmerica Duluth SC 269

REF.# 3020010



Ref 210311

Project Name: Superior, WI - 2022 OM&M Program
 Project Number: OM-0556-22
 Laboratory: TACHI
 Shipment Method: FEDEX
 Program: Superior 2022 1SA Sampling_001

Company: Field & Technical Services
 Address: 200 Third Avenue
 Carnegie, PA 15106
 (412) 279-3363

Client: Beazer East, Inc.
 Contact: tlowe.2006@f-ts.com

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	Preservative	Total Bottle Count		Notes:
						8270D_SVOC (less naphtha) (Chicago)	None	
04/28/2022	0828	GW	SUPE-W-12CR-042822	2	2			
04/28/2022	1147	GW	SUPE-W-30C-042822	2	2			
04/28/2022	1351	GW	SUPE-W-30A-042822	2	2			



480-197349 Chain of Custody

Temp 2.0 1.1 2.2 1.4 # / ICE

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature: <i>Trevor Lowe</i> Printed Name: Trevor Lowe Firm: FTS Date/Time: 5/27/2022	Signature: <i>[Signature]</i> Printed Name: <i>[Name]</i> Firm: <i>[Firm]</i> Date/Time: 4/29/22 1000	Signature: Printed Name: Firm: Date/Time:	Signature: <i>[Signature]</i> Printed Name: <i>[Name]</i> Firm: TA Date/Time: 4/29/22 1000	<input checked="" type="checkbox"/> Rush <input type="checkbox"/> Next Day <input type="checkbox"/> Standard



Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 480-197349-2

Login Number: 197349

List Number: 1

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX F

ASCII DATA

