FTS
Field & Technical Services
200 Third Avenue • Carnegie, PA 15106 • Phone: 412-429-2694 • Fax: 412-279-4512

June 11, 2021

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

RE: First Semi-Annual 2021 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 2021 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 2021 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 27, 2021 through April 29, 2021. The sampling effort was led by Mr. Ben Trask, 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 1 of Appendix C);
- Summary of analytical data (Table 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 1 of Appendix C. Table 2 in Appendix C summarizes all laboratory analytical data. As indicated in

Table 1 of Appendix C, 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
ES Exceedance		
Benzene	5	W-10AR2
Chrysene	0.2	W-04AR2, W-30A
PAL Exceedance		
Benzene	0.5	W-10AR2, W-30A
Benzo(a)pyrene	0.02	W-04AR2, W-30A
Benzo(b)fluoranthene	0.02	W-04AR2, W-10AR2, W-30A
Chrysene	0.02	W-04AR2, W-10AR2, W-30A
2,3,7,8-TCDD TEQ*	3E-06	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, three wells (W-04AR2, W-10AR2, 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 2021 sampling event exceeded the Wisconsin PALs and ESs.

The data evaluation performed by FTS for the first semi-annual 2021 sampling event (Appendix D) indicated that the data quality was acceptable and no qualification was necessary.

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 2021 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. Panofsky, WDNR
GEMS Database, WDNR
T. Peterson, TRP Properties, LLC

APPENDIX A

GROUNDWATER MONITORING DATA CERTIFICATION

State of Wisconsin
Department of Natural Resources

Environmental Monitoring Data Certification

Form 4400-231 (R 1/04)

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 - WA/5
  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 29, 2021

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

April 2021

Type of Data Submitted (Check all that apply)

- [X] Groundwater monitoring data from monitoring wells
- [ ] Groundwater monitoring data from private water supply wells
- [ ] Leachate monitoring data
- [ ] Gas monitoring data
- [ ] Air monitoring data
- [ ] Other (specify)

Notification attached?

- [ ] No. No groundwater standards or explosive gas limits were exceeded.
- [X] 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.

June 10, 2021

Signature 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

N

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

W-05CR
W-02C
W-31C
W-12A
W-09C
W-12CR
W-29A
DESIGN MANAGEMENT ZONE
W-10AR2
W-30A
W-30C
CLOSED RCRA SURFACE IMPOUNDMENTS
W-08A
W-38A
W-04AR2
W-06A
W-21B
W-21A
W-39A
W-06C
W-26B
W-32C
W-25A
W-37A
W-26A
W-11A
W-36A
W-40A
W-28C
W-14A
W-14B
W-34D
W-20AR
W-33D
W-16AR
CONCRETE BERM
W-19C
W-19A
OFFICE
GATE
W-35A
W-18D
COUNTY ROAD A
COUNTY ROAD Z
RAYMOND AVENUE
FLOW
SHOP
FORMER CONTAINER STORAGE FACILITY

0 300 600 FEET

REV #	DATE	DESCRIPTION	APPD
3			
2			
1			

REFERENCE: WISCONSIN STATE PLANE COORDINATE SYSTEM.

BEAZER EAST, INC.
PITTSBURGH, PENNSYLVANIA

DRWN:	KLC	DATE:	04/28/21
CHKD:	AMG	DATE:	04/28/21
APPD:	JSZ	DATE:	05/19/21
SCALE:	AS SHOWN		
ISSUE DATE:			

FTS

FIELD & TECHNICAL SERVICES, LLC
200 THIRD AVENUE
CARNEGIE, PA 15106

FORMER KOPPERS INC. FACILITY
SUPERIOR, WISCONSIN

WELL LOCATIONS

PROJECT NO: OM055621
DRAWING NUMBER
FIGURE B-1

APPENDIX C

TABLES

Table 1
Summary of Detected Constituents
First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
8270D LL					
W-10AR2	1-Methylnaphthalene	23	NA	NA	NA
W-30A	1-Methylnaphthalene	16	NA	NA	NA
W-10AR2	Acenaphthene	68	NA	NA	NA
W-30A	Acenaphthene	42	NA	NA	NA
W-10AR2	Acenaphthylene	1.8	NA	NA	NA
W-30A	Acenaphthylene	1	NA	NA	NA
W-04AR2	Anthracene	4	600	3000	NA
W-10AR2	Anthracene	0.82 J	600	3000	NA
W-30A	Anthracene	1.1	600	3000	NA
W-04AR2	Benzo(a)anthracene	0.19	NA	NA	NA
W-06A	Benzo(a)anthracene	0.055 J	NA	NA	NA
W-06C	Benzo(a)anthracene	0.048 J	NA	NA	NA
W-10AR2	Benzo(a)anthracene	0.13 J	NA	NA	NA
W-12A	Benzo(a)anthracene	0.05 J	NA	NA	NA
W-12CR	Benzo(a)anthracene	0.048 J	NA	NA	NA
W-28C	Benzo(a)anthracene	0.092 J	NA	NA	NA
W-28C DUP	Benzo(a)anthracene	0.047 J	NA	NA	NA
W-30A	Benzo(a)anthracene	0.24	NA	NA	NA
W-04AR2	Benzo(a)pyrene	0.094 J	0.02	0.2	0.2
W-30A	Benzo(a)pyrene	0.11 J	0.02	0.2	0.2
W-04AR2	Benzo(b)fluoranthene	0.18 J	0.02	0.2	NA
W-10AR2	Benzo(b)fluoranthene	0.09 J	0.02	0.2	NA
W-30A	Benzo(b)fluoranthene	0.16 J	0.02	0.2	NA
W-04AR2	Benzo(k)fluoranthene	0.092 J	NA	NA	NA
W-30A	Benzo(k)fluoranthene	0.091 J	NA	NA	NA
W-04AR2	Chrysene	0.38 J	0.02	0.2	NA
W-10AR2	Chrysene	0.16 J	0.02	0.2	NA
W-30A	Chrysene	0.29 J	0.02	0.2	NA
W-30A	Dibenzofuran	15	NA	NA	NA
W-04AR2	Fluoranthene	0.34 J	80	400	NA
W-10AR2	Fluoranthene	2	80	400	NA
W-30A	Fluoranthene	1.8	80	400	NA
W-10AR2	Fluorene	21	80	400	NA
W-30A	Fluorene	14	80	400	NA
W-10AR2	Phenanthrene	4.7	NA	NA	NA
W-30A	Phenanthrene	4.7	NA	NA	NA
W-10AR2	Phenol	0.71 J	400	2000	NA
W-10AR2	Pyrene	1.2	50	250	NA
W-30A	Pyrene	1.2	50	250	NA

Table 1
Summary of Detected Constituents
First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
8260C					
W-10AR2	1,2,4-Trimethylbenzene	9	96*	480*	NA
W-30A	1,2,4-Trimethylbenzene	1.1	96*	480*	NA
W-10AR2	Benzene	15	0.5	5	5
W-30A	Benzene	1.8	0.5	5	5
W-10AR2	Ethylbenzene	21	140	700	700
W-30A	Ethylbenzene	4.5	140	700	700
W-10AR2	Naphthalene	6.3	10	100	NA
W-30A	Naphthalene	10	10	100	NA
W-10AR2	Toluene	1	160	800	1000
W-10AR2	Xylene, Meta & Para	2.6	400**	2000**	10000**
W-30A	Xylene, Meta & Para	0.9 J	400**	2000**	10000**
W-10AR2	Xylene, Ortho	16	400**	2000**	10000**
W-30A	Xylene, Ortho	1.4	400**	2000**	10000**
8290A					
W-04AR2	1,2,3,4,6,7,8-HPCDD	0.000055	NA	NA	NA
W-06A	1,2,3,4,6,7,8-HPCDD	0.0000054 J	NA	NA	NA
W-06C	1,2,3,4,6,7,8-HPCDD	0.0000041 J	NA	NA	NA
W-10AR2	1,2,3,4,6,7,8-HPCDD	0.00002 J	NA	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDD	0.000047 J	NA	NA	NA
W-12CR	1,2,3,4,6,7,8-HPCDD	0.0000048 J	NA	NA	NA
W-28C	1,2,3,4,6,7,8-HPCDD	0.00001 J	NA	NA	NA
W-28C DUP	1,2,3,4,6,7,8-HPCDD	0.0000079 J	NA	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDD	0.00017	NA	NA	NA
W-30C	1,2,3,4,6,7,8-HPCDD	0.000042 J	NA	NA	NA
W-04AR2	1,2,3,4,6,7,8-HPCDF	0.0000064 J	NA	NA	NA
W-10AR2	1,2,3,4,6,7,8-HPCDF	0.0000035 J	NA	NA	NA
W-12A	1,2,3,4,6,7,8-HPCDF	0.000011 J	NA	NA	NA
W-30A	1,2,3,4,6,7,8-HPCDF	0.000046 J	NA	NA	NA
W-30C	1,2,3,4,6,7,8-HPCDF	0.0000074 J	NA	NA	NA
W-06C	1,2,3,4,7,8,9-HPCDF	0.0000004 JI	NA	NA	NA
W-12A	1,2,3,4,7,8,9-HPCDF	0.0000022 JI	NA	NA	NA
W-30A	1,2,3,4,7,8,9-HPCDF	0.0000047 J	NA	NA	NA
W-30C	1,2,3,4,7,8,9-HPCDF	0.0000023 JI	NA	NA	NA
W-04AR2	1,2,3,4,7,8-HXCDF	0.00000092 JI	NA	NA	NA
W-12A	1,2,3,4,7,8-HXCDF	0.0000067 J	NA	NA	NA
W-30A	1,2,3,4,7,8-HXCDF	0.0000064 J	NA	NA	NA
W-30C	1,2,3,4,7,8-HXCDF	0.0000011 J	NA	NA	NA
W-04AR2	1,2,3,6,7,8-HXCDD	0.0000016 JI	NA	NA	NA
W-10AR2	1,2,3,6,7,8-HXCDD	0.00000066 JI	NA	NA	NA
W-12A	1,2,3,6,7,8-HXCDD	0.0000047 JI	NA	NA	NA
W-28C	1,2,3,6,7,8-HXCDD	0.00000057 JI	NA	NA	NA
W-30A	1,2,3,6,7,8-HXCDD	0.0000047 J	NA	NA	NA
W-04AR2	1,2,3,6,7,8-HXCDF	0.0000012 J	NA	NA	NA
W-10AR2	1,2,3,6,7,8-HXCDF	0.0000015 JI	NA	NA	NA
W-12A	1,2,3,6,7,8-HXCDF	0.0000038 JI	NA	NA	NA
W-30A	1,2,3,6,7,8-HXCDF	0.000012 J	NA	NA	NA
W-30C	1,2,3,6,7,8-HXCDF	0.0000018 JI	NA	NA	NA
W-12A	1,2,3,7,8,9-HXCDD	0.0000017 J	NA	NA	NA

Table 1
Summary of Detected Constituents
First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
W-12CR	1,2,3,7,8,9-HXCDD	0.0000003 J	NA	NA	NA
W-30C	1,2,3,7,8,9-HXCDD	0.0000012 J	NA	NA	NA
W-28C DUP	1,2,3,7,8-PECDD	0.00000048 JI	NA	NA	NA
W-30A	1,2,3,7,8-PECDD	0.00000034 JI	NA	NA	NA
W-12A	1,2,3,7,8-PECDF	0.00000088 J	NA	NA	NA
W-30A	1,2,3,7,8-PECDF	0.00000084 J	NA	NA	NA
W-12A	2,3,4,6,7,8-HXCDF	0.0000013 JI	NA	NA	NA
W-30C	2,3,4,6,7,8-HXCDF	0.0000011 JI	NA	NA	NA
W-12A	2,3,4,7,8-PECDF	0.00000097 JI	NA	NA	NA
W-30A	2,3,4,7,8-PECDF	0.00000098 J	NA	NA	NA
W-12A	2,3,7,8-TCDF	0.0000005 J	NA	NA	NA
W-12CR	2,3,7,8-TCDF	0.000000083 JI	NA	NA	NA
W-30A	2,3,7,8-TCDF	0.00000027 J	NA	NA	NA
W-04AR2	OCDD	0.00066	NA	NA	NA
W-06A	OCDD	0.000059 J	NA	NA	NA
W-06C	OCDD	0.000048 J	NA	NA	NA
W-10AR2	OCDD	0.00017	NA	NA	NA
W-12A	OCDD	0.00023	NA	NA	NA
W-12CR	OCDD	0.000059 J	NA	NA	NA
W-28C	OCDD	0.000093 J	NA	NA	NA
W-28C DUP	OCDD	0.000081 J	NA	NA	NA
W-30A	OCDD	0.0021	NA	NA	NA
W-30C	OCDD	0.00014	NA	NA	NA
W-04AR2	OCDF	0.000029 J	NA	NA	NA
W-10AR2	OCDF	0.000014 J	NA	NA	NA
W-12A	OCDF	0.000024 J	NA	NA	NA
W-30A	OCDF	0.00017	NA	NA	NA
W-30C	OCDF	0.000016 J	NA	NA	NA
W-04AR2	Total HPCDD	0.0003	NA	NA	NA
W-06A	Total HPCDD	0.000014 JI	NA	NA	NA
W-06C	Total HPCDD	0.000014 J	NA	NA	NA
W-10AR2	Total HPCDD	0.000065	NA	NA	NA
W-12A	Total HPCDD	0.000084	NA	NA	NA
W-12CR	Total HPCDD	0.000017 J	NA	NA	NA
W-28C	Total HPCDD	0.000046 J	NA	NA	NA
W-28C DUP	Total HPCDD	0.000034 J	NA	NA	NA
W-30A	Total HPCDD	0.00043	NA	NA	NA
W-30C	Total HPCDD	0.000071	NA	NA	NA
W-04AR2	Total HPCDF	0.000023 J	NA	NA	NA
W-06A	Total HPCDF	0.0000033 JI	NA	NA	NA
W-06C	Total HPCDF	0.0000027 JI	NA	NA	NA
W-10AR2	Total HPCDF	0.000012 J	NA	NA	NA
W-12A	Total HPCDF	0.000037 JI	NA	NA	NA
W-28C	Total HPCDF	0.0000025 JI	NA	NA	NA
W-28C DUP	Total HPCDF	0.000003 JI	NA	NA	NA
W-30A	Total HPCDF	0.00018 I	NA	NA	NA
W-30C	Total HPCDF	0.000032 JI	NA	NA	NA
W-04AR2	Total HXCDD	0.000025 JI	NA	NA	NA
W-12A	Total HXCDD	0.000017 JI	NA	NA	NA
W-30A	Total HXCDD	0.00003 JI	NA	NA	NA
W-30C	Total HXCDD	0.000013 JI	NA	NA	NA
W-04AR2	Total HXCDF	0.000025 JI	NA	NA	NA

Table 1
Summary of Detected Constituents
First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

Location	Parameter	Results ug/L	PAL ug/L	ES ug/L	MCL ug/L
W-10AR2	Total HXCDF	0.000022 JI	NA	NA	NA
W-12A	Total HXCDF	0.000073 I	NA	NA	NA
W-12CR	Total HXCDF	0.0000022 JI	NA	NA	NA
W-28C	Total HXCDF	0.0000021 J	NA	NA	NA
W-28C DUP	Total HXCDF	0.000014 JI	NA	NA	NA
W-30A	Total HXCDF	0.00013 I	NA	NA	NA
W-30C	Total HXCDF	0.00004 JI	NA	NA	NA
W-12A	Total PECDD	0.00000081 JI	NA	NA	NA
W-12CR	Total PECDD	0.00000027 J	NA	NA	NA
W-28C DUP	Total PECDD	0.00000048 JI	NA	NA	NA
W-30A	Total PECDD	0.0000013 JI	NA	NA	NA
W-04AR2	Total PECDF	0.0000046 JI	NA	NA	NA
W-10AR2	Total PECDF	0.000017 JI	NA	NA	NA
W-12A	Total PECDF	0.000051 I	NA	NA	NA
W-12CR	Total PECDF	0.00000078 JI	NA	NA	NA
W-30A	Total PECDF	0.000096 I	NA	NA	NA
W-30C	Total PECDF	0.000014 JI	NA	NA	NA
W-06C	Total TCDD	0.00000026 J	NA	NA	NA
W-28C DUP	Total TCDD	0.00000069 JI	NA	NA	NA
W-30A	Total TCDD	0.00000012 JI	NA	NA	NA
W-04AR2	Total TCDF	0.00000056 J	NA	NA	NA
W-10AR2	Total TCDF	0.0000063 JI	NA	NA	NA
W-12A	Total TCDF	0.000036 I	NA	NA	NA
W-28C	Total TCDF	0.00000022 JI	NA	NA	NA
W-30A	Total TCDF	0.000018 I	NA	NA	NA
W-30C	Total TCDF	0.000067 I	NA	NA	NA
W-04AR2	2,3,7,8-TCDD TEQ	1.19E-06	0.000003	0.00003	0.00003
W-06A	2,3,7,8-TCDD TEQ	7.17E-08	0.000003	0.00003	0.00003
W-06C	2,3,7,8-TCDD TEQ	5.94E-08	0.000003	0.00003	0.00003
W-10AR2	2,3,7,8-TCDD TEQ	5.02E-07	0.000003	0.00003	0.00003
W-12A	2,3,7,8-TCDD TEQ	2.87E-06	0.000003	0.00003	0.00003
W-12CR	2,3,7,8-TCDD TEQ	1.04E-07	0.000003	0.00003	0.00003
W-28C	2,3,7,8-TCDD TEQ	1.85E-07	0.000003	0.00003	0.00003
W-28C DUP	2,3,7,8-TCDD TEQ	5.83E-07	0.000003	0.00003	0.00003
W-30A	2,3,7,8-TCDD TEQ	5.88E-06	0.000003	0.00003	0.00003
W-30C	2,3,7,8-TCDD TEQ	1.08E-06	0.000003	0.00003	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.

* - 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 2
Analytical Summary - First Semi-Annual 2021 Groundwater Data
First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/28/2021	W-06A 4/28/2021	W-06C 4/28/2021	W-10AR2 4/28/2021	W-12A 4/29/2021	W-12CR 4/29/2021	W-18D 4/28/2021	W-28C 4/28/2021	W-28C-DUP 4/28/2021	W-30A 4/28/2021	W-30C 4/29/2021	Equipment Blank 4/28/2021	Equipment Blank 4/29/2021	Trip Blank 4/28/2021	Trip Blank 4/29/2021
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	0.82 U	0.82 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	**9**	0.75 U	0.75 U	NA	0.75 U	0.75 U	**1.1**	0.75 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	0.77 U	0.77 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	**15**	0.41 U	0.41 U	NA	0.41 U	0.41 U	**1.8**	0.41 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	0.35 U	0.35 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	**21**	0.74 U	0.74 U	NA	0.74 U	0.74 U	**4.5**	0.74 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	0.16 U	0.16 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	**6.3**	0.43 U	0.43 U	NA	0.43 U	0.43 U	**10**	0.43 U	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	0.64 U	0.64 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	0.69 U	0.69 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	0.73 U	0.73 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**	0.51 U	0.51 U	NA	0.51 U	0.51 U	0.51 U	0.51 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	**2.6**	0.66 U	0.66 U	NA	0.66 U	0.66 U	**0.9 J**	0.66 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	**16**	0.76 U	0.76 U	NA	0.76 U	0.76 U	**1.4**	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
8270D LL																
1,2,4-TRICHLOROBENZENE	UG/L	0.29 U	0.31 U	0.31 U	0.3 U	0.31 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.31 U	0.29 U	0.3 U	NA	NA
1,2-DICHLOROBENZENE	UG/L	0.28 U	0.3 U	0.3 U	0.29 U	0.3 U	0.28 U	0.28 U	0.28 U	0.28 U	0.3 U	0.3 U	0.28 U	0.29 U	NA	NA
1,3-DICHLOROBENZENE	UG/L	0.24 U	0.26 U	0.26 U	0.25 U	0.26 U	0.24 U	0.24 U	0.24 U	0.24 U	0.26 U	0.26 U	0.24 U	0.25 U	NA	NA
1,4-DICHLOROBENZENE	UG/L	0.26 U	0.28 U	0.28 U	0.27 U	0.28 U	0.26 U	0.26 U	0.26 U	0.26 U	0.28 U	0.28 U	0.26 U	0.27 U	NA	NA
1-METHYLNAPHTHALENE	UG/L	0.49 U	0.52 U	0.51 U	**23**	0.52 U	0.48 U	0.48 U	0.48 U	0.49 U	**16**	0.52 U	0.48 U	0.5 U	NA	NA
2,3,4,6-TETRACHLOROPHENOL	UG/L	1.5 U	1.6 U	1.6 U	1.5 U	1.6 U	1.4 U	1.5 U	1.4 U	1.5 U	1.6 U	1.6 U	1.4 U	1.5 U	NA	NA
2,3,5,6-TETRACHLOROPHENOL	UG/L	2.4 U	2.6 U	2.6 U	2.5 U	2.6 U	2.4 U	2.4 U	2.4 U	2.4 U	2.6 U	2.6 U	2.4 U	2.5 U	NA	NA
2,4,5-TRICHLOROPHENOL	UG/L	2.2 U	2.4 U	2.4 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.4 U	2.4 U	2.2 U	2.3 U	NA	NA
2,4,6-TRICHLOROPHENOL	UG/L	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1.1 U	NA	NA
2,4-DICHLOROPHENOL	UG/L	2.2 U	2.4 U	2.3 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	2.3 U	NA	NA
2,4-DIMETHYLPHENOL	UG/L	3.2 U	3.5 U	3.4 U	3.4 U	3.5 U	3.2 U	3.2 U	3.2 U	3.2 U	3.4 U	3.5 U	3.2 U	3.3 U	NA	NA
2,4-DINITROPHENOL	UG/L	7.2 U	7.7 U	7.7 U	7.5 U	7.8 U	7.1 U	7.1 U	7.1 U	7.2 U	7.6 U	7.7 U	7.1 U	7.4 U	NA	NA
2,4-DINITROTOLUENE	UG/L	0.29 U	0.31 U	0.31 U	0.3 U	0.31 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.31 U	0.29 U	0.3 U	NA	NA
2,6-DINITROTOLUENE	UG/L	0.12 U	0.13 U	0.12 U	0.12 U	0.13 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U	0.12 U	0.11 U	0.12 U	NA	NA
2-CHLORONAPHTHALENE	UG/L	0.33 U	0.35 U	0.35 U	0.34 U	0.36 U	0.32 U	0.33 U	0.33 U	0.33 U	0.35 U	0.35 U	0.32 U	0.34 U	NA	NA
2-CHLOROPHENOL	UG/L	0.78 U	0.83 U	0.82 U	0.81 U	0.84 U	0.76 U	0.77 U	0.77 U	0.78 U	0.82 U	0.83 U	0.76 U	0.8 U	NA	NA
2-METHYLNAPHTHALENE	UG/L	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U	0.12 U	0.13 U	0.12 U	0.13 U	0.13 U	0.13 U	0.12 U	0.13 U	NA	NA
2-METHYLPHENOL	UG/L	0.3 U	0.32 U	0.32 U	0.31 U	0.33 U	0.3 U	0.3 U	0.3 U	0.3 U	0.32 U	0.32 U	0.3 U	0.31 U	NA	NA
2-NITROANILINE	UG/L	1 U	1.1 U	1.1 U	1.1 U	1.1 U	1 U	1 U	1 U	1 U	1.1 U	1.1 U	1 U	1.1 U	NA	NA
2-NITROPHENOL	UG/L	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2 U	2.1 U	2 U	2.1 U	2.2 U	2.2 U	2 U	2.1 U	NA	NA
3,3'-DICHLOROBENZIDINE	UG/L	0.91 U	0.98 U	0.97 U	0.95 U	0.99 U	0.9 U	0.9 U	0.9 U	0.91 U	0.97 U	0.97 U	0.9 U	0.94 U	NA	NA
3-NITROANILINE	UG/L	2.2 U	2.4 U	2.4 U	2.3 U	2.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.4 U	2.4 U	2.2 U	2.3 U	NA	NA
4,6-DINITRO-2-METHYLPHENOL	UG/L	4.8 U	5.1 U	5.1 U	5 U	5.2 U	4.7 U	4.7 U	4.7 U	4.8 U	5.1 U	5.1 U	4.7 U	4.9 U	NA	NA
4-BROMOPHENYL PHENYLETHER	UG/L	0.88 U	0.95 U	0.94 U	0.92 U	0.95 U	0.87 U	0.88 U	0.87 U	0.88 U	0.93 U	0.94 U	0.87 U	0.91 U	NA	NA

Table 2
Analytical Summary - First Semi-Annual 2021 Groundwater Data
First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/28/2021	W-06A 4/28/2021	W-06C 4/28/2021	W-10AR2 4/28/2021	W-12A 4/29/2021	W-12CR 4/29/2021	W-18D 4/28/2021	W-28C 4/28/2021	W-28C-DUP 4/28/2021	W-30A 4/28/2021	W-30C 4/29/2021	Equipment Blank 4/28/2021	Equipment Blank 4/29/2021	Trip Blank 4/28/2021	Trip Blank 4/29/2021
4-CHLORO-3-METHYLPHENOL	UG/L	2.1 U	2.3 U	2.3 U	2.2 U	2.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.3 U	2.3 U	2.1 U	2.2 U	NA	NA
4-CHLOROANILINE	UG/L	2 U	2.2 U	2.2 U	2.1 U	2.2 U	2 U	2 U	2 U	2 U	2.2 U	2.2 U	2 U	2.1 U	NA	NA
4-CHLOROPHENYLPHENYL-ETHER	UG/L	0.79 U	0.84 U	0.83 U	0.82 U	0.85 U	0.77 U	0.78 U	0.78 U	0.79 U	0.83 U	0.84 U	0.77 U	0.81 U	NA	NA
4-METHYLPHENOL	UG/L	0.43 U	0.46 U	0.45 U	0.45 U	0.46 U	0.42 U	0.42 U	0.42 U	0.43 U	0.45 U	0.46 U	0.42 U	0.44 U	NA	NA
4-NITROANILINE	UG/L	3.8 U	4.1 U	4 U	4 U	4.1 U	3.7 U	3.8 U	3.8 U	3.8 U	4 U	4.1 U	3.7 U	3.9 U	NA	NA
4-NITROPHENOL	UG/L	2.3 U	2.4 U	2.4 U	2.4 U	2.5 U	2.2 U	2.3 U	2.2 U	2.3 U	2.4 U	2.4 U	2.2 U	2.3 U	NA	NA
ACENAPHTHENE	UG/L	0.35 U	0.38 U	0.37 U	**68**	0.38 U	0.34 U	0.35 U	0.34 U	0.35 U	**42**	0.37 U	0.34 U	0.36 U	NA	NA
ACENAPHTHYLENE	UG/L	0.31 U	0.33 U	0.33 U	**1.8**	0.34 U	0.31 U	0.31 U	0.31 U	0.31 U	**1**	0.33 U	0.3 U	0.32 U	NA	NA
ANTHRACENE	UG/L	**4**	0.33 U	0.33 U	**0.82 J**	0.34 U	0.31 U	0.31 U	0.31 U	0.31 U	**1.1**	0.33 U	0.3 U	0.32 U	NA	NA
BENZO (A) ANTHRACENE	UG/L	**0.19**	**0.055 J**	**0.048 J**	**0.13 J**	**0.05 J**	**0.048 J**	0.042 U	**0.092 J**	**0.047 J**	**0.24**	0.046 U	0.042 U	0.044 U	NA	NA
BENZO (A) PYRENE	UG/L	**0.094 J**	0.058 U	0.058 U	0.057 U	0.059 U	0.053 U	0.054 U	0.054 U	0.054 U	**0.11 J**	0.058 U	0.053 U	0.056 U	NA	NA
BENZO (B) FLUORANTHENE	UG/L	**0.18 J**	0.06 U	0.06 U	**0.09 J**	0.061 U	0.055 U	0.056 U	0.056 U	0.056 U	**0.16 J**	0.06 U	0.055 U	0.058 U	NA	NA
BENZO (G,H,I) PERYLENE	UG/L	0.41 U	0.44 U	0.43 U	0.43 U	0.44 U	0.4 U	0.4 U	0.4 U	0.41 U	0.43 U	0.43 U	0.4 U	0.42 U	NA	NA
BENZO (K) FLUORANTHENE	UG/L	**0.092 J**	0.077 U	0.076 U	0.075 U	0.078 U	0.071 U	0.071 U	0.071 U	0.072 U	**0.091 J**	0.077 U	0.07 U	0.074 U	NA	NA
BENZOIC ACID	UG/L	4.4 U	4.8 U	4.7 U	4.6 U	4.8 U	4.3 U	4.4 U	4.4 U	4.4 U	4.7 U	4.7 U	4.3 U	4.6 U	NA	NA
BENZYL ALCOHOL	UG/L	3 U	3.2 U	3.1 U	3.1 U	3.2 U	2.9 U	2.9 U	2.9 U	3 U	3.1 U	3.2 U	2.9 U	3.1 U	NA	NA
BIS (2-CHLOROETHOXY)- METHANE	UG/L	0.29 U	0.31 U	0.31 U	0.3 U	0.31 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.31 U	0.29 U	0.3 U	NA	NA
BIS (2-CHLOROETHYL) ETHER	UG/L	0.34 U	0.36 U	0.36 U	0.35 U	0.37 U	0.33 U	0.34 U	0.33 U	0.34 U	0.36 U	0.36 U	0.33 U	0.35 U	NA	NA
BIS (2-CHLOROISOPROPYL)-ETHER	UG/L	0.29 U	0.31 U	0.31 U	0.3 U	0.31 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 U	0.31 U	0.29 U	0.3 U	NA	NA
BIS (2-ETHYLHEXYL)- PHTHALATE	UG/L	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.3 U	2.3 U	2.3 U	2.4 U	2.5 U	2.5 U	2.3 U	2.4 U	NA	NA
BUTYL BENZYL PHTHALATE	UG/L	0.26 U	0.28 U	0.28 U	0.27 U	0.28 U	0.26 U	0.26 U	0.26 U	0.26 U	0.28 U	0.28 U	0.26 U	0.27 U	NA	NA
CHRYSENE	UG/L	**0.38 J**	0.15 U	0.14 U	**0.16 J**	0.15 U	0.13 U	0.13 U	0.13 U	0.14 U	**0.29 J**	0.14 U	0.13 U	0.14 U	NA	NA
DIBENZO (A,H) ANTHRACENE	UG/L	0.062 U	0.067 U	0.066 U	0.065 U	0.067 U	0.061 U	0.062 U	0.061 U	0.062 U	0.066 U	0.066 U	0.061 U	0.064 U	NA	NA
DIBENZOFURAN	UG/L	0.34 U	0.36 U	0.36 U	0.35 U	0.37 U	0.33 U	0.34 U	0.33 U	0.34 U	**15**	0.36 U	0.33 U	0.35 U	NA	NA
DIETHYLPHTHALATE	UG/L	0.43 U	0.46 U	0.45 U	0.45 U	0.46 U	0.42 U	0.42 U	0.42 U	0.43 U	0.45 U	0.46 U	0.42 U	0.44 U	NA	NA
DIMETHYLPHTHALATE	UG/L	0.37 U	0.4 U	0.39 U	0.38 U	0.4 U	0.36 U	0.37 U	0.36 U	0.37 U	0.39 U	0.39 U	0.36 U	0.38 U	NA	NA
DI-N-BUTYLPHTHALATE	UG/L	0.78 U	0.83 U	0.82 U	0.81 U	0.84 U	0.76 U	0.77 U	0.77 U	0.78 U	0.82 U	0.83 U	0.76 U	0.8 U	NA	NA
DI-N-OCTYLPHTHALATE	UG/L	2.4 U	2.6 U	2.5 U	2.5 U	2.6 U	2.4 U	2.4 U	2.4 U	2.4 U	2.5 U	2.6 U	2.4 U	2.5 U	NA	NA
FLUORANTHENE	UG/L	**0.34 J**	0.33 U	0.33 U	**2**	0.34 U	0.31 U	0.31 U	0.31 U	0.31 U	**1.8**	0.33 U	0.3 U	0.32 U	NA	NA
FLUORENE	UG/L	0.37 U	0.4 U	0.39 U	**21**	0.4 U	0.36 U	0.37 U	0.36 U	0.37 U	**14**	0.39 U	0.36 U	0.38 U	NA	NA
HEXACHLOROBENZENE	UG/L	0.14 U	0.15 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	NA	NA
HEXACHLOROBUTADIENE	UG/L	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA
HEXACHLOROCYCLOPENTADIENE	UG/L	3.3 U	3.6 U	3.5 U	3.5 U	3.6 U	3.3 U	3.3 U	3.3 U	3.3 U	3.5 U	3.6 U	3.3 U	3.4 U	NA	NA
HEXACHLOROETHANE	UG/L	0.94 U	1 U	1 U	0.98 U	1 U	0.93 U	0.93 U	0.93 U	0.94 U	1 U	1 U	0.92 U	0.97 U	NA	NA
INDENO (1,2,3-CD) PYRENE	UG/L	0.082 U	0.088 U	0.087 U	0.085 U	0.088 U	0.08 U	0.081 U	0.08 U	0.082 U	0.086 U	0.087 U	0.08 U	0.084 U	NA	NA
ISOPHORONE	UG/L	0.28 U	0.3 U	0.3 U	0.29 U	0.3 U	0.28 U	0.28 U	0.28 U	0.28 U	0.3 U	0.3 U	0.28 U	0.29 U	NA	NA
NAPHTHALENE	UG/L	NA	NA	NA	NA	NA	NA	0.29 U	NA	NA	NA	NA	NA	NA	NA	NA
NITROBENZENE	UG/L	0.44 U	0.47 U	0.46 U	0.46 U	0.47 U	0.43 U	0.43 U	0.43 U	0.44 U	0.46 U	0.47 U	0.43 U	0.45 U	NA	NA
N-NITROSODI-N-PROPYLAMINE	UG/L	0.14 U	0.15 U	0.14 U	0.14 U	0.15 U	0.13 U	0.13 U	0.13 U	0.14 U	0.14 U	0.14 U	0.13 U	0.14 U	NA	NA
N-NITROSO-DI-PHENYLAMINE	UG/L	0.33 U	0.35 U	0.35 U	0.34 U	0.36 U	0.32 U	0.33 U	0.33 U	0.33 U	0.35 U	0.35 U	0.32 U	0.34 U	NA	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	3.4 U	0.34 U	0.34 U	0.34 U	NA	NA
PHENANTHRENE	UG/L	0.34 U	0.36 U	0.36 U	**4.7**	0.37 U	0.33 U	0.34 U	0.33 U	0.34 U	**4.7**	0.36 U	0.33 U	0.35 U	NA	NA
PHENOL	UG/L	0.35 U	0.38 U	0.37 U	**0.71 J**	0.38 U	0.34 U	0.35 U	0.34 U	0.35 U	0.37 U	0.37 U	0.34 U	0.36 U	NA	NA
PYRENE	UG/L	0.47 U	0.5 U	0.49 U	**1.2**	0.5 U	0.46 U	0.46 U	0.46 U	0.47 U	**1.2**	0.5 U	0.46 U	0.48 U	NA	NA

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First Semi-Annual 2021 Sampling Event
Superior Facility
Superior, Wisconsin

