State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
Former Koppers Tar Plant and Wabash Alloys Site			02-41-553761
Address	**City**	**State**	**ZIP Code**
9100 South 5th Avenue	Oak Creek	WI	53154

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner

Connell Aluminum Properties

Address	City	State	ZIP Code
One International Place	Boston	MA	02110

Contact Person	Phone Number (include area code)
Michael Kellogg	(919) 744-7522

Person or company that collected samples

Tetra Tech Inc. (on behalf of Beazer East)

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) Pre-Design Investigation GW Sampling

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	◉	○	◉
Diesel or Fuel Oil	○	◉	○	◉
Solvents	○	◉	○	◉
Heavy Metals	○	◉	○	◉
Pesticides	○	◉	○	◉
Other: Coal Tar	◉	○	◉	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	◉
Sub-slab	○	◉
Exterior Soil Gas	○	◉

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
Tetra Tech Inc.	Noel	Michael

Address	City	State	ZIP Code
13555 Bishops Court, Suite 201	Brookfield	WI	53005

Phone # (inc. area code)	Email
(262) 792-1282	mike.noel@tetratech.com

Select which agency: (●) Natural Resources ( ) Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)
Mulcahy	Connor	(414) 704-4348

Address	City	State	ZIP Code
1027 West St. Paul Ave	Milwaukee	WI	53233

Email

connor.mulcahy@wisconsin.gov

TETRA TECH

January 5, 2024

Mr. Connor P. Mulcahy
Hydrogeologist – Southeast Region
Remediation and Redevelopment Program
Department of Natural Resources
1027 W. Saint Paul Avenue
Milwaukee, WI 53233

Subject: Data Submittal for Pre-Design Investigation Groundwater Sampling Analytical Results

Former Koppers Tar Plant and Wabash Alloys Site
9100 South 5th Avenue, Oak Creek, WI 53154
FID #: 241379050; BRRTS # 02-41-553761
Connell VPLE BRRTS #: 06-41-560068

City of Oak Creek Utility Corridor Lot 1
9170 South 5th Avenue, Oak Creek, WI 53154
FID #: 341074470; BRRTS #: 02-41-561425

Dear Mr. Mulcahy:

On behalf of Beazer East, Inc., and in accordance with NR 716.14(2), enclosed are sampling results for Pre-Design Investigation groundwater sampling conducted in accordance with Section 2.7.2 of the approved July 21, 2023 Remedial Action Plan (RAP) and comment 2.1.a of WNDR's August 16, 2023 letter. Groundwater samples were collected from all existing wells and piezometers to establish current site conditions for volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). Well locations are shown on Figure 1.

Prior to sampling, an electronic water level meter and product interface probe was used to measure groundwater levels and detect any dense non-aqueous phase liquid (DNAPL) present in the monitoring wells. Depth to groundwater and DNAPL measurements collected are provided in Table 1.

Groundwater samples were then collected using the low-flow purging and sampling method. Samples were not collected from twelve monitoring wells:

- MW-106, MW-114, MW-124, MW-130, MW-134, and P-121, due to presence of DNAPL
- M-108 and MW-135, because the wells were dry
- MW-109 and P-110, because the wells could not be located
- MW-116 and MW-118 because the wells were damaged.

TETRA TECH
13555 Bishops Court, Suite 220, Brookfield, WI 53005
Tel 262.792.1282 www.tetratech.com

Field parameters including dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, and specific conductivity were collected using a multi-parameter water quality meter and flow-through cell and. Field sampling forms that include the field parameters are attached.

The groundwater samples were submitted for laboratory analyses of VOCs by EPA Method 8260B, PAHs by EPA Method 8270D and geochemical parameters (nitrate, manganese, ferrous iron, sulfate, methane, and alkalinity). The lab reports are attached along with a summary table of results (Table 2).

Per Section 3.13 of the approved July 21, 2023 RAP, a Long-Term Monitoring Plan (LTMP) will be submitted as part of the Remedial Design Report. The LTMP will provide a description of the monitoring network and monitoring objectives for a prolonged period after completion of the remedial action and will include recommendations for well abandonments (for damaged wells and/or those in an area of proposed ISS treatment).

If you have any questions, please feel free to contact us.

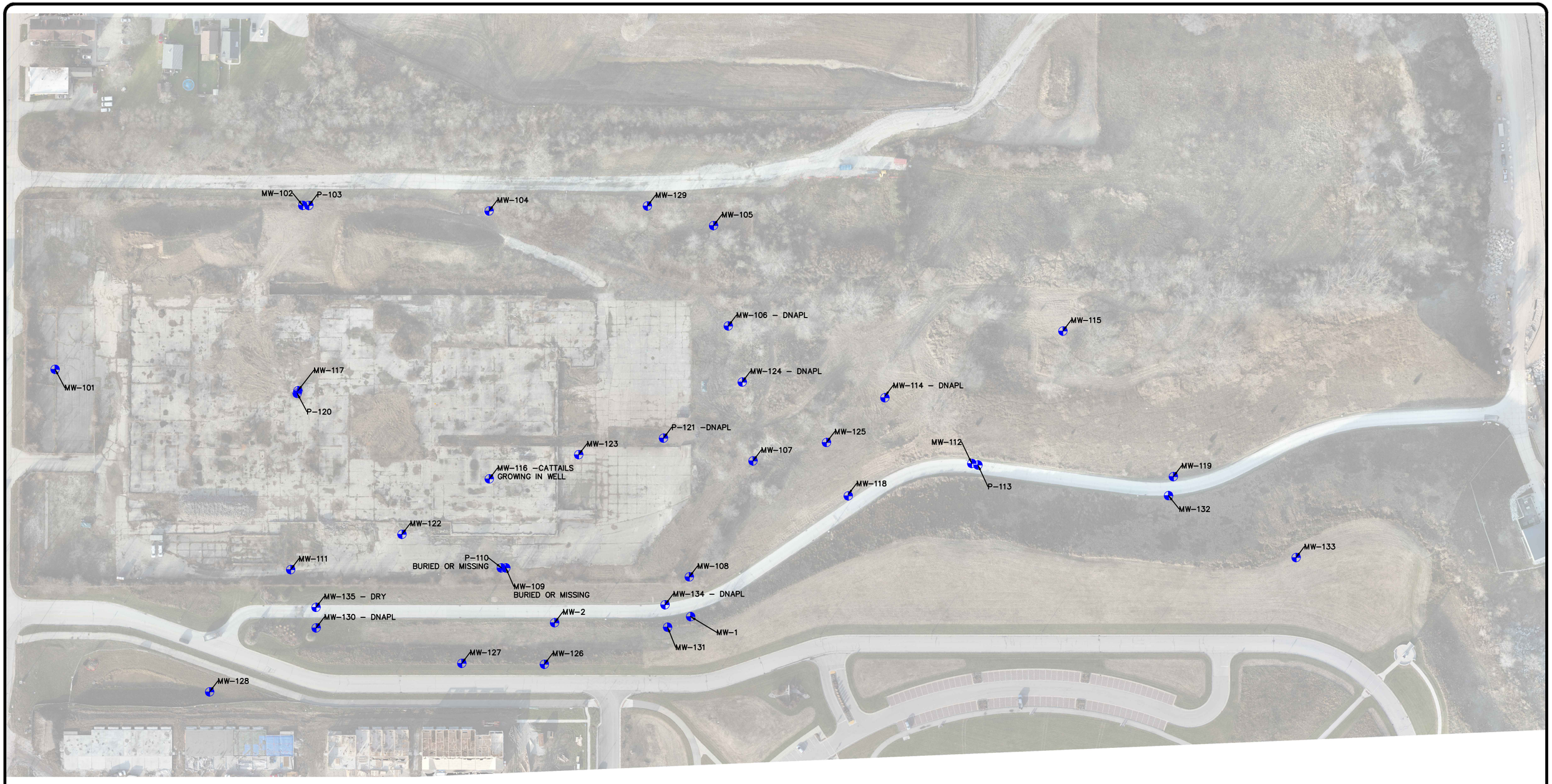
Sincerely,

Tetra Tech, Inc.

Michael R. Noel, P.G.
Principal Hydrogeologist
(262) 853-4983
Mike.Noel@tetratech.com

Attachments

cc: Judy Fassbender, DNR – judy.fassbender@wisconsin.gov
Michele Norman, DNR – michele.norman@wisconsin.gov
Angela Carey, DNR – angela.carey@wisconsin.gov
Brian Waite, DNR – brian.waite@wisconsin.gov
Brian Schneider, Ramboll – bschneider@ramboll.com
Bruce Keyes, Foley & Lardner – bkeyes@foley.com
Mike Kellogg, Connell – mkellogg-5524@connell-lp.com
Mike Bollinger, Beazer – mike.bollinger@trmi.biz
Mike Slenska, Beazer – mike.slenska@trmi.biz
Kurt Paschl, Beazer – kurt.paschl@trmi.biz
Hillary Evanko, Beazer – hillary.evanko@trmi.biz
Brett Philpotts, Beazer – Brett.Philpotts@trmi.biz
Chip McChesney, Beazer - charles.mcchesney@heidelbergmaterials.com
Larry Haskin, City of Oak Creek - lhaskin@haskinkarls.com
Art Harrington, Godfrey & Kahn/City of Oak Creek - ajharrin@gklaw.com
Scott Tarmann, Ramboll – starmann@ramboll.com