ANALYTE NAME	UNITS	W-04AR2 4/28/2021	W-06A 4/28/2021	W-06C 4/28/2021	W-10AR2 4/28/2021	W-12A 4/29/2021	W-12CR 4/29/2021	W-18D 4/28/2021	W-28C 4/28/2021	W-28C-DUP 4/28/2021	W-30A 4/28/2021	W-30C 4/29/2021	Equipment Blank 4/28/2021	Equipment Blank 4/29/2021	Trip Blank 4/28/2021	Trip Blank 4/29/2021
8290A																
1,2,3,4,6,7,8-HPCDD (TEF = 0.01)	UG/L	**0.000055**	**0.0000054 J**	**0.0000041 J**	**0.00002 J**	**0.000047 J**	**0.0000048 J**	NA	**0.00001 J**	**0.0000079 J**	**0.00017**	**0.000042 J**	**0.00000061 JI**	0.0000005 U	NA	NA
1,2,3,4,6,7,8-HPCDF (TEF = 0.01)	UG/L	**0.0000064 J**	0.0000013 U	0.00000076 U	**0.0000035 J**	**0.000011 J**	0.00000097 U	NA	0.00000099 U	0.0000011 U	**0.000046 J**	**0.0000074 J**	**0.00000036 JI**	**0.00000037 JI**	NA	NA
1,2,3,4,7,8,9-HPCDF (TEF = 0.01)	UG/L	0.00000031 U	0.00000039 U	**0.0000004 JI**	0.00000038 U	**0.0000022 JI**	0.00000012 U	NA	0.00000023 U	0.00000042 U	**0.0000047 J**	**0.0000023 JI**	0.00000027 U	**0.00000032 J**	NA	NA
1,2,3,4,7,8-HXCDD (TEF = 0.1)	UG/L	0.0000018 U	0.0000014 U	0.000001 U	0.000001 U	0.000002 U	0.00000095 U	NA	0.0000012 U	0.0000012 U	0.0000016 U	0.00000084 U	**0.0000012 J**	**0.00000098 J**	NA	NA
1,2,3,4,7,8-HXCDF (TEF = 0.1)	UG/L	**0.00000092 JI**	0.0000003 U	0.00000021 U	0.00000053 U	**0.0000067 J**	0.00000007 U	NA	0.00000022 U	0.00000023 U	**0.0000064 J**	**0.0000011 J**	0.00000017 U	0.00000018 U	NA	NA
1,2,3,6,7,8-HXCDD (TEF = 0.1)	UG/L	**0.0000016 JI**	0.00000031 U	0.00000021 U	**0.00000066 JI**	**0.0000047 JI**	0.00000036 U	NA	**0.00000057 JI**	0.00000026 U	**0.0000047 J**	0.0000022 U	0.00000016 U	**0.00000047 J**	NA	NA
1,2,3,6,7,8-HXCDF (TEF = 0.1)	UG/L	**0.0000012 J**	0.00000031 U	0.00000024 U	**0.0000015 JI**	**0.0000038 JI**	0.000000081 U	NA	0.00000023 U	0.00000025 U	**0.000012 J**	**0.0000018 JI**	0.00000019 U	0.0000002 U	NA	NA
1,2,3,7,8,9-HXCDD (TEF = 0.1)	UG/L	0.0000013 U	0.00000031 U	0.0000002 U	0.0000009 U	**0.0000017 J**	**0.0000003 J**	NA	0.0000009 U	0.00000079 U	0.0000017 U	**0.0000012 J**	**0.00000051 J**	0.00000023 U	NA	NA
1,2,3,7,8,9-HXCDF (TEF = 0.1)	UG/L	0.00000051 U	0.00000039 U	0.00000028 U	0.00000071 U	0.00000077 U	0.000000091 U	NA	0.00000028 U	0.00000032 U	0.0000015 U	0.00000034 U	0.00000023 U	0.00000025 U	NA	NA
1,2,3,7,8-PECDD (TEF = 1)	UG/L	0.00000021 U	0.00000037 U	0.00000019 U	0.0000004 U	0.00000028 U	0.000000084 U	NA	0.0000002 U	**0.00000048 JI**	**0.00000034 JI**	0.00000028 U	0.00000021 U	0.00000027 U	NA	NA
1,2,3,7,8-PECDF (TEF = 0.03)	UG/L	0.00000043 U	0.00000055 U	0.00000023 U	0.00000029 U	**0.00000088 J**	0.000000096 U	NA	0.00000026 U	0.00000047 U	**0.00000084 J**	0.0000003 U	0.00000024 U	0.00000035 U	NA	NA
2,3,4,6,7,8-HXCDF (TEF = 0.1)	UG/L	0.00000042 U	0.00000033 U	0.00000023 U	0.0000006 U	**0.0000013 JI**	0.000000078 U	NA	0.00000023 U	0.00000026 U	0.0000013 U	**0.0000011 JI**	0.00000019 U	0.00000021 U	NA	NA
2,3,4,7,8-PECDF (TEF = 0.3)	UG/L	0.0000004 U	0.00000048 U	0.0000002 U	0.00000027 U	**0.00000097 JI**	0.000000088 U	NA	0.00000025 U	0.0000004 U	**0.00000098 J**	0.00000026 U	0.00000021 U	0.00000031 U	NA	NA
2,3,7,8-TCDD (TEF = 1)	UG/L	0.00000024 U	0.00000027 U	0.00000011 U	0.00000025 U	0.0000003 U	0.00000021 U	NA	0.00000031 U	0.00000027 U	0.000000056 U	0.00000017 U	0.00000011 U	0.0000003 U	NA	NA
2,3,7,8-TCDF (TEF = 0.1)	UG/L	0.00000026 U	0.00000043 U	0.00000025 U	0.00000027 U	**0.0000005 J**	**0.000000083 JI**	NA	0.00000021 U	0.0000002 U	**0.00000027 J**	0.00000031 U	0.00000019 U	0.0000002 U	NA	NA
OCDD (TEF = 0.0003)	UG/L	**0.00066**	**0.000059 J**	**0.000048 J**	**0.00017**	**0.00023**	**0.000059 J**	NA	**0.000093 J**	**0.000081 J**	**0.0021**	**0.00014**	**0.0000022 J**	**0.000002 JI**	NA	NA
OCDF (TEF = 0.0003)	UG/L	**0.000029 J**	0.0000058 U	0.0000036 U	**0.000014 J**	**0.000024 J**	0.0000039 U	NA	0.0000046 U	0.0000059 U	**0.00017**	**0.000016 J**	**0.0000013 JI**	**0.0000012 JI**	NA	NA
TOTAL HPCDD	UG/L	**0.0003**	**0.000014 JI**	**0.000014 J**	**0.000065**	**0.000084**	**0.000017 J**	NA	**0.000046 J**	**0.000034 J**	**0.00043**	**0.000071**	**0.0000016 JI**	0.0000005 U	NA	NA
TOTAL HPCDF	UG/L	**0.000023 J**	**0.0000033 JI**	**0.0000027 JI**	**0.000012 J**	**0.000037 JI**	0.000003 U	NA	**0.0000025 JI**	**0.000003 JI**	**0.00018 I**	**0.000032 JI**	**0.00000036 JI**	**0.00000069 JI**	NA	NA
TOTAL HXCDD	UG/L	**0.000025 JI**	0.0000014 U	0.000001 U	0.0000074 U	**0.000017 JI**	0.0000034 U	NA	0.0000073 U	0.000004 U	**0.00003 JI**	**0.000013 JI**	**0.0000018 J**	**0.000014 J**	NA	NA
TOTAL HXCDF	UG/L	**0.000025 JI**	0.00000039 U	0.00000028 U	**0.000022 JI**	**0.000073 I**	**0.0000022 JI**	NA	**0.0000021 J**	**0.0000014 JI**	**0.00013 I**	**0.00004 JI**	0.00000023 U	0.00000025 U	NA	NA
TOTAL PECDD	UG/L	0.00000021 U	0.00000037 U	0.00000019 U	0.0000004 U	**0.00000081 JI**	**0.00000027 J**	NA	0.0000002 U	**0.00000048 JI**	**0.0000013 JI**	0.00000028 U	0.00000021 U	0.00000027 U	NA	NA
TOTAL PECDF	UG/L	**0.0000046 JI**	0.00000055 U	0.00000023 U	**0.000017 JI**	**0.000051 I**	**0.00000078 JI**	NA	0.00000026 U	0.00000047 U	**0.000096 I**	**0.000014 JI**	0.00000024 U	0.00000035 U	NA	NA
TOTAL TCDD	UG/L	0.00000024 U	0.00000027 U	**0.00000026 J**	0.00000025 U	0.0000003 U	0.00000021 U	NA	0.00000031 U	**0.00000069 JI**	**0.00000012 JI**	0.00000033 U	0.00000014 U	0.0000003 U	NA	NA
TOTAL TCDF	UG/L	**0.00000056 J**	0.00000043 U	0.00000025 U	**0.0000063 JI**	**0.000036 I**	0.00000035 U	NA	**0.00000022 JI**	0.0000002 U	**0.000018 I**	**0.000067 I**	0.00000019 U	**0.00000039 JI**	NA	NA
2,3,7,8-TCDD TEQ - ND = 0	UG/L	**1.19E-06**	**7.17E-08**	**5.94E-08**	**5.02E-07**	**2.87E-06**	**1.04E-07**	NA	**1.85E-07**	**5.83E-07**	**5.88E-06**	**1.08E-06**	**1.82E-07**	**1.53E-07**	NA	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.
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 21, 2021

FROM: Kendra Chintella

SUBJECT: Superior GW

SAMPLE DELIVERY GROUP (SDG): 500-198446-1

SAMPLES: SUPE-W-28C-042821, SUPE-EB-01-042821, SUPE-W-18D-042821, SUPE-W-04AR2-042821, SUPE-W-30A-042821, SUPE-W-10AR2-042821, SUPE-M-99A-042821(W-28C), SUPE-TB-01-042821, SUPE-W-06A-042821, SUPE-W-06C-042821, SUPE-W-12A-042921, SUPE-EB-02-042921, SUPE-W-30C-042921, SUPE-W-12CR-042921, SUPE-W-TB-02-042921

ANALYSES: Method 8260C (VOCs), 8270D/8270D LL (SVOCs), 8290A (Dioxins/Furans)

LABORATORY: Eurofins TestAmerica Laboratories, Buffalo, Chicago, 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: OCDD and OCDF were detected in the method blank. See attached page for details.

□ Field Blank Contamination
Noncompliance: 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, 1,2,3,4,7,8-HxCDD, 1,2,3,4,7,8,9-HpCDF, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, OCDD, OCDF, total HpCDD, total HpCDF, total HxCDD, and total TCDF were detected in the equipment blanks. See attached page for details.

□ Field Duplicate Precision
Noncompliance: See attached page for details.

□ Surrogate Recoveries
Noncompliance: The surrogate recovery of p-terphenyl-d14 fell below the recovery limits in sample W-30A. The surrogate recovery of phenol-d5 fell below the recovery limits in sample W-30C. No action was taken on this basis.

□ Matrix Spike/Matrix Spike Duplicate
Noncompliance: The MSD recovery of 1,3,5-trimethylbenzene was above the recovery limits. The RPD of toluene was above the recovery limits. No action was taken on this basis.

□ Laboratory Control Sample
Noncompliance: None

Laboratory Blank Contamination:

The following analytes were detected in the aqueous method blank at the following concentrations:

Analyte	Maximum Concentration	Blank Action Level
OCDD	3.99 JI pg/l	19.95 pg/l
OCDF	2.16 JI pg/l	10.8 pg/l

An action level of 5X the maximum concentration was used to evaluate the sample data for laboratory blank contamination. Associated samples with concentrations below the blank action level were qualified "U" for laboratory blank contamination.

Field Blank Contamination:

The following analytes were detected in the aqueous equipment blank, SUPE-EB-01-042821, at the following concentrations:

Analyte	Maximum Concentration	Blank Action Level
1,2,3,4,6,7,8-HpCDD	0.61 JI pg/l	3.05 pg/l
1,2,3,4,6,7,8-HpCDF	0.36 JI pg/l	1.8 pg/l
1,2,3,4,7,8-HxCDD	1.2 J pg/l	6 pg/l
1,2,3,7,8,9-HxCDD	0.51 J pg/l	2.55 pg/l
OCDD	2.2 J pg/l	11 pg/l
OCDF	1.3 JI pg/l	6.5 pg/l
Total HpCDD	1.6 JI pg/l	8 pg/l
Total HpCDF	0.36 JI pg/l	1.8 pg/l
Total HxCDD	1.8 J pg/l	9 pg/l

The following analytes were detected in the aqueous equipment blank, SUPE-EB-02-042921, at the following concentrations:

Analyte	Maximum Concentration	Blank Action Level
1,2,3,4,6,7,8-HpCDF	0.37 JI pg/l	1.85 pg/l
1,2,3,4,7,8-HxCDD	0.98 J pg/l	4.9 pg/l
1,2,3,4,7,8,9-HpCDF	0.32 J pg/l	1.6 pg/l
1,2,3,6,7,8-HxCDD	0.47 J pg/l	2.35 pg/l
OCDD	2 JI pg/l	10 pg/l
OCDF	1.2 JI pg/l	6 pg/l
Total HpCDF	0.69 JI pg/l	3.45 pg/l
Total HxCDD	1.4 J pg/l	7 pg/l
Total TCDF	0.39 JI pg/l	1.95 pg/l

An action level of 5X the maximum concentration was used to evaluate the sample data for field blank contamination. Associated samples with concentrations below the blank action level were qualified "U" for field blank contamination.

Field Duplicate Precision:

FIELD DUPLICATE PRECISION					
ANALYTE	W-28C	QUAL	M-99A	QUAL	RPD
Benzo(a)anthracene	0.092	J	0.047	J	64.75*
1,2,3,4,6,7,8-HpCDD	10	J	7.9	J	23.46
1,2,3,4,6,7,8-HpCDF	0.99	JI	1.1	J	10.53
1,2,3,4,7,8-HxCDD	1.2	JI	1.2	J	0.00
1,2,3,6,7,8-HxCDD	0.57	JI	0.26	U	NC
1,2,3,7,8-PeCDD	0.2	U	0.48	JI	NC
1,2,3,7,8,9-HxCDD	0.9	J	0.79	JI	13.02
OCDD	93	J	81	J	13.79
OCDF	4.6	JI	5.9	J	24.76
Total HpCDD	46	J	34	J	30.00
Total HpCDF	2.5	JI	3	JI	18.18
Total HxCDD	7.3	JI	4	JI	58.41*
Total HxCDF	2.1	J	1.4	JI	40.00*
Total PeCDD	0.2	U	0.48	JI	NC
Total TCDD	0.31	U	0.69	JI	NC
Total TCDF	0.22	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

APPENDIX E

LABORATORY ANALYTICAL DATA

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-198446-1
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:
5/19/2021 10:55:14 AM
Shali Brown, Project Manager II
(615)301-5031
Shali.Brown@Eurofinset.com

Designee for

Gail Lage, Senior Project Manager
(615)301-5741
Gail.Lage@Eurofinset.com

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Case Narrative

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Job ID: 500-198446-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-198446-1

Comments
No additional comments.

Receipt
The samples were received on 4/30/2021 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were -1.4º C, -1.3º C, -1.3º C, -0.7º C, -0.7º C, -0.6º C, -0.1º C and 0.2º C.

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

GC/MS Semi VOA
Method 8270D LL: The following samples were diluted due to color, appearance,and viscosity: SUPE-W-04AR2-042821, SUPE-W-30A-042821 and SUPE-W-10AR2-042821. Elevated reporting limits (RL) are provided.

Method 8270D LL: The continuing calibration verification (CCV) associated with batch 480-579609 recovered outside acceptance criteria, low biased, for Pentachlorophenol. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 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-30A-042821. These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-596308 and analytical batch 500-596549 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The following samples contained one acid surrogate outside acceptance limits:SUPE-EB-02-042921 and SUPE-W-30C-042921. 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.

Dioxin
No analytical or quality issues were noted, other than those described 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
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-28C-042821 — Lab Sample ID: 500-198446-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.092	J	0.19	0.042	ug/L	1		8270D	Total/NA
1,2,3,4,7,8-HxCDD	1.2	J I	48	0.21	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.57	J I	48	0.19	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.90	J	48	0.19	pg/L	1		8290A	Total/NA
Total HxCDD	7.3	J I	48	0.20	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	10	J	48	0.37	pg/L	1		8290A	Total/NA
Total HpCDD	46	J	48	0.37	pg/L	1		8290A	Total/NA
OCDD	93	J B	95	0.10	pg/L	1		8290A	Total/NA
Total TCDF	0.22	J I	9.5	0.21	pg/L	1		8290A	Total/NA
Total HxCDF	2.1	J	48	0.24	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.99	J I	48	0.17	pg/L	1		8290A	Total/NA
Total HpCDF	2.5	J I	48	0.20	pg/L	1		8290A	Total/NA
OCDF	4.6	J I B	95	0.053	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-EB-01-042821 — Lab Sample ID: 500-198446-2

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	1.2	J	49	0.19	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.51	J	49	0.17	pg/L	1		8290A	Total/NA
Total HxCDD	1.8	J	49	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.61	J I	49	0.29	pg/L	1		8290A	Total/NA
Total HpCDD	1.6	J I	49	0.29	pg/L	1		8290A	Total/NA
OCDD	2.2	J B	98	0.12	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.36	J I	49	0.18	pg/L	1		8290A	Total/NA
Total HpCDF	0.36	J I	49	0.23	pg/L	1		8290A	Total/NA
OCDF	1.3	J I B	98	0.17	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-18D-042821 — Lab Sample ID: 500-198446-3

No Detections.

Client Sample ID: SUPE-W-04AR2-042821 — Lab Sample ID: 500-198446-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	4.0		0.97	0.31	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.094	J	0.19	0.054	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.18	J	0.19	0.056	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.092	J	0.19	0.072	ug/L	1		8270D	Total/NA
Chrysene	0.38	J	0.49	0.14	ug/L	1		8270D	Total/NA
Fluoranthene	0.34	J	0.97	0.31	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.19		0.19	0.043	ug/L	1		8270D	Total/NA
1,2,3,4,7,8-HxCDD	1.8	J	49	0.40	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	1.6	J I	49	0.37	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.3	J I	49	0.37	pg/L	1		8290A	Total/NA
Total HxCDD	25	J I	49	0.38	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	55		49	0.86	pg/L	1		8290A	Total/NA
Total HpCDD	300		49	0.86	pg/L	1		8290A	Total/NA
OCDD	660	B	99	0.18	pg/L	1		8290A	Total/NA
Total TCDF	0.56	J	9.9	0.26	pg/L	1		8290A	Total/NA
Total PeCDF	4.6	J I	49	0.42	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	0.92	J I	49	0.37	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	1.2	J	49	0.40	pg/L	1		8290A	Total/NA
Total HxCDF	25	J I	49	0.42	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-W-04AR2-042821 (Continued)
Lab Sample ID: 500-198446-4

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDF	6.4	J	49	0.22	pg/L	1		8290A	Total/NA
Total HpCDF	23	J	49	0.26	pg/L	1		8290A	Total/NA
OCDF	29	J B	99	0.13	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-30A-042821
Lab Sample ID: 500-198446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.1		1.0	0.75	ug/L	1		8260C	Total/NA
Benzene	1.8		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	4.5		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	0.90	J	2.0	0.66	ug/L	1		8260C	Total/NA
Naphthalene	10		1.0	0.43	ug/L	1		8260C	Total/NA
o-Xylene	1.4		1.0	0.76	ug/L	1		8260C	Total/NA
Xylenes, Total	2.3		2.0	0.66	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	16		2.1	0.51	ug/L	1		8270D	Total/NA
Acenaphthene	42		1.0	0.37	ug/L	1		8270D	Total/NA
Acenaphthylene	1.0		1.0	0.33	ug/L	1		8270D	Total/NA
Anthracene	1.1		1.0	0.33	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.11	J	0.21	0.058	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.16	J	0.21	0.060	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.091	J	0.21	0.076	ug/L	1		8270D	Total/NA
Chrysene	0.29	J	0.51	0.14	ug/L	1		8270D	Total/NA
Dibenzofuran	15		2.1	0.36	ug/L	1		8270D	Total/NA
Fluoranthene	1.8		1.0	0.33	ug/L	1		8270D	Total/NA
Fluorene	14		1.0	0.39	ug/L	1		8270D	Total/NA
Pyrene	1.2		1.0	0.49	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.24		0.21	0.045	ug/L	1		8270D	Total/NA
Phenanthrene	4.7		1.0	0.36	ug/L	1		8270D	Total/NA
Total TCDD	0.12	J I	11	0.056	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDD	0.34	J I	53	0.069	pg/L	1		8290A	Total/NA
Total PeCDD	1.3	J I	53	0.069	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.6	J I	53	0.15	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	4.7	J	53	0.14	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.7	J	53	0.14	pg/L	1		8290A	Total/NA
Total HxCDD	30	J I	53	0.14	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	170		53	0.48	pg/L	1		8290A	Total/NA
Total HpCDD	430		53	0.48	pg/L	1		8290A	Total/NA
OCDD	2100	B	110	0.036	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.27	J	11	0.092	pg/L	1		8290A	Total/NA
Total TCDF	18	I	11	0.092	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDF	0.84	J	53	0.23	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	0.98	J	53	0.21	pg/L	1		8290A	Total/NA
Total PeCDF	96	I	53	0.22	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	6.4	J	53	1.2	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	12	J	53	1.3	pg/L	1		8290A	Total/NA
Total HxCDF	130	I	53	1.3	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	46	J	53	0.14	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	4.7	J	53	0.20	pg/L	1		8290A	Total/NA
Total HpCDF	180	I	53	0.17	pg/L	1		8290A	Total/NA
OCDF	170	B	110	0.080	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-W-10AR2-042821 — Lab Sample ID: 500-198446-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	9.0		1.0	0.75	ug/L	1		8260C	Total/NA
Benzene	15		1.0	0.41	ug/L	1		8260C	Total/NA
Ethylbenzene	21		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.6		2.0	0.66	ug/L	1		8260C	Total/NA
Naphthalene	6.3		1.0	0.43	ug/L	1		8260C	Total/NA
o-Xylene	16		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	19		2.0	0.66	ug/L	1		8260C	Total/NA
1-Methylnaphthalene	23		2.0	0.51	ug/L	1		8270D	Total/NA
Acenaphthene	68		1.0	0.36	ug/L	1		8270D	Total/NA
Acenaphthylene	1.8		1.0	0.32	ug/L	1		8270D	Total/NA
Anthracene	0.82	J	1.0	0.32	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.090	J	0.20	0.059	ug/L	1		8270D	Total/NA
Chrysene	0.16	J	0.51	0.14	ug/L	1		8270D	Total/NA
Fluoranthene	2.0		1.0	0.32	ug/L	1		8270D	Total/NA
Fluorene	21		1.0	0.38	ug/L	1		8270D	Total/NA
Phenol	0.71	J	5.1	0.36	ug/L	1		8270D	Total/NA
Pyrene	1.2		1.0	0.49	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.13	J	0.20	0.045	ug/L	1		8270D	Total/NA
Phenanthrene	4.7		1.0	0.35	ug/L	1		8270D	Total/NA
1,2,3,4,7,8-HxCDD	1.0	J I	52	0.43	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.66	J I	52	0.39	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.90	J I	52	0.39	pg/L	1		8290A	Total/NA
Total HxCDD	7.4	J I	52	0.40	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	20	J	52	0.84	pg/L	1		8290A	Total/NA
Total HpCDD	65		52	0.84	pg/L	1		8290A	Total/NA
OCDD	170	B	100	0.18	pg/L	1		8290A	Total/NA
Total TCDF	6.3	J I	10	0.27	pg/L	1		8290A	Total/NA
Total PeCDF	17	J I	52	0.28	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	1.5	J I	52	0.58	pg/L	1		8290A	Total/NA
Total HxCDF	22	J I	52	0.60	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	3.5	J	52	0.27	pg/L	1		8290A	Total/NA
Total HpCDF	12	J	52	0.33	pg/L	1		8290A	Total/NA
OCDF	14	J B	100	0.11	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-M-99A-042821 — Lab Sample ID: 500-198446-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.047	J	0.19	0.043	ug/L	1		8270D	Total/NA
Total TCDD	0.69	J I	9.6	0.27	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDD	0.48	J I	48	0.14	pg/L	1		8290A	Total/NA
Total PeCDD	0.48	J I	48	0.14	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.2	J	48	0.28	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.79	J I	48	0.26	pg/L	1		8290A	Total/NA
Total HxCDD	4.0	J I	48	0.27	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	7.9	J	48	0.44	pg/L	1		8290A	Total/NA
Total HpCDD	34	J	48	0.44	pg/L	1		8290A	Total/NA
OCDD	81	J B	96	0.14	pg/L	1		8290A	Total/NA
Total HxCDF	1.4	J I	48	0.27	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.1	J	48	0.30	pg/L	1		8290A	Total/NA
Total HpCDF	3.0	J I	48	0.36	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-M-99A-042821 (Continued) — Lab Sample ID: 500-198446-7

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDF	5.9	J B	96	0.19	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-TB-01-042821 — Lab Sample ID: 500-198446-8

No Detections.

Client Sample ID: SUPE-W-06A-042821 — Lab Sample ID: 500-198446-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.055	J	0.21	0.046	ug/L	1		8270D	Total/NA
1,2,3,4,7,8-HxCDD	1.4	J	51	0.35	pg/L	1		8290A	Total/NA
Total HxCDD	1.4	J	51	0.32	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	5.4	J	51	0.63	pg/L	1		8290A	Total/NA
Total HpCDD	14	J I	51	0.63	pg/L	1		8290A	Total/NA
OCDD	59	J B	100	0.21	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	1.3	J	51	0.29	pg/L	1		8290A	Total/NA
Total HpCDF	3.3	J I	51	0.34	pg/L	1		8290A	Total/NA
OCDF	5.8	J B	100	0.22	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-06C-042821 — Lab Sample ID: 500-198446-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.048	J	0.21	0.045	ug/L	1		8270D	Total/NA
Total TCDD	0.26	J	10	0.11	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	1.0	J I	52	0.22	pg/L	1		8290A	Total/NA
Total HxCDD	1.0	J I	52	0.21	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	4.1	J	52	0.16	pg/L	1		8290A	Total/NA
Total HpCDD	14	J	52	0.16	pg/L	1		8290A	Total/NA
OCDD	48	J B	100	0.17	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.76	J	52	0.20	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.40	J I	52	0.28	pg/L	1		8290A	Total/NA
Total HpCDF	2.7	J I	52	0.24	pg/L	1		8290A	Total/NA
OCDF	3.6	J I B	100	0.093	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-12A-042921 — Lab Sample ID: 500-198446-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.050	J	0.21	0.046	ug/L	1		8270D	Total/NA
Total PeCDD	0.81	J I	51	0.28	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	2.0	J I	51	0.39	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	4.7	J I	51	0.36	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.7	J	51	0.35	pg/L	1		8290A	Total/NA
Total HxCDD	17	J I	51	0.37	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	47	J	51	0.69	pg/L	1		8290A	Total/NA
Total HpCDD	84		51	0.69	pg/L	1		8290A	Total/NA
OCDD	230	B	100	0.14	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.50	J	10	0.27	pg/L	1		8290A	Total/NA
Total TCDF	36	I	10	0.27	pg/L	1		8290A	Total/NA
1,2,3,7,8-PeCDF	0.88	J	51	0.35	pg/L	1		8290A	Total/NA
2,3,4,7,8-PeCDF	0.97	J I	51	0.32	pg/L	1		8290A	Total/NA
Total PeCDF	51	I	51	0.34	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	6.7	J	51	0.58	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	3.8	J I	51	0.61	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-W-12A-042921 (Continued) — Lab Sample ID: 500-198446-11

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,4,6,7,8-HxCDF	1.3	J I	51	0.66	pg/L	1		8290A	Total/NA
Total HxCDF	73	I	51	0.66	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	11	J	51	0.45	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	2.2	J I	51	0.59	pg/L	1		8290A	Total/NA
Total HpCDF	37	J I	51	0.52	pg/L	1		8290A	Total/NA
OCDF	24	J B	100	0.17	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-EB-02-042921 — Lab Sample ID: 500-198446-12

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	0.98	J	49	0.25	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.47	J	49	0.23	pg/L	1		8290A	Total/NA
Total HxCDD	1.4	J	49	0.23	pg/L	1		8290A	Total/NA
OCDD	2.0	J I B	98	0.069	pg/L	1		8290A	Total/NA
Total TCDF	0.39	J I	9.8	0.20	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.37	J I	49	0.19	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.32	J	49	0.28	pg/L	1		8290A	Total/NA
Total HpCDF	0.69	J I	49	0.24	pg/L	1		8290A	Total/NA
OCDF	1.2	J I B	98	0.14	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-30C-042921 — Lab Sample ID: 500-198446-13

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	0.84	J I	51	0.33	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	2.2	J I	51	0.30	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	1.2	J	51	0.30	pg/L	1		8290A	Total/NA
Total HxCDD	13	J I	51	0.31	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	42	J	51	0.47	pg/L	1		8290A	Total/NA
Total HpCDD	71		51	0.47	pg/L	1		8290A	Total/NA
OCDD	140	B	100	0.26	pg/L	1		8290A	Total/NA
Total TCDF	67	I	10	0.31	pg/L	1		8290A	Total/NA
Total PeCDF	14	J I	51	0.28	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDF	1.1	J	51	0.25	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDF	1.8	J I	51	0.28	pg/L	1		8290A	Total/NA
2,3,4,6,7,8-HxCDF	1.1	J I	51	0.28	pg/L	1		8290A	Total/NA
Total HxCDF	40	J I	51	0.29	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	7.4	J	51	0.26	pg/L	1		8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	2.3	J I	51	0.37	pg/L	1		8290A	Total/NA
Total HpCDF	32	J I	51	0.32	pg/L	1		8290A	Total/NA
OCDF	16	J B	100	0.12	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-12CR-042921 — Lab Sample ID: 500-198446-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.048	J	0.19	0.042	ug/L	1		8270D	Total/NA
Total PeCDD	0.27	J	52	0.084	pg/L	1		8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.95	J	52	0.090	pg/L	1		8290A	Total/NA
1,2,3,6,7,8-HxCDD	0.36	J I	52	0.082	pg/L	1		8290A	Total/NA
1,2,3,7,8,9-HxCDD	0.30	J	52	0.081	pg/L	1		8290A	Total/NA
Total HxCDD	3.4	J I	52	0.085	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	4.8	J	52	0.13	pg/L	1		8290A	Total/NA
Total HpCDD	17	J	52	0.13	pg/L	1		8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SUPE-W-12CR-042921 (Continued)
Lab Sample ID: 500-198446-14

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
OCDD	59	J B	100	0.045	pg/L	1		8290A	Total/NA
2,3,7,8-TCDF	0.083	J I	10	0.071	pg/L	1		8290A	Total/NA
Total TCDF	0.35	J I	10	0.071	pg/L	1		8290A	Total/NA
Total PeCDF	0.78	J I	52	0.092	pg/L	1		8290A	Total/NA
Total HxCDF	2.2	J I	52	0.080	pg/L	1		8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.97	J	52	0.089	pg/L	1		8290A	Total/NA
Total HpCDF	3.0	J I	52	0.11	pg/L	1		8290A	Total/NA
OCDF	3.9	J B	100	0.036	pg/L	1		8290A	Total/NA

Client Sample ID: SUPE-W-TB-02-042921
Lab Sample ID: 500-198446-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

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
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL KNX
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
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 BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL KNX = Eurofins TestAmerica, Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198446-1	SUPE-W-28C-042821	Water	04/28/21 09:08	04/30/21 08:45	
500-198446-2	SUPE-EB-01-042821	Water	04/28/21 09:50	04/30/21 08:45	
500-198446-3	SUPE-W-18D-042821	Water	04/28/21 10:51	04/30/21 08:45	
500-198446-4	SUPE-W-04AR2-042821	Water	04/28/21 12:07	04/30/21 08:45	
500-198446-5	SUPE-W-30A-042821	Water	04/28/21 14:41	04/30/21 08:45	
500-198446-6	SUPE-W-10AR2-042821	Water	04/28/21 16:53	04/30/21 08:45	
500-198446-7	SUPE-M-99A-042821	Water	04/28/21 22:00	04/30/21 08:45	
500-198446-8	SUPE-TB-01-042821	Water	04/28/21 13:53	04/30/21 08:45	
500-198446-9	SUPE-W-06A-042821	Water	04/28/21 14:00	04/30/21 08:45	
500-198446-10	SUPE-W-06C-042821	Water	04/28/21 17:20	04/30/21 08:45	
500-198446-11	SUPE-W-12A-042921	Water	04/29/21 10:13	04/30/21 08:45	
500-198446-12	SUPE-EB-02-042921	Water	04/29/21 10:18	04/30/21 08:45	
500-198446-13	SUPE-W-30C-042921	Water	04/29/21 12:51	04/30/21 08:45	
500-198446-14	SUPE-W-12CR-042921	Water	04/29/21 08:21	04/30/21 08:45	
500-198446-15	SUPE-W-TB-02-042921	Water	04/29/21 10:00	04/30/21 08:45	

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-28C-042821
Lab Sample ID: 500-198446-1
Date Collected: 04/28/21 09:08
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 00:39	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 00:39	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 00:39	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 00:39	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 00:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 00:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 00:39	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 00:39	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 00:39	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 00:39	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 00:39	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 00:39	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 00:39	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 00:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*05/04/21 00:39*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*05/04/21 00:39*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*05/04/21 00:39*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*05/04/21 00:39*	*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		05/04/21 14:51	05/06/21 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*24 - 146*	*05/04/21 14:51*	*05/06/21 15:39*	*1*
2-Fluorobiphenyl	*98*		*37 - 120*	*05/04/21 14:51*	*05/06/21 15:39*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*05/04/21 14:51*	*05/06/21 15:39*	*1*
Nitrobenzene-d5 (Surr)	*84*		*26 - 120*	*05/04/21 14:51*	*05/06/21 15:39*	*1*
Phenol-d5 (Surr)	*34*		*11 - 120*	*05/04/21 14:51*	*05/06/21 15:39*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*05/04/21 14:51*	*05/06/21 15:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 02:39	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 02:39	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		05/03/21 07:11	05/04/21 02:39	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 02:39	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		05/03/21 07:11	05/04/21 02:39	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.4	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,4,5-Trichlorophenol	ND		9.6	2.2	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,4,6-Trichlorophenol	ND		4.8	1.1	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,4-Dichlorophenol	ND		9.6	2.2	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,4-Dinitrotoluene	ND		0.96	0.29	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,6-Dinitrotoluene	ND		0.96	0.11	ug/L		05/03/21 07:11	05/04/21 02:39	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 02:39	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-28C-042821
Date Collected: 04/28/21 09:08
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 02:39	1
2-Chlorophenol	ND		4.8	0.77	ug/L		05/03/21 07:11	05/04/21 02:39	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		05/03/21 07:11	05/04/21 02:39	1
2-Methylphenol	ND		1.9	0.30	ug/L		05/03/21 07:11	05/04/21 02:39	1
2-Nitroaniline	ND		4.8	1.0	ug/L		05/03/21 07:11	05/04/21 02:39	1
2-Nitrophenol	ND		9.6	2.0	ug/L		05/03/21 07:11	05/04/21 02:39	1
3-Nitroaniline	ND		9.6	2.2	ug/L		05/03/21 07:11	05/04/21 02:39	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		05/03/21 07:11	05/04/21 02:39	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		05/03/21 07:11	05/04/21 02:39	1
4-Chloro-3-methylphenol	ND		9.6	2.1	ug/L		05/03/21 07:11	05/04/21 02:39	1
4-Chloroaniline	ND		9.6	2.0	ug/L		05/03/21 07:11	05/04/21 02:39	1
4-Chlorophenyl phenyl ether	ND		4.8	0.78	ug/L		05/03/21 07:11	05/04/21 02:39	1
4-Nitroaniline	ND		9.6	3.8	ug/L		05/03/21 07:11	05/04/21 02:39	1
4-Nitrophenol	ND		19	2.2	ug/L		05/03/21 07:11	05/04/21 02:39	1
Acenaphthene	ND		0.96	0.34	ug/L		05/03/21 07:11	05/04/21 02:39	1
Acenaphthylene	ND		0.96	0.31	ug/L		05/03/21 07:11	05/04/21 02:39	1
Anthracene	ND		0.96	0.31	ug/L		05/03/21 07:11	05/04/21 02:39	1
Benzo[a]pyrene	ND		0.19	0.054	ug/L		05/03/21 07:11	05/04/21 02:39	1
Benzo[b]fluoranthene	ND		0.19	0.056	ug/L		05/03/21 07:11	05/04/21 02:39	1
Benzo[g,h,i]perylene	ND		0.96	0.40	ug/L		05/03/21 07:11	05/04/21 02:39	1
Benzo[k]fluoranthene	ND		0.19	0.071	ug/L		05/03/21 07:11	05/04/21 02:39	1
Benzoic acid	ND		19	4.4	ug/L		05/03/21 07:11	05/04/21 02:39	1
Benzyl alcohol	ND		19	2.9	ug/L		05/03/21 07:11	05/04/21 02:39	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 02:39	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 02:39	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.3	ug/L		05/03/21 07:11	05/04/21 02:39	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 02:39	1
Chrysene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 02:39	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		05/03/21 07:11	05/04/21 02:39	1
Dibenzofuran	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 02:39	1
Diethyl phthalate	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 02:39	1
Dimethyl phthalate	ND		1.9	0.36	ug/L		05/03/21 07:11	05/04/21 02:39	1
Di-n-butyl phthalate	ND		4.8	0.77	ug/L		05/03/21 07:11	05/04/21 02:39	1
Di-n-octyl phthalate	ND		9.6	2.4	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		05/03/21 07:11	05/04/21 02:39	1
Fluoranthene	ND		0.96	0.31	ug/L		05/03/21 07:11	05/04/21 02:39	1
Fluorene	ND		0.96	0.36	ug/L		05/03/21 07:11	05/04/21 02:39	1
Hexachlorobenzene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 02:39	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		05/03/21 07:11	05/04/21 02:39	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		05/03/21 07:11	05/04/21 02:39	1
Hexachloroethane	ND		4.8	0.93	ug/L		05/03/21 07:11	05/04/21 02:39	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		05/03/21 07:11	05/04/21 02:39	1
Isophorone	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 02:39	1
Nitrobenzene	ND		0.96	0.43	ug/L		05/03/21 07:11	05/04/21 02:39	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 02:39	1
N-Nitrosodiphenylamine	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 02:39	1
Phenol	ND		4.8	0.34	ug/L		05/03/21 07:11	05/04/21 02:39	1
Pyrene	ND		0.96	0.46	ug/L		05/03/21 07:11	05/04/21 02:39	1
2,4-Dimethylphenol	ND		9.6	3.2	ug/L		05/03/21 07:11	05/04/21 02:39	1