LEGEND

MONITORING WELL LOCATION

N

0 150 300

SCALE IN FEET

TITLE: FORMER KOPPERS TAR PLANT AND WABASH ALLOYS SITE
MONITORING WELL LOCATION MAP

LOCATION: OAK CREEK, WISCONSIN

TETRA TECH

CHECKED	MRN
DRAFTED	JRD
PROJECT	117-2201512
DATE	01/05/2024

FIGURE: 1

Table 1 - Groundwater and DNAPL Elevations

					11/28/2023				
ID	Northing	Easting	T.O.C. Elevation (ft amsl)	Well Depth (ft BTOC)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft amsl)	Depth to DNAPL (ft BTOC)	DNAPL Elevation (ft amsl)	DNAPL Thickness
MW-1	327093.90	2576465.06	665.40	19.69	15.13	650.27	NP	NA	NA
MW-2	327084.18	2576249.21	663.19	19.55	9.93	653.26	NP	NA	NA
MW-101	327486.36	2575456.83	675.87	19.48	5.89	669.98	NP	NA	NA
MW-102	327746.63	2575852.79	680.63	22.27	6.21	674.42	NP	NA	NA
P-103	327746.46	2575857.93	680.63	50.00	7.80	672.83	NP	NA	NA
MW-104	327737.63	2576145.39	679.36	22.23	5.88	673.48	NP	NA	NA
MW-105	327714.50	2576505.17	678.37	22.28	9.21	669.16	NP	NA	NA
MW-106	327555.16	2576524.71	674.17	22.42	7.32	666.85	13.82	660.35	8.60
MW-107	327352.92	2576536.57	671.54	22.25	8.73	662.81	NP	NA	NA
MW-108	327156.92	2576462.90	665.90	22.50	Dry	NA	NP	NA	NA
MW-109	327171.22	2576164.60	668.91	20.00	Not Located	NA	NM	NA	NA
P-110	327171.04	2576169.06	668.82	50.00	Not Located	NA	NM	NA	NA
MW-111	327168.46	2575830.56	673.89	19.09	10.97	662.92	NP	NA	NA
MW-112	327336.90	2576915.49	642.42	19.63	8.04	634.38	NP	NA	NA
P-113	327336.16	2576919.03	642.34	49.92	8.21	634.13	NP	NA	NA
MW-114	327441.20	2576773.18	664.71	22.44	4.20	660.51	17.85	646.86	4.59
MW-115	327547.68	2577054.72	667.29	22.28	4.71	662.58	NP	NA	NA
MW-116	327312.45	2576145.64	674.16	20.00	Damaged	NA	NM	NA	NA
MW-117	327452.24	2575841.96	679.79	14.79	4.87	674.92	NP	NA	NA
MW-118	327285.49	2576715.06	654.07	20.00	Damaged	NA	NM	NA	NA
P-120	327448.17	2575840.87	677.05	52.16	11.73	665.32	NP	NA	NA
P-121	327377.12	2576421.71	670.58	50.00	7.05	663.53	47.50	623.08	2.50
MW-122	327224.52	2576007.12	670.37	15.00	6.13	664.24	NP	NA	NA
MW-123	327350.89	2576287.48	670.12	14.83	4.33	665.79	NP	NA	NA
MW-124	327466.14	2576546.91	672.25	17.55	5.26	666.99	16.58	655.67	0.97
MW-125	327370.19	2576680.51	667.29	17.71	4.38	662.91	NP	NA	NA
MW-129	327745.58	2576396.45	679.99	22.42	11.13	668.86	NP	NA	NA
MW-130	327076.04	2575870.99	673.42	14.00	11.12	662.30	13.22	660.20	0.78
MW-131	327077.11	2576428.50	666.76	20.98	16.62	650.14	NP	NA	NA
MW-132	327285.86	2577223.09	624.93	12.60	6.39	618.54	NP	NA	NA
MW-134	327112.69	2576424.44	660.89	19.96	17.40	643.49	17.92	642.97	2.04
MW-135	327108.57	2575870.79	673.19	19.70	Dry	NA	NP	NA	NA
MW-136	327269.88	2576734.34	653.03	14.85	11.24	641.79	NP	NA	NA

NM = Not Measured
NP = Not Present
NA = Not Applicable

	WDNR NR140			MW-1	MW-101	MW-102	MW-104	MW-105	MW-111	MW-115	MW-117
Volatile Organic Compounds	PAL	ES	Units	12/05/23	12/01/23	12/05/23	12/06/23	12/06/23	12/05/23	12/05/23	12/13/23
1,1,1,2-Tetrachloroethane	*7*	**70**	ug/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<23
1,1,1-Trichloroethane	*40*	**200**	ug/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<19
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40 *- F1	<0.40 *-	<20
1,1,2-Trichloroethane	*0.5*	**5**	ug/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<18
1,1-Dichloroethane	*85*	**850**	ug/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<21
1,1-Dichloroethene	*0.7*	**7**	ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<20
1,1-Dichloropropene			ug/L	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<15
1,2,3-Trichlorobenzene			ug/L	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<23
1,2,3-Trichloropropane	*12*	**60**	ug/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<21
1,2,4-Trichlorobenzene	*14*	**70**	ug/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<17
1,2,4-Trimethylbenzene	*96*	**480**	ug/L	<0.36	<0.36	<0.36	<0.36	3.7	<0.36	<0.36	*280*
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<100
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<19
1,2-Dichlorobenzene	*60*	**600**	ug/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<17
1,2-Dichloroethane	*0.5*	**5**	ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<20
1,2-Dichloropropane	*0.5*	**5**	ug/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<21
1,3,5-Trimethylbenzene	*96*	**480**	ug/L	<0.25	<0.25	<0.25	<0.25	2.0	<0.25	<0.25	*120*
1,3-Dichlorobenzene	*125*	**1250**	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<20
1,3-Dichloropropane	*0.02*	**0.2**	ug/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<18
1,4-Dichlorobenzene	*15*	**75**	ug/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<18
2,2-Dichloropropane			ug/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<22
2-Chlorotoluene			ug/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<16
4-Chlorotoluene			ug/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<17
Benzene	*0.5*	**5**	ug/L	<0.15	<0.15	<0.15	<0.15	*1.3*	<0.15	<0.15	**2700**
Bromobenzene			ug/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<18
Bromochloromethane			ug/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<21
Bromodichloromethane	*0.06*	**0.6**	ug/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<19
Bromoform	*0.44*	**4.4**	ug/L	<0.48	<0.48	<0.48 *+	<0.48 *+	<0.48 *+	<0.48	<0.48	<24
Bromomethane	*1*	**10**	ug/L	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<40
Carbon tetrachloride	*0.5*	**5**	ug/L	<0.38	<0.38	<0.38	<0.38 *+	<0.38 *+	<0.38	<0.38	<19
Chlorobenzene			ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<19
Chloroethane	*80*	**400**	ug/L	<0.51	<0.51	<0.51 *+	<0.51 *+	<0.51 *+	<0.51	<0.51	<25
Chloroform	*0.6*	**6**	ug/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<19
Chloromethane	*0.3*	**3**	ug/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<16
cis-1,2-Dichloroethene	*7*	**70**	ug/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<20
cis-1,3-Dichloropropene			ug/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<21
Dibromochloromethane			ug/L	<0.49	<0.49	<0.49 *+	<0.49 *+	<0.49 *+	<0.49	<0.49	<24
Dibromomethane			ug/L	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<14
Dichlorodifluoromethane	*200*	**1000**	ug/L	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<34
Ethylbenzene	*140*	**700**	ug/L	<0.18	<0.18	<0.18	<0.18	1.5	<0.18	<0.18	*240*
Hexachlorobutadiene			ug/L	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45 F2	<0.45	<22
Isopropyl ether			ug/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<14
Isopropylbenzene			ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<19
Methyl tert-butyl ether	*12*	**60**	ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<20
Methylene Chloride	*0.5*	**5**	ug/L	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<82
Naphthalene	*10*	**100**	ug/L	0.55 J	<0.34	<0.34	<0.34	**110**	0.60 J B	9.80 B	**6600**
n-Butylbenzene			ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<19
N-Propylbenzene			ug/L	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<21
p-Isopropyltoluene			ug/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<18
sec-Butylbenzene			ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<20
Styrene	*10*	**100**	ug/L	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<19
tert-Butylbenzene			ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<20
Tetrachloroethene	*0.5*	**5**	ug/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<19
Toluene	*200*	**1000**	ug/L	<0.15	<0.15	<0.15	<0.15	3.6	<0.15	<0.15	**2400**
trans-1,2-Dichloroethene	*20*	**100**	ug/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<17
trans-1,3-Dichloropropene			ug/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<18
Trichloroethene	*0.5*	**5**	ug/L	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16 *+	<0.16 *+	<8.2
Trichlorofluoromethane			ug/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<21
Vinyl chloride	*0.02*	**0.2**	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<10
Xylenes, Total	*1000*	**10000**	ug/L	<0.22	<0.22	<0.22	<0.22	8.5	<0.22	0.22 J	*1500*

	WDNR NR140			MW-1		MW-101		MW-102		MW-104		MW-105		MW-111		MW-115		MW-117	
Polyaromatic Hydrocarbons	PAL	ES	Units	12/05/23		12/01/23		12/05/23		12/06/23		12/06/23		12/05/23		12/05/23		12/13/23	
1-Methylnaphthalene			ug/L	<0.24		<0.23		<0.24		<0.23		12		<0.23		0.52	J	610	
2-Methylnaphthalene			ug/L	0.25	J	<0.049		<0.051		<0.050		0.56	J	<0.049		0.96	J	1100	
Acenaphthene			ug/L	1.1		<0.23		<0.24		<0.24		8.9		<0.23		0.35	J	130	
Acenaphthylene			ug/L	<0.21		<0.20		<0.21		<0.21		5.3		<0.20		<0.22		<23	
Anthracene	*600*	**3000**	ug/L	<0.27		<0.25		<0.26		<0.26		2.7		<0.25		<0.27		<28	
Benzo[a]anthracene			ug/L	0.18		<0.043		<0.045		0.15		4.9		<0.043		0.19		7.7	J
Benzo[a]pyrene	*0.02*	**0.2**	ug/L	*0.08*	J	*0.081*	J	<0.078		*0.095*	J	**4.2**		<0.075		**0.11**	J	<8.3	
Benzo[b]fluoranthene	*0.02*	**0.2**	ug/L	*0.11*	J	*0.12*	J	<0.064		*0.13*	J	**5.3**		<0.061		**0.16**		<6.8	
Benzo[g,h,i]perylene			ug/L	<0.30		<0.28		<0.30		<0.29		2.2		<0.28		<0.30		<32	
Benzo[k]fluoranthene			ug/L	0.053	J	<0.048		<0.050		0.064	J	2.2		<0.049		0.07	J	<5.4	
Chrysene	*0.02*	**0.2**	ug/L	*0.094*	J	<0.051		<0.054		*0.085*	J	**3.4**		<0.052		*0.12*	J	<5.7	
Dibenz(a,h)anthracene			ug/L	<0.040		<0.038		<0.040		<0.039		0.62		<0.038		<0.041		<4.3	
Fluoranthene	*80*	**400**	ug/L	0.85		<0.34		<0.36		<0.35		16		<0.34		<0.37		<38	
Fluorene	*80*	**400**	ug/L	0.25	J	<0.18		<0.19		<0.19		9.7		<0.18		0.28	J	78	J
Indeno[1,2,3-cd]pyrene			ug/L	<0.059		<0.056		<0.059		0.071	J	2.4		<0.057		<0.060		<6.3	
Naphthalene	*10*	**100**	ug/L	1.9		<0.23		<0.24		<0.24		0.54	J	<0.23		5.2		**7100**	
Phenanthrene			ug/L	<0.24		<0.23		<0.24		<0.23		24		<0.23		0.59	J	82	J
Pyrene	*50*	**250**	ug/L	0.63	J	<0.32		<0.34		<0.33		13		<0.32		<0.34		<36	

Natural Attenuation Parameters			Units	12/05/23		12/01/23		12/05/23		12/06/23		12/06/23		12/05/23		12/05/23		12/13/23	
Alkalinity			mg/L	490		440		370		340		450		320		370		420	
Ferrous Iron			mg/L	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF
Iron			mg/L	0.14	J	0.089	J	<0.082	^1+	0.094	J ^1+	<0.082		0.098	J	0.13	J	<0.82	
Manganese			mg/L	0.0034	J	0.16		0.042		<0.0023		0.26		0.14		0.71		0.47	
Nitrate as N			mg/L	0.3	J	0.22	J	<0.043	H3	0.19	J	<0.043		0.32	J	<0.043		<0.043	
Sulfate			mg/L	180		95		120		64		51		25	F1	1200		18	
Methane			ug/L	<1.0		46		<1.0		<1.0		<1.0		3.7	J	<1.0		12000	

Qualifiers

B Compound was found in the blank and sample.

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

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

H3 Sample was received and analyzed past holding time. This does not meet regulatory requirements.

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*- LCS and/or LCSD is outside acceptance limits, low biased.

^1+ Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

S1- Surrogate recovery exceeds control limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

	WDNR NR140			MW-122		MW-123		MW-125		MW-129		MW-131		MW-2		P-103		P-120	
Volatile Organic Compounds	PAL	ES	Units	12/01/23		12/06/23		12/04/23		12/06/23		12/11/23		12/11/23		12/05/23		12/11/23	
1,1,1,2-Tetrachloroethane	*7*	**70**	ug/L	<0.46		<0.46		<2.3		<0.46		<0.46		<0.46		<0.46		<0.46	
1,1,1-Trichloroethane	*40*	**200**	ug/L	<0.38		<0.38		<1.9		<0.38		<0.38		<0.38		<0.38		<0.38	
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	ug/L	<0.40		<0.40		<2.0		<0.40		<0.40		<0.40		<0.40	*-	<0.40	
1,1,2-Trichloroethane	*0.5*	**5**	ug/L	<0.35		<0.35		<1.8		<0.35		<0.35		<0.35		<0.35		<0.35	
1,1-Dichloroethane	*85*	**850**	ug/L	<0.41		<0.41		<2.1		<0.41		<0.41		<0.41		<0.41		<0.41	
1,1-Dichloroethene	*0.7*	**7**	ug/L	<0.39		<0.39		<2.0		<0.39		<0.39		<0.39		<0.39		<0.39	
1,1-Dichloropropene			ug/L	<0.30		<0.30		<1.5		<0.30		<0.30		<0.30		<0.30		<0.30	
1,2,3-Trichlorobenzene			ug/L	<0.46		<0.46		<2.3		<0.46		<0.46		<0.46		<0.46		<0.46	
1,2,3-Trichloropropane	*12*	**60**	ug/L	<0.41		<0.41		<2.1		<0.41		<0.41		<0.41		<0.41		<0.41	
1,2,4-Trichlorobenzene	*14*	**70**	ug/L	<0.34		<0.34		<1.7		<0.34		<0.34		<0.34		<0.34		<0.34	
1,2,4-Trimethylbenzene	*96*	**480**	ug/L	18		*100*		84		<0.36		<0.36		<0.36		<0.36		<0.36	
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	ug/L	<2.0		<2.0		<10		<2.0		<2.0		<2.0		<2.0		<2.0	
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	ug/L	<0.39		<0.39		<1.9		<0.39		<0.39		<0.39		<0.39		<0.39	
1,2-Dichlorobenzene	*60*	**600**	ug/L	<0.33		<0.33		<1.7		<0.33		<0.33		<0.33		<0.33		<0.33	
1,2-Dichloroethane	*0.5*	**5**	ug/L	<0.39		<0.39		<2.0		<0.39		<0.39		<0.39		<0.39		<0.39	
1,2-Dichloropropane	*0.5*	**5**	ug/L	<0.43		<0.43		<2.1		<0.43		<0.43		<0.43		<0.43		<0.43	
1,3,5-Trimethylbenzene	*96*	**480**	ug/L	<0.25		24		34		<0.25		<0.25		<0.25		<0.25		<0.25	
1,3-Dichlorobenzene	*125*	**1250**	ug/L	<0.40		<0.40		<2.0		<0.40		<0.40		<0.40		<0.40		<0.40	
1,3-Dichloropropane	*0.02*	**0.2**	ug/L	<0.36		<0.36		<1.8		<0.36		<0.36		<0.36		<0.36		<0.36	
1,4-Dichlorobenzene	*15*	**75**	ug/L	<0.36		<0.36		<1.8		<0.36		<0.36		<0.36		<0.36		<0.36	
2,2-Dichloropropane			ug/L	<0.44		<0.44		<2.2		<0.44		<0.44		<0.44		<0.44		<0.44	
2-Chlorotoluene			ug/L	<0.31		<0.31		<1.6		<0.31		<0.31		<0.31		<0.31		<0.31	
4-Chlorotoluene			ug/L	<0.35		<0.35		<1.7		<0.35		<0.35		<0.35		<0.35		<0.35	
Benzene	*0.5*	**5**	ug/L	**23**		**600**		**290**		<0.15		<0.15		**6.5**		<0.15		<0.15	
Bromobenzene			ug/L	<0.36		<0.36		<1.8		<0.36		<0.36		<0.36		<0.36		<0.36	
Bromochloromethane			ug/L	<0.43		<0.43		<2.1		<0.43		<0.43		<0.43		<0.43		<0.43	
Bromodichloromethane	*0.06*	**0.6**	ug/L	<0.37		<0.37		<1.9		<0.37		<0.37		<0.37		<0.37		<0.37	
Bromoform	*0.44*	**4.4**	ug/L	<0.48		<0.48	*+	<2.4		<0.48	*+	<0.48		<0.48		<0.48		<0.48	
Bromomethane	*1*	**10**	ug/L	<0.80		<0.80		<4.0		<0.80		<0.80		<0.80		<0.80		<0.80	
Carbon tetrachloride	*0.5*	**5**	ug/L	<0.38		<0.38	*+	<1.9		<0.38	*+	<0.38		<0.38		<0.38		<0.38	
Chlorobenzene			ug/L	<0.39		<0.39		<1.9		<0.39		<0.39		<0.39		<0.39		<0.39	
Chloroethane	*80*	**400**	ug/L	<0.51		<0.51	*+	<2.5		<0.51	*+	<0.51		<0.51		<0.51		<0.51	
Chloroform	*0.6*	**6**	ug/L	<0.37		<0.37		<1.9		<0.37		<0.37		<0.37		<0.37		<0.37	
Chloromethane	*0.3*	**3**	ug/L	<0.32		<0.32		<1.6		<0.32		<0.32		<0.32		<0.32		<0.32	
cis-1,2-Dichloroethene	*7*	**70**	ug/L	<0.41		<0.41		<2.0		<0.41		<0.41		<0.41		<0.41		<0.41	
cis-1,3-Dichloropropene			ug/L	<0.42		<0.42		<2.1		<0.42		<0.42		<0.42		<0.42		<0.42	
Dibromochloromethane			ug/L	<0.49		<0.49	*+	<2.4		<0.49	*+	<0.49		<0.49		<0.49		<0.49	
Dibromomethane			ug/L	<0.27		<0.27		<1.4		<0.27		<0.27		<0.27		<0.27		<0.27	
Dichlorodifluoromethane	*200*	**1000**	ug/L	<0.67		<0.67		<3.4		<0.67		<0.67		<0.67		<0.67		<0.67	
Ethylbenzene	*140*	**700**	ug/L	93		100		91		<0.18		0.22	J	0.95		<0.18		<0.18	
Hexachlorobutadiene			ug/L	<0.45		<0.45		<2.2		<0.45		<0.45		<0.45		<0.45		<0.45	
Isopropyl ether			ug/L	<0.28		<0.28		<1.4		<0.28		<0.28		<0.28		<0.28		<0.28	
Isopropylbenzene			ug/L	11		6.8		4.7	J	<0.39		<0.39		0.46	J	<0.39		<0.39	
Methyl tert-butyl ether	*12*	**60**	ug/L	<0.39		<0.39		<2.0		<0.39		<0.39		<0.39		<0.39		<0.39	
Methylene Chloride	*0.5*	**5**	ug/L	<1.6		<1.6		<8.2		<1.6		<1.6		<1.6		<1.6		<1.6	
Naphthalene	*10*	**100**	ug/L	**650**	B	**3000**		**5400**	B	0.47	J	0.55	J	3.5		0.96	J B	0.69	J
n-Butylbenzene			ug/L	<0.39		<0.39		<1.9		<0.39		<0.39		<0.39		<0.39		<0.39	
N-Propylbenzene			ug/L	0.97	J	2.8		<2.1		<0.41		<0.41		<0.41		<0.41		<0.41	
p-Isopropyltoluene			ug/L	<0.36		2.0		<1.8		<0.36		<0.36		<0.36		<0.36		<0.36	
sec-Butylbenzene			ug/L	<0.40		<0.40		<2.0		<0.40		<0.40		<0.40		<0.40		<0.40	
Styrene	*10*	**100**	ug/L	<0.39		<0.39		<1.9		<0.39		<0.39		<0.39		<0.39		<0.39	
tert-Butylbenzene			ug/L	<0.40		<0.40		<2.0		<0.40		<0.40		<0.40		<0.40		<0.40	
Tetrachloroethene	*0.5*	**5**	ug/L	<0.37		<0.37		<1.9		<0.37		<0.37		<0.37		<0.37		<0.37	
Toluene	*200*	**1000**	ug/L	3.4		23		110		<0.15		<0.15		0.28	J	<0.15		0.20	J
trans-1,2-Dichloroethene	*20*	**100**	ug/L	<0.35		<0.35		<1.7		<0.35		<0.35		<0.35		<0.35		<0.35	
trans-1,3-Dichloropropene			ug/L	<0.36		<0.36		<1.8		<0.36		<0.36		<0.36		<0.36		<0.36	
Trichloroethene	*0.5*	**5**	ug/L	<0.16		<0.16		<0.82		<0.16		<0.16		<0.16		<0.16	*+	<0.16	
Trichlorofluoromethane			ug/L	<0.43		<0.43		<2.1	*+	<0.43		<0.43		<0.43		<0.43		<0.43	
Vinyl chloride	*0.02*	**0.2**	ug/L	<0.20		<0.20		<1.0	*+	<0.20		<0.20		<0.20		<0.20		<0.20	
Xylenes, Total	*1000*	**10000**	ug/L	16		390		450		<0.22		<0.22		0.75	J	<0.22		<0.22	