Client Sample ID: SUPE-W-28C-042821
Lab Sample ID: 500-198446-1

Date Collected: 04/28/21 09:08
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.092**	**J**	0.19	0.042	ug/L		05/03/21 07:11	05/04/21 02:39	1
Phenanthrene	ND		0.96	0.33	ug/L		05/03/21 07:11	05/04/21 02:39	1
3,3'-Dichlorobenzidine	ND		4.8	0.90	ug/L		05/03/21 07:11	05/04/21 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*40 - 145*	*05/03/21 07:11*	*05/04/21 02:39*	*1*
2-Fluorobiphenyl	*85*		*34 - 110*	*05/03/21 07:11*	*05/04/21 02:39*	*1*
2-Fluorophenol (Surr)	*40*		*27 - 110*	*05/03/21 07:11*	*05/04/21 02:39*	*1*
Nitrobenzene-d5 (Surr)	*69*		*36 - 120*	*05/03/21 07:11*	*05/04/21 02:39*	*1*
Phenol-d5 (Surr)	*21*		*20 - 100*	*05/03/21 07:11*	*05/04/21 02:39*	*1*
Terphenyl-d14 (Surr)	*88*		*40 - 145*	*05/03/21 07:11*	*05/04/21 02:39*	*1*

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	0.31	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total TCDD	ND		9.5	0.31	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,7,8-PeCDD	ND		48	0.20	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total PeCDD	ND		48	0.20	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,4,7,8-HxCDD	**1.2**	**J I**	48	0.21	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,6,7,8-HxCDD	**0.57**	**J I**	48	0.19	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,7,8,9-HxCDD	**0.90**	**J**	48	0.19	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total HxCDD	**7.3**	**J I**	48	0.20	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,4,6,7,8-HpCDD	**10**	**J**	48	0.37	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total HpCDD	**46**	**J**	48	0.37	pg/L		05/03/21 13:46	05/12/21 03:23	1
OCDD	**93**	**J B**	95	0.10	pg/L		05/03/21 13:46	05/12/21 03:23	1
2,3,7,8-TCDF	ND		9.5	0.21	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total TCDF	**0.22**	**J I**	9.5	0.21	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,7,8-PeCDF	ND		48	0.26	pg/L		05/03/21 13:46	05/12/21 03:23	1
2,3,4,7,8-PeCDF	ND		48	0.25	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total PeCDF	ND		48	0.26	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,4,7,8-HxCDF	ND		48	0.22	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,6,7,8-HxCDF	ND		48	0.23	pg/L		05/03/21 13:46	05/12/21 03:23	1
2,3,4,6,7,8-HxCDF	ND		48	0.23	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,7,8,9-HxCDF	ND		48	0.28	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total HxCDF	**2.1**	**J**	48	0.24	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,4,6,7,8-HpCDF	**0.99**	**J I**	48	0.17	pg/L		05/03/21 13:46	05/12/21 03:23	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.23	pg/L		05/03/21 13:46	05/12/21 03:23	1
Total HpCDF	**2.5**	**J I**	48	0.20	pg/L		05/03/21 13:46	05/12/21 03:23	1
OCDF	**4.6**	**J I B**	95	0.053	pg/L		05/03/21 13:46	05/12/21 03:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-1,2,3,7,8-PeCDD	*81*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-1,2,3,4,7,8-HxCDD	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-OCDD	*101*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-2,3,4,7,8-PeCDF	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*
13C-1,2,3,4,7,8-HxCDF	*96*		*40 - 135*	*05/03/21 13:46*	*05/12/21 03:23*	*1*

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-28C-042821
Date Collected: 04/28/21 09:08
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-1
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	85		40 - 135	05/03/21 13:46	05/12/21 03:23	1
13C-2,3,4,6,7,8-HxCDF	87		40 - 135	05/03/21 13:46	05/12/21 03:23	1
13C-1,2,3,7,8,9-HxCDF	93		40 - 135	05/03/21 13:46	05/12/21 03:23	1
13C-1,2,3,4,6,7,8-HpCDF	96		40 - 135	05/03/21 13:46	05/12/21 03:23	1
13C-1,2,3,4,7,8,9-HpCDF	96		40 - 135	05/03/21 13:46	05/12/21 03:23	1
13C-OCDF	79		40 - 135	05/03/21 13:46	05/12/21 03:23	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-EB-01-042821
Lab Sample ID: 500-198446-2
Date Collected: 04/28/21 09:50
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 01:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 01:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 01:02	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 01:02	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 01:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 01:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 01:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 01:02	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 01:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 01:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 01:02	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 01:02	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 01:02	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 01:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*05/04/21 01:02*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*05/04/21 01:02*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*05/04/21 01:02*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*05/04/21 01:02*	*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		05/04/21 14:51	05/06/21 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*24 - 146*	*05/04/21 14:51*	*05/06/21 16:06*	*1*
2-Fluorobiphenyl	*103*		*37 - 120*	*05/04/21 14:51*	*05/06/21 16:06*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*05/04/21 14:51*	*05/06/21 16:06*	*1*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*	*05/04/21 14:51*	*05/06/21 16:06*	*1*
Phenol-d5 (Surr)	*35*		*11 - 120*	*05/04/21 14:51*	*05/06/21 16:06*	*1*
p-Terphenyl-d14	*114*		*64 - 127*	*05/04/21 14:51*	*05/06/21 16:06*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:01	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 03:01	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		05/03/21 07:11	05/04/21 03:01	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 03:01	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		05/03/21 07:11	05/04/21 03:01	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.4	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,4,5-Trichlorophenol	ND		9.5	2.2	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,4,6-Trichlorophenol	ND		4.8	1.0	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,4-Dichlorophenol	ND		9.5	2.2	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,4-Dinitrotoluene	ND		0.95	0.29	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,6-Dinitrotoluene	ND		0.95	0.11	ug/L		05/03/21 07:11	05/04/21 03:01	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 03:01	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-EB-01-042821
Lab Sample ID: 500-198446-2
Date Collected: 04/28/21 09:50
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.9	0.32	ug/L		05/03/21 07:11	05/04/21 03:01	1
2-Chlorophenol	ND		4.8	0.76	ug/L		05/03/21 07:11	05/04/21 03:01	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		05/03/21 07:11	05/04/21 03:01	1
2-Methylphenol	ND		1.9	0.30	ug/L		05/03/21 07:11	05/04/21 03:01	1
2-Nitroaniline	ND		4.8	1.0	ug/L		05/03/21 07:11	05/04/21 03:01	1
2-Nitrophenol	ND		9.5	2.0	ug/L		05/03/21 07:11	05/04/21 03:01	1
3-Nitroaniline	ND		9.5	2.2	ug/L		05/03/21 07:11	05/04/21 03:01	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		05/03/21 07:11	05/04/21 03:01	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		05/03/21 07:11	05/04/21 03:01	1
4-Chloro-3-methylphenol	ND		9.5	2.1	ug/L		05/03/21 07:11	05/04/21 03:01	1
4-Chloroaniline	ND		9.5	2.0	ug/L		05/03/21 07:11	05/04/21 03:01	1
4-Chlorophenyl phenyl ether	ND		4.8	0.77	ug/L		05/03/21 07:11	05/04/21 03:01	1
4-Nitroaniline	ND		9.5	3.7	ug/L		05/03/21 07:11	05/04/21 03:01	1
4-Nitrophenol	ND		19	2.2	ug/L		05/03/21 07:11	05/04/21 03:01	1
Acenaphthene	ND		0.95	0.34	ug/L		05/03/21 07:11	05/04/21 03:01	1
Acenaphthylene	ND		0.95	0.30	ug/L		05/03/21 07:11	05/04/21 03:01	1
Anthracene	ND		0.95	0.30	ug/L		05/03/21 07:11	05/04/21 03:01	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		05/03/21 07:11	05/04/21 03:01	1
Benzo[b]fluoranthene	ND		0.19	0.055	ug/L		05/03/21 07:11	05/04/21 03:01	1
Benzo[g,h,i]perylene	ND		0.95	0.40	ug/L		05/03/21 07:11	05/04/21 03:01	1
Benzo[k]fluoranthene	ND		0.19	0.070	ug/L		05/03/21 07:11	05/04/21 03:01	1
Benzoic acid	ND		19	4.3	ug/L		05/03/21 07:11	05/04/21 03:01	1
Benzyl alcohol	ND		19	2.9	ug/L		05/03/21 07:11	05/04/21 03:01	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:01	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 03:01	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.3	ug/L		05/03/21 07:11	05/04/21 03:01	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 03:01	1
Chrysene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 03:01	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		05/03/21 07:11	05/04/21 03:01	1
Dibenzofuran	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 03:01	1
Diethyl phthalate	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 03:01	1
Dimethyl phthalate	ND		1.9	0.36	ug/L		05/03/21 07:11	05/04/21 03:01	1
Di-n-butyl phthalate	ND		4.8	0.76	ug/L		05/03/21 07:11	05/04/21 03:01	1
Di-n-octyl phthalate	ND		9.5	2.4	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		05/03/21 07:11	05/04/21 03:01	1
Fluoranthene	ND		0.95	0.30	ug/L		05/03/21 07:11	05/04/21 03:01	1
Fluorene	ND		0.95	0.36	ug/L		05/03/21 07:11	05/04/21 03:01	1
Hexachlorobenzene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 03:01	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		05/03/21 07:11	05/04/21 03:01	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		05/03/21 07:11	05/04/21 03:01	1
Hexachloroethane	ND		4.8	0.92	ug/L		05/03/21 07:11	05/04/21 03:01	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		05/03/21 07:11	05/04/21 03:01	1
Isophorone	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 03:01	1
Nitrobenzene	ND		0.95	0.43	ug/L		05/03/21 07:11	05/04/21 03:01	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 03:01	1
N-Nitrosodiphenylamine	ND		1.9	0.32	ug/L		05/03/21 07:11	05/04/21 03:01	1
Phenol	ND		4.8	0.34	ug/L		05/03/21 07:11	05/04/21 03:01	1
Pyrene	ND		0.95	0.46	ug/L		05/03/21 07:11	05/04/21 03:01	1
2,4-Dimethylphenol	ND		9.5	3.2	ug/L		05/03/21 07:11	05/04/21 03:01	1

Client Sample ID: SUPE-EB-01-042821
Lab Sample ID: 500-198446-2

Date Collected: 04/28/21 09:50
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.19	0.042	ug/L		05/03/21 07:11	05/04/21 03:01	1
Phenanthrene	ND		0.95	0.33	ug/L		05/03/21 07:11	05/04/21 03:01	1
3,3'-Dichlorobenzidine	ND		4.8	0.90	ug/L		05/03/21 07:11	05/04/21 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*40 - 145*	*05/03/21 07:11*	*05/04/21 03:01*	*1*
2-Fluorobiphenyl	*93*		*34 - 110*	*05/03/21 07:11*	*05/04/21 03:01*	*1*
2-Fluorophenol (Surr)	*47*		*27 - 110*	*05/03/21 07:11*	*05/04/21 03:01*	*1*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*05/03/21 07:11*	*05/04/21 03:01*	*1*
Phenol-d5 (Surr)	*20*		*20 - 100*	*05/03/21 07:11*	*05/04/21 03:01*	*1*
Terphenyl-d14 (Surr)	*97*		*40 - 145*	*05/03/21 07:11*	*05/04/21 03:01*	*1*

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	0.11	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total TCDD	ND		9.8	0.14	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,7,8-PeCDD	ND		49	0.21	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total PeCDD	ND		49	0.21	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,4,7,8-HxCDD	**1.2**	**J**	49	0.19	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,6,7,8-HxCDD	ND		49	0.16	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,7,8,9-HxCDD	**0.51**	**J**	49	0.17	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total HxCDD	**1.8**	**J**	49	0.17	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,4,6,7,8-HpCDD	**0.61**	**J I**	49	0.29	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total HpCDD	**1.6**	**J I**	49	0.29	pg/L		05/03/21 13:46	05/12/21 02:24	1
OCDD	**2.2**	**J B**	98	0.12	pg/L		05/03/21 13:46	05/12/21 02:24	1
2,3,7,8-TCDF	ND		9.8	0.19	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total TCDF	ND		9.8	0.19	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,7,8-PeCDF	ND		49	0.24	pg/L		05/03/21 13:46	05/12/21 02:24	1
2,3,4,7,8-PeCDF	ND		49	0.21	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total PeCDF	ND		49	0.24	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,4,7,8-HxCDF	ND		49	0.17	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,6,7,8-HxCDF	ND		49	0.19	pg/L		05/03/21 13:46	05/12/21 02:24	1
2,3,4,6,7,8-HxCDF	ND		49	0.19	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,7,8,9-HxCDF	ND		49	0.23	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total HxCDF	ND		49	0.23	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,4,6,7,8-HpCDF	**0.36**	**J I**	49	0.18	pg/L		05/03/21 13:46	05/12/21 02:24	1
1,2,3,4,7,8,9-HpCDF	ND		49	0.27	pg/L		05/03/21 13:46	05/12/21 02:24	1
Total HpCDF	**0.36**	**J I**	49	0.23	pg/L		05/03/21 13:46	05/12/21 02:24	1
OCDF	**1.3**	**J I B**	98	0.17	pg/L		05/03/21 13:46	05/12/21 02:24	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-1,2,3,7,8-PeCDD	*76*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-1,2,3,4,7,8-HxCDD	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-1,2,3,6,7,8-HxCDD	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-OCDD	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-2,3,4,7,8-PeCDF	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*
13C-1,2,3,4,7,8-HxCDF	*93*		*40 - 135*	*05/03/21 13:46*	*05/12/21 02:24*	*1*

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

Job ID: 500-198446-1

Client Sample ID: SUPE-EB-01-042821
Date Collected: 04/28/21 09:50
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-2
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	81		40 - 135	05/03/21 13:46	05/12/21 02:24	1
13C-2,3,4,6,7,8-HxCDF	83		40 - 135	05/03/21 13:46	05/12/21 02:24	1
13C-1,2,3,7,8,9-HxCDF	85		40 - 135	05/03/21 13:46	05/12/21 02:24	1
13C-1,2,3,4,6,7,8-HpCDF	93		40 - 135	05/03/21 13:46	05/12/21 02:24	1
13C-1,2,3,4,7,8,9-HpCDF	88		40 - 135	05/03/21 13:46	05/12/21 02:24	1
13C-OCDF	75		40 - 135	05/03/21 13:46	05/12/21 02:24	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-18D-042821
Lab Sample ID: 500-198446-3
Date Collected: 04/28/21 10:51
Matrix: Water
Date Received: 04/30/21 08:45

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		05/04/21 14:51	05/06/21 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*97*		*24 - 146*	*05/04/21 14:51*	*05/06/21 16:34*	*1*
2-Fluorobiphenyl	*96*		*37 - 120*	*05/04/21 14:51*	*05/06/21 16:34*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*05/04/21 14:51*	*05/06/21 16:34*	*1*
Nitrobenzene-d5 (Surr)	*83*		*26 - 120*	*05/04/21 14:51*	*05/06/21 16:34*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*05/04/21 14:51*	*05/06/21 16:34*	*1*
p-Terphenyl-d14	*72*		*64 - 127*	*05/04/21 14:51*	*05/06/21 16:34*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:22	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 03:22	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		05/03/21 07:11	05/04/21 03:22	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 03:22	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		05/03/21 07:11	05/04/21 03:22	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.5	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,4,5-Trichlorophenol	ND		9.6	2.2	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,4,6-Trichlorophenol	ND		4.8	1.1	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,4-Dichlorophenol	ND		9.6	2.2	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,4-Dinitrotoluene	ND		0.96	0.29	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,6-Dinitrotoluene	ND		0.96	0.12	ug/L		05/03/21 07:11	05/04/21 03:22	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 03:22	1
2-Chloronaphthalene	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 03:22	1
2-Chlorophenol	ND		4.8	0.77	ug/L		05/03/21 07:11	05/04/21 03:22	1
2-Methylnaphthalene	ND		1.9	0.13	ug/L		05/03/21 07:11	05/04/21 03:22	1
2-Methylphenol	ND		1.9	0.30	ug/L		05/03/21 07:11	05/04/21 03:22	1
2-Nitroaniline	ND		4.8	1.0	ug/L		05/03/21 07:11	05/04/21 03:22	1
2-Nitrophenol	ND		9.6	2.1	ug/L		05/03/21 07:11	05/04/21 03:22	1
3-Nitroaniline	ND		9.6	2.2	ug/L		05/03/21 07:11	05/04/21 03:22	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		05/03/21 07:11	05/04/21 03:22	1
4-Bromophenyl phenyl ether	ND		4.8	0.88	ug/L		05/03/21 07:11	05/04/21 03:22	1
4-Chloro-3-methylphenol	ND		9.6	2.1	ug/L		05/03/21 07:11	05/04/21 03:22	1
4-Chloroaniline	ND		9.6	2.0	ug/L		05/03/21 07:11	05/04/21 03:22	1
4-Chlorophenyl phenyl ether	ND		4.8	0.78	ug/L		05/03/21 07:11	05/04/21 03:22	1
4-Nitroaniline	ND		9.6	3.8	ug/L		05/03/21 07:11	05/04/21 03:22	1
4-Nitrophenol	ND		19	2.3	ug/L		05/03/21 07:11	05/04/21 03:22	1
Acenaphthene	ND		0.96	0.35	ug/L		05/03/21 07:11	05/04/21 03:22	1
Acenaphthylene	ND		0.96	0.31	ug/L		05/03/21 07:11	05/04/21 03:22	1
Anthracene	ND		0.96	0.31	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzo[a]pyrene	ND		0.19	0.054	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzo[b]fluoranthene	ND		0.19	0.056	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzo[g,h,i]perylene	ND		0.96	0.40	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzo[k]fluoranthene	ND		0.19	0.071	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzoic acid	ND		19	4.4	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzyl alcohol	ND		19	2.9	ug/L		05/03/21 07:11	05/04/21 03:22	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:22	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-18D-042821
Date Collected: 04/28/21 10:51
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		1.9	0.34	ug/L		05/03/21 07:11	05/04/21 03:22	1
Bis(2-ethylhexyl) phthalate	ND		9.6	2.3	ug/L		05/03/21 07:11	05/04/21 03:22	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 03:22	1
Chrysene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 03:22	1
Dibenz(a,h)anthracene	ND		0.29	0.062	ug/L		05/03/21 07:11	05/04/21 03:22	1
Dibenzofuran	ND		1.9	0.34	ug/L		05/03/21 07:11	05/04/21 03:22	1
Diethyl phthalate	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 03:22	1
Dimethyl phthalate	ND		1.9	0.37	ug/L		05/03/21 07:11	05/04/21 03:22	1
Di-n-butyl phthalate	ND		4.8	0.77	ug/L		05/03/21 07:11	05/04/21 03:22	1
Di-n-octyl phthalate	ND		9.6	2.4	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		05/03/21 07:11	05/04/21 03:22	1
Fluoranthene	ND		0.96	0.31	ug/L		05/03/21 07:11	05/04/21 03:22	1
Fluorene	ND		0.96	0.37	ug/L		05/03/21 07:11	05/04/21 03:22	1
Hexachlorobenzene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 03:22	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		05/03/21 07:11	05/04/21 03:22	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		05/03/21 07:11	05/04/21 03:22	1
Hexachloroethane	ND		4.8	0.93	ug/L		05/03/21 07:11	05/04/21 03:22	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.081	ug/L		05/03/21 07:11	05/04/21 03:22	1
Isophorone	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 03:22	1
Naphthalene	ND		0.96	0.29	ug/L		05/03/21 07:11	05/04/21 03:22	1
Nitrobenzene	ND		0.96	0.43	ug/L		05/03/21 07:11	05/04/21 03:22	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 03:22	1
N-Nitrosodiphenylamine	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 03:22	1
Phenol	ND		4.8	0.35	ug/L		05/03/21 07:11	05/04/21 03:22	1
Pyrene	ND		0.96	0.46	ug/L		05/03/21 07:11	05/04/21 03:22	1
2,4-Dimethylphenol	ND		9.6	3.2	ug/L		05/03/21 07:11	05/04/21 03:22	1
Benzo[a]anthracene	ND		0.19	0.042	ug/L		05/03/21 07:11	05/04/21 03:22	1
Phenanthrene	ND		0.96	0.34	ug/L		05/03/21 07:11	05/04/21 03:22	1
3,3'-Dichlorobenzidine	ND		4.8	0.90	ug/L		05/03/21 07:11	05/04/21 03:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*40 - 145*	*05/03/21 07:11*	*05/04/21 03:22*	*1*
2-Fluorobiphenyl	*94*		*34 - 110*	*05/03/21 07:11*	*05/04/21 03:22*	*1*
2-Fluorophenol (Surr)	*43*		*27 - 110*	*05/03/21 07:11*	*05/04/21 03:22*	*1*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*05/03/21 07:11*	*05/04/21 03:22*	*1*
Phenol-d5 (Surr)	*22*		*20 - 100*	*05/03/21 07:11*	*05/04/21 03:22*	*1*
Terphenyl-d14 (Surr)	*91*		*40 - 145*	*05/03/21 07:11*	*05/04/21 03:22*	*1*

Client Sample ID: SUPE-W-04AR2-042821
Lab Sample ID: 500-198446-4

Date Collected: 04/28/21 12:07
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 01:25	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 01:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 01:25	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 01:25	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 01:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 01:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 01:25	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 01:25	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 01:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 01:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 01:25	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 01:25	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 01:25	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 01:25	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*05/04/21 01:25*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*05/04/21 01:25*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*05/04/21 01:25*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/04/21 01:25*	*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		05/04/21 14:51	05/06/21 17:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*24 - 146*	*05/04/21 14:51*	*05/06/21 17:01*	*5*
2-Fluorobiphenyl	*98*		*37 - 120*	*05/04/21 14:51*	*05/06/21 17:01*	*5*
2-Fluorophenol (Surr)	*48*		*10 - 120*	*05/04/21 14:51*	*05/06/21 17:01*	*5*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*05/04/21 14:51*	*05/06/21 17:01*	*5*
Phenol-d5 (Surr)	*33*		*11 - 120*	*05/04/21 14:51*	*05/06/21 17:01*	*5*
p-Terphenyl-d14	*94*		*64 - 127*	*05/04/21 14:51*	*05/06/21 17:01*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:43	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 03:43	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		05/03/21 07:11	05/04/21 03:43	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 03:43	1
1-Methylnaphthalene	ND		1.9	0.49	ug/L		05/03/21 07:11	05/04/21 03:43	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,3,4,6-Tetrachlorophenol	ND		4.9	1.5	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,4,5-Trichlorophenol	ND		9.7	2.2	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,4,6-Trichlorophenol	ND		4.9	1.1	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,4-Dichlorophenol	ND		9.7	2.2	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,4-Dinitrophenol	ND		19	7.2	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,4-Dinitrotoluene	ND		0.97	0.29	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,6-Dinitrotoluene	ND		0.97	0.12	ug/L		05/03/21 07:11	05/04/21 03:43	1
3 & 4 Methylphenol	ND		1.9	0.43	ug/L		05/03/21 07:11	05/04/21 03:43	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-04AR2-042821
Date Collected: 04/28/21 12:07
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 03:43	1
2-Chlorophenol	ND		4.9	0.78	ug/L		05/03/21 07:11	05/04/21 03:43	1
2-Methylnaphthalene	ND		1.9	0.13	ug/L		05/03/21 07:11	05/04/21 03:43	1
2-Methylphenol	ND		1.9	0.30	ug/L		05/03/21 07:11	05/04/21 03:43	1
2-Nitroaniline	ND		4.9	1.0	ug/L		05/03/21 07:11	05/04/21 03:43	1
2-Nitrophenol	ND		9.7	2.1	ug/L		05/03/21 07:11	05/04/21 03:43	1
3-Nitroaniline	ND		9.7	2.2	ug/L		05/03/21 07:11	05/04/21 03:43	1
4,6-Dinitro-2-methylphenol	ND		19	4.8	ug/L		05/03/21 07:11	05/04/21 03:43	1
4-Bromophenyl phenyl ether	ND		4.9	0.88	ug/L		05/03/21 07:11	05/04/21 03:43	1
4-Chloro-3-methylphenol	ND		9.7	2.1	ug/L		05/03/21 07:11	05/04/21 03:43	1
4-Chloroaniline	ND		9.7	2.0	ug/L		05/03/21 07:11	05/04/21 03:43	1
4-Chlorophenyl phenyl ether	ND		4.9	0.79	ug/L		05/03/21 07:11	05/04/21 03:43	1
4-Nitroaniline	ND		9.7	3.8	ug/L		05/03/21 07:11	05/04/21 03:43	1
4-Nitrophenol	ND		19	2.3	ug/L		05/03/21 07:11	05/04/21 03:43	1
Acenaphthene	ND		0.97	0.35	ug/L		05/03/21 07:11	05/04/21 03:43	1
Acenaphthylene	ND		0.97	0.31	ug/L		05/03/21 07:11	05/04/21 03:43	1
Anthracene	**4.0**		0.97	0.31	ug/L		05/03/21 07:11	05/04/21 03:43	1
Benzo[a]pyrene	**0.094**	**J**	0.19	0.054	ug/L		05/03/21 07:11	05/04/21 03:43	1
Benzo[b]fluoranthene	**0.18**	**J**	0.19	0.056	ug/L		05/03/21 07:11	05/04/21 03:43	1
Benzo[g,h,i]perylene	ND		0.97	0.41	ug/L		05/03/21 07:11	05/04/21 03:43	1
Benzo[k]fluoranthene	**0.092**	**J**	0.19	0.072	ug/L		05/03/21 07:11	05/04/21 03:43	1
Benzoic acid	ND		19	4.4	ug/L		05/03/21 07:11	05/04/21 03:43	1
Benzyl alcohol	ND		19	3.0	ug/L		05/03/21 07:11	05/04/21 03:43	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 03:43	1
Bis(2-chloroethyl)ether	ND		1.9	0.34	ug/L		05/03/21 07:11	05/04/21 03:43	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.4	ug/L		05/03/21 07:11	05/04/21 03:43	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 03:43	1
Chrysene	**0.38**	**J**	0.49	0.14	ug/L		05/03/21 07:11	05/04/21 03:43	1
Dibenz(a,h)anthracene	ND		0.29	0.062	ug/L		05/03/21 07:11	05/04/21 03:43	1
Dibenzofuran	ND		1.9	0.34	ug/L		05/03/21 07:11	05/04/21 03:43	1
Diethyl phthalate	ND		1.9	0.43	ug/L		05/03/21 07:11	05/04/21 03:43	1
Dimethyl phthalate	ND		1.9	0.37	ug/L		05/03/21 07:11	05/04/21 03:43	1
Di-n-butyl phthalate	ND		4.9	0.78	ug/L		05/03/21 07:11	05/04/21 03:43	1
Di-n-octyl phthalate	ND		9.7	2.4	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.4	ug/L		05/03/21 07:11	05/04/21 03:43	1
Fluoranthene	**0.34**	**J**	0.97	0.31	ug/L		05/03/21 07:11	05/04/21 03:43	1
Fluorene	ND		0.97	0.37	ug/L		05/03/21 07:11	05/04/21 03:43	1
Hexachlorobenzene	ND		0.49	0.14	ug/L		05/03/21 07:11	05/04/21 03:43	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		05/03/21 07:11	05/04/21 03:43	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		05/03/21 07:11	05/04/21 03:43	1
Hexachloroethane	ND		4.9	0.94	ug/L		05/03/21 07:11	05/04/21 03:43	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.082	ug/L		05/03/21 07:11	05/04/21 03:43	1
Isophorone	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 03:43	1
Nitrobenzene	ND		0.97	0.44	ug/L		05/03/21 07:11	05/04/21 03:43	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		05/03/21 07:11	05/04/21 03:43	1
N-Nitrosodiphenylamine	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 03:43	1
Phenol	ND		4.9	0.35	ug/L		05/03/21 07:11	05/04/21 03:43	1
Pyrene	ND		0.97	0.47	ug/L		05/03/21 07:11	05/04/21 03:43	1
2,4-Dimethylphenol	ND		9.7	3.2	ug/L		05/03/21 07:11	05/04/21 03:43	1

Client Sample ID: SUPE-W-04AR2-042821
Date Collected: 04/28/21 12:07
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.19**		0.19	0.043	ug/L		05/03/21 07:11	05/04/21 03:43	1
Phenanthrene	ND		0.97	0.34	ug/L		05/03/21 07:11	05/04/21 03:43	1
3,3'-Dichlorobenzidine	ND		4.9	0.91	ug/L		05/03/21 07:11	05/04/21 03:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*103*		*40 - 145*	*05/03/21 07:11*	*05/04/21 03:43*	*1*
2-Fluorobiphenyl	*94*		*34 - 110*	*05/03/21 07:11*	*05/04/21 03:43*	*1*
2-Fluorophenol (Surr)	*42*		*27 - 110*	*05/03/21 07:11*	*05/04/21 03:43*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*05/03/21 07:11*	*05/04/21 03:43*	*1*
Phenol-d5 (Surr)	*22*		*20 - 100*	*05/03/21 07:11*	*05/04/21 03:43*	*1*
Terphenyl-d14 (Surr)	*93*		*40 - 145*	*05/03/21 07:11*	*05/04/21 03:43*	*1*

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	0.24	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total TCDD	ND		9.9	0.24	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,7,8-PeCDD	ND		49	0.21	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total PeCDD	ND		49	0.21	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,4,7,8-HxCDD	**1.8**	**J**	49	0.40	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,6,7,8-HxCDD	**1.6**	**J I**	49	0.37	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,7,8,9-HxCDD	**1.3**	**J I**	49	0.37	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total HxCDD	**25**	**J I**	49	0.38	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,4,6,7,8-HpCDD	**55**		49	0.86	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total HpCDD	**300**		49	0.86	pg/L		05/03/21 13:46	05/12/21 04:23	1
OCDD	**660**	**B**	99	0.18	pg/L		05/03/21 13:46	05/12/21 04:23	1
2,3,7,8-TCDF	ND		9.9	0.26	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total TCDF	**0.56**	**J**	9.9	0.26	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,7,8-PeCDF	ND		49	0.43	pg/L		05/03/21 13:46	05/12/21 04:23	1
2,3,4,7,8-PeCDF	ND		49	0.40	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total PeCDF	**4.6**	**J I**	49	0.42	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,4,7,8-HxCDF	**0.92**	**J I**	49	0.37	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,6,7,8-HxCDF	**1.2**	**J**	49	0.40	pg/L		05/03/21 13:46	05/12/21 04:23	1
2,3,4,6,7,8-HxCDF	ND		49	0.42	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,7,8,9-HxCDF	ND		49	0.51	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total HxCDF	**25**	**J I**	49	0.42	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,4,6,7,8-HpCDF	**6.4**	**J**	49	0.22	pg/L		05/03/21 13:46	05/12/21 04:23	1
1,2,3,4,7,8,9-HpCDF	ND		49	0.31	pg/L		05/03/21 13:46	05/12/21 04:23	1
Total HpCDF	**23**	**J**	49	0.26	pg/L		05/03/21 13:46	05/12/21 04:23	1
OCDF	**29**	**J B**	99	0.13	pg/L		05/03/21 13:46	05/12/21 04:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-1,2,3,7,8-PeCDD	*86*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-1,2,3,4,7,8-HxCDD	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-OCDD	*99*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-1,2,3,7,8-PeCDF	*88*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-2,3,4,7,8-PeCDF	*87*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*
13C-1,2,3,4,7,8-HxCDF	*97*		*40 - 135*	*05/03/21 13:46*	*05/12/21 04:23*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-04AR2-042821
Lab Sample ID: 500-198446-4
Date Collected: 04/28/21 12:07
Matrix: Water
Date Received: 04/30/21 08:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	83		40 - 135	05/03/21 13:46	05/12/21 04:23	1
13C-2,3,4,6,7,8-HxCDF	87		40 - 135	05/03/21 13:46	05/12/21 04:23	1
13C-1,2,3,7,8,9-HxCDF	90		40 - 135	05/03/21 13:46	05/12/21 04:23	1
13C-1,2,3,4,6,7,8-HpCDF	96		40 - 135	05/03/21 13:46	05/12/21 04:23	1
13C-1,2,3,4,7,8,9-HpCDF	93		40 - 135	05/03/21 13:46	05/12/21 04:23	1
13C-OCDF	78		40 - 135	05/03/21 13:46	05/12/21 04:23	1