	WDNR NR140			MW-122		MW-123		MW-125		MW-129		MW-131		MW-2		P-103		P-120	
Polyaromatic Hydrocarbons	PAL	ES	Units	12/01/23		12/06/23		12/04/23		12/06/23		12/11/23		12/11/23		12/05/23		12/11/23	
1-Methylnaphthalene			ug/L	88		180		170		<0.24		<0.25		1.4	J	<0.23		<0.24	
2-Methylnaphthalene			ug/L	3.3		190		240		<0.052		<0.054		0.23	J	<0.049		<0.052	
Acenaphthene			ug/L	90		120		130		<0.24		1.6		10		<0.23		<0.25	
Acenaphthylene			ug/L	1.1		5.3	J	3	J	<0.21		<0.22		0.94		<0.20		<0.21	
Anthracene	*600*	**3000**	ug/L	4.5		17		9.1		0.4	J	<0.28		4.5		<0.25		<0.27	
Benzo[a]anthracene			ug/L	0.5		11		5.1		1.3		0.23		2.7		<0.043		0.54	
Benzo[a]pyrene	*0.02*	**0.2**	ug/L	**0.66**		**14**		**4.1**		**1.2**		*0.11*	J	**2.5**		<0.075		**0.44**	
Benzo[b]fluoranthene	*0.02*	**0.2**	ug/L	**0.72**		**17**		**4.9**		**1.5**		*0.14*	J	**3.4**		<0.061		**0.53**	
Benzo[g,h,i]perylene			ug/L	0.53	J	8		2.1	J	0.7	J	<0.31		1.5		<0.28		<0.30	
Benzo[k]fluoranthene			ug/L	0.3		6.6		2.2		0.56		0.07	J	1.2		<0.048		0.19	
Chrysene	*0.02*	**0.2**	ug/L	**0.62**		**9.5**		**4.4**		**0.9**		*0.14*	J	**2.7**		<0.051		**0.34**	
Dibenz(a,h)anthracene			ug/L	<0.039		2.3	J	0.77	J	0.17	J	<0.042		0.38		<0.038		0.08	J
Fluoranthene	*80*	**400**	ug/L	4.2		37		22		3.4		1.2		7.7		<0.34		1.3	
Fluorene	*80*	**400**	ug/L	44		74		68		<0.19		0.41	J	14		<0.18		<0.19	
Indeno[1,2,3-cd]pyrene			ug/L	0.56		9		2.1		0.68		<0.062		1.6		<0.056		0.23	
Naphthalene	*10*	**100**	ug/L	**380**		**2500**		**2200**		<0.24		<0.26		2.8		<0.23		0.28	J
Phenanthrene			ug/L	39		92		75		2.5		0.31	J	3.4		<0.23		1	
Pyrene	*50*	**250**	ug/L	3.1		28		20		3		0.79	J	6.6		<0.32		1.1	

Natural Attenuation Parameters			Units	12/01/23		12/06/23		12/04/23		12/06/23		12/11/23		12/11/23		12/05/23		12/11/23	
Alkalinity			mg/L	530		450		520		470		560		660		120		120	
Ferrous Iron			mg/L	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF
Iron			mg/L	11		11		15		<0.082		3.7		3.2		<0.082		<0.082	
Manganese			mg/L	1.1		1		0.7		0.0067	J	0.76		0.67		0.0024	J	0.0025	J
Nitrate as N			mg/L	<0.043		<0.043		<0.043		<0.043		<0.043		<0.043		0.18	J	0.28	J
Sulfate			mg/L	2.8		<0.21		0.27	J	140		270		280		17		90	
Methane			ug/L	250		430		8800		<1.0		20		370		<1.0		<1.0	

Qualifiers

B Compound was found in the blank and sample.

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

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

H3 Sample was received and analyzed past holding time. This does not meet regulatory requirements.

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*- LCS and/or LCSD is outside acceptance limits, low biased.

^1+ Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

S1- Surrogate recovery exceeds control limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