Client Sample ID: SUPE-W-30A-042821
Lab Sample ID: 500-198446-5

Date Collected: 04/28/21 14:41
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 15:25	1
1,2,4-Trimethylbenzene	**1.1**		1.0	0.75	ug/L			05/04/21 15:25	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 15:25	1
Benzene	**1.8**		1.0	0.41	ug/L			05/04/21 15:25	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 15:25	1
Ethylbenzene	**4.5**		1.0	0.74	ug/L			05/04/21 15:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 15:25	1
m-Xylene & p-Xylene	**0.90**	**J**	2.0	0.66	ug/L			05/04/21 15:25	1
Naphthalene	**10**		1.0	0.43	ug/L			05/04/21 15:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 15:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 15:25	1
o-Xylene	**1.4**		1.0	0.76	ug/L			05/04/21 15:25	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 15:25	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 15:25	1
Xylenes, Total	**2.3**		2.0	0.66	ug/L			05/04/21 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*05/04/21 15:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/04/21 15:25*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*05/04/21 15:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/04/21 15:25*	*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		10	3.4	ug/L		05/04/21 14:51	05/06/21 17:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*24 - 146*	*05/04/21 14:51*	*05/06/21 17:29*	*10*
2-Fluorobiphenyl	*93*		*37 - 120*	*05/04/21 14:51*	*05/06/21 17:29*	*10*
2-Fluorophenol (Surr)	*55*		*10 - 120*	*05/04/21 14:51*	*05/06/21 17:29*	*10*
Nitrobenzene-d5 (Surr)	*81*		*26 - 120*	*05/04/21 14:51*	*05/06/21 17:29*	*10*
Phenol-d5 (Surr)	*35*		*11 - 120*	*05/04/21 14:51*	*05/06/21 17:29*	*10*
p-Terphenyl-d14	*60*	*S1-*	*64 - 127*	*05/04/21 14:51*	*05/06/21 17:29*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 04:05	1
1,2-Dichlorobenzene	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 04:05	1
1,3-Dichlorobenzene	ND		2.1	0.26	ug/L		05/03/21 07:11	05/04/21 04:05	1
1,4-Dichlorobenzene	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 04:05	1
1-Methylnaphthalene	**16**		2.1	0.51	ug/L		05/03/21 07:11	05/04/21 04:05	1
bis(chloroisopropyl) ether	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,3,4,6-Tetrachlorophenol	ND		5.1	1.6	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,4,5-Trichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,4,6-Trichlorophenol	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,4-Dinitrophenol	ND		21	7.6	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		05/03/21 07:11	05/04/21 04:05	1
3 & 4 Methylphenol	ND		2.1	0.45	ug/L		05/03/21 07:11	05/04/21 04:05	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-30A-042821
Date Collected: 04/28/21 14:41
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 04:05	1
2-Chlorophenol	ND		5.1	0.82	ug/L		05/03/21 07:11	05/04/21 04:05	1
2-Methylnaphthalene	ND		2.1	0.13	ug/L		05/03/21 07:11	05/04/21 04:05	1
2-Methylphenol	ND		2.1	0.32	ug/L		05/03/21 07:11	05/04/21 04:05	1
2-Nitroaniline	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 04:05	1
2-Nitrophenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 04:05	1
3-Nitroaniline	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 04:05	1
4,6-Dinitro-2-methylphenol	ND		21	5.1	ug/L		05/03/21 07:11	05/04/21 04:05	1
4-Bromophenyl phenyl ether	ND		5.1	0.93	ug/L		05/03/21 07:11	05/04/21 04:05	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 04:05	1
4-Chloroaniline	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 04:05	1
4-Chlorophenyl phenyl ether	ND		5.1	0.83	ug/L		05/03/21 07:11	05/04/21 04:05	1
4-Nitroaniline	ND		10	4.0	ug/L		05/03/21 07:11	05/04/21 04:05	1
4-Nitrophenol	ND		21	2.4	ug/L		05/03/21 07:11	05/04/21 04:05	1
Acenaphthene	**42**		1.0	0.37	ug/L		05/03/21 07:11	05/04/21 04:05	1
Acenaphthylene	**1.0**		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 04:05	1
Anthracene	**1.1**		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 04:05	1
Benzo[a]pyrene	**0.11**	**J**	0.21	0.058	ug/L		05/03/21 07:11	05/04/21 04:05	1
Benzo[b]fluoranthene	**0.16**	**J**	0.21	0.060	ug/L		05/03/21 07:11	05/04/21 04:05	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		05/03/21 07:11	05/04/21 04:05	1
Benzo[k]fluoranthene	**0.091**	**J**	0.21	0.076	ug/L		05/03/21 07:11	05/04/21 04:05	1
Benzoic acid	ND		21	4.7	ug/L		05/03/21 07:11	05/04/21 04:05	1
Benzyl alcohol	ND		21	3.1	ug/L		05/03/21 07:11	05/04/21 04:05	1
Bis(2-chloroethoxy)methane	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 04:05	1
Bis(2-chloroethyl)ether	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 04:05	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 04:05	1
Butyl benzyl phthalate	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 04:05	1
Chrysene	**0.29**	**J**	0.51	0.14	ug/L		05/03/21 07:11	05/04/21 04:05	1
Dibenz(a,h)anthracene	ND		0.31	0.066	ug/L		05/03/21 07:11	05/04/21 04:05	1
Dibenzofuran	**15**		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 04:05	1
Diethyl phthalate	ND		2.1	0.45	ug/L		05/03/21 07:11	05/04/21 04:05	1
Dimethyl phthalate	ND		2.1	0.39	ug/L		05/03/21 07:11	05/04/21 04:05	1
Di-n-butyl phthalate	ND		5.1	0.82	ug/L		05/03/21 07:11	05/04/21 04:05	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,3,5,6-Tetrachlorophenol	ND		5.1	2.6	ug/L		05/03/21 07:11	05/04/21 04:05	1
Fluoranthene	**1.8**		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 04:05	1
Fluorene	**14**		1.0	0.39	ug/L		05/03/21 07:11	05/04/21 04:05	1
Hexachlorobenzene	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 04:05	1
Hexachlorobutadiene	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 04:05	1
Hexachlorocyclopentadiene	ND		21	3.5	ug/L		05/03/21 07:11	05/04/21 04:05	1
Hexachloroethane	ND		5.1	1.0	ug/L		05/03/21 07:11	05/04/21 04:05	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.086	ug/L		05/03/21 07:11	05/04/21 04:05	1
Isophorone	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 04:05	1
Nitrobenzene	ND		1.0	0.46	ug/L		05/03/21 07:11	05/04/21 04:05	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 04:05	1
N-Nitrosodiphenylamine	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 04:05	1
Phenol	ND		5.1	0.37	ug/L		05/03/21 07:11	05/04/21 04:05	1
Pyrene	**1.2**		1.0	0.49	ug/L		05/03/21 07:11	05/04/21 04:05	1
2,4-Dimethylphenol	ND		10	3.4	ug/L		05/03/21 07:11	05/04/21 04:05	1

Client Sample ID: SUPE-W-30A-042821
Lab Sample ID: 500-198446-5

Date Collected: 04/28/21 14:41
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.24**		0.21	0.045	ug/L		05/03/21 07:11	05/04/21 04:05	1
Phenanthrene	**4.7**		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 04:05	1
3,3'-Dichlorobenzidine	ND		5.1	0.97	ug/L		05/03/21 07:11	05/04/21 04:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*40 - 145*	*05/03/21 07:11*	*05/04/21 04:05*	*1*
2-Fluorobiphenyl	*92*		*34 - 110*	*05/03/21 07:11*	*05/04/21 04:05*	*1*
2-Fluorophenol (Surr)	*45*		*27 - 110*	*05/03/21 07:11*	*05/04/21 04:05*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*05/03/21 07:11*	*05/04/21 04:05*	*1*
Phenol-d5 (Surr)	*24*		*20 - 100*	*05/03/21 07:11*	*05/04/21 04:05*	*1*
Terphenyl-d14 (Surr)	*83*		*40 - 145*	*05/03/21 07:11*	*05/04/21 04:05*	*1*

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		11	0.056	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total TCDD	**0.12**	**J I**	11	0.056	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,7,8-PeCDD	**0.34**	**J I**	53	0.069	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total PeCDD	**1.3**	**J I**	53	0.069	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,4,7,8-HxCDD	**1.6**	**J I**	53	0.15	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,6,7,8-HxCDD	**4.7**	**J**	53	0.14	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,7,8,9-HxCDD	**1.7**	**J**	53	0.14	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total HxCDD	**30**	**J I**	53	0.14	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,4,6,7,8-HpCDD	**170**		53	0.48	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total HpCDD	**430**		53	0.48	pg/L		05/03/21 13:46	05/12/21 11:51	1
OCDD	**2100**	**B**	110	0.036	pg/L		05/03/21 13:46	05/12/21 11:51	1
2,3,7,8-TCDF	**0.27**	**J**	11	0.092	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total TCDF	**18**	**I**	11	0.092	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,7,8-PeCDF	**0.84**	**J**	53	0.23	pg/L		05/03/21 13:46	05/12/21 11:51	1
2,3,4,7,8-PeCDF	**0.98**	**J**	53	0.21	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total PeCDF	**96**	**I**	53	0.22	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,4,7,8-HxCDF	**6.4**	**J**	53	1.2	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,6,7,8-HxCDF	**12**	**J**	53	1.3	pg/L		05/03/21 13:46	05/12/21 11:51	1
2,3,4,6,7,8-HxCDF	ND		53	1.3	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,7,8,9-HxCDF	ND		53	1.5	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total HxCDF	**130**	**I**	53	1.3	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,4,6,7,8-HpCDF	**46**	**J**	53	0.14	pg/L		05/03/21 13:46	05/12/21 11:51	1
1,2,3,4,7,8,9-HpCDF	**4.7**	**J**	53	0.20	pg/L		05/03/21 13:46	05/12/21 11:51	1
Total HpCDF	**180**	**I**	53	0.17	pg/L		05/03/21 13:46	05/12/21 11:51	1
OCDF	**170**	**B**	110	0.080	pg/L		05/03/21 13:46	05/12/21 11:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-1,2,3,4,7,8-HxCDD	*82*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-OCDD	*104*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-2,3,7,8-TCDF	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-1,2,3,7,8-PeCDF	*81*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-2,3,4,7,8-PeCDF	*78*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*
13C-1,2,3,4,7,8-HxCDF	*93*		*40 - 135*	*05/03/21 13:46*	*05/12/21 11:51*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-30A-042821
Lab Sample ID: 500-198446-5
Date Collected: 04/28/21 14:41
Matrix: Water
Date Received: 04/30/21 08:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	79		40 - 135	05/03/21 13:46	05/12/21 11:51	1
13C-2,3,4,6,7,8-HxCDF	82		40 - 135	05/03/21 13:46	05/12/21 11:51	1
13C-1,2,3,7,8,9-HxCDF	91		40 - 135	05/03/21 13:46	05/12/21 11:51	1
13C-1,2,3,4,6,7,8-HpCDF	92		40 - 135	05/03/21 13:46	05/12/21 11:51	1
13C-1,2,3,4,7,8,9-HpCDF	91		40 - 135	05/03/21 13:46	05/12/21 11:51	1
13C-OCDF	77		40 - 135	05/03/21 13:46	05/12/21 11:51	1

Client Sample ID: SUPE-W-10AR2-042821
Lab Sample ID: 500-198446-6

Date Collected: 04/28/21 16:53
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 02:12	1
1,2,4-Trimethylbenzene	**9.0**		1.0	0.75	ug/L			05/04/21 02:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 02:12	1
Benzene	**15**		1.0	0.41	ug/L			05/04/21 02:12	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 02:12	1
Ethylbenzene	**21**		1.0	0.74	ug/L			05/04/21 02:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 02:12	1
m-Xylene & p-Xylene	**2.6**		2.0	0.66	ug/L			05/04/21 02:12	1
Naphthalene	**6.3**		1.0	0.43	ug/L			05/04/21 02:12	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 02:12	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 02:12	1
o-Xylene	**16**		1.0	0.76	ug/L			05/04/21 02:12	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 02:12	1
Toluene	**1.0**		1.0	0.51	ug/L			05/04/21 02:12	1
Xylenes, Total	**19**		2.0	0.66	ug/L			05/04/21 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*77 - 120*		*05/04/21 02:12*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/04/21 02:12*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*05/04/21 02:12*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/04/21 02:12*	*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		05/04/21 14:51	05/06/21 17:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*24 - 146*	*05/04/21 14:51*	*05/06/21 17:56*	*5*
2-Fluorobiphenyl	*90*		*37 - 120*	*05/04/21 14:51*	*05/06/21 17:56*	*5*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*05/04/21 14:51*	*05/06/21 17:56*	*5*
Nitrobenzene-d5 (Surr)	*75*		*26 - 120*	*05/04/21 14:51*	*05/06/21 17:56*	*5*
Phenol-d5 (Surr)	*31*		*11 - 120*	*05/04/21 14:51*	*05/06/21 17:56*	*5*
p-Terphenyl-d14	*74*		*64 - 127*	*05/04/21 14:51*	*05/06/21 17:56*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 04:26	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		05/03/21 07:11	05/04/21 04:26	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		05/03/21 07:11	05/04/21 04:26	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		05/03/21 07:11	05/04/21 04:26	1
1-Methylnaphthalene	**23**		2.0	0.51	ug/L		05/03/21 07:11	05/04/21 04:26	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,3,4,6-Tetrachlorophenol	ND		5.1	1.5	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,4,6-Trichlorophenol	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,4-Dinitrophenol	ND		20	7.5	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		05/03/21 07:11	05/04/21 04:26	1
3 & 4 Methylphenol	ND		2.0	0.45	ug/L		05/03/21 07:11	05/04/21 04:26	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-10AR2-042821
Date Collected: 04/28/21 16:53
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.0	0.34	ug/L		05/03/21 07:11	05/04/21 04:26	1
2-Chlorophenol	ND		5.1	0.81	ug/L		05/03/21 07:11	05/04/21 04:26	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		05/03/21 07:11	05/04/21 04:26	1
2-Methylphenol	ND		2.0	0.31	ug/L		05/03/21 07:11	05/04/21 04:26	1
2-Nitroaniline	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 04:26	1
2-Nitrophenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 04:26	1
3-Nitroaniline	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 04:26	1
4,6-Dinitro-2-methylphenol	ND		20	5.0	ug/L		05/03/21 07:11	05/04/21 04:26	1
4-Bromophenyl phenyl ether	ND		5.1	0.92	ug/L		05/03/21 07:11	05/04/21 04:26	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 04:26	1
4-Chloroaniline	ND		10	2.1	ug/L		05/03/21 07:11	05/04/21 04:26	1
4-Chlorophenyl phenyl ether	ND		5.1	0.82	ug/L		05/03/21 07:11	05/04/21 04:26	1
4-Nitroaniline	ND		10	4.0	ug/L		05/03/21 07:11	05/04/21 04:26	1
4-Nitrophenol	ND		20	2.4	ug/L		05/03/21 07:11	05/04/21 04:26	1
Acenaphthene	**68**		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 04:26	1
Acenaphthylene	**1.8**		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 04:26	1
Anthracene	**0.82**	**J**	1.0	0.32	ug/L		05/03/21 07:11	05/04/21 04:26	1
Benzo[a]pyrene	ND		0.20	0.057	ug/L		05/03/21 07:11	05/04/21 04:26	1
Benzo[b]fluoranthene	**0.090**	**J**	0.20	0.059	ug/L		05/03/21 07:11	05/04/21 04:26	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		05/03/21 07:11	05/04/21 04:26	1
Benzo[k]fluoranthene	ND		0.20	0.075	ug/L		05/03/21 07:11	05/04/21 04:26	1
Benzoic acid	ND		20	4.6	ug/L		05/03/21 07:11	05/04/21 04:26	1
Benzyl alcohol	ND		20	3.1	ug/L		05/03/21 07:11	05/04/21 04:26	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 04:26	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		05/03/21 07:11	05/04/21 04:26	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 04:26	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		05/03/21 07:11	05/04/21 04:26	1
Chrysene	**0.16**	**J**	0.51	0.14	ug/L		05/03/21 07:11	05/04/21 04:26	1
Dibenz(a,h)anthracene	ND		0.30	0.065	ug/L		05/03/21 07:11	05/04/21 04:26	1
Dibenzofuran	ND		2.0	0.35	ug/L		05/03/21 07:11	05/04/21 04:26	1
Diethyl phthalate	ND		2.0	0.45	ug/L		05/03/21 07:11	05/04/21 04:26	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		05/03/21 07:11	05/04/21 04:26	1
Di-n-butyl phthalate	ND		5.1	0.81	ug/L		05/03/21 07:11	05/04/21 04:26	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,3,5,6-Tetrachlorophenol	ND		5.1	2.5	ug/L		05/03/21 07:11	05/04/21 04:26	1
Fluoranthene	**2.0**		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 04:26	1
Fluorene	**21**		1.0	0.38	ug/L		05/03/21 07:11	05/04/21 04:26	1
Hexachlorobenzene	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 04:26	1
Hexachlorobutadiene	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 04:26	1
Hexachlorocyclopentadiene	ND		20	3.5	ug/L		05/03/21 07:11	05/04/21 04:26	1
Hexachloroethane	ND		5.1	0.98	ug/L		05/03/21 07:11	05/04/21 04:26	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.085	ug/L		05/03/21 07:11	05/04/21 04:26	1
Isophorone	ND		2.0	0.29	ug/L		05/03/21 07:11	05/04/21 04:26	1
Nitrobenzene	ND		1.0	0.46	ug/L		05/03/21 07:11	05/04/21 04:26	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 04:26	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		05/03/21 07:11	05/04/21 04:26	1
Phenol	**0.71**	**J**	5.1	0.36	ug/L		05/03/21 07:11	05/04/21 04:26	1
Pyrene	**1.2**		1.0	0.49	ug/L		05/03/21 07:11	05/04/21 04:26	1
2,4-Dimethylphenol	ND		10	3.4	ug/L		05/03/21 07:11	05/04/21 04:26	1

Client Sample ID: SUPE-W-10AR2-042821
Lab Sample ID: 500-198446-6

Date Collected: 04/28/21 16:53
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.13**	**J**	0.20	0.045	ug/L		05/03/21 07:11	05/04/21 04:26	1
Phenanthrene	**4.7**		1.0	0.35	ug/L		05/03/21 07:11	05/04/21 04:26	1
3,3'-Dichlorobenzidine	ND		5.1	0.95	ug/L		05/03/21 07:11	05/04/21 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*40 - 145*	*05/03/21 07:11*	*05/04/21 04:26*	*1*
2-Fluorobiphenyl	*95*		*34 - 110*	*05/03/21 07:11*	*05/04/21 04:26*	*1*
2-Fluorophenol (Surr)	*53*		*27 - 110*	*05/03/21 07:11*	*05/04/21 04:26*	*1*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*	*05/03/21 07:11*	*05/04/21 04:26*	*1*
Phenol-d5 (Surr)	*28*		*20 - 100*	*05/03/21 07:11*	*05/04/21 04:26*	*1*
Terphenyl-d14 (Surr)	*81*		*40 - 145*	*05/03/21 07:11*	*05/04/21 04:26*	*1*

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	0.25	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total TCDD	ND		10	0.25	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,7,8-PeCDD	ND		52	0.40	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total PeCDD	ND		52	0.40	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,4,7,8-HxCDD	**1.0**	**J I**	52	0.43	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,6,7,8-HxCDD	**0.66**	**J I**	52	0.39	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,7,8,9-HxCDD	**0.90**	**J I**	52	0.39	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total HxCDD	**7.4**	**J I**	52	0.40	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,4,6,7,8-HpCDD	**20**	**J**	52	0.84	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total HpCDD	**65**		52	0.84	pg/L		05/03/21 13:46	05/12/21 06:23	1
OCDD	**170**	**B**	100	0.18	pg/L		05/03/21 13:46	05/12/21 06:23	1
2,3,7,8-TCDF	ND		10	0.27	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total TCDF	**6.3**	**J I**	10	0.27	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,7,8-PeCDF	ND		52	0.29	pg/L		05/03/21 13:46	05/12/21 06:23	1
2,3,4,7,8-PeCDF	ND		52	0.27	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total PeCDF	**17**	**J I**	52	0.28	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,4,7,8-HxCDF	ND		52	0.53	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,6,7,8-HxCDF	**1.5**	**J I**	52	0.58	pg/L		05/03/21 13:46	05/12/21 06:23	1
2,3,4,6,7,8-HxCDF	ND		52	0.60	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,7,8,9-HxCDF	ND		52	0.71	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total HxCDF	**22**	**J I**	52	0.60	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,4,6,7,8-HpCDF	**3.5**	**J**	52	0.27	pg/L		05/03/21 13:46	05/12/21 06:23	1
1,2,3,4,7,8,9-HpCDF	ND		52	0.38	pg/L		05/03/21 13:46	05/12/21 06:23	1
Total HpCDF	**12**	**J**	52	0.33	pg/L		05/03/21 13:46	05/12/21 06:23	1
OCDF	**14**	**J B**	100	0.11	pg/L		05/03/21 13:46	05/12/21 06:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*82*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-1,2,3,7,8-PeCDD	*82*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-1,2,3,4,7,8-HxCDD	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-1,2,3,6,7,8-HxCDD	*87*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*93*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-OCDD	*103*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-2,3,7,8-TCDF	*88*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-2,3,4,7,8-PeCDF	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*
13C-1,2,3,4,7,8-HxCDF	*98*		*40 - 135*	*05/03/21 13:46*	*05/12/21 06:23*	*1*

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-10AR2-042821
Date Collected: 04/28/21 16:53
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-6
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	84		40 - 135	05/03/21 13:46	05/12/21 06:23	1
13C-2,3,4,6,7,8-HxCDF	86		40 - 135	05/03/21 13:46	05/12/21 06:23	1
13C-1,2,3,7,8,9-HxCDF	92		40 - 135	05/03/21 13:46	05/12/21 06:23	1
13C-1,2,3,4,6,7,8-HpCDF	95		40 - 135	05/03/21 13:46	05/12/21 06:23	1
13C-1,2,3,4,7,8,9-HpCDF	91		40 - 135	05/03/21 13:46	05/12/21 06:23	1
13C-OCDF	77		40 - 135	05/03/21 13:46	05/12/21 06:23	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-M-99A-042821
Lab Sample ID: 500-198446-7
Date Collected: 04/28/21 22:00
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 02:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 02:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 02:35	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 02:35	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 02:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 02:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 02:35	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 02:35	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 02:35	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 02:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 02:35	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 02:35	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 02:35	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 02:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*05/04/21 02:35*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/04/21 02:35*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*05/04/21 02:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/04/21 02:35*	*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		05/04/21 14:51	05/06/21 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*24 - 146*	*05/04/21 14:51*	*05/06/21 18:23*	*1*
2-Fluorobiphenyl	*95*		*37 - 120*	*05/04/21 14:51*	*05/06/21 18:23*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*05/04/21 14:51*	*05/06/21 18:23*	*1*
Nitrobenzene-d5 (Surr)	*81*		*26 - 120*	*05/04/21 14:51*	*05/06/21 18:23*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*05/04/21 14:51*	*05/06/21 18:23*	*1*
p-Terphenyl-d14	*103*		*64 - 127*	*05/04/21 14:51*	*05/06/21 18:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 04:47	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 04:47	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		05/03/21 07:11	05/04/21 04:47	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 04:47	1
1-Methylnaphthalene	ND		1.9	0.49	ug/L		05/03/21 07:11	05/04/21 04:47	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,3,4,6-Tetrachlorophenol	ND		4.9	1.5	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,4,5-Trichlorophenol	ND		9.7	2.2	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,4,6-Trichlorophenol	ND		4.9	1.1	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,4-Dichlorophenol	ND		9.7	2.2	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,4-Dinitrophenol	ND		19	7.2	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,4-Dinitrotoluene	ND		0.97	0.29	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,6-Dinitrotoluene	ND		0.97	0.12	ug/L		05/03/21 07:11	05/04/21 04:47	1
3 & 4 Methylphenol	ND		1.9	0.43	ug/L		05/03/21 07:11	05/04/21 04:47	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-M-99A-042821
Lab Sample ID: 500-198446-7
Date Collected: 04/28/21 22:00
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 04:47	1
2-Chlorophenol	ND		4.9	0.78	ug/L		05/03/21 07:11	05/04/21 04:47	1
2-Methylnaphthalene	ND		1.9	0.13	ug/L		05/03/21 07:11	05/04/21 04:47	1
2-Methylphenol	ND		1.9	0.30	ug/L		05/03/21 07:11	05/04/21 04:47	1
2-Nitroaniline	ND		4.9	1.0	ug/L		05/03/21 07:11	05/04/21 04:47	1
2-Nitrophenol	ND		9.7	2.1	ug/L		05/03/21 07:11	05/04/21 04:47	1
3-Nitroaniline	ND		9.7	2.2	ug/L		05/03/21 07:11	05/04/21 04:47	1
4,6-Dinitro-2-methylphenol	ND		19	4.8	ug/L		05/03/21 07:11	05/04/21 04:47	1
4-Bromophenyl phenyl ether	ND		4.9	0.88	ug/L		05/03/21 07:11	05/04/21 04:47	1
4-Chloro-3-methylphenol	ND		9.7	2.1	ug/L		05/03/21 07:11	05/04/21 04:47	1
4-Chloroaniline	ND		9.7	2.0	ug/L		05/03/21 07:11	05/04/21 04:47	1
4-Chlorophenyl phenyl ether	ND		4.9	0.79	ug/L		05/03/21 07:11	05/04/21 04:47	1
4-Nitroaniline	ND		9.7	3.8	ug/L		05/03/21 07:11	05/04/21 04:47	1
4-Nitrophenol	ND		19	2.3	ug/L		05/03/21 07:11	05/04/21 04:47	1
Acenaphthene	ND		0.97	0.35	ug/L		05/03/21 07:11	05/04/21 04:47	1
Acenaphthylene	ND		0.97	0.31	ug/L		05/03/21 07:11	05/04/21 04:47	1
Anthracene	ND		0.97	0.31	ug/L		05/03/21 07:11	05/04/21 04:47	1
Benzo[a]pyrene	ND		0.19	0.054	ug/L		05/03/21 07:11	05/04/21 04:47	1
Benzo[b]fluoranthene	ND		0.19	0.056	ug/L		05/03/21 07:11	05/04/21 04:47	1
Benzo[g,h,i]perylene	ND		0.97	0.41	ug/L		05/03/21 07:11	05/04/21 04:47	1
Benzo[k]fluoranthene	ND		0.19	0.072	ug/L		05/03/21 07:11	05/04/21 04:47	1
Benzoic acid	ND		19	4.4	ug/L		05/03/21 07:11	05/04/21 04:47	1
Benzyl alcohol	ND		19	3.0	ug/L		05/03/21 07:11	05/04/21 04:47	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 04:47	1
Bis(2-chloroethyl)ether	ND		1.9	0.34	ug/L		05/03/21 07:11	05/04/21 04:47	1
Bis(2-ethylhexyl) phthalate	ND		9.7	2.4	ug/L		05/03/21 07:11	05/04/21 04:47	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 04:47	1
Chrysene	ND		0.49	0.14	ug/L		05/03/21 07:11	05/04/21 04:47	1
Dibenz(a,h)anthracene	ND		0.29	0.062	ug/L		05/03/21 07:11	05/04/21 04:47	1
Dibenzofuran	ND		1.9	0.34	ug/L		05/03/21 07:11	05/04/21 04:47	1
Diethyl phthalate	ND		1.9	0.43	ug/L		05/03/21 07:11	05/04/21 04:47	1
Dimethyl phthalate	ND		1.9	0.37	ug/L		05/03/21 07:11	05/04/21 04:47	1
Di-n-butyl phthalate	ND		4.9	0.78	ug/L		05/03/21 07:11	05/04/21 04:47	1
Di-n-octyl phthalate	ND		9.7	2.4	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,3,5,6-Tetrachlorophenol	ND		4.9	2.4	ug/L		05/03/21 07:11	05/04/21 04:47	1
Fluoranthene	ND		0.97	0.31	ug/L		05/03/21 07:11	05/04/21 04:47	1
Fluorene	ND		0.97	0.37	ug/L		05/03/21 07:11	05/04/21 04:47	1
Hexachlorobenzene	ND		0.49	0.14	ug/L		05/03/21 07:11	05/04/21 04:47	1
Hexachlorobutadiene	ND		4.9	1.1	ug/L		05/03/21 07:11	05/04/21 04:47	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		05/03/21 07:11	05/04/21 04:47	1
Hexachloroethane	ND		4.9	0.94	ug/L		05/03/21 07:11	05/04/21 04:47	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.082	ug/L		05/03/21 07:11	05/04/21 04:47	1
Isophorone	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 04:47	1
Nitrobenzene	ND		0.97	0.44	ug/L		05/03/21 07:11	05/04/21 04:47	1
N-Nitrosodi-n-propylamine	ND		0.49	0.14	ug/L		05/03/21 07:11	05/04/21 04:47	1
N-Nitrosodiphenylamine	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 04:47	1
Phenol	ND		4.9	0.35	ug/L		05/03/21 07:11	05/04/21 04:47	1
Pyrene	ND		0.97	0.47	ug/L		05/03/21 07:11	05/04/21 04:47	1
2,4-Dimethylphenol	ND		9.7	3.2	ug/L		05/03/21 07:11	05/04/21 04:47	1

Client Sample ID: SUPE-M-99A-042821
Lab Sample ID: 500-198446-7

Date Collected: 04/28/21 22:00
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.047**	**J**	0.19	0.043	ug/L		05/03/21 07:11	05/04/21 04:47	1
Phenanthrene	ND		0.97	0.34	ug/L		05/03/21 07:11	05/04/21 04:47	1
3,3'-Dichlorobenzidine	ND		4.9	0.91	ug/L		05/03/21 07:11	05/04/21 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*98*		*40 - 145*	*05/03/21 07:11*	*05/04/21 04:47*	*1*
2-Fluorobiphenyl	*96*		*34 - 110*	*05/03/21 07:11*	*05/04/21 04:47*	*1*
2-Fluorophenol (Surr)	*46*		*27 - 110*	*05/03/21 07:11*	*05/04/21 04:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*36 - 120*	*05/03/21 07:11*	*05/04/21 04:47*	*1*
Phenol-d5 (Surr)	*21*		*20 - 100*	*05/03/21 07:11*	*05/04/21 04:47*	*1*
Terphenyl-d14 (Surr)	*93*		*40 - 145*	*05/03/21 07:11*	*05/04/21 04:47*	*1*

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	0.27	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total TCDD	**0.69**	**J I**	9.6	0.27	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,7,8-PeCDD	**0.48**	**J I**	48	0.14	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total PeCDD	**0.48**	**J I**	48	0.14	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,4,7,8-HxCDD	**1.2**	**J**	48	0.28	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,6,7,8-HxCDD	ND		48	0.26	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,7,8,9-HxCDD	**0.79**	**J I**	48	0.26	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total HxCDD	**4.0**	**J I**	48	0.27	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,4,6,7,8-HpCDD	**7.9**	**J**	48	0.44	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total HpCDD	**34**	**J**	48	0.44	pg/L		05/03/21 13:46	05/12/21 12:51	1
OCDD	**81**	**J B**	96	0.14	pg/L		05/03/21 13:46	05/12/21 12:51	1
2,3,7,8-TCDF	ND		9.6	0.20	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total TCDF	ND		9.6	0.20	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,7,8-PeCDF	ND		48	0.47	pg/L		05/03/21 13:46	05/12/21 12:51	1
2,3,4,7,8-PeCDF	ND		48	0.40	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total PeCDF	ND		48	0.47	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,4,7,8-HxCDF	ND		48	0.23	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,6,7,8-HxCDF	ND		48	0.25	pg/L		05/03/21 13:46	05/12/21 12:51	1
2,3,4,6,7,8-HxCDF	ND		48	0.26	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,7,8,9-HxCDF	ND		48	0.32	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total HxCDF	**1.4**	**J I**	48	0.27	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,4,6,7,8-HpCDF	**1.1**	**J**	48	0.30	pg/L		05/03/21 13:46	05/12/21 12:51	1
1,2,3,4,7,8,9-HpCDF	ND		48	0.42	pg/L		05/03/21 13:46	05/12/21 12:51	1
Total HpCDF	**3.0**	**J I**	48	0.36	pg/L		05/03/21 13:46	05/12/21 12:51	1
OCDF	**5.9**	**J B**	96	0.19	pg/L		05/03/21 13:46	05/12/21 12:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*78*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-1,2,3,7,8-PeCDD	*86*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-1,2,3,4,7,8-HxCDD	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-1,2,3,6,7,8-HxCDD	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*99*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-OCDD	*97*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-2,3,7,8-TCDF	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-1,2,3,7,8-PeCDF	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-2,3,4,7,8-PeCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*
13C-1,2,3,4,7,8-HxCDF	*98*		*40 - 135*	*05/03/21 13:46*	*05/12/21 12:51*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-M-99A-042821
Lab Sample ID: 500-198446-7
Date Collected: 04/28/21 22:00
Matrix: Water
Date Received: 04/30/21 08:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	86		40 - 135	05/03/21 13:46	05/12/21 12:51	1
13C-2,3,4,6,7,8-HxCDF	86		40 - 135	05/03/21 13:46	05/12/21 12:51	1
13C-1,2,3,7,8,9-HxCDF	90		40 - 135	05/03/21 13:46	05/12/21 12:51	1
13C-1,2,3,4,6,7,8-HpCDF	96		40 - 135	05/03/21 13:46	05/12/21 12:51	1
13C-1,2,3,4,7,8,9-HpCDF	95		40 - 135	05/03/21 13:46	05/12/21 12:51	1
13C-OCDF	80		40 - 135	05/03/21 13:46	05/12/21 12:51	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-TB-01-042821
Lab Sample ID: 500-198446-8
Date Collected: 04/28/21 13:53
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 02:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 02:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 02:58	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 02:58	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 02:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 02:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 02:58	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 02:58	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 02:58	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 02:58	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 02:58	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 02:58	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 02:58	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 02:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 02:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*05/04/21 02:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*05/04/21 02:58*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*05/04/21 02:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/04/21 02:58*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-06A-042821
Lab Sample ID: 500-198446-9
Date Collected: 04/28/21 14:00
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 03:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 03:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 03:21	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 03:21	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 03:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 03:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 03:21	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 03:21	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 03:21	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 03:21	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 03:21	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 03:21	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 03:21	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 03:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*05/04/21 03:21*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/04/21 03:21*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*05/04/21 03:21*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/04/21 03:21*	*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		05/04/21 14:51	05/06/21 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*24 - 146*	*05/04/21 14:51*	*05/06/21 18:51*	*1*
2-Fluorobiphenyl	*91*		*37 - 120*	*05/04/21 14:51*	*05/06/21 18:51*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*05/04/21 14:51*	*05/06/21 18:51*	*1*
Nitrobenzene-d5 (Surr)	*77*		*26 - 120*	*05/04/21 14:51*	*05/06/21 18:51*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*05/04/21 14:51*	*05/06/21 18:51*	*1*
p-Terphenyl-d14	*101*		*64 - 127*	*05/04/21 14:51*	*05/06/21 18:51*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 05:08	1
1,2-Dichlorobenzene	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 05:08	1
1,3-Dichlorobenzene	ND		2.1	0.26	ug/L		05/03/21 07:11	05/04/21 05:08	1
1,4-Dichlorobenzene	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 05:08	1
1-Methylnaphthalene	ND		2.1	0.52	ug/L		05/03/21 07:11	05/04/21 05:08	1
bis(chloroisopropyl) ether	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,3,4,6-Tetrachlorophenol	ND		5.2	1.6	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,4,5-Trichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,4,6-Trichlorophenol	ND		5.2	1.1	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,4-Dichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,4-Dinitrophenol	ND		21	7.7	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,6-Dinitrotoluene	ND		1.0	0.13	ug/L		05/03/21 07:11	05/04/21 05:08	1
3 & 4 Methylphenol	ND		2.1	0.46	ug/L		05/03/21 07:11	05/04/21 05:08	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-06A-042821
Date Collected: 04/28/21 14:00
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 05:08	1
2-Chlorophenol	ND		5.2	0.83	ug/L		05/03/21 07:11	05/04/21 05:08	1
2-Methylnaphthalene	ND		2.1	0.14	ug/L		05/03/21 07:11	05/04/21 05:08	1
2-Methylphenol	ND		2.1	0.32	ug/L		05/03/21 07:11	05/04/21 05:08	1
2-Nitroaniline	ND		5.2	1.1	ug/L		05/03/21 07:11	05/04/21 05:08	1
2-Nitrophenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 05:08	1
3-Nitroaniline	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:08	1
4,6-Dinitro-2-methylphenol	ND		21	5.1	ug/L		05/03/21 07:11	05/04/21 05:08	1
4-Bromophenyl phenyl ether	ND		5.2	0.95	ug/L		05/03/21 07:11	05/04/21 05:08	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 05:08	1
4-Chloroaniline	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 05:08	1
4-Chlorophenyl phenyl ether	ND		5.2	0.84	ug/L		05/03/21 07:11	05/04/21 05:08	1
4-Nitroaniline	ND		10	4.1	ug/L		05/03/21 07:11	05/04/21 05:08	1
4-Nitrophenol	ND		21	2.4	ug/L		05/03/21 07:11	05/04/21 05:08	1
Acenaphthene	ND		1.0	0.38	ug/L		05/03/21 07:11	05/04/21 05:08	1
Acenaphthylene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 05:08	1
Anthracene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 05:08	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		05/03/21 07:11	05/04/21 05:08	1
Benzo[b]fluoranthene	ND		0.21	0.060	ug/L		05/03/21 07:11	05/04/21 05:08	1
Benzo[g,h,i]perylene	ND		1.0	0.44	ug/L		05/03/21 07:11	05/04/21 05:08	1
Benzo[k]fluoranthene	ND		0.21	0.077	ug/L		05/03/21 07:11	05/04/21 05:08	1
Benzoic acid	ND		21	4.8	ug/L		05/03/21 07:11	05/04/21 05:08	1
Benzyl alcohol	ND		21	3.2	ug/L		05/03/21 07:11	05/04/21 05:08	1
Bis(2-chloroethoxy)methane	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 05:08	1
Bis(2-chloroethyl)ether	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 05:08	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 05:08	1
Butyl benzyl phthalate	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 05:08	1
Chrysene	ND		0.52	0.15	ug/L		05/03/21 07:11	05/04/21 05:08	1
Dibenz(a,h)anthracene	ND		0.31	0.067	ug/L		05/03/21 07:11	05/04/21 05:08	1
Dibenzofuran	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 05:08	1
Diethyl phthalate	ND		2.1	0.46	ug/L		05/03/21 07:11	05/04/21 05:08	1
Dimethyl phthalate	ND		2.1	0.40	ug/L		05/03/21 07:11	05/04/21 05:08	1
Di-n-butyl phthalate	ND		5.2	0.83	ug/L		05/03/21 07:11	05/04/21 05:08	1
Di-n-octyl phthalate	ND		10	2.6	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,3,5,6-Tetrachlorophenol	ND		5.2	2.6	ug/L		05/03/21 07:11	05/04/21 05:08	1
Fluoranthene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 05:08	1
Fluorene	ND		1.0	0.40	ug/L		05/03/21 07:11	05/04/21 05:08	1
Hexachlorobenzene	ND		0.52	0.15	ug/L		05/03/21 07:11	05/04/21 05:08	1
Hexachlorobutadiene	ND		5.2	1.2	ug/L		05/03/21 07:11	05/04/21 05:08	1
Hexachlorocyclopentadiene	ND		21	3.6	ug/L		05/03/21 07:11	05/04/21 05:08	1
Hexachloroethane	ND		5.2	1.0	ug/L		05/03/21 07:11	05/04/21 05:08	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.088	ug/L		05/03/21 07:11	05/04/21 05:08	1
Isophorone	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 05:08	1
Nitrobenzene	ND		1.0	0.47	ug/L		05/03/21 07:11	05/04/21 05:08	1
N-Nitrosodi-n-propylamine	ND		0.52	0.15	ug/L		05/03/21 07:11	05/04/21 05:08	1
N-Nitrosodiphenylamine	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 05:08	1
Phenol	ND		5.2	0.38	ug/L		05/03/21 07:11	05/04/21 05:08	1
Pyrene	ND		1.0	0.50	ug/L		05/03/21 07:11	05/04/21 05:08	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		05/03/21 07:11	05/04/21 05:08	1

Client Sample ID: SUPE-W-06A-042821
Lab Sample ID: 500-198446-9

Date Collected: 04/28/21 14:00
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.055**	**J**	0.21	0.046	ug/L		05/03/21 07:11	05/04/21 05:08	1
Phenanthrene	ND		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 05:08	1
3,3'-Dichlorobenzidine	ND		5.2	0.98	ug/L		05/03/21 07:11	05/04/21 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*	*05/03/21 07:11*	*05/04/21 05:08*	*1*
2-Fluorobiphenyl	*86*		*34 - 110*	*05/03/21 07:11*	*05/04/21 05:08*	*1*
2-Fluorophenol (Surr)	*37*		*27 - 110*	*05/03/21 07:11*	*05/04/21 05:08*	*1*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*	*05/03/21 07:11*	*05/04/21 05:08*	*1*
Phenol-d5 (Surr)	*23*		*20 - 100*	*05/03/21 07:11*	*05/04/21 05:08*	*1*
Terphenyl-d14 (Surr)	*96*		*40 - 145*	*05/03/21 07:11*	*05/04/21 05:08*	*1*

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	0.27	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total TCDD	ND		10	0.27	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,7,8-PeCDD	ND		51	0.37	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total PeCDD	ND		51	0.37	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,4,7,8-HxCDD	**1.4**	**J**	51	0.35	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,6,7,8-HxCDD	ND		51	0.31	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,7,8,9-HxCDD	ND		51	0.31	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total HxCDD	**1.4**	**J**	51	0.32	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,4,6,7,8-HpCDD	**5.4**	**J**	51	0.63	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total HpCDD	**14**	**J I**	51	0.63	pg/L		05/03/21 13:46	05/12/21 13:51	1
OCDD	**59**	**J B**	100	0.21	pg/L		05/03/21 13:46	05/12/21 13:51	1
2,3,7,8-TCDF	ND		10	0.43	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total TCDF	ND		10	0.43	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,7,8-PeCDF	ND		51	0.55	pg/L		05/03/21 13:46	05/12/21 13:51	1
2,3,4,7,8-PeCDF	ND		51	0.48	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total PeCDF	ND		51	0.55	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,4,7,8-HxCDF	ND		51	0.30	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,6,7,8-HxCDF	ND		51	0.31	pg/L		05/03/21 13:46	05/12/21 13:51	1
2,3,4,6,7,8-HxCDF	ND		51	0.33	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,7,8,9-HxCDF	ND		51	0.39	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total HxCDF	ND		51	0.39	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,4,6,7,8-HpCDF	**1.3**	**J**	51	0.29	pg/L		05/03/21 13:46	05/12/21 13:51	1
1,2,3,4,7,8,9-HpCDF	ND		51	0.39	pg/L		05/03/21 13:46	05/12/21 13:51	1
Total HpCDF	**3.3**	**J I**	51	0.34	pg/L		05/03/21 13:46	05/12/21 13:51	1
OCDF	**5.8**	**J B**	100	0.22	pg/L		05/03/21 13:46	05/12/21 13:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-1,2,3,7,8-PeCDD	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-1,2,3,4,7,8-HxCDD	*74*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*90*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-OCDD	*93*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-2,3,7,8-TCDF	*82*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-1,2,3,7,8-PeCDF	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-2,3,4,7,8-PeCDF	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*
13C-1,2,3,4,7,8-HxCDF	*89*		*40 - 135*	*05/03/21 13:46*	*05/12/21 13:51*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-06A-042821
Lab Sample ID: 500-198446-9
Date Collected: 04/28/21 14:00
Matrix: Water
Date Received: 04/30/21 08:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	80		40 - 135	05/03/21 13:46	05/12/21 13:51	1
13C-2,3,4,6,7,8-HxCDF	81		40 - 135	05/03/21 13:46	05/12/21 13:51	1
13C-1,2,3,7,8,9-HxCDF	87		40 - 135	05/03/21 13:46	05/12/21 13:51	1
13C-1,2,3,4,6,7,8-HpCDF	88		40 - 135	05/03/21 13:46	05/12/21 13:51	1
13C-1,2,3,4,7,8,9-HpCDF	89		40 - 135	05/03/21 13:46	05/12/21 13:51	1
13C-OCDF	77		40 - 135	05/03/21 13:46	05/12/21 13:51	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-06C-042821
Lab Sample ID: 500-198446-10
Date Collected: 04/28/21 17:20
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 03:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 03:44	1
1,3,5-Trimethylbenzene	ND	F1	1.0	0.77	ug/L			05/04/21 03:44	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 03:44	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 03:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 03:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 03:44	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 03:44	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 03:44	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 03:44	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 03:44	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 03:44	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 03:44	1
Toluene	ND	F2	1.0	0.51	ug/L			05/04/21 03:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*77 - 120*		*05/04/21 03:44*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*05/04/21 03:44*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*05/04/21 03:44*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*05/04/21 03:44*	*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		05/04/21 14:51	05/06/21 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*24 - 146*	*05/04/21 14:51*	*05/06/21 15:12*	*1*
2-Fluorobiphenyl	*94*		*37 - 120*	*05/04/21 14:51*	*05/06/21 15:12*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 120*	*05/04/21 14:51*	*05/06/21 15:12*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*05/04/21 14:51*	*05/06/21 15:12*	*1*
Phenol-d5 (Surr)	*34*		*11 - 120*	*05/04/21 14:51*	*05/06/21 15:12*	*1*
p-Terphenyl-d14	*83*		*64 - 127*	*05/04/21 14:51*	*05/06/21 15:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 02:18	1
1,2-Dichlorobenzene	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 02:18	1
1,3-Dichlorobenzene	ND		2.1	0.26	ug/L		05/03/21 07:11	05/04/21 02:18	1
1,4-Dichlorobenzene	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 02:18	1
1-Methylnaphthalene	ND		2.1	0.51	ug/L		05/03/21 07:11	05/04/21 02:18	1
bis(chloroisopropyl) ether	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,3,4,6-Tetrachlorophenol	ND		5.1	1.6	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,4,5-Trichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,4,6-Trichlorophenol	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,4-Dinitrophenol	ND		21	7.7	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		05/03/21 07:11	05/04/21 02:18	1
3 & 4 Methylphenol	ND		2.1	0.45	ug/L		05/03/21 07:11	05/04/21 02:18	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-06C-042821
Date Collected: 04/28/21 17:20
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 02:18	1
2-Chlorophenol	ND		5.1	0.82	ug/L		05/03/21 07:11	05/04/21 02:18	1
2-Methylnaphthalene	ND		2.1	0.13	ug/L		05/03/21 07:11	05/04/21 02:18	1
2-Methylphenol	ND		2.1	0.32	ug/L		05/03/21 07:11	05/04/21 02:18	1
2-Nitroaniline	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 02:18	1
2-Nitrophenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 02:18	1
3-Nitroaniline	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 02:18	1
4,6-Dinitro-2-methylphenol	ND		21	5.1	ug/L		05/03/21 07:11	05/04/21 02:18	1
4-Bromophenyl phenyl ether	ND		5.1	0.94	ug/L		05/03/21 07:11	05/04/21 02:18	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 02:18	1
4-Chloroaniline	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 02:18	1
4-Chlorophenyl phenyl ether	ND		5.1	0.83	ug/L		05/03/21 07:11	05/04/21 02:18	1
4-Nitroaniline	ND		10	4.0	ug/L		05/03/21 07:11	05/04/21 02:18	1
4-Nitrophenol	ND		21	2.4	ug/L		05/03/21 07:11	05/04/21 02:18	1
Acenaphthene	ND		1.0	0.37	ug/L		05/03/21 07:11	05/04/21 02:18	1
Acenaphthylene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 02:18	1
Anthracene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 02:18	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		05/03/21 07:11	05/04/21 02:18	1
Benzo[b]fluoranthene	ND		0.21	0.060	ug/L		05/03/21 07:11	05/04/21 02:18	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		05/03/21 07:11	05/04/21 02:18	1
Benzo[k]fluoranthene	ND		0.21	0.076	ug/L		05/03/21 07:11	05/04/21 02:18	1
Benzoic acid	ND		21	4.7	ug/L		05/03/21 07:11	05/04/21 02:18	1
Benzyl alcohol	ND		21	3.1	ug/L		05/03/21 07:11	05/04/21 02:18	1
Bis(2-chloroethoxy)methane	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 02:18	1
Bis(2-chloroethyl)ether	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 02:18	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 02:18	1
Butyl benzyl phthalate	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 02:18	1
Chrysene	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 02:18	1
Dibenz(a,h)anthracene	ND		0.31	0.066	ug/L		05/03/21 07:11	05/04/21 02:18	1
Dibenzofuran	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 02:18	1
Diethyl phthalate	ND		2.1	0.45	ug/L		05/03/21 07:11	05/04/21 02:18	1
Dimethyl phthalate	ND		2.1	0.39	ug/L		05/03/21 07:11	05/04/21 02:18	1
Di-n-butyl phthalate	ND		5.1	0.82	ug/L		05/03/21 07:11	05/04/21 02:18	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,3,5,6-Tetrachlorophenol	ND		5.1	2.6	ug/L		05/03/21 07:11	05/04/21 02:18	1
Fluoranthene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 02:18	1
Fluorene	ND		1.0	0.39	ug/L		05/03/21 07:11	05/04/21 02:18	1
Hexachlorobenzene	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 02:18	1
Hexachlorobutadiene	ND		5.1	1.1	ug/L		05/03/21 07:11	05/04/21 02:18	1
Hexachlorocyclopentadiene	ND		21	3.5	ug/L		05/03/21 07:11	05/04/21 02:18	1
Hexachloroethane	ND		5.1	1.0	ug/L		05/03/21 07:11	05/04/21 02:18	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.087	ug/L		05/03/21 07:11	05/04/21 02:18	1
Isophorone	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 02:18	1
Nitrobenzene	ND		1.0	0.46	ug/L		05/03/21 07:11	05/04/21 02:18	1
N-Nitrosodi-n-propylamine	ND		0.51	0.14	ug/L		05/03/21 07:11	05/04/21 02:18	1
N-Nitrosodiphenylamine	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 02:18	1
Phenol	ND		5.1	0.37	ug/L		05/03/21 07:11	05/04/21 02:18	1
Pyrene	ND		1.0	0.49	ug/L		05/03/21 07:11	05/04/21 02:18	1
2,4-Dimethylphenol	ND		10	3.4	ug/L		05/03/21 07:11	05/04/21 02:18	1

Client Sample ID: SUPE-W-06C-042821
Lab Sample ID: 500-198446-10

Date Collected: 04/28/21 17:20
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.048**	**J**	0.21	0.045	ug/L		05/03/21 07:11	05/04/21 02:18	1
Phenanthrene	ND		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 02:18	1
3,3'-Dichlorobenzidine	ND		5.1	0.97	ug/L		05/03/21 07:11	05/04/21 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*40 - 145*	*05/03/21 07:11*	*05/04/21 02:18*	*1*
2-Fluorobiphenyl	*88*		*34 - 110*	*05/03/21 07:11*	*05/04/21 02:18*	*1*
2-Fluorophenol (Surr)	*42*		*27 - 110*	*05/03/21 07:11*	*05/04/21 02:18*	*1*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*	*05/03/21 07:11*	*05/04/21 02:18*	*1*
Phenol-d5 (Surr)	*23*		*20 - 100*	*05/03/21 07:11*	*05/04/21 02:18*	*1*
Terphenyl-d14 (Surr)	*93*		*40 - 145*	*05/03/21 07:11*	*05/04/21 02:18*	*1*

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	0.11	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total TCDD	**0.26**	**J**	10	0.11	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,7,8-PeCDD	ND		52	0.19	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total PeCDD	ND		52	0.19	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,4,7,8-HxCDD	**1.0**	**J I**	52	0.22	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,6,7,8-HxCDD	ND		52	0.21	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,7,8,9-HxCDD	ND		52	0.20	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total HxCDD	**1.0**	**J I**	52	0.21	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,4,6,7,8-HpCDD	**4.1**	**J**	52	0.16	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total HpCDD	**14**	**J**	52	0.16	pg/L		05/03/21 13:46	05/12/21 14:51	1
OCDD	**48**	**J B**	100	0.17	pg/L		05/03/21 13:46	05/12/21 14:51	1
2,3,7,8-TCDF	ND		10	0.25	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total TCDF	ND		10	0.25	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,7,8-PeCDF	ND		52	0.23	pg/L		05/03/21 13:46	05/12/21 14:51	1
2,3,4,7,8-PeCDF	ND		52	0.20	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total PeCDF	ND		52	0.23	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,4,7,8-HxCDF	ND		52	0.21	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,6,7,8-HxCDF	ND		52	0.24	pg/L		05/03/21 13:46	05/12/21 14:51	1
2,3,4,6,7,8-HxCDF	ND		52	0.23	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,7,8,9-HxCDF	ND		52	0.28	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total HxCDF	ND		52	0.28	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,4,6,7,8-HpCDF	**0.76**	**J**	52	0.20	pg/L		05/03/21 13:46	05/12/21 14:51	1
1,2,3,4,7,8,9-HpCDF	**0.40**	**J I**	52	0.28	pg/L		05/03/21 13:46	05/12/21 14:51	1
Total HpCDF	**2.7**	**J I**	52	0.24	pg/L		05/03/21 13:46	05/12/21 14:51	1
OCDF	**3.6**	**J I B**	100	0.093	pg/L		05/03/21 13:46	05/12/21 14:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-1,2,3,7,8-PeCDD	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-1,2,3,4,7,8-HxCDD	*81*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-OCDD	*100*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-2,3,7,8-TCDF	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-2,3,4,7,8-PeCDF	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*
13C-1,2,3,4,7,8-HxCDF	*96*		*40 - 135*	*05/03/21 13:46*	*05/12/21 14:51*	*1*

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-06C-042821
Date Collected: 04/28/21 17:20
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-10
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	82		40 - 135	05/03/21 13:46	05/12/21 14:51	1
13C-2,3,4,6,7,8-HxCDF	85		40 - 135	05/03/21 13:46	05/12/21 14:51	1
13C-1,2,3,7,8,9-HxCDF	91		40 - 135	05/03/21 13:46	05/12/21 14:51	1
13C-1,2,3,4,6,7,8-HpCDF	93		40 - 135	05/03/21 13:46	05/12/21 14:51	1
13C-1,2,3,4,7,8,9-HpCDF	92		40 - 135	05/03/21 13:46	05/12/21 14:51	1
13C-OCDF	79		40 - 135	05/03/21 13:46	05/12/21 14:51	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-12A-042921
Lab Sample ID: 500-198446-11
Date Collected: 04/29/21 10:13
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 04:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 04:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 04:07	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 04:07	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 04:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 04:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 04:07	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 04:07	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 04:07	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 04:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 04:07	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 04:07	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 04:07	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 04:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*05/04/21 04:07*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*05/04/21 04:07*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*05/04/21 04:07*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/04/21 04:07*	*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		05/04/21 14:51	05/06/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 146*	*05/04/21 14:51*	*05/06/21 19:18*	*1*
2-Fluorobiphenyl	*84*		*37 - 120*	*05/04/21 14:51*	*05/06/21 19:18*	*1*
2-Fluorophenol (Surr)	*43*		*10 - 120*	*05/04/21 14:51*	*05/06/21 19:18*	*1*
Nitrobenzene-d5 (Surr)	*72*		*26 - 120*	*05/04/21 14:51*	*05/06/21 19:18*	*1*
Phenol-d5 (Surr)	*30*		*11 - 120*	*05/04/21 14:51*	*05/06/21 19:18*	*1*
p-Terphenyl-d14	*69*		*64 - 127*	*05/04/21 14:51*	*05/06/21 19:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 05:30	1
1,2-Dichlorobenzene	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 05:30	1
1,3-Dichlorobenzene	ND		2.1	0.26	ug/L		05/03/21 07:11	05/04/21 05:30	1
1,4-Dichlorobenzene	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 05:30	1
1-Methylnaphthalene	ND		2.1	0.52	ug/L		05/03/21 07:11	05/04/21 05:30	1
bis(chloroisopropyl) ether	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,3,4,6-Tetrachlorophenol	ND		5.2	1.6	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,4,5-Trichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,4,6-Trichlorophenol	ND		5.2	1.2	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,4-Dichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,4-Dinitrophenol	ND		21	7.8	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,6-Dinitrotoluene	ND		1.0	0.13	ug/L		05/03/21 07:11	05/04/21 05:30	1
3 & 4 Methylphenol	ND		2.1	0.46	ug/L		05/03/21 07:11	05/04/21 05:30	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-12A-042921
Date Collected: 04/29/21 10:13
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 05:30	1
2-Chlorophenol	ND		5.2	0.84	ug/L		05/03/21 07:11	05/04/21 05:30	1
2-Methylnaphthalene	ND		2.1	0.14	ug/L		05/03/21 07:11	05/04/21 05:30	1
2-Methylphenol	ND		2.1	0.33	ug/L		05/03/21 07:11	05/04/21 05:30	1
2-Nitroaniline	ND		5.2	1.1	ug/L		05/03/21 07:11	05/04/21 05:30	1
2-Nitrophenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 05:30	1
3-Nitroaniline	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:30	1
4,6-Dinitro-2-methylphenol	ND		21	5.2	ug/L		05/03/21 07:11	05/04/21 05:30	1
4-Bromophenyl phenyl ether	ND		5.2	0.95	ug/L		05/03/21 07:11	05/04/21 05:30	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 05:30	1
4-Chloroaniline	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 05:30	1
4-Chlorophenyl phenyl ether	ND		5.2	0.85	ug/L		05/03/21 07:11	05/04/21 05:30	1
4-Nitroaniline	ND		10	4.1	ug/L		05/03/21 07:11	05/04/21 05:30	1
4-Nitrophenol	ND		21	2.5	ug/L		05/03/21 07:11	05/04/21 05:30	1
Acenaphthene	ND		1.0	0.38	ug/L		05/03/21 07:11	05/04/21 05:30	1
Acenaphthylene	ND		1.0	0.34	ug/L		05/03/21 07:11	05/04/21 05:30	1
Anthracene	ND		1.0	0.34	ug/L		05/03/21 07:11	05/04/21 05:30	1
Benzo[a]pyrene	ND		0.21	0.059	ug/L		05/03/21 07:11	05/04/21 05:30	1
Benzo[b]fluoranthene	ND		0.21	0.061	ug/L		05/03/21 07:11	05/04/21 05:30	1
Benzo[g,h,i]perylene	ND		1.0	0.44	ug/L		05/03/21 07:11	05/04/21 05:30	1
Benzo[k]fluoranthene	ND		0.21	0.078	ug/L		05/03/21 07:11	05/04/21 05:30	1
Benzoic acid	ND		21	4.8	ug/L		05/03/21 07:11	05/04/21 05:30	1
Benzyl alcohol	ND		21	3.2	ug/L		05/03/21 07:11	05/04/21 05:30	1
Bis(2-chloroethoxy)methane	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 05:30	1
Bis(2-chloroethyl)ether	ND		2.1	0.37	ug/L		05/03/21 07:11	05/04/21 05:30	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 05:30	1
Butyl benzyl phthalate	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 05:30	1
Chrysene	ND		0.52	0.15	ug/L		05/03/21 07:11	05/04/21 05:30	1
Dibenz(a,h)anthracene	ND		0.31	0.067	ug/L		05/03/21 07:11	05/04/21 05:30	1
Dibenzofuran	ND		2.1	0.37	ug/L		05/03/21 07:11	05/04/21 05:30	1
Diethyl phthalate	ND		2.1	0.46	ug/L		05/03/21 07:11	05/04/21 05:30	1
Dimethyl phthalate	ND		2.1	0.40	ug/L		05/03/21 07:11	05/04/21 05:30	1
Di-n-butyl phthalate	ND		5.2	0.84	ug/L		05/03/21 07:11	05/04/21 05:30	1
Di-n-octyl phthalate	ND		10	2.6	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,3,5,6-Tetrachlorophenol	ND		5.2	2.6	ug/L		05/03/21 07:11	05/04/21 05:30	1
Fluoranthene	ND		1.0	0.34	ug/L		05/03/21 07:11	05/04/21 05:30	1
Fluorene	ND		1.0	0.40	ug/L		05/03/21 07:11	05/04/21 05:30	1
Hexachlorobenzene	ND		0.52	0.15	ug/L		05/03/21 07:11	05/04/21 05:30	1
Hexachlorobutadiene	ND		5.2	1.2	ug/L		05/03/21 07:11	05/04/21 05:30	1
Hexachlorocyclopentadiene	ND		21	3.6	ug/L		05/03/21 07:11	05/04/21 05:30	1
Hexachloroethane	ND		5.2	1.0	ug/L		05/03/21 07:11	05/04/21 05:30	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.088	ug/L		05/03/21 07:11	05/04/21 05:30	1
Isophorone	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 05:30	1
Nitrobenzene	ND		1.0	0.47	ug/L		05/03/21 07:11	05/04/21 05:30	1
N-Nitrosodi-n-propylamine	ND		0.52	0.15	ug/L		05/03/21 07:11	05/04/21 05:30	1
N-Nitrosodiphenylamine	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 05:30	1
Phenol	ND		5.2	0.38	ug/L		05/03/21 07:11	05/04/21 05:30	1
Pyrene	ND		1.0	0.50	ug/L		05/03/21 07:11	05/04/21 05:30	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		05/03/21 07:11	05/04/21 05:30	1

Client Sample ID: SUPE-W-12A-042921
Lab Sample ID: 500-198446-11

Date Collected: 04/29/21 10:13
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.050**	**J**	0.21	0.046	ug/L		05/03/21 07:11	05/04/21 05:30	1
Phenanthrene	ND		1.0	0.37	ug/L		05/03/21 07:11	05/04/21 05:30	1
3,3'-Dichlorobenzidine	ND		5.2	0.99	ug/L		05/03/21 07:11	05/04/21 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*104*		*40 - 145*	*05/03/21 07:11*	*05/04/21 05:30*	*1*
2-Fluorobiphenyl	*98*		*34 - 110*	*05/03/21 07:11*	*05/04/21 05:30*	*1*
2-Fluorophenol (Surr)	*43*		*27 - 110*	*05/03/21 07:11*	*05/04/21 05:30*	*1*
Nitrobenzene-d5 (Surr)	*79*		*36 - 120*	*05/03/21 07:11*	*05/04/21 05:30*	*1*
Phenol-d5 (Surr)	*24*		*20 - 100*	*05/03/21 07:11*	*05/04/21 05:30*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 145*	*05/03/21 07:11*	*05/04/21 05:30*	*1*

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	0.30	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total TCDD	ND		10	0.30	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,7,8-PeCDD	ND		51	0.28	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total PeCDD	**0.81**	**J I**	51	0.28	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,4,7,8-HxCDD	**2.0**	**J I**	51	0.39	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,6,7,8-HxCDD	**4.7**	**J I**	51	0.36	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,7,8,9-HxCDD	**1.7**	**J**	51	0.35	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total HxCDD	**17**	**J I**	51	0.37	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,4,6,7,8-HpCDD	**47**	**J**	51	0.69	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total HpCDD	**84**		51	0.69	pg/L		05/03/21 13:46	05/12/21 15:52	1
OCDD	**230**	**B**	100	0.14	pg/L		05/03/21 13:46	05/12/21 15:52	1
2,3,7,8-TCDF	**0.50**	**J**	10	0.27	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total TCDF	**36**	**I**	10	0.27	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,7,8-PeCDF	**0.88**	**J**	51	0.35	pg/L		05/03/21 13:46	05/12/21 15:52	1
2,3,4,7,8-PeCDF	**0.97**	**J I**	51	0.32	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total PeCDF	**51**	**I**	51	0.34	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,4,7,8-HxCDF	**6.7**	**J**	51	0.58	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,6,7,8-HxCDF	**3.8**	**J I**	51	0.61	pg/L		05/03/21 13:46	05/12/21 15:52	1
2,3,4,6,7,8-HxCDF	**1.3**	**J I**	51	0.66	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,7,8,9-HxCDF	ND		51	0.77	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total HxCDF	**73**	**I**	51	0.66	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,4,6,7,8-HpCDF	**11**	**J**	51	0.45	pg/L		05/03/21 13:46	05/12/21 15:52	1
1,2,3,4,7,8,9-HpCDF	**2.2**	**J I**	51	0.59	pg/L		05/03/21 13:46	05/12/21 15:52	1
Total HpCDF	**37**	**J I**	51	0.52	pg/L		05/03/21 13:46	05/12/21 15:52	1
OCDF	**24**	**J B**	100	0.17	pg/L		05/03/21 13:46	05/12/21 15:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*80*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-1,2,3,7,8-PeCDD	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-1,2,3,6,7,8-HxCDD	*81*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*97*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-OCDD	*101*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-2,3,7,8-TCDF	*81*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-2,3,4,7,8-PeCDF	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*
13C-1,2,3,4,7,8-HxCDF	*92*		*40 - 135*	*05/03/21 13:46*	*05/12/21 15:52*	*1*

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-12A-042921
Date Collected: 04/29/21 10:13
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-11
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	80		40 - 135	05/03/21 13:46	05/12/21 15:52	1
13C-2,3,4,6,7,8-HxCDF	82		40 - 135	05/03/21 13:46	05/12/21 15:52	1
13C-1,2,3,7,8,9-HxCDF	88		40 - 135	05/03/21 13:46	05/12/21 15:52	1
13C-1,2,3,4,6,7,8-HpCDF	93		40 - 135	05/03/21 13:46	05/12/21 15:52	1
13C-1,2,3,4,7,8,9-HpCDF	93		40 - 135	05/03/21 13:46	05/12/21 15:52	1
13C-OCDF	80		40 - 135	05/03/21 13:46	05/12/21 15:52	1

Client Sample ID: SUPE-EB-02-042921
Lab Sample ID: 500-198446-12
Date Collected: 04/29/21 10:18
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 04:31	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 04:31	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 04:31	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 04:31	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 04:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 04:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 04:31	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 04:31	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 04:31	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 04:31	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 04:31	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 04:31	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 04:31	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 04:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*05/04/21 04:31*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*05/04/21 04:31*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*05/04/21 04:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/04/21 04:31*	*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		05/04/21 14:51	05/06/21 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*24 - 146*	*05/04/21 14:51*	*05/06/21 19:46*	*1*
2-Fluorobiphenyl	*93*		*37 - 120*	*05/04/21 14:51*	*05/06/21 19:46*	*1*
2-Fluorophenol (Surr)	*48*		*10 - 120*	*05/04/21 14:51*	*05/06/21 19:46*	*1*
Nitrobenzene-d5 (Surr)	*82*		*26 - 120*	*05/04/21 14:51*	*05/06/21 19:46*	*1*
Phenol-d5 (Surr)	*32*		*11 - 120*	*05/04/21 14:51*	*05/06/21 19:46*	*1*
p-Terphenyl-d14	*110*		*64 - 127*	*05/04/21 14:51*	*05/06/21 19:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 05:51	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		05/03/21 07:11	05/04/21 05:51	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		05/03/21 07:11	05/04/21 05:51	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		05/03/21 07:11	05/04/21 05:51	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		05/03/21 07:11	05/04/21 05:51	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		05/03/21 07:11	05/04/21 05:51	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		05/03/21 07:11	05/04/21 05:51	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-EB-02-042921
Date Collected: 04/29/21 10:18
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.0	0.34	ug/L		05/03/21 07:11	05/04/21 05:51	1
2-Chlorophenol	ND		5.0	0.80	ug/L		05/03/21 07:11	05/04/21 05:51	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		05/03/21 07:11	05/04/21 05:51	1
2-Methylphenol	ND		2.0	0.31	ug/L		05/03/21 07:11	05/04/21 05:51	1
2-Nitroaniline	ND		5.0	1.1	ug/L		05/03/21 07:11	05/04/21 05:51	1
2-Nitrophenol	ND		10	2.1	ug/L		05/03/21 07:11	05/04/21 05:51	1
3-Nitroaniline	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 05:51	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		05/03/21 07:11	05/04/21 05:51	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		05/03/21 07:11	05/04/21 05:51	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 05:51	1
4-Chloroaniline	ND		10	2.1	ug/L		05/03/21 07:11	05/04/21 05:51	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		05/03/21 07:11	05/04/21 05:51	1
4-Nitroaniline	ND		10	3.9	ug/L		05/03/21 07:11	05/04/21 05:51	1
4-Nitrophenol	ND		20	2.3	ug/L		05/03/21 07:11	05/04/21 05:51	1
Acenaphthene	ND		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 05:51	1
Acenaphthylene	ND		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 05:51	1
Anthracene	ND		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 05:51	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		05/03/21 07:11	05/04/21 05:51	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		05/03/21 07:11	05/04/21 05:51	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		05/03/21 07:11	05/04/21 05:51	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		05/03/21 07:11	05/04/21 05:51	1
Benzoic acid	ND		20	4.6	ug/L		05/03/21 07:11	05/04/21 05:51	1
Benzyl alcohol	ND		20	3.1	ug/L		05/03/21 07:11	05/04/21 05:51	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 05:51	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		05/03/21 07:11	05/04/21 05:51	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 05:51	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		05/03/21 07:11	05/04/21 05:51	1
Chrysene	ND		0.50	0.14	ug/L		05/03/21 07:11	05/04/21 05:51	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		05/03/21 07:11	05/04/21 05:51	1
Dibenzofuran	ND		2.0	0.35	ug/L		05/03/21 07:11	05/04/21 05:51	1
Diethyl phthalate	ND		2.0	0.44	ug/L		05/03/21 07:11	05/04/21 05:51	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		05/03/21 07:11	05/04/21 05:51	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		05/03/21 07:11	05/04/21 05:51	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		05/03/21 07:11	05/04/21 05:51	1
Fluoranthene	ND		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 05:51	1
Fluorene	ND		1.0	0.38	ug/L		05/03/21 07:11	05/04/21 05:51	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		05/03/21 07:11	05/04/21 05:51	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		05/03/21 07:11	05/04/21 05:51	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		05/03/21 07:11	05/04/21 05:51	1
Hexachloroethane	ND		5.0	0.97	ug/L		05/03/21 07:11	05/04/21 05:51	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		05/03/21 07:11	05/04/21 05:51	1
Isophorone	ND		2.0	0.29	ug/L		05/03/21 07:11	05/04/21 05:51	1
Nitrobenzene	ND		1.0	0.45	ug/L		05/03/21 07:11	05/04/21 05:51	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		05/03/21 07:11	05/04/21 05:51	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		05/03/21 07:11	05/04/21 05:51	1
Phenol	ND		5.0	0.36	ug/L		05/03/21 07:11	05/04/21 05:51	1
Pyrene	ND		1.0	0.48	ug/L		05/03/21 07:11	05/04/21 05:51	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		05/03/21 07:11	05/04/21 05:51	1

Client Sample ID: SUPE-EB-02-042921
Lab Sample ID: 500-198446-12

Date Collected: 04/29/21 10:18
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.20	0.044	ug/L		05/03/21 07:11	05/04/21 05:51	1
Phenanthrene	ND		1.0	0.35	ug/L		05/03/21 07:11	05/04/21 05:51	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		05/03/21 07:11	05/04/21 05:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*40 - 145*	*05/03/21 07:11*	*05/04/21 05:51*	*1*
2-Fluorobiphenyl	*93*		*34 - 110*	*05/03/21 07:11*	*05/04/21 05:51*	*1*
2-Fluorophenol (Surr)	*47*		*27 - 110*	*05/03/21 07:11*	*05/04/21 05:51*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*05/03/21 07:11*	*05/04/21 05:51*	*1*
Phenol-d5 (Surr)	*19*	*S1-*	*20 - 100*	*05/03/21 07:11*	*05/04/21 05:51*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*05/03/21 07:11*	*05/04/21 05:51*	*1*