	WDNR NR140			MW-107		MW-12		MW-132		MW-136		P-113		TB-1		TB-2		TB-3	
Volatile Organic Compounds	PAL	ES	Units	12/06/23		12/06/23		12/06/23		12/06/23		12/06/23		12/04/23		12/08/23		12/11/23	
1,1,1,2-Tetrachloroethane	*7*	**70**	ug/L	<4.6		<0.46		<0.46		<0.46		<0.46		<0.46		<0.46		<0.46	
1,1,1-Trichloroethane	*40*	**200**	ug/L	<3.8		<0.38		<0.38		<0.38		<0.38		<0.38		<0.38		<0.38	
1,1,2,2-Tetrachloroethane	*0.02*	**0.2**	ug/L	<4.0		<0.40		<0.40		<0.40		<0.40		<0.40		<0.40		<0.40	
1,1,2-Trichloroethane	*0.5*	**5**	ug/L	<3.5		<0.35		<0.35		<0.35		<0.35		<0.35		<0.35		<0.35	
1,1-Dichloroethane	*85*	**850**	ug/L	<4.1		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41	
1,1-Dichloroethene	*0.7*	**7**	ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
1,1-Dichloropropene			ug/L	<3.0		<0.30		<0.30		<0.30		<0.30		<0.30		<0.30		<0.30	
1,2,3-Trichlorobenzene			ug/L	<4.6		<0.46		<0.46		<0.46		<0.46		<0.46		<0.46		<0.46	
1,2,3-Trichloropropane	*12*	**60**	ug/L	<4.1		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41	
1,2,4-Trichlorobenzene	*14*	**70**	ug/L	<3.4		<0.34		<0.34		<0.34		<0.34		<0.34		<0.34		<0.34	
1,2,4-Trimethylbenzene	*96*	**480**	ug/L	*180*		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36	
1,2-Dibromo-3-Chloropropane	*0.02*	**0.2**	ug/L	<20		<2.0		<2.0		<2.0		<2.0		<2.0	*+	<2.0		<2.0	
1,2-Dibromoethane (EDB)	*0.005*	**0.05**	ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
1,2-Dichlorobenzene	*60*	**600**	ug/L	<3.3		<0.33		0.54	J	<0.33		<0.33		<0.33		<0.33		<0.33	
1,2-Dichloroethane	*0.5*	**5**	ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
1,2-Dichloropropane	*0.5*	**5**	ug/L	<4.3		<0.43		<0.43		<0.43		<0.43		<0.43		<0.43		<0.43	
1,3,5-Trimethylbenzene	*96*	**480**	ug/L	<2.5		<0.25		<0.25		<0.25		<0.25		<0.25		<0.25		<0.25	
1,3-Dichlorobenzene	*125*	**1250**	ug/L	<4.0		<0.40		1		<0.40		<0.40		<0.40		<0.40		<0.40	
1,3-Dichloropropane	*0.02*	**0.2**	ug/L	<3.6		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36	
1,4-Dichlorobenzene	*15*	**75**	ug/L	<3.6		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36	
2,2-Dichloropropane			ug/L	<4.4		<0.44		<0.44		<0.44		<0.44		<0.44		<0.44		<0.44	
2-Chlorotoluene			ug/L	<3.1		<0.31		<0.31		<0.31		<0.31		<0.31		<0.31		<0.31	
4-Chlorotoluene			ug/L	<3.5		<0.35		<0.35		<0.35		<0.35		<0.35		<0.35		<0.35	
Benzene	*0.5*	**5**	ug/L	**1900**		<0.15		<0.15		<0.15		<0.15		<0.15		<0.15		<0.15	
Bromobenzene			ug/L	<3.6		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36	
Bromochloromethane			ug/L	<4.3		<0.43		<0.43		<0.43		<0.43		<0.43		<0.43		<0.43	
Bromodichloromethane	*0.06*	**0.6**	ug/L	<3.7		<0.37		<0.37		<0.37		<0.37		<0.37		<0.37		<0.37	
Bromoform	*0.44*	**4.4**	ug/L	<4.8		<0.48		<0.48		<0.48		<0.48		<0.48	*+	<0.48		<0.48	
Bromomethane	*1*	**10**	ug/L	<8.0		<0.80		<0.80		<0.80		<0.80		<0.80		<0.80		<0.80	
Carbon tetrachloride	*0.5*	**5**	ug/L	<3.8		<0.38		<0.38		<0.38		<0.38		<0.38		<0.38		<0.38	
Chlorobenzene			ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
Chloroethane	*80*	**400**	ug/L	<5.1		<0.51		<0.51		<0.51		<0.51		<0.51		<0.51		<0.51	
Chloroform	*0.6*	**6**	ug/L	<3.7		<0.37		<0.37		<0.37		<0.37		<0.37		<0.37		<0.37	
Chloromethane	*0.3*	**3**	ug/L	<3.2		<0.32		<0.32		<0.32		<0.32		<0.32		*1.3*	J B	<0.32	
cis-1,2-Dichloroethene	*7*	**70**	ug/L	<4.1		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41	
cis-1,3-Dichloropropene			ug/L	<4.2		<0.42		<0.42		<0.42		<0.42		<0.42		<0.42		<0.42	
Dibromochloromethane			ug/L	<4.9		<0.49		<0.49		<0.49		<0.49		<0.49	*+	<0.49		<0.49	
Dibromomethane			ug/L	<2.7		<0.27		<0.27		<0.27		<0.27		<0.27	*+	<0.27		<0.27	
Dichlorodifluoromethane	*200*	**1000**	ug/L	<6.7		<0.67		<0.67		<0.67		<0.67		<0.67		<0.67		<0.67	
Ethylbenzene	*140*	**700**	ug/L	*410*		<0.18		<0.18		<0.18		<0.18		<0.18		<0.18		<0.18	
Hexachlorobutadiene			ug/L	<4.5		<0.45		<0.45		<0.45		<0.45		<0.45		<0.45		<0.45	
Isopropyl ether			ug/L	<2.8		<0.28		<0.28		<0.28		<0.28		<0.28		<0.28		<0.28	
Isopropylbenzene			ug/L	18		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
Methyl tert-butyl ether	*12*	**60**	ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
Methylene Chloride	*0.5*	**5**	ug/L	**20**	J B	<1.6		<1.6		<1.6		<1.6		*2.40*	J B	*3.7*	J B	<1.6	
Naphthalene	*10*	**100**	ug/L	**14000**		0.99	J	<0.34		0.75	J	0.98	J	<0.34		<0.34		<0.34	
n-Butylbenzene			ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
N-Propylbenzene			ug/L	6.4	J	<0.41		<0.41		<0.41		<0.41		<0.41		<0.41		<0.41	
p-Isopropyltoluene			ug/L	<3.6		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36	
sec-Butylbenzene			ug/L	<4.0		<0.40		<0.40		<0.40		<0.40		<0.40		<0.40		<0.40	
Styrene	*10*	**100**	ug/L	<3.9		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39		<0.39	
tert-Butylbenzene			ug/L	<4.0		<0.40		<0.40		<0.40		<0.40		<0.40		<0.40		<0.40	
Tetrachloroethene	*0.5*	**5**	ug/L	<3.7		<0.37		<0.37		<0.37		<0.37		<0.37		<0.37		<0.37	
Toluene	*200*	**1000**	ug/L	21		<0.15		<0.15		<0.15		<0.15		<0.15		0.19	J B	<0.15	
trans-1,2-Dichloroethene	*20*	**100**	ug/L	<3.5		<0.35		<0.35		<0.35		<0.35		<0.35		<0.35		<0.35	
trans-1,3-Dichloropropene			ug/L	<3.6		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36		<0.36	
Trichloroethene	*0.5*	**5**	ug/L	<1.6		<0.16		<0.16		<0.16		<0.16		<0.16		<0.16		<0.16	
Trichlorofluoromethane			ug/L	<4.3	*+	<0.43		<0.43		<0.43		<0.43		<0.43	*+	<0.43		<0.43	
Vinyl chloride	*0.02*	**0.2**	ug/L	<2.0		<0.20		<0.20		<0.20		<0.20		<0.20		<0.20		<0.20	
Xylenes, Total	*1000*	**10000**	ug/L	750		<0.22		<0.22		<0.22		<0.22		<0.22		<0.22		<0.22	

	WDNR NR140			MW-107		MW-12		MW-132		MW-136		P-113		TB-1	TB-2	TB-3
Polyaromatic Hydrocarbons	PAL	ES	Units	12/06/23		12/06/23		12/06/23		12/06/23		12/06/23				
1-Methylnaphthalene			ug/L	270		<0.27		<0.24		<0.24		<0.23				
2-Methylnaphthalene			ug/L	440		0.092	J	0.19	J	0.21	J	<0.050				
Acenaphthene			ug/L	140		<0.27		<0.25		0.63	J	1.1				
Acenaphthylene			ug/L	2.2		<0.24		<0.21		<0.22		0.23	J			
Anthracene	*600*	**3000**	ug/L	9.4		<0.30		<0.27		<0.27		<0.26				
Benzo[a]anthracene			ug/L	3.6		<0.050		0.61		<0.046		0.46				
Benzo[a]pyrene	*0.02*	**0.2**	ug/L	**3.5**		<0.087		**0.81**		<0.080		**0.32**				
Benzo[b]fluoranthene	*0.02*	**0.2**	ug/L	**4**		<0.071		**0.97**		<0.065		**0.54**				
Benzo[g,h,i]perylene			ug/L	2.5		<0.33		0.6	J	<0.30		<0.29				
Benzo[k]fluoranthene			ug/L	1.9		<0.057		0.28		<0.051		<0.049				
Chrysene	*0.02*	**0.2**	ug/L	**5.1**		<0.060		**0.56**		<0.055		**0.3**				
Dibenz(a,h)anthracene			ug/L	0.65		<0.045		0.22	J	<0.041		<0.039				
Fluoranthene	*80*	**400**	ug/L	16		<0.40		1.2		0.72	J	1.3				
Fluorene	*80*	**400**	ug/L	58		0.3	J	0.19	J	0.36	J	0.6	J			
Indeno[1,2,3-cd]pyrene			ug/L	2.6		<0.066		0.51		<0.060		0.16				
Naphthalene	*10*	**100**	ug/L	**4600**		<0.27		1.2		2.5		<0.24				
Phenanthrene			ug/L	61		0.43	J	0.6	J	0.99		1.4				
Pyrene	*50*	**250**	ug/L	9.7		<0.38		0.88		0.37	J	0.85				

Natural Attenuation Parameters			Units	12/06/23		12/06/23		12/06/23		12/06/23		12/06/23	
Alkalinity			mg/L	460	B	270	B	260	B	330	B	62	B
Ferrous Iron			mg/L	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF	<0.050	HF
Iron			mg/L	25		<0.082		0.72		<0.082		<0.082	
Manganese			mg/L	0.28		0.33		0.25		0.0071	J	0.015	
Nitrate as N			mg/L	<0.043		0.23	J	0.38	J	0.28	J	0.29	J F1
Sulfate			mg/L	0.75	J	1400		75		660		610	
Methane			ug/L	13000		<1.0		20		<1.0		4.1	

Qualifiers

B Compound was found in the blank and sample.

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

HF Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

H3 Sample was received and analyzed past holding time. This does not meet regulatory requirements.

*+ LCS and/or LCSD is outside acceptance limits, high biased.

*- LCS and/or LCSD is outside acceptance limits, low biased.

^1+ Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

S1- Surrogate recovery exceeds control limits, low biased.

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-122	**Date:** 11/29/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 38°, sunny	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: 751 DSSPro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 5	**Well Depth (ft btoc):** 15
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 11
Initial Water Level (ft btoc / Time): 6.11 / 13.30	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
13:56	6.27	100mL	12.6	6.59	1421	-63.0	1.16		
13:59	6.36		13.2	6.58	1433	-62.1	0.73		
14:02	6.58		13.0	6.57	1440	-62.0	0.53		
14:05	6.74		13.0	6.58	1440	-63.8	0.41		
14:08	6.82		13.1	6.59	1439	-64.6	0.36		
14:11	7.04		13.0	6.58	1441	-64.3	0.33		

Total Volume Purged: 2 L	**Sample Color:** clear
Sample ID: MW-122	**Sample Odor:** None
Sample Time: 14:25	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs			
PAHs			
Fe/Mn			Y
Ferr. Fe			Y
Anions			
Methane			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-101	**Date:** 11-29-23
Project Name: Beazer	
Project No.: 117-ZZ01535.4	**Personnel:** CSL, LLD
Weather Conditions: 30°, sunny	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI DSS Pro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 9.48	**Well Depth (ft btoc):** 19.48
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 13
Initial Water Level (ft btoc / Time): 5.86	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
11:28	6.38	100mL	12.4	7.02	1764	67.5	1.45		
11:31	6.30		12.6	7.02	1813	47.0	1.09		
11:34	6.48		12.8	6.99	1846	33.0	0.87		
11:37	6.41		12.9	6.99	1847	29.2	0.85		
11:40	6.46		13.1	6.98	1852	26.3	0.79		

Total Volume Purged: 2L	**Sample Color:** clear
Sample ID: MW-101	**Sample Odor:** None
Sample Time: 12:00	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs (3)	G		N
PAHs (2)	A		N
Fe/Mn (1)	P		Y
Ferrous Fe (1)	P		Y
Anions (Nitrate, Sulfate, Alkalinity) (1)	P		N
Methane (3)	G		N

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-125	**Date:** 11/30/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 35°, sunny	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI DSS Pro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 7.71	**Well Depth (ft btoc):** 17.71
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 16.5
Initial Water Level (ft btoc / Time): 4.55 / 7:55	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
8:21	4.70	100mL	9.0	7.07	756	-109.9	0.93		
8:24	4.72		9.1	7.07	754	-113.3	0.33		
8:27	4.78		9.1	7.07	756	-114.6	0.25		
8:30	4.70		9.1	7.06	754	-114.8	0.23		
8:33	4.70		9.2	7.07	758	-114.8	0.21		