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	0.30	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total TCDD	ND		9.8	0.30	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,7,8-PeCDD	ND		49	0.27	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total PeCDD	ND		49	0.27	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,4,7,8-HxCDD	**0.98**	**J**	49	0.25	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,6,7,8-HxCDD	**0.47**	**J**	49	0.23	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,7,8,9-HxCDD	ND		49	0.23	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total HxCDD	**1.4**	**J**	49	0.23	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,4,6,7,8-HpCDD	ND		49	0.50	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total HpCDD	ND		49	0.50	pg/L		05/03/21 13:46	05/12/21 10:51	1
OCDD	**2.0**	**J I B**	98	0.069	pg/L		05/03/21 13:46	05/12/21 10:51	1
2,3,7,8-TCDF	ND		9.8	0.20	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total TCDF	**0.39**	**J I**	9.8	0.20	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,7,8-PeCDF	ND		49	0.35	pg/L		05/03/21 13:46	05/12/21 10:51	1
2,3,4,7,8-PeCDF	ND		49	0.31	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total PeCDF	ND		49	0.35	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,4,7,8-HxCDF	ND		49	0.18	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,6,7,8-HxCDF	ND		49	0.20	pg/L		05/03/21 13:46	05/12/21 10:51	1
2,3,4,6,7,8-HxCDF	ND		49	0.21	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,7,8,9-HxCDF	ND		49	0.25	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total HxCDF	ND		49	0.25	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,4,6,7,8-HpCDF	**0.37**	**J I**	49	0.19	pg/L		05/03/21 13:46	05/12/21 10:51	1
1,2,3,4,7,8,9-HpCDF	**0.32**	**J**	49	0.28	pg/L		05/03/21 13:46	05/12/21 10:51	1
Total HpCDF	**0.69**	**J I**	49	0.24	pg/L		05/03/21 13:46	05/12/21 10:51	1
OCDF	**1.2**	**J I B**	98	0.14	pg/L		05/03/21 13:46	05/12/21 10:51	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*76*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-1,2,3,7,8-PeCDD	*74*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-1,2,3,4,7,8-HxCDD	*75*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-1,2,3,6,7,8-HxCDD	*87*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-OCDD	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-2,3,7,8-TCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-1,2,3,7,8-PeCDF	*77*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-2,3,4,7,8-PeCDF	*76*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*
13C-1,2,3,4,7,8-HxCDF	*91*		*40 - 135*	*05/03/21 13:46*	*05/12/21 10:51*	*1*

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

Job ID: 500-198446-1

Client Sample ID: SUPE-EB-02-042921
Date Collected: 04/29/21 10:18
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-12
Matrix: Water

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	80		40 - 135	05/03/21 13:46	05/12/21 10:51	1
13C-2,3,4,6,7,8-HxCDF	81		40 - 135	05/03/21 13:46	05/12/21 10:51	1
13C-1,2,3,7,8,9-HxCDF	87		40 - 135	05/03/21 13:46	05/12/21 10:51	1
13C-1,2,3,4,6,7,8-HpCDF	89		40 - 135	05/03/21 13:46	05/12/21 10:51	1
13C-1,2,3,4,7,8,9-HpCDF	86		40 - 135	05/03/21 13:46	05/12/21 10:51	1
13C-OCDF	77		40 - 135	05/03/21 13:46	05/12/21 10:51	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-30C-042921
Lab Sample ID: 500-198446-13
Date Collected: 04/29/21 12:51
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 04:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 04:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 04:54	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 04:54	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 04:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 04:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 04:54	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 04:54	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 04:54	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 04:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 04:54	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 04:54	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 04:54	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 04:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*05/04/21 04:54*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*05/04/21 04:54*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*05/04/21 04:54*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/04/21 04:54*	*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		05/04/21 14:51	05/06/21 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*24 - 146*	*05/04/21 14:51*	*05/06/21 20:13*	*1*
2-Fluorobiphenyl	*85*		*37 - 120*	*05/04/21 14:51*	*05/06/21 20:13*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*05/04/21 14:51*	*05/06/21 20:13*	*1*
Nitrobenzene-d5 (Surr)	*76*		*26 - 120*	*05/04/21 14:51*	*05/06/21 20:13*	*1*
Phenol-d5 (Surr)	*31*		*11 - 120*	*05/04/21 14:51*	*05/06/21 20:13*	*1*
p-Terphenyl-d14	*102*		*64 - 127*	*05/04/21 14:51*	*05/06/21 20:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 06:12	1
1,2-Dichlorobenzene	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 06:12	1
1,3-Dichlorobenzene	ND		2.1	0.26	ug/L		05/03/21 07:11	05/04/21 06:12	1
1,4-Dichlorobenzene	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 06:12	1
1-Methylnaphthalene	ND		2.1	0.52	ug/L		05/03/21 07:11	05/04/21 06:12	1
bis(chloroisopropyl) ether	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,3,4,6-Tetrachlorophenol	ND		5.2	1.6	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,4,5-Trichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,4,6-Trichlorophenol	ND		5.2	1.1	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,4-Dichlorophenol	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,4-Dinitrophenol	ND		21	7.7	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,4-Dinitrotoluene	ND		1.0	0.31	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		05/03/21 07:11	05/04/21 06:12	1
3 & 4 Methylphenol	ND		2.1	0.46	ug/L		05/03/21 07:11	05/04/21 06:12	1

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

Job ID: 500-198446-1

Client Sample ID: SUPE-W-30C-042921
Date Collected: 04/29/21 12:51
Date Received: 04/30/21 08:45

Lab Sample ID: 500-198446-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 06:12	1
2-Chlorophenol	ND		5.2	0.83	ug/L		05/03/21 07:11	05/04/21 06:12	1
2-Methylnaphthalene	ND		2.1	0.13	ug/L		05/03/21 07:11	05/04/21 06:12	1
2-Methylphenol	ND		2.1	0.32	ug/L		05/03/21 07:11	05/04/21 06:12	1
2-Nitroaniline	ND		5.2	1.1	ug/L		05/03/21 07:11	05/04/21 06:12	1
2-Nitrophenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 06:12	1
3-Nitroaniline	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 06:12	1
4,6-Dinitro-2-methylphenol	ND		21	5.1	ug/L		05/03/21 07:11	05/04/21 06:12	1
4-Bromophenyl phenyl ether	ND		5.2	0.94	ug/L		05/03/21 07:11	05/04/21 06:12	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 06:12	1
4-Chloroaniline	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 06:12	1
4-Chlorophenyl phenyl ether	ND		5.2	0.84	ug/L		05/03/21 07:11	05/04/21 06:12	1
4-Nitroaniline	ND		10	4.1	ug/L		05/03/21 07:11	05/04/21 06:12	1
4-Nitrophenol	ND		21	2.4	ug/L		05/03/21 07:11	05/04/21 06:12	1
Acenaphthene	ND		1.0	0.37	ug/L		05/03/21 07:11	05/04/21 06:12	1
Acenaphthylene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 06:12	1
Anthracene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 06:12	1
Benzo[a]pyrene	ND		0.21	0.058	ug/L		05/03/21 07:11	05/04/21 06:12	1
Benzo[b]fluoranthene	ND		0.21	0.060	ug/L		05/03/21 07:11	05/04/21 06:12	1
Benzo[g,h,i]perylene	ND		1.0	0.43	ug/L		05/03/21 07:11	05/04/21 06:12	1
Benzo[k]fluoranthene	ND		0.21	0.077	ug/L		05/03/21 07:11	05/04/21 06:12	1
Benzoic acid	ND		21	4.7	ug/L		05/03/21 07:11	05/04/21 06:12	1
Benzyl alcohol	ND		21	3.2	ug/L		05/03/21 07:11	05/04/21 06:12	1
Bis(2-chloroethoxy)methane	ND		2.1	0.31	ug/L		05/03/21 07:11	05/04/21 06:12	1
Bis(2-chloroethyl)ether	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 06:12	1
Bis(2-ethylhexyl) phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 06:12	1
Butyl benzyl phthalate	ND		2.1	0.28	ug/L		05/03/21 07:11	05/04/21 06:12	1
Chrysene	ND		0.52	0.14	ug/L		05/03/21 07:11	05/04/21 06:12	1
Dibenz(a,h)anthracene	ND		0.31	0.066	ug/L		05/03/21 07:11	05/04/21 06:12	1
Dibenzofuran	ND		2.1	0.36	ug/L		05/03/21 07:11	05/04/21 06:12	1
Diethyl phthalate	ND		2.1	0.46	ug/L		05/03/21 07:11	05/04/21 06:12	1
Dimethyl phthalate	ND		2.1	0.39	ug/L		05/03/21 07:11	05/04/21 06:12	1
Di-n-butyl phthalate	ND		5.2	0.83	ug/L		05/03/21 07:11	05/04/21 06:12	1
Di-n-octyl phthalate	ND		10	2.6	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,3,5,6-Tetrachlorophenol	ND		5.2	2.6	ug/L		05/03/21 07:11	05/04/21 06:12	1
Fluoranthene	ND		1.0	0.33	ug/L		05/03/21 07:11	05/04/21 06:12	1
Fluorene	ND		1.0	0.39	ug/L		05/03/21 07:11	05/04/21 06:12	1
Hexachlorobenzene	ND		0.52	0.14	ug/L		05/03/21 07:11	05/04/21 06:12	1
Hexachlorobutadiene	ND		5.2	1.1	ug/L		05/03/21 07:11	05/04/21 06:12	1
Hexachlorocyclopentadiene	ND		21	3.6	ug/L		05/03/21 07:11	05/04/21 06:12	1
Hexachloroethane	ND		5.2	1.0	ug/L		05/03/21 07:11	05/04/21 06:12	1
Indeno[1,2,3-cd]pyrene	ND		0.21	0.087	ug/L		05/03/21 07:11	05/04/21 06:12	1
Isophorone	ND		2.1	0.30	ug/L		05/03/21 07:11	05/04/21 06:12	1
Nitrobenzene	ND		1.0	0.47	ug/L		05/03/21 07:11	05/04/21 06:12	1
N-Nitrosodi-n-propylamine	ND		0.52	0.14	ug/L		05/03/21 07:11	05/04/21 06:12	1
N-Nitrosodiphenylamine	ND		2.1	0.35	ug/L		05/03/21 07:11	05/04/21 06:12	1
Phenol	ND		5.2	0.37	ug/L		05/03/21 07:11	05/04/21 06:12	1
Pyrene	ND		1.0	0.50	ug/L		05/03/21 07:11	05/04/21 06:12	1
2,4-Dimethylphenol	ND		10	3.5	ug/L		05/03/21 07:11	05/04/21 06:12	1

Client Sample ID: SUPE-W-30C-042921
Lab Sample ID: 500-198446-13
Date Collected: 04/29/21 12:51
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.21	0.046	ug/L		05/03/21 07:11	05/04/21 06:12	1
Phenanthrene	ND		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 06:12	1
3,3'-Dichlorobenzidine	ND		5.2	0.97	ug/L		05/03/21 07:11	05/04/21 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*40 - 145*	*05/03/21 07:11*	*05/04/21 06:12*	*1*
2-Fluorobiphenyl	*73*		*34 - 110*	*05/03/21 07:11*	*05/04/21 06:12*	*1*
2-Fluorophenol (Surr)	*40*		*27 - 110*	*05/03/21 07:11*	*05/04/21 06:12*	*1*
Nitrobenzene-d5 (Surr)	*60*		*36 - 120*	*05/03/21 07:11*	*05/04/21 06:12*	*1*
Phenol-d5 (Surr)	*19*	*S1-*	*20 - 100*	*05/03/21 07:11*	*05/04/21 06:12*	*1*
Terphenyl-d14 (Surr)	*73*		*40 - 145*	*05/03/21 07:11*	*05/04/21 06:12*	*1*

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	0.17	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total TCDD	ND		10	0.33	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,7,8-PeCDD	ND		51	0.28	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total PeCDD	ND		51	0.28	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,4,7,8-HxCDD	**0.84**	**J I**	51	0.33	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,6,7,8-HxCDD	**2.2**	**J I**	51	0.30	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,7,8,9-HxCDD	**1.2**	**J**	51	0.30	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total HxCDD	**13**	**J I**	51	0.31	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,4,6,7,8-HpCDD	**42**	**J**	51	0.47	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total HpCDD	**71**		51	0.47	pg/L		05/03/21 13:46	05/12/21 16:52	1
OCDD	**140**	**B**	100	0.26	pg/L		05/03/21 13:46	05/12/21 16:52	1
2,3,7,8-TCDF	ND		10	0.31	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total TCDF	**67**	**I**	10	0.31	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,7,8-PeCDF	ND		51	0.30	pg/L		05/03/21 13:46	05/12/21 16:52	1
2,3,4,7,8-PeCDF	ND		51	0.26	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total PeCDF	**14**	**J I**	51	0.28	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,4,7,8-HxCDF	**1.1**	**J**	51	0.25	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,6,7,8-HxCDF	**1.8**	**J I**	51	0.28	pg/L		05/03/21 13:46	05/12/21 16:52	1
2,3,4,6,7,8-HxCDF	**1.1**	**J I**	51	0.28	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,7,8,9-HxCDF	ND		51	0.34	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total HxCDF	**40**	**J I**	51	0.29	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,4,6,7,8-HpCDF	**7.4**	**J**	51	0.26	pg/L		05/03/21 13:46	05/12/21 16:52	1
1,2,3,4,7,8,9-HpCDF	**2.3**	**J I**	51	0.37	pg/L		05/03/21 13:46	05/12/21 16:52	1
Total HpCDF	**32**	**J I**	51	0.32	pg/L		05/03/21 13:46	05/12/21 16:52	1
OCDF	**16**	**J B**	100	0.12	pg/L		05/03/21 13:46	05/12/21 16:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*82*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-1,2,3,7,8-PeCDD	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-1,2,3,4,7,8-HxCDD	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-1,2,3,6,7,8-HxCDD	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*101*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-OCDD	*107*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-1,2,3,7,8-PeCDF	*84*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-2,3,4,7,8-PeCDF	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*
13C-1,2,3,4,7,8-HxCDF	*101*		*40 - 135*	*05/03/21 13:46*	*05/12/21 16:52*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-30C-042921
Lab Sample ID: 500-198446-13
Date Collected: 04/29/21 12:51
Matrix: Water
Date Received: 04/30/21 08:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	87		40 - 135	05/03/21 13:46	05/12/21 16:52	1
13C-2,3,4,6,7,8-HxCDF	89		40 - 135	05/03/21 13:46	05/12/21 16:52	1
13C-1,2,3,7,8,9-HxCDF	95		40 - 135	05/03/21 13:46	05/12/21 16:52	1
13C-1,2,3,4,6,7,8-HpCDF	97		40 - 135	05/03/21 13:46	05/12/21 16:52	1
13C-1,2,3,4,7,8,9-HpCDF	99		40 - 135	05/03/21 13:46	05/12/21 16:52	1
13C-OCDF	86		40 - 135	05/03/21 13:46	05/12/21 16:52	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-12CR-042921
Lab Sample ID: 500-198446-14
Date Collected: 04/29/21 08:21
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 05:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 05:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 05:17	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 05:17	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 05:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 05:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 05:17	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 05:17	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 05:17	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 05:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 05:17	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 05:17	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 05:17	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 05:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*05/04/21 05:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/04/21 05:17*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/04/21 05:17*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/04/21 05:17*	*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		05/04/21 14:51	05/06/21 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*24 - 146*	*05/04/21 14:51*	*05/06/21 20:40*	*1*
2-Fluorobiphenyl	*92*		*37 - 120*	*05/04/21 14:51*	*05/06/21 20:40*	*1*
2-Fluorophenol (Surr)	*48*		*10 - 120*	*05/04/21 14:51*	*05/06/21 20:40*	*1*
Nitrobenzene-d5 (Surr)	*80*		*26 - 120*	*05/04/21 14:51*	*05/06/21 20:40*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*05/04/21 14:51*	*05/06/21 20:40*	*1*
p-Terphenyl-d14	*100*		*64 - 127*	*05/04/21 14:51*	*05/06/21 20:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 06:34	1
1,2-Dichlorobenzene	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 06:34	1
1,3-Dichlorobenzene	ND		1.9	0.24	ug/L		05/03/21 07:11	05/04/21 06:34	1
1,4-Dichlorobenzene	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 06:34	1
1-Methylnaphthalene	ND		1.9	0.48	ug/L		05/03/21 07:11	05/04/21 06:34	1
bis(chloroisopropyl) ether	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,3,4,6-Tetrachlorophenol	ND		4.8	1.4	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,4,5-Trichlorophenol	ND		9.5	2.2	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,4,6-Trichlorophenol	ND		4.8	1.0	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,4-Dichlorophenol	ND		9.5	2.2	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,4-Dinitrophenol	ND		19	7.1	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,4-Dinitrotoluene	ND		0.95	0.29	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,6-Dinitrotoluene	ND		0.95	0.11	ug/L		05/03/21 07:11	05/04/21 06:34	1
3 & 4 Methylphenol	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 06:34	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-12CR-042921
Lab Sample ID: 500-198446-14
Date Collected: 04/29/21 08:21
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chloronaphthalene	ND		1.9	0.32	ug/L		05/03/21 07:11	05/04/21 06:34	1
2-Chlorophenol	ND		4.8	0.76	ug/L		05/03/21 07:11	05/04/21 06:34	1
2-Methylnaphthalene	ND		1.9	0.12	ug/L		05/03/21 07:11	05/04/21 06:34	1
2-Methylphenol	ND		1.9	0.30	ug/L		05/03/21 07:11	05/04/21 06:34	1
2-Nitroaniline	ND		4.8	1.0	ug/L		05/03/21 07:11	05/04/21 06:34	1
2-Nitrophenol	ND		9.5	2.0	ug/L		05/03/21 07:11	05/04/21 06:34	1
3-Nitroaniline	ND		9.5	2.2	ug/L		05/03/21 07:11	05/04/21 06:34	1
4,6-Dinitro-2-methylphenol	ND		19	4.7	ug/L		05/03/21 07:11	05/04/21 06:34	1
4-Bromophenyl phenyl ether	ND		4.8	0.87	ug/L		05/03/21 07:11	05/04/21 06:34	1
4-Chloro-3-methylphenol	ND		9.5	2.1	ug/L		05/03/21 07:11	05/04/21 06:34	1
4-Chloroaniline	ND		9.5	2.0	ug/L		05/03/21 07:11	05/04/21 06:34	1
4-Chlorophenyl phenyl ether	ND		4.8	0.77	ug/L		05/03/21 07:11	05/04/21 06:34	1
4-Nitroaniline	ND		9.5	3.7	ug/L		05/03/21 07:11	05/04/21 06:34	1
4-Nitrophenol	ND		19	2.2	ug/L		05/03/21 07:11	05/04/21 06:34	1
Acenaphthene	ND		0.95	0.34	ug/L		05/03/21 07:11	05/04/21 06:34	1
Acenaphthylene	ND		0.95	0.31	ug/L		05/03/21 07:11	05/04/21 06:34	1
Anthracene	ND		0.95	0.31	ug/L		05/03/21 07:11	05/04/21 06:34	1
Benzo[a]pyrene	ND		0.19	0.053	ug/L		05/03/21 07:11	05/04/21 06:34	1
Benzo[b]fluoranthene	ND		0.19	0.055	ug/L		05/03/21 07:11	05/04/21 06:34	1
Benzo[g,h,i]perylene	ND		0.95	0.40	ug/L		05/03/21 07:11	05/04/21 06:34	1
Benzo[k]fluoranthene	ND		0.19	0.071	ug/L		05/03/21 07:11	05/04/21 06:34	1
Benzoic acid	ND		19	4.3	ug/L		05/03/21 07:11	05/04/21 06:34	1
Benzyl alcohol	ND		19	2.9	ug/L		05/03/21 07:11	05/04/21 06:34	1
Bis(2-chloroethoxy)methane	ND		1.9	0.29	ug/L		05/03/21 07:11	05/04/21 06:34	1
Bis(2-chloroethyl)ether	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 06:34	1
Bis(2-ethylhexyl) phthalate	ND		9.5	2.3	ug/L		05/03/21 07:11	05/04/21 06:34	1
Butyl benzyl phthalate	ND		1.9	0.26	ug/L		05/03/21 07:11	05/04/21 06:34	1
Chrysene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 06:34	1
Dibenz(a,h)anthracene	ND		0.29	0.061	ug/L		05/03/21 07:11	05/04/21 06:34	1
Dibenzofuran	ND		1.9	0.33	ug/L		05/03/21 07:11	05/04/21 06:34	1
Diethyl phthalate	ND		1.9	0.42	ug/L		05/03/21 07:11	05/04/21 06:34	1
Dimethyl phthalate	ND		1.9	0.36	ug/L		05/03/21 07:11	05/04/21 06:34	1
Di-n-butyl phthalate	ND		4.8	0.76	ug/L		05/03/21 07:11	05/04/21 06:34	1
Di-n-octyl phthalate	ND		9.5	2.4	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,3,5,6-Tetrachlorophenol	ND		4.8	2.4	ug/L		05/03/21 07:11	05/04/21 06:34	1
Fluoranthene	ND		0.95	0.31	ug/L		05/03/21 07:11	05/04/21 06:34	1
Fluorene	ND		0.95	0.36	ug/L		05/03/21 07:11	05/04/21 06:34	1
Hexachlorobenzene	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 06:34	1
Hexachlorobutadiene	ND		4.8	1.1	ug/L		05/03/21 07:11	05/04/21 06:34	1
Hexachlorocyclopentadiene	ND		19	3.3	ug/L		05/03/21 07:11	05/04/21 06:34	1
Hexachloroethane	ND		4.8	0.93	ug/L		05/03/21 07:11	05/04/21 06:34	1
Indeno[1,2,3-cd]pyrene	ND		0.19	0.080	ug/L		05/03/21 07:11	05/04/21 06:34	1
Isophorone	ND		1.9	0.28	ug/L		05/03/21 07:11	05/04/21 06:34	1
Nitrobenzene	ND		0.95	0.43	ug/L		05/03/21 07:11	05/04/21 06:34	1
N-Nitrosodi-n-propylamine	ND		0.48	0.13	ug/L		05/03/21 07:11	05/04/21 06:34	1
N-Nitrosodiphenylamine	ND		1.9	0.32	ug/L		05/03/21 07:11	05/04/21 06:34	1
Phenol	ND		4.8	0.34	ug/L		05/03/21 07:11	05/04/21 06:34	1
Pyrene	ND		0.95	0.46	ug/L		05/03/21 07:11	05/04/21 06:34	1
2,4-Dimethylphenol	ND		9.5	3.2	ug/L		05/03/21 07:11	05/04/21 06:34	1

Client Sample ID: SUPE-W-12CR-042921
Lab Sample ID: 500-198446-14

Date Collected: 04/29/21 08:21
Matrix: Water
Date Received: 04/30/21 08:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.048**	**J**	0.19	0.042	ug/L		05/03/21 07:11	05/04/21 06:34	1
Phenanthrene	ND		0.95	0.33	ug/L		05/03/21 07:11	05/04/21 06:34	1
3,3'-Dichlorobenzidine	ND		4.8	0.90	ug/L		05/03/21 07:11	05/04/21 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*104*		*40 - 145*	*05/03/21 07:11*	*05/04/21 06:34*	*1*
2-Fluorobiphenyl	*96*		*34 - 110*	*05/03/21 07:11*	*05/04/21 06:34*	*1*
2-Fluorophenol (Surr)	*44*		*27 - 110*	*05/03/21 07:11*	*05/04/21 06:34*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*05/03/21 07:11*	*05/04/21 06:34*	*1*
Phenol-d5 (Surr)	*24*		*20 - 100*	*05/03/21 07:11*	*05/04/21 06:34*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*05/03/21 07:11*	*05/04/21 06:34*	*1*

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	0.21	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total TCDD	ND		10	0.21	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,7,8-PeCDD	ND		52	0.084	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total PeCDD	**0.27**	**J**	52	0.084	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,4,7,8-HxCDD	**0.95**	**J**	52	0.090	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,6,7,8-HxCDD	**0.36**	**J I**	52	0.082	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,7,8,9-HxCDD	**0.30**	**J**	52	0.081	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total HxCDD	**3.4**	**J I**	52	0.085	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,4,6,7,8-HpCDD	**4.8**	**J**	52	0.13	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total HpCDD	**17**	**J**	52	0.13	pg/L		05/03/21 13:46	05/12/21 17:52	1
OCDD	**59**	**J B**	100	0.045	pg/L		05/03/21 13:46	05/12/21 17:52	1
2,3,7,8-TCDF	**0.083**	**J I**	10	0.071	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total TCDF	**0.35**	**J I**	10	0.071	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,7,8-PeCDF	ND		52	0.096	pg/L		05/03/21 13:46	05/12/21 17:52	1
2,3,4,7,8-PeCDF	ND		52	0.088	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total PeCDF	**0.78**	**J I**	52	0.092	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,4,7,8-HxCDF	ND		52	0.070	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,6,7,8-HxCDF	ND		52	0.081	pg/L		05/03/21 13:46	05/12/21 17:52	1
2,3,4,6,7,8-HxCDF	ND		52	0.078	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,7,8,9-HxCDF	ND		52	0.091	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total HxCDF	**2.2**	**J I**	52	0.080	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,4,6,7,8-HpCDF	**0.97**	**J**	52	0.089	pg/L		05/03/21 13:46	05/12/21 17:52	1
1,2,3,4,7,8,9-HpCDF	ND		52	0.12	pg/L		05/03/21 13:46	05/12/21 17:52	1
Total HpCDF	**3.0**	**J I**	52	0.11	pg/L		05/03/21 13:46	05/12/21 17:52	1
OCDF	**3.9**	**J B**	100	0.036	pg/L		05/03/21 13:46	05/12/21 17:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*83*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-1,2,3,7,8-PeCDD	*87*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-1,2,3,4,7,8-HxCDD	*86*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-1,2,3,6,7,8-HxCDD	*88*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*99*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-OCDD	*101*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-2,3,7,8-TCDF	*87*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-1,2,3,7,8-PeCDF	*90*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-2,3,4,7,8-PeCDF	*86*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*
13C-1,2,3,4,7,8-HxCDF	*94*		*40 - 135*	*05/03/21 13:46*	*05/12/21 17:52*	*1*

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-12CR-042921
Lab Sample ID: 500-198446-14
Date Collected: 04/29/21 08:21
Matrix: Water
Date Received: 04/30/21 08:45

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	82		40 - 135	05/03/21 13:46	05/12/21 17:52	1
13C-2,3,4,6,7,8-HxCDF	86		40 - 135	05/03/21 13:46	05/12/21 17:52	1
13C-1,2,3,7,8,9-HxCDF	92		40 - 135	05/03/21 13:46	05/12/21 17:52	1
13C-1,2,3,4,6,7,8-HpCDF	90		40 - 135	05/03/21 13:46	05/12/21 17:52	1
13C-1,2,3,4,7,8,9-HpCDF	89		40 - 135	05/03/21 13:46	05/12/21 17:52	1
13C-OCDF	66		40 - 135	05/03/21 13:46	05/12/21 17:52	1

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-TB-02-042921
Lab Sample ID: 500-198446-15
Date Collected: 04/29/21 10:00
Matrix: Water
Date Received: 04/30/21 08:45

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			05/04/21 05:40	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 05:40	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 05:40	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 05:40	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 05:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 05:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 05:40	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 05:40	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 05:40	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 05:40	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 05:40	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 05:40	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 05:40	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 05:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*77 - 120*		*05/04/21 05:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*05/04/21 05:40*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*05/04/21 05:40*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*05/04/21 05:40*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.

GC/MS Semi 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.
S1-	Surrogate recovery exceeds control limits, low biased.

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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

GC/MS VOA

Analysis Batch: 579092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	8260C	
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	8260C	
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	8260C	
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	8260C	
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	8260C	
500-198446-8	SUPE-TB-01-042821	Total/NA	Water	8260C	
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	8260C	
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	8260C	
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	8260C	
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	8260C	
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	8260C	
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	8260C	
500-198446-15	SUPE-W-TB-02-042921	Total/NA	Water	8260C	
MB 480-579092/8	Method Blank	Total/NA	Water	8260C	
LCS 480-579092/6	Lab Control Sample	Total/NA	Water	8260C	
500-198446-10 MS	SUPE-W-06C-042821	Total/NA	Water	8260C	
500-198446-10 MSD	SUPE-W-06C-042821	Total/NA	Water	8260C	

Analysis Batch: 579132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	8260C	
MB 480-579132/7	Method Blank	Total/NA	Water	8260C	
LCS 480-579132/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 579278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	3510C	
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	3510C	
500-198446-3	SUPE-W-18D-042821	Total/NA	Water	3510C	
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	3510C	
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	3510C	
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	3510C	
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	3510C	
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	3510C	
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	3510C	
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	3510C	
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	3510C	
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	3510C	
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	3510C	
MB 480-579278/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-579278/2-A	Lab Control Sample	Total/NA	Water	3510C	
500-198446-10 MS	SUPE-W-06C-042821	Total/NA	Water	3510C	
500-198446-10 MSD	SUPE-W-06C-042821	Total/NA	Water	3510C	

Analysis Batch: 579609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	8270D LL	579278
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	8270D LL	579278
500-198446-3	SUPE-W-18D-042821	Total/NA	Water	8270D LL	579278

GC/MS Semi VOA (Continued)

Analysis Batch: 579609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	8270D LL	579278
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	8270D LL	579278
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	8270D LL	579278
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	8270D LL	579278
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	8270D LL	579278
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	8270D LL	579278
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	8270D LL	579278
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	8270D LL	579278
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	8270D LL	579278
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	8270D LL	579278
MB 480-579278/1-A	Method Blank	Total/NA	Water	8270D LL	579278
LCS 480-579278/2-A	Lab Control Sample	Total/NA	Water	8270D LL	579278
500-198446-10 MS	SUPE-W-06C-042821	Total/NA	Water	8270D LL	579278
500-198446-10 MSD	SUPE-W-06C-042821	Total/NA	Water	8270D LL	579278

Prep Batch: 596308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	3510C	
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	3510C	
500-198446-3	SUPE-W-18D-042821	Total/NA	Water	3510C	
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	3510C	
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	3510C	
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	3510C	
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	3510C	
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	3510C	
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	3510C	
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	3510C	
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	3510C	
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	3510C	
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	3510C	
MB 500-596308/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-596308/2-A	Lab Control Sample	Total/NA	Water	3510C	
500-198446-10 MS	SUPE-W-06C-042821	Total/NA	Water	3510C	
500-198446-10 MSD	SUPE-W-06C-042821	Total/NA	Water	3510C	

Analysis Batch: 596549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	8270D	596308
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	8270D	596308
500-198446-3	SUPE-W-18D-042821	Total/NA	Water	8270D	596308
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	8270D	596308
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	8270D	596308
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	8270D	596308
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	8270D	596308
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	8270D	596308
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	8270D	596308
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	8270D	596308
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	8270D	596308
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	8270D	596308
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	8270D	596308
MB 500-596308/1-A	Method Blank	Total/NA	Water	8270D	596308

GC/MS Semi VOA (Continued)

Analysis Batch: 596549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-596308/2-A	Lab Control Sample	Total/NA	Water	8270D	596308
500-198446-10 MS	SUPE-W-06C-042821	Total/NA	Water	8270D	596308
500-198446-10 MSD	SUPE-W-06C-042821	Total/NA	Water	8270D	596308

Specialty Organics

Prep Batch: 49428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	8290	
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	8290	
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	8290	
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	8290	
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	8290	
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	8290	
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	8290	
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	8290	
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	8290	
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	8290	
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	8290	
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	8290	
MB 140-49428/14-A	Method Blank	Total/NA	Water	8290	
LCS 140-49428/13-A	Lab Control Sample	Total/NA	Water	8290	

Analysis Batch: 49735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-1	SUPE-W-28C-042821	Total/NA	Water	8290A	49428
500-198446-2	SUPE-EB-01-042821	Total/NA	Water	8290A	49428
500-198446-4	SUPE-W-04AR2-042821	Total/NA	Water	8290A	49428
500-198446-6	SUPE-W-10AR2-042821	Total/NA	Water	8290A	49428
MB 140-49428/14-A	Method Blank	Total/NA	Water	8290A	49428
LCS 140-49428/13-A	Lab Control Sample	Total/NA	Water	8290A	49428

Analysis Batch: 49745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198446-5	SUPE-W-30A-042821	Total/NA	Water	8290A	49428
500-198446-7	SUPE-M-99A-042821	Total/NA	Water	8290A	49428
500-198446-9	SUPE-W-06A-042821	Total/NA	Water	8290A	49428
500-198446-10	SUPE-W-06C-042821	Total/NA	Water	8290A	49428
500-198446-11	SUPE-W-12A-042921	Total/NA	Water	8290A	49428
500-198446-12	SUPE-EB-02-042921	Total/NA	Water	8290A	49428
500-198446-13	SUPE-W-30C-042921	Total/NA	Water	8290A	49428
500-198446-14	SUPE-W-12CR-042921	Total/NA	Water	8290A	49428

Surrogate Summary

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
500-198446-1	SUPE-W-28C-042821	114	112	102	108
500-198446-2	SUPE-EB-01-042821	113	108	108	106
500-198446-4	SUPE-W-04AR2-042821	109	95	105	102
500-198446-5	SUPE-W-30A-042821	114	100	104	100
500-198446-6	SUPE-W-10AR2-042821	116	104	108	104
500-198446-7	SUPE-M-99A-042821	113	100	103	99
500-198446-8	SUPE-TB-01-042821	112	99	109	99
500-198446-9	SUPE-W-06A-042821	118	104	109	104
500-198446-10	SUPE-W-06C-042821	118	108	110	95
500-198446-10 MS	SUPE-W-06C-042821	108	105	104	102
500-198446-10 MSD	SUPE-W-06C-042821	117	108	112	106
500-198446-11	SUPE-W-12A-042921	108	105	107	104
500-198446-12	SUPE-EB-02-042921	113	103	112	103
500-198446-13	SUPE-W-30C-042921	108	98	105	102
500-198446-14	SUPE-W-12CR-042921	106	100	101	102
500-198446-15	SUPE-W-TB-02-042921	117	104	108	105
LCS 480-579092/6	Lab Control Sample	109	99	97	100
LCS 480-579132/5	Lab Control Sample	108	97	101	98
MB 480-579092/8	Method Blank	113	98	106	101
MB 480-579132/7	Method Blank	107	102	101	97

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)
500-198446-1	SUPE-W-28C-042821	90	85	40	69	21	88
500-198446-2	SUPE-EB-01-042821	95	93	47	76	20	97
500-198446-3	SUPE-W-18D-042821	105	94	43	76	22	91
500-198446-4	SUPE-W-04AR2-042821	103	94	42	77	22	93
500-198446-5	SUPE-W-30A-042821	102	92	45	78	24	83
500-198446-6	SUPE-W-10AR2-042821	98	95	53	80	28	81
500-198446-7	SUPE-M-99A-042821	98	96	46	77	21	93
500-198446-9	SUPE-W-06A-042821	92	86	37	70	23	96
500-198446-10	SUPE-W-06C-042821	94	88	42	70	23	93
500-198446-10 MS	SUPE-W-06C-042821	103	88	55	91	39	94
500-198446-10 MSD	SUPE-W-06C-042821	101	86	54	88	37	93
500-198446-11	SUPE-W-12A-042921	104	98	43	79	24	92
500-198446-12	SUPE-EB-02-042921	95	93	47	74	19 S1-	94
500-198446-13	SUPE-W-30C-042921	78	73	40	60	19 S1-	73
500-198446-14	SUPE-W-12CR-042921	104	96	44	78	24	94
LCS 500-596308/2-A	Lab Control Sample	87	71	55	78	36	90
MB 500-596308/1-A	Method Blank	84	84	50	74	29	94