Total Volume Purged: 2 L	**Sample Color:** clear
Sample ID: MW-125	**Sample Odor:** strong
Sample Time: 8:45	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs (3)	G		N
PAHs (2)	A		N
Methane (3)	G		N
Fe/Mn (1)	P		Y
Ferrous Fe (1)	P		Y
Anions (Nitrate, Sulfate, Alk.) (1)	P		N

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-115	**Date:** 11/30/23
Project Name: Beazer	
Project No.: 117-22015 35.4	**Personnel:** CSL, LLD
Weather Conditions: 35°, sunny	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI DSSPro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 12.28	**Well Depth (ft btoc):** 22.28
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 9
Initial Water Level (ft btoc / Time): 4.69	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
9:37	4.57	100mL	9.4	6.92	2885	76.8	2.19		
9:40	4.98		9.5	6.89	2941	79.7	1.14		
9:43	5.58		9.8	6.86	2980	80.5	0.76		
9:46	6.03		9.7	6.86	2982	80.7	0.65		
9:49	6.46		9.9	6.85	2996	80.7	0.54		
9:52	6.91		9.9	6.85	2996	80.7	0.53		
9:55	7.40		10.0	6.85	3008	80.8	0.51		
9:58	7.63		10.2	6.85	3013	81.2	0.51		
10:01	7.90		10.3	6.85	3022	81.5	0.50		

Total Volume Purged: 3 L	**Sample Color:** clear
Sample ID: MW-115	**Sample Odor:** None
Sample Time: 10:15	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs	G	HCl	N
PAHs	A	NA	N
Methane	G	HCl	N
Fe/Mn	P	HNO_3	Y
Ferr. Fe.	P	NA	Y
Anions	P	NA	N

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: P-103	**Date:** 11/30/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, windy	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI PDS Pro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 40	**Well Depth (ft btoc):** 50
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 45
Initial Water Level (ft btoc / Time): 7.86	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
12:30	6.67	100mL	11.0	8.16	207.6	50.6	4.17		
12:33	7.07		11.1	8.16	205.1	51.1	3.73		
12:36	7.65		11.1	8.21	204.1	50.7	1.87		
12:39	8.22		11.1	8.23	203.9	50.5	1.01		
12:42	8.76		11.1	8.22	203.3	50.5	0.74		· Excessive drawdown
12:45	9.34		11.1	8.22	202.8	50.4	0.71		· Begin pumping dry
12:48	9.88		11.0	8.20	202.1	50.5	0.71		· W.L. stablized
13:20	21.79		11.6	8.00	200.6	59.0	1.28		· Record 3 stable
13:23	22.06		11.5	8.00	200.3	60.1	1.34		readings
13:26	22.26		11.7	8.01	201.1	60.1	1.43		

Total Volume Purged: 4 gal	**Sample Color:**
Sample ID: P-103	**Sample Odor:**
Sample Time: 13:40	**Sample Clarity:**
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs			
PAHs			
Methane			
Fe/Mn			
Ferr. Fe			
Anions			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-111	**Date:** 11/30/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, sunny	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI DSS Pro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 9.09	**Well Depth (ft btoc):** 19.09
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 15
Initial Water Level (ft btoc / Time): 10.95 / 14:00	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
14:18	11.19	600mL	13.3	6.95	779	37.5	1.47		
14:21	11.43		13.4	6.98	785	19.5	0.77		
14:24	11.62		13.4	6.98	782	16.2	0.59		
14:27	11.81		13.4	6.99	775	17.2	0.54		
14:30	11.89		13.2	6.99	765	19.7	0.48		

Total Volume Purged: 2 L	**Sample Color:** clear
Sample ID: MW-111	**Sample Odor:** None
Sample Time: 14:45	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs			
PAHs			
Methane			
Fe/Mn			
ferr. Fe.			
Anions			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-102	**Date:** 11/30/23 (sampled 12/1)
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, windy	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI DSS Pro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 12.27	**Well Depth (ft btoc):** 22.27
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 15
Initial Water Level (ft btoc / Time): 6.09	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
11:13	6.29	100mL	11.5	7.40	849	87.0	1.26		
11:16	7.00		11.6	7.37	843	91.5	0.87		
11:19	7.54		11.8	7.41	842	92.7	1.61		
11:22	7.90		11.8	7.39	841	93.6	1.24		
11:25	8.60		11.9	7.47	840	93.4	1.08		
11:28	8.97		11.8	7.46	835	93.8	1.07		
11:31	9.48		11.9	7.53	834	92.6	0.86		
11:34	9.94		11.9	7.49	836	94.0	1.03		
11:37	10.44		11.9	7.53	835	93.9	0.90		Excessive drawdown
									Pump dry

Total Volume Purged: 2.5 gal	**Sample Color:**
Sample ID: MW-102	**Sample Odor:**
Sample Time: 8:15 (12/1)	**Sample Clarity:**
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs			
PAHs			
Methane			
Fe/Mn			
Ferrous Fe			
Anions			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-105	**Date:** 12/4/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, calm	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 12.28	**Well Depth (ft btoc):** 22.28
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 15
Initial Water Level (ft btoc / Time): 8.21	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
9:47	8.53	100mL	9.9	6.97	948	178.4	1.05		
9:50	9.05		10.1	6.96	955	173.4	0.80		
9:53	9.41		10.1	6.95	952	172.6	0.71		
9:56	9.83		10.2	6.94	947	168.4	0.59		
9:59	10.11		10.2	6.92	943	164.3	0.55		
10:07	10.40		10.2	6.92	9				

Total Volume Purged: 2L	**Sample Color:** clear
Sample ID: MW-105	**Sample Odor:** None
Sample Time: 10:20	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs	G	HCl	N
PAHs	A	NA	N
Methane	G	HCl	N
Fe/Mn	P	HNO_3	Y
Ferr. Fe	P	NA	Y
Anions	P	NA	N

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-129	**Date:** 12/4/23
Project Name: Beazer	
Project No.: 117-220153S.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, overcast	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 12.42	**Well Depth (ft btoc):** 22.42
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 16
Initial Water Level (ft btoc / Time): 10.77	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
11:56	10.76	100mL	10.9	6.94	1312	160.0	2.89		
11:59	10.77		11.1	6.88	1334	161.1	2.21		
12:02	10.76		11.6	6.87	1360	160.3	1.77		
12:05	10.76		11.9	6.87	1372	159.5	1.51		
12:08	10.76		12.1	6.86	1379	158.8	1.38		

Total Volume Purged: 2L	**Sample Color:** V. Lt. Brown
Sample ID: MW-129	**Sample Odor:** Mild
Sample Time: 12:20	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs	G	HCl	N
Methane	G	HCl	N
PAHs	A	NA	N
Anions	P	NA	N
Fe/Mn	P	HNO3	Y
Ferr. Fe	P	NA	Y

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-104	**Date:** 12/4/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, overcast	
Well Purging Equipment: sample Pro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 12.23	**Well Depth (ft btoc):** 22.23
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 15
Initial Water Level (ft btoc / Time): 5.53	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
13:33	5.57	100mL	8.5	7.50	799	122.2	3.73		
13:36	6.03		9.1	7.41	759	128.4	2.33		
13:39	6.51		10.0	7.39	827	131.1	1.90		
13:42	6.98		9.7	7.44	825	132.0	1.44		
13:45	7.49		9.7	7.45	825	132.6	1.31		
13:48	7.92		9.8	7.45	825	133.8	1.23		
13:51	8.20		9.7	7.45	825	134.2	1.13		
13:54	8.48		9.6	7.45	823	135.0	1.11		

Total Volume Purged: 2.5 L	**Sample Color:**
Sample ID: MW-104	**Sample Odor:**
Sample Time: 14:15	**Sample Clarity:**
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
VOCs	G	HCl	N
Methane	G	HCl	N
PAHs	A	NA	N
Fe/Mn	P	HNO3	Y
Ferr. Fe	P	NA	Y
Anions	P	NA	N

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-123	**Date:** 12/4/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 38°, overcast	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 4.83	**Well Depth (ft btoc):** 14.83
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 10
Initial Water Level (ft btoc / Time): 4.14	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
14:54	3.77	100mL	10.1	6.84	3258	-98.5	1.60		
14:57	4.50		10.5	6.93	3373	-108.4	0.74		
15:00	4.89		10.8	7.02	3296	-119.9	0.44		
15:03	5.10		10.9	7.07	3230	-128.5	0.32		
15:06	5.40		11.1	7.13	3205	-134.8	0.31		

Total Volume Purged: 2L	**Sample Color:** clear
Sample ID: MW-123	**Sample Odor:** strong
Sample Time: 15:20	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
See previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-117	**Date:** 12/5/23
Project Name: Beazer	
Project No.: 117-220535.4	**Personnel:** CSL, LLD
Weather Conditions: 35°, Light snow	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 4.79	**Well Depth (ft btoc):** 14.79
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 10
Initial Water Level (ft btoc / Time): 4.79	8:12

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
8:30	4.83	100mL	10.4	7.09	2243	110.5	2.78		
8:33	5.16		10.9	7.07	2258	111.5	2.18		
8:36	5.43		11.2	7.06	2276	111.9	1.74		
8:39	5.77		11.3	7.05	2259	111.9	1.46		
8:42	6.08		11.4	7.05	2275	111.4	1.02		
8:45	6.28		11.5	7.05	2290	111.2	0.95		

Total Volume Purged: 2L	**Sample Color:** V. Lt Brn
Sample ID: MW-117	**Sample Odor:** strong (sharpie)
Sample Time: 9:00	**Sample Clarity:** Clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: P-120	**Date:** 12/5/23
Project Name: Beazer	
Project No.: 117-7701535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, overcast	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI ProDSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 42.16	**Well Depth (ft btoc):** 52.16
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 40
Initial Water Level (ft btoc / Time): 11.01	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
9:35	10.39	100mL	11.9	7.99	508	75.6	1.79		
9:38	12.60		12.3	7.99	513	75.2	1.24		
9:41	13.80		12.3	7.99	513	74.8	1.01		
9:44	15.40		12.2	8.01	512	74.2	0.89		
9:47	16.01		11.8	8.06	504	73.7	0.84		
9:50	16.53		11.2	8.07	499.8	73.4	0.69		
9:53	16.92		11.0	8.09	492.9	73.6	0.64		
9:56	17.20		10.9	8.04	494.7	73.6	0.73		
9:59	17.47		10.8	8.01	493.9	74.1	0.77		