Surrogate Summary

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Surrogate Legend

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

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(24-146)	(37-120)	(10-120)	(26-120)	(11-120)	(64-127)		
500-198446-1	SUPE-W-28C-042821	95	98	50	84	34	105		
500-198446-2	SUPE-EB-01-042821	88	103	52	90	35	114		
500-198446-3	SUPE-W-18D-042821	97	96	47	83	32	72		
500-198446-4	SUPE-W-04AR2-042821	101	98	48	82	33	94		
500-198446-5	SUPE-W-30A-042821	85	93	55	81	35	60 S1-		
500-198446-6	SUPE-W-10AR2-042821	94	90	45	75	31	74		
500-198446-7	SUPE-M-99A-042821	87	95	49	81	32	103		
500-198446-9	SUPE-W-06A-042821	83	91	49	77	33	101		
500-198446-10	SUPE-W-06C-042821	91	94	51	82	34	83		
500-198446-10 MS	SUPE-W-06C-042821	99	94	51	92	36	90		
500-198446-10 MSD	SUPE-W-06C-042821	93	90	46	77	32	81		
500-198446-11	SUPE-W-12A-042921	90	84	43	72	30	69		
500-198446-12	SUPE-EB-02-042921	83	93	48	82	32	110		
500-198446-13	SUPE-W-30C-042921	93	85	45	76	31	102		
500-198446-14	SUPE-W-12CR-042921	95	92	48	80	33	100		
LCS 480-579278/2-A	Lab Control Sample	90	87	48	84	33	102		
MB 480-579278/1-A	Method Blank	82	89	50	79	33	105		

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

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

Lab Sample ID: MB 480-579092/8
Matrix: Water
Analysis Batch: 579092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/03/21 23:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/03/21 23:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/03/21 23:29	1
Benzene	ND		1.0	0.41	ug/L			05/03/21 23:29	1
Chloromethane	ND		1.0	0.35	ug/L			05/03/21 23:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/03/21 23:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/03/21 23:29	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/03/21 23:29	1
Naphthalene	ND		1.0	0.43	ug/L			05/03/21 23:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/03/21 23:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/03/21 23:29	1
o-Xylene	ND		1.0	0.76	ug/L			05/03/21 23:29	1
Styrene	ND		1.0	0.73	ug/L			05/03/21 23:29	1
Toluene	ND		1.0	0.51	ug/L			05/03/21 23:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/03/21 23:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*05/03/21 23:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*05/03/21 23:29*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*05/03/21 23:29*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/03/21 23:29*	*1*

Lab Sample ID: LCS 480-579092/6
Matrix: Water
Analysis Batch: 579092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	73 - 126
1,2,4-Trimethylbenzene	25.0	27.1		ug/L		108	76 - 121
1,3,5-Trimethylbenzene	25.0	27.7		ug/L		111	77 - 121
Benzene	25.0	23.0		ug/L		92	71 - 124
Chloromethane	25.0	21.4		ug/L		86	68 - 124
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
Methyl tert-butyl ether	25.0	27.5		ug/L		110	77 - 120
m-Xylene & p-Xylene	25.0	24.6		ug/L		98	76 - 122
Naphthalene	25.0	27.8		ug/L		111	66 - 125
n-Butylbenzene	25.0	24.4		ug/L		97	71 - 128
N-Propylbenzene	25.0	24.8		ug/L		99	75 - 127
o-Xylene	25.0	25.4		ug/L		101	76 - 122
Styrene	25.0	26.0		ug/L		104	80 - 120
Toluene	25.0	24.4		ug/L		97	80 - 122
Xylenes, Total	50.0	50.0		ug/L		100	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: 500-198446-10 MS
Matrix: Water
Analysis Batch: 579092

Client Sample ID: SUPE-W-06C-042821
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	27.0		ug/L		108	73 - 126
1,2,4-Trimethylbenzene	ND		25.0	27.3		ug/L		109	76 - 121
1,3,5-Trimethylbenzene	ND	F1	25.0	27.6		ug/L		111	77 - 121
Benzene	ND		25.0	24.8		ug/L		99	71 - 124
Chloromethane	ND		25.0	24.6		ug/L		98	68 - 124
Ethylbenzene	ND		25.0	25.6		ug/L		102	77 - 123
Methyl tert-butyl ether	ND		25.0	27.9		ug/L		112	77 - 120
m-Xylene & p-Xylene	ND		25.0	25.4		ug/L		102	76 - 122
Naphthalene	ND		25.0	28.9		ug/L		116	66 - 125
n-Butylbenzene	ND		25.0	26.7		ug/L		107	71 - 128
N-Propylbenzene	ND		25.0	25.4		ug/L		102	75 - 127
o-Xylene	ND		25.0	25.1		ug/L		100	76 - 122
Styrene	ND		25.0	24.7		ug/L		99	80 - 120
Toluene	ND	F2	25.0	24.7		ug/L		99	80 - 122
Xylenes, Total	ND		50.0	50.5		ug/L		101	76 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 500-198446-10 MSD
Matrix: Water
Analysis Batch: 579092

Client Sample ID: SUPE-W-06C-042821
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.9		ug/L		115	73 - 126	7	15
1,2,4-Trimethylbenzene	ND		25.0	30.4		ug/L		121	76 - 121	11	20
1,3,5-Trimethylbenzene	ND	F1	25.0	32.2	F1	ug/L		129	77 - 121	15	20
Benzene	ND		25.0	27.0		ug/L		108	71 - 124	9	13
Chloromethane	ND		25.0	23.6		ug/L		95	68 - 124	4	15
Ethylbenzene	ND		25.0	29.8		ug/L		119	77 - 123	15	15
Methyl tert-butyl ether	ND		25.0	28.0		ug/L		112	77 - 120	0	37
m-Xylene & p-Xylene	ND		25.0	29.5		ug/L		118	76 - 122	15	16
Naphthalene	ND		25.0	31.3		ug/L		125	66 - 125	8	20
n-Butylbenzene	ND		25.0	29.0		ug/L		116	71 - 128	8	15
N-Propylbenzene	ND		25.0	28.5		ug/L		114	75 - 127	12	15
o-Xylene	ND		25.0	28.9		ug/L		116	76 - 122	14	16
Styrene	ND		25.0	29.1		ug/L		116	80 - 120	16	20
Toluene	ND	F2	25.0	29.4	F2	ug/L		118	80 - 122	17	15
Xylenes, Total	ND		50.0	58.4		ug/L		117	76 - 122	15	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*112*		*75 - 123*
Toluene-d8 (Surr)	*106*		*80 - 120*

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

Lab Sample ID: MB 480-579132/7
Matrix: Water
Analysis Batch: 579132

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/04/21 10:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/04/21 10:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/04/21 10:33	1
Benzene	ND		1.0	0.41	ug/L			05/04/21 10:33	1
Chloromethane	ND		1.0	0.35	ug/L			05/04/21 10:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/04/21 10:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/04/21 10:33	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			05/04/21 10:33	1
Naphthalene	ND		1.0	0.43	ug/L			05/04/21 10:33	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/04/21 10:33	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/04/21 10:33	1
o-Xylene	ND		1.0	0.76	ug/L			05/04/21 10:33	1
Styrene	ND		1.0	0.73	ug/L			05/04/21 10:33	1
Toluene	ND		1.0	0.51	ug/L			05/04/21 10:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/04/21 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*05/04/21 10:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*05/04/21 10:33*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*05/04/21 10:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/04/21 10:33*	*1*

Lab Sample ID: LCS 480-579132/5
Matrix: Water
Analysis Batch: 579132

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	29.2		ug/L		117	73 - 126
1,2,4-Trimethylbenzene	25.0	27.9		ug/L		111	76 - 121
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	77 - 121
Benzene	25.0	24.7		ug/L		99	71 - 124
Chloromethane	25.0	23.2		ug/L		93	68 - 124
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Methyl tert-butyl ether	25.0	28.4		ug/L		113	77 - 120
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	76 - 122
Naphthalene	25.0	28.3		ug/L		113	66 - 125
n-Butylbenzene	25.0	25.2		ug/L		101	71 - 128
N-Propylbenzene	25.0	25.3		ug/L		101	75 - 127
o-Xylene	25.0	25.0		ug/L		100	76 - 122
Styrene	25.0	24.8		ug/L		99	80 - 120
Toluene	25.0	23.9		ug/L		96	80 - 122
Xylenes, Total	50.0	49.2		ug/L		98	76 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: MB 500-596308/1-A
Matrix: Water
Analysis Batch: 596549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 00:09	1
1,2-Dichlorobenzene	ND		2.0	0.29	ug/L		05/03/21 07:11	05/04/21 00:09	1
1,3-Dichlorobenzene	ND		2.0	0.25	ug/L		05/03/21 07:11	05/04/21 00:09	1
1,4-Dichlorobenzene	ND		2.0	0.27	ug/L		05/03/21 07:11	05/04/21 00:09	1
1-Methylnaphthalene	ND		2.0	0.50	ug/L		05/03/21 07:11	05/04/21 00:09	1
bis(chloroisopropyl) ether	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,3,4,6-Tetrachlorophenol	ND		5.0	1.5	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,4,5-Trichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,4,6-Trichlorophenol	ND		5.0	1.1	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,4-Dichlorophenol	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,4-Dinitrophenol	ND		20	7.4	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,4-Dinitrotoluene	ND		1.0	0.30	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,6-Dinitrotoluene	ND		1.0	0.12	ug/L		05/03/21 07:11	05/04/21 00:09	1
3 & 4 Methylphenol	ND		2.0	0.44	ug/L		05/03/21 07:11	05/04/21 00:09	1
2-Chloronaphthalene	ND		2.0	0.34	ug/L		05/03/21 07:11	05/04/21 00:09	1
2-Chlorophenol	ND		5.0	0.80	ug/L		05/03/21 07:11	05/04/21 00:09	1
2-Methylnaphthalene	ND		2.0	0.13	ug/L		05/03/21 07:11	05/04/21 00:09	1
2-Methylphenol	ND		2.0	0.31	ug/L		05/03/21 07:11	05/04/21 00:09	1
2-Nitroaniline	ND		5.0	1.1	ug/L		05/03/21 07:11	05/04/21 00:09	1
2-Nitrophenol	ND		10	2.1	ug/L		05/03/21 07:11	05/04/21 00:09	1
3-Nitroaniline	ND		10	2.3	ug/L		05/03/21 07:11	05/04/21 00:09	1
4,6-Dinitro-2-methylphenol	ND		20	4.9	ug/L		05/03/21 07:11	05/04/21 00:09	1
4-Bromophenyl phenyl ether	ND		5.0	0.91	ug/L		05/03/21 07:11	05/04/21 00:09	1
4-Chloro-3-methylphenol	ND		10	2.2	ug/L		05/03/21 07:11	05/04/21 00:09	1
4-Chloroaniline	ND		10	2.1	ug/L		05/03/21 07:11	05/04/21 00:09	1
4-Chlorophenyl phenyl ether	ND		5.0	0.81	ug/L		05/03/21 07:11	05/04/21 00:09	1
4-Nitroaniline	ND		10	3.9	ug/L		05/03/21 07:11	05/04/21 00:09	1
4-Nitrophenol	ND		20	2.3	ug/L		05/03/21 07:11	05/04/21 00:09	1
Acenaphthene	ND		1.0	0.36	ug/L		05/03/21 07:11	05/04/21 00:09	1
Acenaphthylene	ND		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 00:09	1
Anthracene	ND		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzo[a]pyrene	ND		0.20	0.056	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzo[b]fluoranthene	ND		0.20	0.058	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzo[g,h,i]perylene	ND		1.0	0.42	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzo[k]fluoranthene	ND		0.20	0.074	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzoic acid	ND		20	4.6	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzyl alcohol	ND		20	3.1	ug/L		05/03/21 07:11	05/04/21 00:09	1
Bis(2-chloroethoxy)methane	ND		2.0	0.30	ug/L		05/03/21 07:11	05/04/21 00:09	1
Bis(2-chloroethyl)ether	ND		2.0	0.35	ug/L		05/03/21 07:11	05/04/21 00:09	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		05/03/21 07:11	05/04/21 00:09	1
Butyl benzyl phthalate	ND		2.0	0.27	ug/L		05/03/21 07:11	05/04/21 00:09	1
Chrysene	ND		0.50	0.14	ug/L		05/03/21 07:11	05/04/21 00:09	1
Dibenz(a,h)anthracene	ND		0.30	0.064	ug/L		05/03/21 07:11	05/04/21 00:09	1
Dibenzofuran	ND		2.0	0.35	ug/L		05/03/21 07:11	05/04/21 00:09	1
Diethyl phthalate	ND		2.0	0.44	ug/L		05/03/21 07:11	05/04/21 00:09	1
Dimethyl phthalate	ND		2.0	0.38	ug/L		05/03/21 07:11	05/04/21 00:09	1
Di-n-butyl phthalate	ND		5.0	0.80	ug/L		05/03/21 07:11	05/04/21 00:09	1
Di-n-octyl phthalate	ND		10	2.5	ug/L		05/03/21 07:11	05/04/21 00:09	1

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

Lab Sample ID: MB 500-596308/1-A
Matrix: Water
Analysis Batch: 596549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 596308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	ND		5.0	2.5	ug/L		05/03/21 07:11	05/04/21 00:09	1
Fluoranthene	ND		1.0	0.32	ug/L		05/03/21 07:11	05/04/21 00:09	1
Fluorene	ND		1.0	0.38	ug/L		05/03/21 07:11	05/04/21 00:09	1
Hexachlorobenzene	ND		0.50	0.14	ug/L		05/03/21 07:11	05/04/21 00:09	1
Hexachlorobutadiene	ND		5.0	1.1	ug/L		05/03/21 07:11	05/04/21 00:09	1
Hexachlorocyclopentadiene	ND		20	3.4	ug/L		05/03/21 07:11	05/04/21 00:09	1
Hexachloroethane	ND		5.0	0.97	ug/L		05/03/21 07:11	05/04/21 00:09	1
Indeno[1,2,3-cd]pyrene	ND		0.20	0.084	ug/L		05/03/21 07:11	05/04/21 00:09	1
Isophorone	ND		2.0	0.29	ug/L		05/03/21 07:11	05/04/21 00:09	1
Naphthalene	ND		1.0	0.30	ug/L		05/03/21 07:11	05/04/21 00:09	1
Nitrobenzene	ND		1.0	0.45	ug/L		05/03/21 07:11	05/04/21 00:09	1
N-Nitrosodi-n-propylamine	ND		0.50	0.14	ug/L		05/03/21 07:11	05/04/21 00:09	1
N-Nitrosodiphenylamine	ND		2.0	0.34	ug/L		05/03/21 07:11	05/04/21 00:09	1
Phenol	ND		5.0	0.36	ug/L		05/03/21 07:11	05/04/21 00:09	1
Pyrene	ND		1.0	0.48	ug/L		05/03/21 07:11	05/04/21 00:09	1
2,4-Dimethylphenol	ND		10	3.3	ug/L		05/03/21 07:11	05/04/21 00:09	1
Benzo[a]anthracene	ND		0.20	0.044	ug/L		05/03/21 07:11	05/04/21 00:09	1
Phenanthrene	ND		1.0	0.35	ug/L		05/03/21 07:11	05/04/21 00:09	1
3,3'-Dichlorobenzidine	ND		5.0	0.94	ug/L		05/03/21 07:11	05/04/21 00:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*40 - 145*	*05/03/21 07:11*	*05/04/21 00:09*	*1*
2-Fluorobiphenyl	*84*		*34 - 110*	*05/03/21 07:11*	*05/04/21 00:09*	*1*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*05/03/21 07:11*	*05/04/21 00:09*	*1*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*05/03/21 07:11*	*05/04/21 00:09*	*1*
Phenol-d5 (Surr)	*29*		*20 - 100*	*05/03/21 07:11*	*05/04/21 00:09*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*05/03/21 07:11*	*05/04/21 00:09*	*1*

Lab Sample ID: LCS 500-596308/2-A
Matrix: Water
Analysis Batch: 596549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	40.0	23.5		ug/L		59	26 - 110
1,2-Dichlorobenzene	40.0	23.1		ug/L		58	26 - 110
1,3-Dichlorobenzene	40.0	21.7		ug/L		54	22 - 110
1,4-Dichlorobenzene	40.0	22.5		ug/L		56	23 - 110
1-Methylnaphthalene	40.0	25.8		ug/L		64	38 - 110
bis(chloroisopropyl) ether	40.0	27.9		ug/L		70	38 - 110
2,3,4,6-Tetrachlorophenol	40.0	33.4		ug/L		84	44 - 118
2,4,5-Trichlorophenol	40.0	33.9		ug/L		85	63 - 120
2,4,6-Trichlorophenol	40.0	33.7		ug/L		84	62 - 110
2,4-Dichlorophenol	40.0	31.8		ug/L		80	62 - 110
2,4-Dinitrophenol	80.0	69.2		ug/L		86	37 - 130
2,4-Dinitrotoluene	40.0	35.3		ug/L		88	63 - 122
2,6-Dinitrotoluene	40.0	34.0		ug/L		85	63 - 119
3 & 4 Methylphenol	40.0	28.1		ug/L		70	53 - 110
2-Chloronaphthalene	40.0	26.9		ug/L		67	39 - 110

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

Lab Sample ID: LCS 500-596308/2-A
Matrix: Water
Analysis Batch: 596549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596308

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorophenol	40.0	31.1		ug/L		78	59 - 110
2-Methylnaphthalene	40.0	25.5		ug/L		64	34 - 110
2-Methylphenol	40.0	30.7		ug/L		77	53 - 110
2-Nitroaniline	40.0	33.9		ug/L		85	59 - 122
2-Nitrophenol	40.0	31.3		ug/L		78	58 - 110
3-Nitroaniline	40.0	21.9		ug/L		55	47 - 123
4,6-Dinitro-2-methylphenol	80.0	77.2		ug/L		96	50 - 117
4-Bromophenyl phenyl ether	40.0	29.2		ug/L		73	58 - 120
4-Chloro-3-methylphenol	40.0	33.0		ug/L		82	64 - 120
4-Chloroaniline	40.0	30.7		ug/L		77	35 - 128
4-Chlorophenyl phenyl ether	40.0	27.5		ug/L		69	47 - 112
4-Nitroaniline	40.0	27.3		ug/L		68	52 - 147
4-Nitrophenol	80.0	29.5		ug/L		37	20 - 110
Acenaphthene	40.0	28.6		ug/L		71	46 - 110
Acenaphthylene	40.0	30.0		ug/L		75	47 - 110
Anthracene	40.0	31.6		ug/L		79	67 - 110
Benzo[a]pyrene	40.0	41.0		ug/L		102	70 - 120
Benzo[b]fluoranthene	40.0	37.0		ug/L		93	69 - 123
Benzo[g,h,i]perylene	40.0	37.3		ug/L		93	70 - 120
Benzo[k]fluoranthene	40.0	36.4		ug/L		91	70 - 120
Benzoic acid	80.0	29.2		ug/L		36	10 - 100
Benzyl alcohol	40.0	31.8		ug/L		79	33 - 127
Bis(2-chloroethoxy)methane	40.0	30.4		ug/L		76	60 - 110
Bis(2-chloroethyl)ether	40.0	30.5		ug/L		76	49 - 110
Bis(2-ethylhexyl) phthalate	40.0	35.3		ug/L		88	69 - 120
Butyl benzyl phthalate	40.0	34.4		ug/L		86	68 - 120
Chrysene	40.0	34.2		ug/L		86	68 - 120
Dibenz(a,h)anthracene	40.0	38.0		ug/L		95	70 - 127
Dibenzofuran	40.0	29.2		ug/L		73	51 - 110
Diethyl phthalate	40.0	32.2		ug/L		81	62 - 120
Dimethyl phthalate	40.0	33.1		ug/L		83	63 - 120
Di-n-butyl phthalate	40.0	32.3		ug/L		81	70 - 120
Di-n-octyl phthalate	40.0	36.2		ug/L		90	70 - 122
Fluoranthene	40.0	35.6		ug/L		89	68 - 120
Fluorene	40.0	28.6		ug/L		71	53 - 120
Hexachlorobenzene	40.0	31.7		ug/L		79	61 - 120
Hexachlorobutadiene	40.0	21.5		ug/L		54	20 - 100
Hexachlorocyclopentadiene	40.0	22.9		ug/L		57	10 - 100
Hexachloroethane	40.0	20.7		ug/L		52	20 - 100
Indeno[1,2,3-cd]pyrene	40.0	39.3		ug/L		98	65 - 133
Isophorone	40.0	30.8		ug/L		77	57 - 110
Naphthalene	40.0	26.2		ug/L		66	36 - 110
Nitrobenzene	40.0	30.0		ug/L		75	53 - 110
N-Nitrosodi-n-propylamine	40.0	28.6		ug/L		72	58 - 110
N-Nitrosodiphenylamine	40.0	34.3		ug/L		86	66 - 110
Phenol	40.0	15.2		ug/L		38	33 - 100
Pyrene	40.0	32.9		ug/L		82	70 - 110
2,4-Dimethylphenol	40.0	31.8		ug/L		80	51 - 110
Benzo[a]anthracene	40.0	34.1		ug/L		85	70 - 120

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

Lab Sample ID: LCS 500-596308/2-A
Matrix: Water
Analysis Batch: 596549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 596308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenanthrene			40.0	30.9		ug/L		77	65 - 120		
3,3'-Dichlorobenzidine			40.0	30.2		ug/L		76	60 - 132		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 145*
2-Fluorobiphenyl	*71*		*34 - 110*
2-Fluorophenol (Surr)	*55*		*27 - 110*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*
Phenol-d5 (Surr)	*36*		*20 - 100*
Terphenyl-d14 (Surr)	*90*		*40 - 145*

Lab Sample ID: 500-198446-10 MS
Matrix: Water
Analysis Batch: 596549

Client Sample ID: SUPE-W-06C-042821
Prep Type: Total/NA
Prep Batch: 596308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trichlorobenzene	ND		41.3	31.0		ug/L		75	26 - 110		
1,2-Dichlorobenzene	ND		41.3	30.0		ug/L		73	26 - 110		
1,3-Dichlorobenzene	ND		41.3	27.9		ug/L		67	22 - 110		
1,4-Dichlorobenzene	ND		41.3	29.1		ug/L		70	23 - 110		
1-Methylnaphthalene	ND		41.3	32.4		ug/L		78	38 - 110		
bis(chloroisopropyl) ether	ND		41.3	32.5		ug/L		79	38 - 110		
2,3,4,6-Tetrachlorophenol	ND		41.3	41.2		ug/L		100	44 - 118		
2,4,5-Trichlorophenol	ND		41.3	41.0		ug/L		99	63 - 120		
2,4,6-Trichlorophenol	ND		41.3	40.7		ug/L		98	62 - 110		
2,4-Dichlorophenol	ND		41.3	38.0		ug/L		92	62 - 110		
2,4-Dinitrophenol	ND		82.7	85.9		ug/L		104	37 - 130		
2,4-Dinitrotoluene	ND		41.3	42.4		ug/L		102	63 - 122		
2,6-Dinitrotoluene	ND		41.3	41.1		ug/L		99	63 - 119		
3 & 4 Methylphenol	ND		41.3	30.9		ug/L		75	53 - 110		
2-Chloronaphthalene	ND		41.3	33.5		ug/L		81	39 - 110		
2-Chlorophenol	ND		41.3	37.1		ug/L		90	59 - 110		
2-Methylnaphthalene	ND		41.3	32.1		ug/L		78	34 - 110		
2-Methylphenol	ND		41.3	34.5		ug/L		84	53 - 110		
2-Nitroaniline	ND		41.3	39.3		ug/L		95	59 - 122		
2-Nitrophenol	ND		41.3	37.2		ug/L		90	58 - 110		
3-Nitroaniline	ND		41.3	22.8		ug/L		55	47 - 123		
4,6-Dinitro-2-methylphenol	ND		82.7	93.2		ug/L		113	50 - 117		
4-Bromophenyl phenyl ether	ND		41.3	38.0		ug/L		92	58 - 120		
4-Chloro-3-methylphenol	ND		41.3	37.4		ug/L		90	64 - 120		
4-Chloroaniline	ND		41.3	38.8		ug/L		94	35 - 128		
4-Chlorophenyl phenyl ether	ND		41.3	35.9		ug/L		87	47 - 112		
4-Nitroaniline	ND		41.3	34.0		ug/L		82	52 - 147		
4-Nitrophenol	ND		82.7	31.3		ug/L		38	20 - 110		
Acenaphthene	ND		41.3	35.4		ug/L		86	46 - 110		
Acenaphthylene	ND		41.3	37.8		ug/L		91	47 - 110		
Anthracene	ND		41.3	38.8		ug/L		94	67 - 110		
Benzo[a]pyrene	ND		41.3	48.8		ug/L		118	70 - 120		

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

Lab Sample ID: 500-198446-10 MS
Client Sample ID: SUPE-W-06C-042821
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 596549
Prep Batch: 596308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	ND		41.3	44.1		ug/L		107	69 - 123
Benzo[g,h,i]perylene	ND		41.3	42.7		ug/L		103	70 - 120
Benzo[k]fluoranthene	ND		41.3	41.3		ug/L		100	70 - 120
Benzoic acid	ND		82.7	35.0		ug/L		42	10 - 100
Benzyl alcohol	ND		41.3	34.3		ug/L		83	33 - 127
Bis(2-chloroethoxy)methane	ND		41.3	36.0		ug/L		87	60 - 110
Bis(2-chloroethyl)ether	ND		41.3	35.9		ug/L		87	49 - 110
Bis(2-ethylhexyl) phthalate	ND		41.3	41.5		ug/L		100	69 - 120
Butyl benzyl phthalate	ND		41.3	41.6		ug/L		101	68 - 120
Chrysene	ND		41.3	40.7		ug/L		98	68 - 120
Dibenz(a,h)anthracene	ND		41.3	44.0		ug/L		106	70 - 127
Dibenzofuran	ND		41.3	36.0		ug/L		87	51 - 110
Diethyl phthalate	ND		41.3	37.1		ug/L		90	62 - 120
Dimethyl phthalate	ND		41.3	39.2		ug/L		95	63 - 120
Di-n-butyl phthalate	ND		41.3	38.0		ug/L		92	70 - 120
Di-n-octyl phthalate	ND		41.3	43.2		ug/L		105	70 - 122
Fluoranthene	ND		41.3	42.6		ug/L		103	68 - 120
Fluorene	ND		41.3	36.1		ug/L		87	53 - 120
Hexachlorobenzene	ND		41.3	40.2		ug/L		97	61 - 120
Hexachlorobutadiene	ND		41.3	26.3		ug/L		64	20 - 100
Hexachlorocyclopentadiene	ND		41.3	27.2		ug/L		66	10 - 100
Hexachloroethane	ND		41.3	25.5		ug/L		62	20 - 100
Indeno[1,2,3-cd]pyrene	ND		41.3	44.8		ug/L		108	65 - 133
Isophorone	ND		41.3	35.7		ug/L		86	57 - 110
Nitrobenzene	ND		41.3	35.8		ug/L		87	53 - 110
N-Nitrosodi-n-propylamine	ND		41.3	33.4		ug/L		81	58 - 110
N-Nitrosodiphenylamine	ND		41.3	43.2		ug/L		105	66 - 110
Phenol	ND		41.3	17.0		ug/L		41	33 - 100
Pyrene	ND		41.3	40.6		ug/L		98	70 - 110
2,4-Dimethylphenol	ND		41.3	36.3		ug/L		88	51 - 110
Benzo[a]anthracene	0.048	J	41.3	41.0		ug/L		99	70 - 120
Phenanthrene	ND		41.3	38.9		ug/L		94	65 - 120
3,3'-Dichlorobenzidine	ND		41.3	31.5		ug/L		76	60 - 132

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*103*		*40 - 145*
2-Fluorobiphenyl	*88*		*34 - 110*
2-Fluorophenol (Surr)	*55*		*27 - 110*
Nitrobenzene-d5 (Surr)	*91*		*36 - 120*
Phenol-d5 (Surr)	*39*		*20 - 100*
Terphenyl-d14 (Surr)	*94*		*40 - 145*

Lab Sample ID: 500-198446-10 MSD
Client Sample ID: SUPE-W-06C-042821
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 596549
Prep Batch: 596308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		41.2	29.8		ug/L		72	26 - 110	4	20

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

Lab Sample ID: 500-198446-10 MSD
Client Sample ID: SUPE-W-06C-042821
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 596549
Prep Batch: 596308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		41.2	28.8		ug/L		70	26 - 110	4	20
1,3-Dichlorobenzene	ND		41.2	26.7		ug/L		65	22 - 110	4	20
1,4-Dichlorobenzene	ND		41.2	27.4		ug/L		67	23 - 110	6	20
1-Methylnaphthalene	ND		41.2	31.2		ug/L		76	38 - 110	4	20
bis(chloroisopropyl) ether	ND		41.2	31.7		ug/L		77	38 - 110	3	20
2,3,4,6-Tetrachlorophenol	ND		41.2	40.6		ug/L		99	44 - 118	1	20
2,4,5-Trichlorophenol	ND		41.2	40.3		ug/L		98	63 - 120	2	20
2,4,6-Trichlorophenol	ND		41.2	39.9		ug/L		97	62 - 110	2	20
2,4-Dichlorophenol	ND		41.2	36.9		ug/L		90	62 - 110	3	20
2,4-Dinitrophenol	ND		82.3	85.3		ug/L		104	37 - 130	1	20
2,4-Dinitrotoluene	ND		41.2	41.5		ug/L		101	63 - 122	2	20
2,6-Dinitrotoluene	ND		41.2	40.6		ug/L		99	63 - 119	1	20
3 & 4 Methylphenol	ND		41.2	29.7		ug/L		72	53 - 110	4	20
2-Chloronaphthalene	ND		41.2	32.2		ug/L		78	39 - 110	4	20
2-Chlorophenol	ND		41.2	35.7		ug/L		87	59 - 110	4	20
2-Methylnaphthalene	ND		41.2	30.9		ug/L		75	34 - 110	4	20
2-Methylphenol	ND		41.2	33.0		ug/L		80	53 - 110	5	20
2-Nitroaniline	ND		41.2	39.2		ug/L		95	59 - 122	0	20
2-Nitrophenol	ND		41.2	36.9		ug/L		90	58 - 110	1	20
3-Nitroaniline	ND		41.2	22.7		ug/L		55	47 - 123	1	20
4,6-Dinitro-2-methylphenol	ND		82.3	93.1		ug/L		113	50 - 117	0	20
4-Bromophenyl phenyl ether	ND		41.2	37.4		ug/L		91	58 - 120	2	20
4-Chloro-3-methylphenol	ND		41.2	37.5		ug/L		91	64 - 120	0	20
4-Chloroaniline	ND		41.2	37.5		ug/L		91	35 - 128	4	20
4-Chlorophenyl phenyl ether	ND		41.2	35.0		ug/L		85	47 - 112	2	20
4-Nitroaniline	ND		41.2	36.6		ug/L		89	52 - 147	7	20
4-Nitrophenol	ND		82.3	31.4		ug/L		38	20 - 110	0	20
Acenaphthene	ND		41.2	34.1		ug/L		83	46 - 110	4	20
Acenaphthylene	ND		41.2	37.2		ug/L		90	47 - 110	2	20
Anthracene	ND		41.2	38.2		ug/L		93	67 - 110	2	20
Benzo[a]pyrene	ND		41.2	47.5		ug/L		115	70 - 120	3	20
Benzo[b]fluoranthene	ND		41.2	44.3		ug/L		108	69 - 123	0	20
Benzo[g,h,i]perylene	ND		41.2	41.7		ug/L		101	70 - 120	2	20
Benzo[k]fluoranthene	ND		41.2	38.7		ug/L		94	70 - 120	7	20
Benzoic acid	ND		82.3	34.2		ug/L		41	10 - 100	3	20
Benzyl alcohol	ND		41.2	32.6		ug/L		79	33 - 127	5	20
Bis(2-chloroethoxy)methane	ND		41.2	35.0		ug/L		85	60 - 110	3	20
Bis(2-chloroethyl)ether	ND		41.2	34.7		ug/L		84	49 - 110	3	20
Bis(2-ethylhexyl) phthalate	ND		41.2	40.6		ug/L		99	69 - 120	2	20
Butyl benzyl phthalate	ND		41.2	40.5		ug/L		98	68 - 120	3	20
Chrysene	ND		41.2	39.6		ug/L		96	68 - 120	3	20
Dibenz(a,h)anthracene	ND		41.2	42.8		ug/L		104	70 - 127	3	20
Dibenzofuran	ND		41.2	34.9		ug/L		85	51 - 110	3	20
Diethyl phthalate	ND		41.2	36.9		ug/L		90	62 - 120	0	20
Dimethyl phthalate	ND		41.2	38.7		ug/L		94	63 - 120	1	20
Di-n-butyl phthalate	ND		41.2	37.4		ug/L		91	70 - 120	1	20
Di-n-octyl phthalate	ND		41.2	41.9		ug/L		102	70 - 122	3	20
Fluoranthene	ND		41.2	41.8		ug/L		102	68 - 120	2	20
Fluorene	ND		41.2	34.7		ug/L		84	53 - 120	4	20

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

Lab Sample ID: 500-198446-10 MSD
Client Sample ID: SUPE-W-06C-042821
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 596549
Prep Batch: 596308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	ND		41.2	39.1		ug/L		95	61 - 120	3	20
Hexachlorobutadiene	ND		41.2	25.0		ug/L		61	20 - 100	5	20
Hexachlorocyclopentadiene	ND		41.2	26.4		ug/L		64	10 - 100	3	20
Hexachloroethane	ND		41.2	24.4		ug/L		59	20 - 100	4	20
Indeno[1,2,3-cd]pyrene	ND		41.2	43.7		ug/L		106	65 - 133	2	20
Isophorone	ND		41.2	35.2		ug/L		86	57 - 110	1	20
Nitrobenzene	ND		41.2	35.4		ug/L		86	53 - 110	1	20
N-Nitrosodi-n-propylamine	ND		41.2	32.5		ug/L		79	58 - 110	3	20
N-Nitrosodiphenylamine	ND		41.2	43.5		ug/L		106	66 - 110	1	20
Phenol	ND		41.2	16.1		ug/L		39	33 - 100	5	20
Pyrene	ND		41.2	39.2		ug/L		95	70 - 110	4	20
2,4-Dimethylphenol	ND		41.2	35.5		ug/L		86	51 - 110	2	20
Benzo[a]anthracene	0.048	J	41.2	39.4		ug/L		96	70 - 120	4	20
Phenanthrene	ND		41.2	38.1		ug/L		93	65 - 120	2	20
3,3'-Dichlorobenzidine	ND		41.2	33.5		ug/L		81	60 - 132	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*101*		*40 - 145*
2-Fluorobiphenyl	*86*		*34 - 110*
2-Fluorophenol (Surr)	*54*		*27 - 110*
Nitrobenzene-d5 (Surr)	*88*		*36 - 120*
Phenol-d5 (Surr)	*37*		*20 - 100*
Terphenyl-d14 (Surr)	*93*		*40 - 145*

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

Lab Sample ID: MB 480-579278/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 579609
Prep Batch: 579278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.34	ug/L		05/04/21 14:51	05/06/21 13:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*24 - 146*	*05/04/21 14:51*	*05/06/21 13:22*	*1*
2-Fluorobiphenyl	*89*		*37 - 120*	*05/04/21 14:51*	*05/06/21 13:22*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*05/04/21 14:51*	*05/06/21 13:22*	*1*
Nitrobenzene-d5 (Surr)	*79*		*26 - 120*	*05/04/21 14:51*	*05/06/21 13:22*	*1*
Phenol-d5 (Surr)	*33*		*11 - 120*	*05/04/21 14:51*	*05/06/21 13:22*	*1*
p-Terphenyl-d14	*105*		*64 - 127*	*05/04/21 14:51*	*05/06/21 13:22*	*1*

Lab Sample ID: LCS 480-579278/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 579609
Prep Batch: 579278

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pentachlorophenol			16.0	12.0		ug/L		75	10 - 131		

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

Lab Sample ID: LCS 480-579278/2-A
Matrix: Water
Analysis Batch: 579609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 579278

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*24 - 146*
2-Fluorobiphenyl	*87*		*37 - 120*
2-Fluorophenol (Surr)	*48*		*10 - 120*
Nitrobenzene-d5 (Surr)	*84*		*26 - 120*
Phenol-d5 (Surr)	*33*		*11 - 120*
p-Terphenyl-d14	*102*		*64 - 127*

Lab Sample ID: 500-198446-10 MS
Matrix: Water
Analysis Batch: 579609

Client Sample ID: SUPE-W-06C-042821
Prep Type: Total/NA
Prep Batch: 579278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	ND		16.0	14.5		ug/L		91	23 - 149

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*99*		*24 - 146*
2-Fluorobiphenyl	*94*		*37 - 120*
2-Fluorophenol (Surr)	*51*		*10 - 120*
Nitrobenzene-d5 (Surr)	*92*		*26 - 120*
Phenol-d5 (Surr)	*36*		*11 - 120*
p-Terphenyl-d14	*90*		*64 - 127*

Lab Sample ID: 500-198446-10 MSD
Matrix: Water
Analysis Batch: 579609

Client Sample ID: SUPE-W-06C-042821
Prep Type: Total/NA
Prep Batch: 579278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	ND		16.0	12.0		ug/L		75	23 - 149	19	37

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*24 - 146*
2-Fluorobiphenyl	*90*		*37 - 120*
2-Fluorophenol (Surr)	*46*		*10 - 120*
Nitrobenzene-d5 (Surr)	*77*		*26 - 120*
Phenol-d5 (Surr)	*32*		*11 - 120*
p-Terphenyl-d14	*81*		*64 - 127*

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

Lab Sample ID: MB 140-49428/14-A
Matrix: Water
Analysis Batch: 49735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49428

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.20	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total TCDD	ND		10	0.20	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,7,8-PeCDD	ND		50	0.48	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total PeCDD	ND		50	0.48	pg/L		05/03/21 13:46	05/12/21 01:20	1

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

Lab Sample ID: MB 140-49428/14-A
Matrix: Water
Analysis Batch: 49735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49428

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,7,8-HxCDD	ND		50	0.47	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,6,7,8-HxCDD	ND		50	0.45	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,7,8,9-HxCDD	ND		50	0.44	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total HxCDD	ND		50	0.47	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,4,6,7,8-HpCDD	ND		50	0.54	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total HpCDD	ND		50	0.54	pg/L		05/03/21 13:46	05/12/21 01:20	1
OCDD	3.99	J I	100	0.21	pg/L		05/03/21 13:46	05/12/21 01:20	1
2,3,7,8-TCDF	ND		10	0.43	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total TCDF	ND		10	0.43	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,7,8-PeCDF	ND		50	0.48	pg/L		05/03/21 13:46	05/12/21 01:20	1
2,3,4,7,8-PeCDF	ND		50	0.43	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total PeCDF	ND		50	0.48	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,4,7,8-HxCDF	ND		50	0.29	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,6,7,8-HxCDF	ND		50	0.33	pg/L		05/03/21 13:46	05/12/21 01:20	1
2,3,4,6,7,8-HxCDF	ND		50	0.33	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,7,8,9-HxCDF	ND		50	0.40	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total HxCDF	ND		50	0.40	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,4,6,7,8-HpCDF	ND		50	0.26	pg/L		05/03/21 13:46	05/12/21 01:20	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.36	pg/L		05/03/21 13:46	05/12/21 01:20	1
Total HpCDF	ND		50	0.36	pg/L		05/03/21 13:46	05/12/21 01:20	1
OCDF	2.16	J I	100	0.21	pg/L		05/03/21 13:46	05/12/21 01:20	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*75*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,7,8-PeCDD	*71*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,4,7,8-HxCDD	*75*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,6,7,8-HxCDD	*81*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*93*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-OCDD	*93*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-2,3,7,8-TCDF	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,7,8-PeCDF	*75*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-2,3,4,7,8-PeCDF	*72*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,4,7,8-HxCDF	*88*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,6,7,8-HxCDF	*72*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-2,3,4,6,7,8-HxCDF	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,7,8,9-HxCDF	*79*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*85*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*
13C-OCDF	*70*		*40 - 135*	*05/03/21 13:46*	*05/12/21 01:20*	*1*

Lab Sample ID: LCS 140-49428/13-A
Matrix: Water
Analysis Batch: 49735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	195		pg/L		98	77 - 127
1,2,3,7,8-PeCDD	1000	1010		pg/L		101	78 - 128
1,2,3,4,7,8-HxCDD	1000	1050		pg/L		105	73 - 123
1,2,3,6,7,8-HxCDD	1000	959		pg/L		96	72 - 127

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

Lab Sample ID: LCS 140-49428/13-A
Matrix: Water
Analysis Batch: 49735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49428

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,7,8,9-HxCDD			1000	1130		pg/L		113	76 - 126		
1,2,3,4,6,7,8-HpCDD			1000	1030		pg/L		103	73 - 123		
OCDD			2000	1960		pg/L		98	75 - 125		
2,3,7,8-TCDF			200	183		pg/L		92	74 - 124		
1,2,3,7,8-PeCDF			1000	1030		pg/L		103	74 - 124		
2,3,4,7,8-PeCDF			1000	1030		pg/L		103	74 - 124		
1,2,3,4,7,8-HxCDF			1000	909		pg/L		91	75 - 125		
1,2,3,6,7,8-HxCDF			1000	968		pg/L		97	75 - 125		
2,3,4,6,7,8-HxCDF			1000	973		pg/L		97	76 - 126		
1,2,3,7,8,9-HxCDF			1000	977		pg/L		98	76 - 126		
1,2,3,4,6,7,8-HpCDF			1000	934		pg/L		93	71 - 121		
1,2,3,4,7,8,9-HpCDF			1000	964		pg/L		96	73 - 123		
OCDF			2000	2120		pg/L		106	68 - 132		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*74*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*70*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*71*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*72*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*
13C-OCDD	*93*		*40 - 135*
13C-2,3,7,8-TCDF	*78*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*72*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*71*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*79*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*68*		*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*74*		*40 - 135*
13C-1,2,3,7,8,9-HxCDF	*76*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*40 - 135*
13C-1,2,3,4,7,8,9-HpCDF	*82*		*40 - 135*
13C-OCDF	*68*		*40 - 135*

Lab Chronicle

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-28C-042821
Lab Sample ID: 500-198446-1
Date Collected: 04/28/21 09:08
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 00:39	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 02:39	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 15:39	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49735	05/12/21 03:23	LKM	TAL KNX

Client Sample ID: SUPE-EB-01-042821
Lab Sample ID: 500-198446-2
Date Collected: 04/28/21 09:50
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 01:02	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 03:01	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 16:06	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49735	05/12/21 02:24	LKM	TAL KNX

Client Sample ID: SUPE-W-18D-042821
Lab Sample ID: 500-198446-3
Date Collected: 04/28/21 10:51
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 03:22	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 16:34	JMM	TAL BUF

Client Sample ID: SUPE-W-04AR2-042821
Lab Sample ID: 500-198446-4
Date Collected: 04/28/21 12:07
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 01:25	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 03:43	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	579609	05/06/21 17:01	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49735	05/12/21 04:23	LKM	TAL KNX

Lab Chronicle

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-W-30A-042821
Lab Sample ID: 500-198446-5
Date Collected: 04/28/21 14:41
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579132	05/04/21 15:25	LCH	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 04:05	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		10	579609	05/06/21 17:29	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 11:51	KBL	TAL KNX

Client Sample ID: SUPE-W-10AR2-042821
Lab Sample ID: 500-198446-6
Date Collected: 04/28/21 16:53
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 02:12	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 04:26	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		5	579609	05/06/21 17:56	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49735	05/12/21 06:23	LKM	TAL KNX

Client Sample ID: SUPE-M-99A-042821
Lab Sample ID: 500-198446-7
Date Collected: 04/28/21 22:00
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 02:35	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 04:47	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 18:23	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 12:51	KBL	TAL KNX

Client Sample ID: SUPE-TB-01-042821
Lab Sample ID: 500-198446-8
Date Collected: 04/28/21 13:53
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 02:58	WJD	TAL BUF

Client Sample ID: SUPE-W-06A-042821
Lab Sample ID: 500-198446-9

Date Collected: 04/28/21 14:00
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 03:21	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 05:08	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 18:51	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 13:51	KBL	TAL KNX

Client Sample ID: SUPE-W-06C-042821
Lab Sample ID: 500-198446-10

Date Collected: 04/28/21 17:20
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 03:44	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 02:18	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 15:12	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 14:51	KBL	TAL KNX

Client Sample ID: SUPE-W-12A-042921
Lab Sample ID: 500-198446-11

Date Collected: 04/29/21 10:13
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 04:07	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 05:30	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 19:18	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 15:52	KBL	TAL KNX

Client Sample ID: SUPE-EB-02-042921
Lab Sample ID: 500-198446-12

Date Collected: 04/29/21 10:18
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 04:31	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 05:51	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 19:46	JMM	TAL BUF

Lab Chronicle

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Client Sample ID: SUPE-EB-02-042921
Lab Sample ID: 500-198446-12
Date Collected: 04/29/21 10:18
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 10:51	KBL	TAL KNX

Client Sample ID: SUPE-W-30C-042921
Lab Sample ID: 500-198446-13
Date Collected: 04/29/21 12:51
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 04:54	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 06:12	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 20:13	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 16:52	KBL	TAL KNX

Client Sample ID: SUPE-W-12CR-042921
Lab Sample ID: 500-198446-14
Date Collected: 04/29/21 08:21
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 05:17	WJD	TAL BUF
Total/NA	Prep	3510C			596308	05/03/21 07:11	DAK	TAL CHI
Total/NA	Analysis	8270D		1	596549	05/04/21 06:34	SS	TAL CHI
Total/NA	Prep	3510C			579278	05/04/21 14:51	ATG	TAL BUF
Total/NA	Analysis	8270D LL		1	579609	05/06/21 20:40	JMM	TAL BUF
Total/NA	Prep	8290			49428	05/03/21 13:46	SMA	TAL KNX
Total/NA	Analysis	8290A		1	49745	05/12/21 17:52	KBL	TAL KNX

Client Sample ID: SUPE-W-TB-02-042921
Lab Sample ID: 500-198446-15
Date Collected: 04/29/21 10:00
Matrix: Water
Date Received: 04/30/21 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	579092	05/04/21 05:40	WJD	TAL BUF

Laboratory References:

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

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

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

Accreditation/Certification Summary

Client: Field & Technical Services LLC
Job ID: 500-198446-1
Project/Site: Superior, WI Semiannual Groundwater

Laboratory: Eurofins TestAmerica, 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	08-31-21

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

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	09-01-21

Laboratory: Eurofins TestAmerica, 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	08-31-21

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

FTS Field & Technical Services, LLC

Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF.# 502012

500-198446 COC

Project Name	Superior, WI - 2021 OM&M Program	Company	Field & Technical Services	Client	Beazer East, Inc.
Project Number	OM-0556-21	Address	200 Third Avenue	Contact	
Laboratory	TABUF		Carnegie, PA 15106		btrask.2006@f-ts.com
Shipment Method	Courier		(412) 279-3363		
Program	Superior 2021 1SA Sampling_001				

500-198446

	Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260B_VOA+naphtha	8270C_SVOC (less naphtha)	8270C_SVOC+naphtha													
					Preservative	HCL	None	None													
					Total Bottle Count																
1	04/28/2021	0908	GW	SUPE-W-28C-042821	6	3	3	0													
2	04/28/2021	0950	GW	SUPE-EB-01-042821	6	3	3	0													
3	04/28/2021	1051	GW	SUPE-W-18D-042821	3	0	0	3													
4	04/28/2021	1207	GW	SUPE-W-04AR2-042821	6	3	3	0													
5	04/28/2021	1441	GW	SUPE-W-30A-042821	6	3	3	0													
6	04/28/2021	1653	GW	SUPE-W-10AR2-042821	6	3	3	0													
7	04/28/2021	2200	GW	SUPE-M-99A-042821	6	3	3	0													

0.9 → -0.1, -0.3 → -1.3,
0.4 → -0.6, 0.3 → -0.7,
-0.4 → -1.4, 1.2 → 0.2,
-0.3 → -1.3, 0.3 → 0.7

TestAmerica Duluth SC
269

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature:	Signature:	Signature:	Signature:	☐ Rush
Printed Name: Ben Trask	Printed Name: Melissa Gascon	Printed Name:	Printed Name: Sherri Scott	
Firm FTS	Firm Eurofins	Firm	Firm BTA-CHT	☒ Standard
Date/Time: 04/28/2021 1911	Date/Time: 4/29/21 0900	Date/Time:	Date/Time: 4/30/21 0920	

FTS Field & Technical Services, LLC

Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

TestAmerica Duluth SC 269

REF.# 500-198446

Project Name	Superior, WI - 2021 OM&M Program	Company	Field & Technical Services	Client	Beazer East, Inc.
Project Number	OM-0556-21	Address	200 Third Avenue	Contact	
Laboratory	TAKNOX		Carnegie, PA 15106		btrask.2006@f-ts.com
Shipment Method	Courier		(412) 279-3363		
Program	Superior 2021 1SA Sampling_001				

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans															
				Preservative	None															
				Total Bottle Count																
04/28/2021	0908	GW	SUPE-W-28C-042821	2	2															
04/28/2021	0950	GW	SUPE-EB-01-042821	2	2															
04/28/2021	1207	GW	SUPE-W-04AR2-042821	2	2															
04/28/2021	1441	GW	SUPE-W-30A-042821	2	2															
04/28/2021	1653	GW	SUPE-W-10AR2-042821	2	2															
04/28/2021	2200	GW	SUPE-M-99A-042821	2	2															

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature:	Signature:	Signature:	Signature:	
Printed Name: Ben Trask	Printed Name: Melissa Gascon	Printed Name:	Printed Name: Sherri Scott	
Firm FTS	Firm Eurofins	Firm	Firm TSTACHT	☐ Rush
Date/Time: 04/28/2021 1911	Date/Time: 4/29/21 0900	Date/Time:	Date/Time: 4/30/21 0920	☒ Standard

FTS Field & Technical Services, LLC

Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

TestAmerica Duluth SC 269

REF.# 502603

Project Name	Superior, WI - 2021 OM&M Program	Company	Field & Technical Services	Client	Beazer East, Inc
Project Number	OM-0556-21	Address	200 Third Avenue	Contact	
Laboratory	TABUF		Carnegie, PA 15106		hredmond.2006@f-ts
Shipment Method	Courier		(412) 279-3363		
Program	Superior 2021 1SA Sampling_001				

500-198446

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8270C_SVOC (less naphtha)	8260B_VOA+naphtha														
				Preservative	None	HCL														
				Total Bottle Count																
04/28/2021	1353	GW	SUPE-TB-01-042821	3	0	3														
04/28/2021	1400	GW	SUPE-W-06A-042821	6	3	3														
04/28/2021	1720	GW	SUPE-W-06C-042821	6	3	3														
04/28/2021	1720	GW	SUPE-MS/MSD-W-06C-042821	12	6	6														

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Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature:	Signature:	Signature:	Signature:	
Printed Name: Haley Redmond	Printed Name: Melissa Bascar	Printed Name:	Printed Name: Sherri Scott	
Firm FTS	Firm Eurofins	Firm	Firm ETA-CHI	Rush ☐ Standard ☒
Date/Time: 04/28/2021 1911	Date/Time: 4/29/21 0900	Date/Time:	Date/Time: 4/30/21 0920	

FTS Field & Technical Services, LLC

Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

TestAmerica Duluth SC
269

REF.# 502003

Project Name.	Superior, WI - 2021 OM&M Program	Company	Field & Technical Services	Client	Beazer East, Inc
Project Number	OM-0556-21	Address	200 Third Avenue	Contact	
Laboratory	TAKNOX		Carnegie, PA 15106		hredmond 2006@f-ts
Shipment Method	Courier		(412) 279-3363		
Program	Superior 2021 1SA Sampling_001				

500-198446

Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans															
				Preservative	None															
				Total Bottle Count																
04/28/2021	1353	GW	SUPE-TB-01-042821	0	0															
04/28/2021	1400	GW	SUPE-W-06A-042821	2	2															
04/28/2021	1720	GW	SUPE-W-06C-042821	2	2															
04/28/2021	1720	GW	SUPE-MS/MSD-W-06C-042821	0	0															

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Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature:	Signature: Melissa Bascon	Signature:	Signature: Sherri Scott	☐ Rush
Printed Name: Haley Redmond	Printed Name: Melissa Bascon	Printed Name:	Printed Name: Sherri Scott	
Firm FTS	Firm Eurofins	Firm	Firm EA-CHI	☒ Standard
Date/Time: 04/28/2021 1911	Date/Time: 4/29/21 0900	Date/Time:	Date/Time: 4/30/21 0920	

FTS Field & Technical Services, LLC

Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

REF #

Project Name	Superior, WI - 2021 OM&M Program	Company	Field & Technical Services	Client	Beazer East, Inc.
Project Number	OM-0556-21	Address	200 Third Avenue	Contact	
Laboratory	TABUF		Carnegie, PA 15106		hredmond.2008@f-ts
Shipment Method	Courier		(412) 279-3363		
Program	Superior 2021 1SA Sampling_001				

TestAmerica Duluth 269

500-198446

	Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8260B_VOA+naphtha	8270C_SVOC (less naphtha)														
					Preservative	HCL	None														
					Total Bottle Count																
11	04/29/2021	1013	GW	SUPE-W-12A-042921	6	3	3														
12	04/29/2021	1018	GW	SUPE-EB-02-042921	6	3	3														
13	04/29/2021	1251	GW	SUPE-W-30C-042921	6	3	3														
14	04/29/2021	0821	GW	SUPE-W-12CR-042921	0	3	3														
15	04/29/2021	0000	GW	SUPE-W-TB-02-042921	3	3	0														

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature:	Signature:	Signature:	Signature:	☐ Rush
Printed Name: Haley Redmond	Printed Name: Melissa Gascon	Printed Name:	Printed Name: Sherri Scott	
Firm: FTS	Firm: Eurofins	Firm:	Firm: STL CHI	☒ Standard
Date/Time: 04/29/2021 1450	Date/Time: 4/29/21 1550	Date/Time:	Date/Time: 4/30/21 0920	

FTS Field & Technical Services, LLC

Ref 210311

CHAIN OF CUSTODY RECORD/LABORATORY ANALYSIS REQUEST FORM

TestAmerica Duluth SC
269

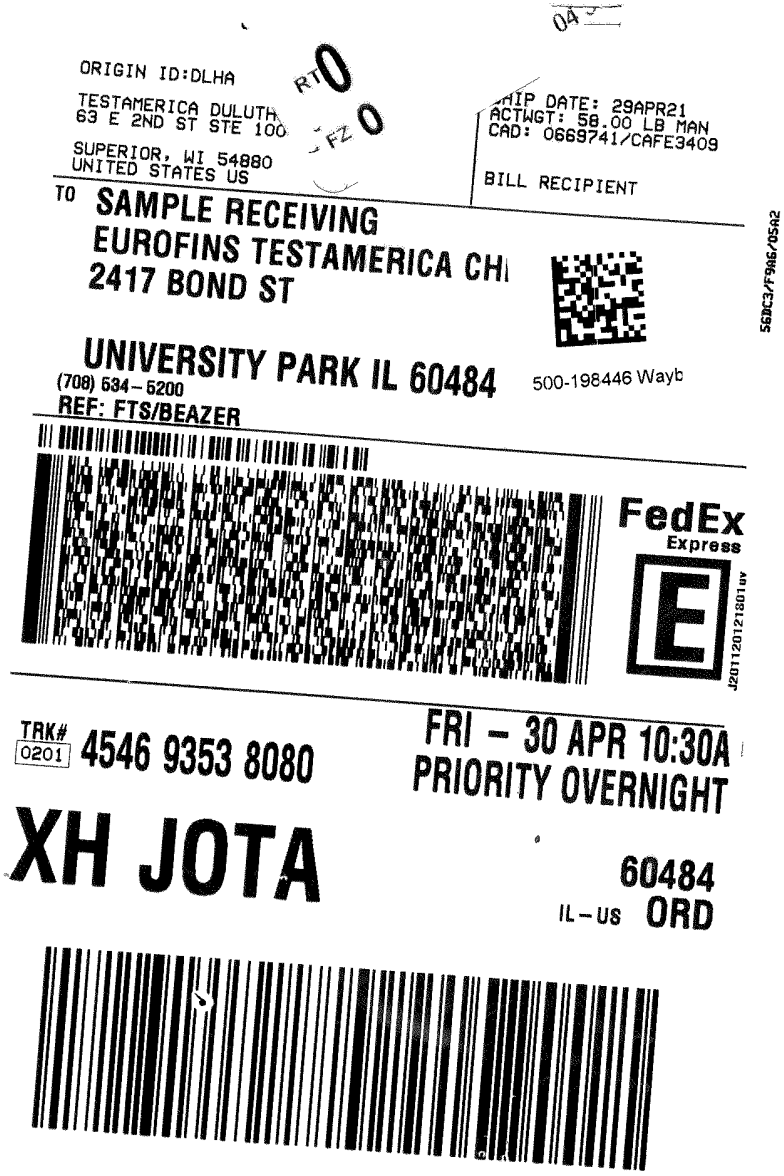
REF.#

Project Name	Superior, WI - 2021 OM&M Program	Company	Field & Technical Services	Client	Beazer East, Inc.
Project Number	OM-0556-21	Address	200 Third Avenue	Contact	
Laboratory.	TAKNOX		Carnegie, PA 15106		hredmond.2006@f-ts
Shipment Method	Courier		(412) 279-3363		
Program	Superior 2021 1SA Sampling_001				

500-198446

	Sample Date	Sample Time	Matrix	Sample Identification	Analysis	8290_Dioxins/Furans														
					Preservative	None														
					Total Bottle Count															
11	04/29/2021	1013	GW	SUPE-W-12A-042921	2	2														
12	04/29/2021	1018	GW	SUPE-EB-02-042921	2	2														
13	04/29/2021	1251	GW	SUPE-W-30C-042921	2	2														
14	04/29/2021 ~~0000~~ 0821		GW	HE 4-29-21 SUPE-W-12CR-042921	2	2														

Relinquished by:	Received by:	Relinquished by:	Received by:	Turnaround Requirements
Signature:	Signature:	Signature:	Signature:	☐ Rush
Printed Name: Haley Redmond	Printed Name: Melissa Gascon	Printed Name:	Printed Name: Sherri Scott	
Firm: FTS	Firm: Eurofins	Firm:	Firm: ETA-CHT	☒ Standard
Date/Time: 04/29/2021 1450	Date/Time: 4/29/21 1550	Date/Time:	Date/Time: 4/30/21 0920	



ORIGIN ID:DLHA
TESTAMERICA DULUTH
63 E 2ND ST STE 100
SUPERIOR, WI 54880
UNITED STATES US

SHIP DATE: 29APR21
ACTWGT: 58.00 LB MAN
CAD: 0669741/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA CHI
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200
REF: FTS/BEAZER

500-198446 Wayb

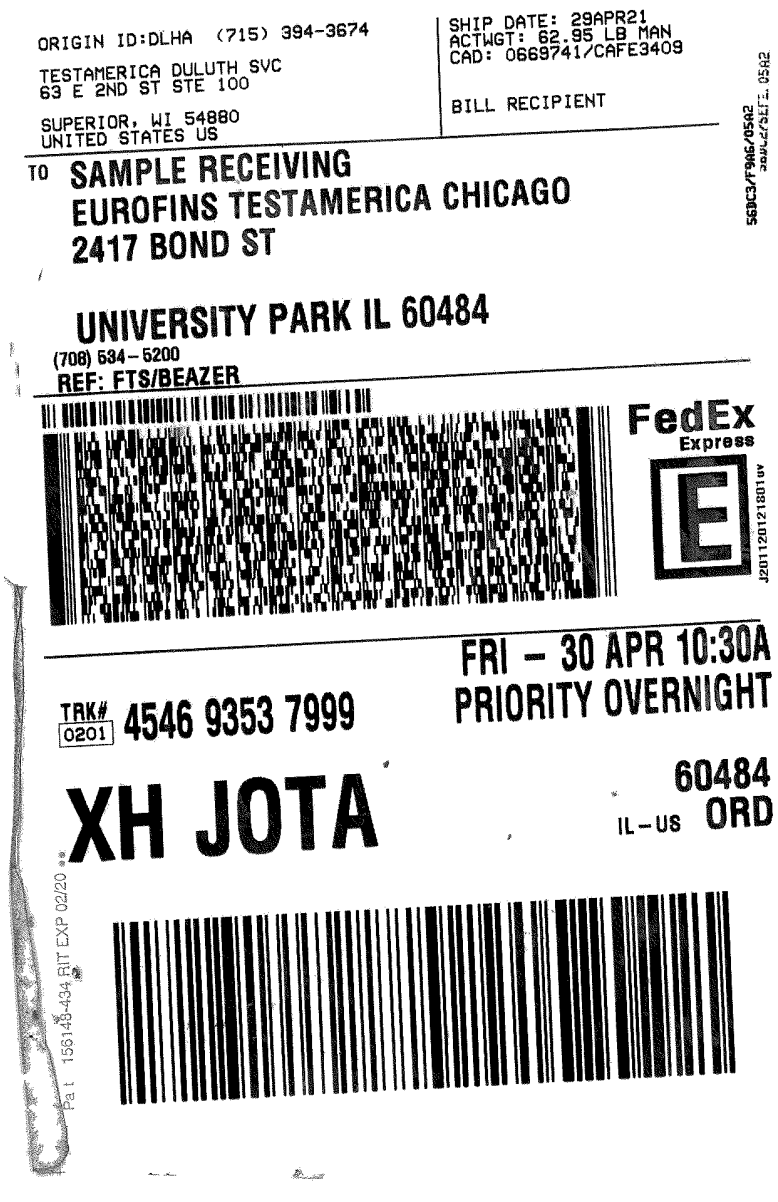
FedEx Express

TRK# 0201 4546 9353 8080

FRI - 30 APR 10:30A
PRIORITY OVERNIGHT

XH JOTA

60484
IL-US ORD



ORIGIN ID:DLHA (715) 394-3674
TESTAMERICA DULUTH SVC
63 E 2ND ST STE 100
SUPERIOR, WI 54880
UNITED STATES US

SHIP DATE: 29APR21
ACTWGT: 62.95 LB MAN
CAD: 0669741/CAFE3409

BILL RECIPIENT

TO SAMPLE RECEIVING
EUROFINS TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200
REF: FTS/BEAZER

FedEx Express

TRK# 0201 4546 9353 7999

FRI - 30 APR 10:30A
PRIORITY OVERNIGHT

XH JOTA

60484
IL-US ORD

Part # 156148-434 RIT EXP 02/20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

500-198446 Chain of Custody

eurofins | Environment Testing America

Client Information (Sub Contract Lab)
Client Contact: Shipping/Receiving
Company: TestAmerica Laboratories, Inc.
Address: 5815 Middlebrook Pike, ,
City: Knoxville
State, Zip: TN, 37921
Phone: 865-291-3000(Tel) 865-584-4315(Fax)
Email:
Project Name: Superior, WI Semiannual Groundwater
Site:

Sampler:
Phone:
Due Date Requested: 5/20/2021
TAT Requested (days):
PO #:
WO #:
Project #: 18015916
SSOW#:

Lab PM: Lage, Gail
E-Mail: Gail.Lage@Eurofinset.com
State of Origin: Wisconsin
Accreditations Required (See note): State Program - Wisconsin

COC No: 500-148072.1
Page: Page 1 of 2
Job #: 500-198446-1

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
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)
Other:

Analysis Requested

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)	8290A/8290_P_Sep 17 Isomers + Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SUPE-W-28C-042821 (500-198446-1)	4/28/21	09:08 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB-01-042821 (500-198446-2)	4/28/21	09:50 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-042821 (500-198446-4)	4/28/21	12:07 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30A-042821 (500-198446-5)	4/28/21	14:41 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-10AR2-042821 (500-198446-6)	4/28/21	16:53 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-M-99A-042821 (500-198446-7)	4/28/21	22:00 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06A-042821 (500-198446-9)	4/28/21	14:00 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042821 (500-198446-10)	4/28/21	17:20 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12A-042921 (500-198446-11)	4/29/21	10:13 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

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)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ________ Months*
Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: *Alain Scott*	Date/Time: *4/30/21 1620*	Company *ETA-CHI*	Received by: *[signature]*	Date/Time: *5/1/21 0930*	Company *ETA*
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:

Ver: 11/01/2020

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lage, Gail	Carrier Tracking No(s):	COC No: 500-148072.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Gail.Lage@Eurofinset.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-198446-1
Address: 5815 Middlebrook Pike, ,	Due Date Requested: 5/20/2021			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37921				
Phone: 865-291-3000(Tel) 865-584-4315(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

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)

Other:

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)	8290A/8290_P_Sep 17 Isomers + Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SUPE-EB-02-042921 (500-198446-12)	4/29/21	10:18 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30C-042921 (500-198446-13)	4/29/21	12:51 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12CR-042921 (500-198446-14)	4/29/21	08:21 Central		Water			X	2	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ 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:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ann Scott	4/30/21 1620	ETA		5/1/21 0930	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	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:

Ver: 11/01/2020

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

Log In Number: Loc: 500 **198446**

Review Items	Yes	No	NA	If No, what was the problem?
1. Are the shipping containers intact?	/			☐ **Containers, Broken**
2. Were ambient air containers received intact?			/	☐ Checked in lab
3. The coolers/containers custody seal if present, is it intact?	/			☐ Yes ☐ NA
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : SC71 Correction factor: +0.1	/			☐ **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)**
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:_____			/	☐ **Residual Chlorine**
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

Comments/Actions Taken

RT: 1.5°c, 0.9°c, 1.1°
CT: 1.6°c, 1.0°c, 1.2°c
3 coolers, Fedex Pri
trk# 1893 4451 7416
" " 7427
" " 7438
Custody seal intact
KL 5/1/21

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:	

Project #: _____ PM Instructions: _____

Sample Receiving Associate: Ken Wh Date: 5/1/21

QA026R32.doc, 062719

5/19/2021

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lage, Gail	Carrier Tracking No(s):	COC No: 500-148066.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Gail.Lage@Eurofinset.com	State of Origin: Wisconsin	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-198446-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/20/2021	Analysis Requested		Preservation Codes:
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			Other:

Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; 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)

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)	8260C/5030C (MOD) Volatiles, project list	8270D_LL/3510C_LL (MOD) Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SUPE-W-28C-042821 (500-198446-1)	4/28/21	09:08 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB-01-042821 (500-198446-2)	4/28/21	09:50 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-18D-042821 (500-198446-3)	4/28/21	10:51 Central		Water				X	1	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-04AR2-042821 (500-198446-4)	4/28/21	12:07 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30A-042821 (500-198446-5)	4/28/21	14:41 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-10AR2-042821 (500-198446-6)	4/28/21	16:53 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-M-99A-042821 (500-198446-7)	4/28/21	22:00 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-TB-01-042821 (500-198446-8)	4/28/21	13:53 Central		Water			X		3	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06A-042821 (500-198446-9)	4/28/21	14:00 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

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)

☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ________ Months*

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:		Method of Shipment:	
Relinquished by: Chris Scott	Date/Time: 4/30/21 1620	Company: ETA CHI	Received by: Christow C Kolb		Date/Time: 5/1/21 1000	Company: TA
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: 3.1 2.6 # 1ICE			

Ver: 11/01/2020

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Lage, Gail	Carrier Tracking No(s):	COC No: 500-148066.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Gail.Lage@Eurofinset.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-198446-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 5/20/2021			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Superior, WI Semiannual Groundwater	Project #: 18015916			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
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)
Other:

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)	8260C/5030C (MOD) Volatiles, project list	8270D_LL/3510C_LL (MOD) Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SUPE-W-06C-042821 (500-198446-10)	4/28/21	17:20 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042821 (500-198446-10MS)	4/28/21	17:20 Central	MS	Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-06C-042821 (500-198446-10MSD)	4/28/21	17:20 Central	MSD	Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12A-042921 (500-198446-11)	4/29/21	10:13 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-EB-02-042921 (500-198446-12)	4/29/21	10:18 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-30C-042921 (500-198446-13)	4/29/21	12:51 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-12CR-042921 (500-198446-14)	4/29/21	08:21 Central		Water			X	X	4	Refer to PT-PM-WI-006 for Wisconsin Protocol
SUPE-W-TB-02-042921 (500-198446-15)	4/29/21	10:00 Central		Water			X		2	Refer to PT-PM-WI-006 for Wisconsin Protocol

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *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: Shari Scott	Date/Time: 4/30/21 1620	Company: ETA CHI	Received by: PSI	Date/Time:	Company
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:		

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Field & Technical Services LLC

Job Number: 500-198446-1

Login Number: 198446
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

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	-0.1,-1.3,-0.6,-0.7,-1.4,0.2,-1.3,-0.7 SAMPLES 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").	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: 500-198446-1

Login Number: 198446
List Number: 3
Creator: Kolb, Chris M

List Source: Eurofins TestAmerica, Buffalo
List Creation: 05/03/21 02:18 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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	3.1 2.6 ir gun #1 ice
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Isotope Dilution Summary

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

Job ID: 500-198446-1

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)
500-198446-1	SUPE-W-28C-042821	80	81	83	85	97	101	85	84
500-198446-2	SUPE-EB-01-042821	77	76	79	83	94	94	84	77
500-198446-4	SUPE-W-04AR2-042821	80	86	79	86	97	99	85	88
500-198446-5	SUPE-W-30A-042821	77	80	82	84	94	104	80	81
500-198446-6	SUPE-W-10AR2-042821	82	82	77	87	93	103	88	89
500-198446-7	SUPE-M-99A-042821	78	86	83	85	99	97	83	79
500-198446-9	SUPE-W-06A-042821	77	80	74	84	90	93	82	79
500-198446-10	SUPE-W-06C-042821	79	83	81	88	94	100	85	84
500-198446-11	SUPE-W-12A-042921	80	83	73	81	97	101	81	84
500-198446-12	SUPE-EB-02-042921	76	74	75	87	86	94	84	77
500-198446-13	SUPE-W-30C-042921	82	84	85	94	101	107	87	84
500-198446-14	SUPE-W-12CR-042921	83	87	86	88	99	101	87	90
LCS 140-49428/13-A	Lab Control Sample	74	70	71	72	87	93	78	72
MB 140-49428/14-A	Method Blank	75	71	75	81	93	93	79	75

		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)
500-198446-1	SUPE-W-28C-042821	80	96	85	87	93	96	96	79
500-198446-2	SUPE-EB-01-042821	77	93	81	83	85	93	88	75
500-198446-4	SUPE-W-04AR2-042821	87	97	83	87	90	96	93	78
500-198446-5	SUPE-W-30A-042821	78	93	79	82	91	92	91	77
500-198446-6	SUPE-W-10AR2-042821	85	98	84	86	92	95	91	77
500-198446-7	SUPE-M-99A-042821	84	98	86	86	90	96	95	80
500-198446-9	SUPE-W-06A-042821	80	89	80	81	87	88	89	77
500-198446-10	SUPE-W-06C-042821	83	96	82	85	91	93	92	79
500-198446-11	SUPE-W-12A-042921	83	92	80	82	88	93	93	80
500-198446-12	SUPE-EB-02-042921	76	91	80	81	87	89	86	77
500-198446-13	SUPE-W-30C-042921	83	101	87	89	95	97	99	86
500-198446-14	SUPE-W-12CR-042921	86	94	82	86	92	90	89	66
LCS 140-49428/13-A	Lab Control Sample	71	79	68	74	76	80	82	68
MB 140-49428/14-A	Method Blank	72	88	72	79	79	88	85	70

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

APPENDIX F

ASCII DATA