Total Volume Purged: 3.5 L	**Sample Color:**
Sample ID: P-120	**Sample Odor:**
Sample Time: 10:15	**Sample Clarity:**
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
See previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-2	**Date:** 12/5/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 40°, overcast	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 9.55	**Well Depth (ft btoc):** 19.55
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 15
Initial Water Level (ft btoc / Time): 9.06	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Turbidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	Black sediment
10:53	9.12	100ml	8.3	6.86	1555	-24.5	2.93		(organic?)
10:56	9.06		9.1	6.77	1631	-42.1	0.94		
10:59	9.13		9.2	6.74	1646	-44.6	0.63		
11:02	9.14		9.4	6.73	1656	-44.7	0.57		
11:05	9.14		9.4	6.72	1659	-44.2	0.52		

Total Volume Purged: 2 L	**Sample Color:** Clear
Sample ID: MW-2	**Sample Odor:** None
Sample Time: 11:20	**Sample Clarity:** Clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preservative	Filtered (Yes/No)
See previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-1	**Date:** 12/5/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 35°, overcast	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI Pro DDS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 9.69	**Well Depth (ft btoc):** 19.69
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 17
Initial Water Level (ft btoc / Time): 14.62	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
12:31	14.74	100mL	9.8	7.01	1087	62.7	1.82		
12:34	14.83		9.0	7.00	1101	50.7	0.99		
12:37	14.93		11.2	6.97	1109	43.6	0.81		
12:40	15.03		11.3	6.97	1109	39.1	0.87		
12:43	15.14		11.3	6.96	1109	38.9	0.96		

Total Volume Purged: 1.5 L	**Sample Color:** clear
Sample ID: MW-1	**Sample Odor:** none
Sample Time: 13:00	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-131	**Date:** 12/5/23
Project Name: Beazer	
Project No.: 117-220535.4	**Personnel:** CSL, LLD
Weather Conditions: 35°, over cast	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI DSS Pro	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 10.98	**Well Depth (ft btoc):** 20.98
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 18
Initial Water Level (ft btoc / Time): 16.12	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
13:43	16.10	100mL	7.0	6.92	1647	-23.2	1.22		Reddish brown
13:46	16.13		7.1	6.93	1658	-33.4	0.60		
13:49	16.13		7.1	6.93	1639	-39.9	0.34		
13:52	16.13		7.2	6.94	1691	-42.1	0.30		
13:55	16.13		7.1	6.94	1665	-46.3	0.26		

Total Volume Purged: 2L	**Sample Color:** Lt. Reddish Brown
Sample ID: MW-131	**Sample Odor:** None
Sample Time: 14:15	**Sample Clarity:** Clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-107	**Date:** 12/6/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 34°, cloudy	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI ProDSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 12.25	**Well Depth (ft btoc):** 22.25
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):**
Initial Water Level (ft btoc / Time): 8.62 / 8:05	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
8:27	8.68	100mL	9.1	6.83	4422	-77.8	2.07		
8:30	8.66		9.5	6.75	4828	-80.3	1.09		
8:33	8.70		9.8	6.71	4920	-82.7	0.78		
8:36	8.70		10.0	6.70	4957	-84.8	0.65		
8:39	8.70		9.9	6.69	4960	-85.6	0.59		
8:42	8.72		10.1	6.69	4957	-86.2	0.53		

Total Volume Purged: 2 L	**Sample Color:** clear
Sample ID: MW-107	**Sample Odor:** strong
Sample Time: 9:00	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-136	**Date:** 12/6/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 35°, partly sunny	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 4.85	**Well Depth (ft btoc):** 14.85
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 12
Initial Water Level (ft btoc / Time): 11.09 / 9:20	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
9:37	11.09	100mL	8.7	7.80	2056	-24.8	1.92		
9:40	11.17		9.2	7.77	2061	-27.0	1.50		
9:43	11.24		9.5	7.77	2071	-25.9	1.33		
9:46	11.33		9.7	7.77	2075	-22.7	1.29		
9:49	11.42		9.7	7.77	2071	-18.6	1.22		
9:52	11.51		9.8	7.77	2076	-15.7	1.21		

Total Volume Purged: 2L	**Sample Color:** clear
Sample ID: MW-136	**Sample Odor:** None
Sample Time: 10:10	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-137	**Date:** 12/6/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 36°, partly cloudy	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 2.60	**Well Depth (ft btoc):** 12 60
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 10
Initial Water Level (ft btoc / Time): 6.13	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
10:40	6.16	100mL	7.5	6.66	4173	-64.3	1.80		Brown, turbid
10:43	6.30		7.6	6.64	4021	-41.3	1.53		clearing
10:46	6.35		7.7	6.69	3825	-33.2	1.44		
10:49	6.44		7.7	6.74	3581	-31.5	1.60		
10:52	6.50		7.7	6.83	3497	-28.2	1.80		
10:55	6.48		7.8	6.88	3400	-24.4	2.01		
10:58	6.55		7.9	6.94	3322	-16.8	2.21		

Total Volume Purged: 2L	**Sample Color:** V. Lt Brn
Sample ID: MW-137	**Sample Odor:** None
Sample Time: 11:15	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: MW-112	**Date:** 12/6/23
Project Name: Beazer	
Project No.: 117-220535.4	**Personnel:** CSL, LLD
Weather Conditions: 36°, mostly sunny	
Well Purging Equipment: Sample Pro	
Field Water Quality Instruments: YSI Pro DSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 9.63	**Well Depth (ft btoc):** 19.63
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 15
Initial Water Level (ft btoc / Time): 7.54 / 12:05	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			**+/- 3%**	**+/- 0.1**	**+/- 3%**	**+/- 10 mV**	**+/- 10%**	**+/- 10%**	
12:21	7.54	100mL	9.9	7.17	3673	114.8	1.72		
12:24	7.78		10.2	7.15	3754	112.5	0.90		
12:27	8.28		10.7	7.15	3829	107.9	0.60		
12:30	8.69		10.7	7.15	3836	105.8	0.56		
12:33	8.97		10.5	7.15	3816	103.7	0.49		
12:36	9.21		10.6	7.15	3814	101.2	0.45		

Total Volume Purged: 2L	**Sample Color:** clear
Sample ID: MW-112	**Sample Odor:** none
Sample Time: 12:50	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

TETRA TECH LOW-FLOW PURGING FIELD WATER QUALITY PARAMETERS DATA SHEET

Well ID: P-113	**Date:** 12/6/23
Project Name: Beazer	
Project No.: 117-2201535.4	**Personnel:** CSL, LLD
Weather Conditions: 38°, partly cloudy	
Well Purging Equipment: SamplePro	
Field Water Quality Instruments: YSI ProDSS	
Water Level Meter: Heron	
Top of Screen Depth (ft btoc): 39.92	**Well Depth (ft btoc):** 49.92
Screen Length (feet): 10	**Pump/Tubing Inlet Depth (ft btoc):** 45
Initial Water Level (ft btoc / Time): 7.72 / 13:05	

Time	Water Level (ft btoc)	Flow Rate (L/min)	Temp. (°C)	pH (s.u.)	Specific Cond. (µS/cm)	ORP (mV)	DO (ppm)	Tur-bidity (NTU)	Visual & Olfactory Observations / Notes
Stabilization Criteria			+/- 3%	+/- 0.1	+/- 3%	+/- 10 mV	+/- 10%	+/- 10%	
13:10	6.72	100mL	8.7	7.88	1203	93.1	57.1		
13:13	7.31		9.0	7.72	1152	99.1	4.37		
13:16	7.89		9.2	7.82	1154	95.7	2.17		
13:19	8.29		9.4	7.94	1154	91.2	1.36		
13:22	8.57		9.4	7.97	1150	89.3	1.22		
13:25	8.84		9.4	7.99	1147	87.6	1.10		

Total Volume Purged: 2L	**Sample Color:** clear
Sample ID: P-113	**Sample Odor:** None
Sample Time: 14:00	**Sample Clarity:** clear
Laboratory: Eurofins	

Parameters / Analytical Methods	Container(s) Type & No. A=Amber; G=Glass; P= Plastic	Preserv-ative	Filtered (Yes/No)
see previous			

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 12/15/2023 3:44:08 PM

JOB DESCRIPTION

Beazer Oak Creek

JOB NUMBER

500-243134-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/15/2023 3:44:08 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job ID: 500-243134-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-243134-1

Receipt
The samples were received on 11/30/23 10:00. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.4º C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 500-744924 contained Naphthalene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

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

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

GC VOA
Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-122 (500-243134-2). Elevated reporting limits (RLs) are provided.

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

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

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

General Chemistry
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: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Client Sample ID: MW-101 — Lab Sample ID: 500-243134-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.081	J	0.15	0.074	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.12	J	0.15	0.061	ug/L	1		8270E	Total/NA
Methane	46		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.089	J	0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.16		0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.22	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	95		5.0	1.0	mg/L	5		300.0	Total/NA
Alkalinity	440		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-122 — Lab Sample ID: 500-243134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	18		1.0	0.36	ug/L	1		8260D	Total/NA
Benzene	23		0.50	0.15	ug/L	1		8260D	Total/NA
Ethylbenzene	93		0.50	0.18	ug/L	1		8260D	Total/NA
Isopropylbenzene	11		1.0	0.39	ug/L	1		8260D	Total/NA
N-Propylbenzene	0.97	J	1.0	0.41	ug/L	1		8260D	Total/NA
Toluene	3.4		0.50	0.15	ug/L	1		8260D	Total/NA
Xylenes, Total	16		1.0	0.22	ug/L	1		8260D	Total/NA
Naphthalene - DL	650	B	10	3.4	ug/L	10		8260D	Total/NA
2-Methylnaphthalene	3.3		1.5	0.050	ug/L	1		8270E	Total/NA
Acenaphthene	90		0.77	0.24	ug/L	1		8270E	Total/NA
Acenaphthylene	1.1		0.77	0.21	ug/L	1		8270E	Total/NA
Anthracene	4.5		0.77	0.26	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.50		0.15	0.044	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.66		0.15	0.076	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.72		0.15	0.062	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.53	J	0.77	0.29	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.30		0.15	0.049	ug/L	1		8270E	Total/NA
Chrysene	0.62		0.15	0.053	ug/L	1		8270E	Total/NA
Fluoranthene	4.2		0.77	0.35	ug/L	1		8270E	Total/NA
Fluorene	44		0.77	0.19	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.56		0.15	0.058	ug/L	1		8270E	Total/NA
Phenanthrene	39		0.77	0.23	ug/L	1		8270E	Total/NA
Pyrene	3.1		0.77	0.33	ug/L	1		8270E	Total/NA
1-Methylnaphthalene - DL	88		15	2.3	ug/L	10		8270E	Total/NA
Naphthalene - DL	380		7.7	2.4	ug/L	10		8270E	Total/NA
Methane	250		88	22	ug/L	22		RSK-175	Total/NA
Iron	11		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	1.1		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	2.8		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	530		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010D	Metals (ICP)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 3500 Fe B	Iron, Ferrous	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243134-1	MW-101	Water	11/29/23 12:00	11/30/23 10:00
500-243134-2	MW-122	Water	11/29/23 14:25	11/30/23 10:00

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Client Sample ID: MW-101
Date Collected: 11/29/23 12:00
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/01/23 12:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/01/23 12:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/01/23 12:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/01/23 12:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/01/23 12:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/01/23 12:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/01/23 12:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/01/23 12:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/01/23 12:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/01/23 12:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/01/23 12:25	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/01/23 12:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/01/23 12:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/01/23 12:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/01/23 12:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/01/23 12:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/01/23 12:25	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/01/23 12:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/01/23 12:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/01/23 12:25	1
Benzene	<0.15		0.50	0.15	ug/L			12/01/23 12:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/01/23 12:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/01/23 12:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/01/23 12:25	1
Bromoform	<0.48		1.0	0.48	ug/L			12/01/23 12:25	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/01/23 12:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/01/23 12:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/01/23 12:25	1
Chloroform	<0.37		2.0	0.37	ug/L			12/01/23 12:25	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/01/23 12:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/01/23 12:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/01/23 12:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/01/23 12:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/01/23 12:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/01/23 12:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/01/23 12:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/01/23 12:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/01/23 12:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/01/23 12:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/01/23 12:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/01/23 12:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/01/23 12:25	1

Client Sample ID: MW-101
Date Collected: 11/29/23 12:00
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/01/23 12:25	1
Styrene	<0.39		1.0	0.39	ug/L			12/01/23 12:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/01/23 12:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/01/23 12:25	1
Toluene	<0.15		0.50	0.15	ug/L			12/01/23 12:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/01/23 12:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/01/23 12:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/01/23 12:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/01/23 12:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/01/23 12:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/01/23 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*12/01/23 12:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/01/23 12:25*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*12/01/23 12:25*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*12/01/23 12:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		12/01/23 12:01	12/04/23 16:41	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		12/01/23 12:01	12/04/23 16:41	1
Acenaphthene	<0.23		0.75	0.23	ug/L		12/01/23 12:01	12/04/23 16:41	1
Acenaphthylene	<0.20		0.75	0.20	ug/L		12/01/23 12:01	12/04/23 16:41	1
Anthracene	<0.25		0.75	0.25	ug/L		12/01/23 12:01	12/04/23 16:41	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		12/01/23 12:01	12/04/23 16:41	1
Benzo[a]pyrene	**0.081**	**J**	0.15	0.074	ug/L		12/01/23 12:01	12/04/23 16:41	1
Benzo[b]fluoranthene	**0.12**	**J**	0.15	0.061	ug/L		12/01/23 12:01	12/04/23 16:41	1
Benzo[g,h,i]perylene	<0.28		0.75	0.28	ug/L		12/01/23 12:01	12/04/23 16:41	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		12/01/23 12:01	12/04/23 16:41	1
Chrysene	<0.051		0.15	0.051	ug/L		12/01/23 12:01	12/04/23 16:41	1
Dibenz(a,h)anthracene	<0.038		0.23	0.038	ug/L		12/01/23 12:01	12/04/23 16:41	1
Fluoranthene	<0.34		0.75	0.34	ug/L		12/01/23 12:01	12/04/23 16:41	1
Fluorene	<0.18		0.75	0.18	ug/L		12/01/23 12:01	12/04/23 16:41	1
Indeno[1,2,3-cd]pyrene	<0.056		0.15	0.056	ug/L		12/01/23 12:01	12/04/23 16:41	1
Naphthalene	<0.23		0.75	0.23	ug/L		12/01/23 12:01	12/04/23 16:41	1
Phenanthrene	<0.23		0.75	0.23	ug/L		12/01/23 12:01	12/04/23 16:41	1
Pyrene	<0.32		0.75	0.32	ug/L		12/01/23 12:01	12/04/23 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/01/23 12:01*	*12/04/23 16:41*	*1*
2-Fluorobiphenyl (Surr)	*74*		*34 - 110*	*12/01/23 12:01*	*12/04/23 16:41*	*1*
Terphenyl-d14 (Surr)	*114*		*40 - 145*	*12/01/23 12:01*	*12/04/23 16:41*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**46**		4.0	1.0	ug/L			12/05/23 08:48	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.089**	**J**	0.20	0.082	mg/L		12/07/23 09:18	12/14/23 20:48	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Client Sample ID: MW-101
Date Collected: 11/29/23 12:00
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-1
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.16		0.010	0.0023	mg/L		12/07/23 09:18	12/14/23 20:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.22	J	1.0	0.043	mg/L			11/30/23 19:56	1
Sulfate (EPA 300.0)	95		5.0	1.0	mg/L			12/01/23 14:42	5
Alkalinity (SM 2320B)	440		5.0	3.7	mg/L			12/08/23 15:10	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/04/23 03:08	1

Client Sample ID: MW-122
Date Collected: 11/29/23 14:25
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/01/23 12:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/01/23 12:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/01/23 12:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/01/23 12:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/01/23 12:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/01/23 12:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/01/23 12:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/01/23 12:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/01/23 12:49	1
1,2,4-Trimethylbenzene	**18**		1.0	0.36	ug/L			12/01/23 12:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/01/23 12:49	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/01/23 12:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/01/23 12:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/01/23 12:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/01/23 12:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/01/23 12:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/01/23 12:49	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/01/23 12:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/01/23 12:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/01/23 12:49	1
Benzene	**23**		0.50	0.15	ug/L			12/01/23 12:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/01/23 12:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/01/23 12:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/01/23 12:49	1
Bromoform	<0.48		1.0	0.48	ug/L			12/01/23 12:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/01/23 12:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/01/23 12:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/01/23 12:49	1
Chloroform	<0.37		2.0	0.37	ug/L			12/01/23 12:49	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/01/23 12:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/01/23 12:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/01/23 12:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/01/23 12:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/01/23 12:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/01/23 12:49	1
Ethylbenzene	**93**		0.50	0.18	ug/L			12/01/23 12:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/01/23 12:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/01/23 12:49	1
Isopropylbenzene	**11**		1.0	0.39	ug/L			12/01/23 12:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/01/23 12:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
N-Propylbenzene	**0.97**	**J**	1.0	0.41	ug/L			12/01/23 12:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/01/23 12:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/01/23 12:49	1

Client Sample ID: MW-122

Date Collected: 11/29/23 14:25
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-2

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			12/01/23 12:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/01/23 12:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/01/23 12:49	1
Toluene	**3.4**		0.50	0.15	ug/L			12/01/23 12:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/01/23 12:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/01/23 12:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/01/23 12:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/01/23 12:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/01/23 12:49	1
Xylenes, Total	**16**		1.0	0.22	ug/L			12/01/23 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*12/01/23 12:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*12/01/23 12:49*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*12/01/23 12:49*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*12/01/23 12:49*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**650**	**B**	10	3.4	ug/L			12/04/23 12:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/04/23 12:22*	*10*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*12/04/23 12:22*	*10*
Dibromofluoromethane	*98*		*75 - 120*		*12/04/23 12:22*	*10*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/04/23 12:22*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**3.3**		1.5	0.050	ug/L		12/01/23 12:01	12/04/23 17:02	1
Acenaphthene	**90**		0.77	0.24	ug/L		12/01/23 12:01	12/04/23 17:02	1
Acenaphthylene	**1.1**		0.77	0.21	ug/L		12/01/23 12:01	12/04/23 17:02	1
Anthracene	**4.5**		0.77	0.26	ug/L		12/01/23 12:01	12/04/23 17:02	1
Benzo[a]anthracene	**0.50**		0.15	0.044	ug/L		12/01/23 12:01	12/04/23 17:02	1
Benzo[a]pyrene	**0.66**		0.15	0.076	ug/L		12/01/23 12:01	12/04/23 17:02	1
Benzo[b]fluoranthene	**0.72**		0.15	0.062	ug/L		12/01/23 12:01	12/04/23 17:02	1
Benzo[g,h,i]perylene	**0.53**	**J**	0.77	0.29	ug/L		12/01/23 12:01	12/04/23 17:02	1
Benzo[k]fluoranthene	**0.30**		0.15	0.049	ug/L		12/01/23 12:01	12/04/23 17:02	1
Chrysene	**0.62**		0.15	0.053	ug/L		12/01/23 12:01	12/04/23 17:02	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		12/01/23 12:01	12/04/23 17:02	1
Fluoranthene	**4.2**		0.77	0.35	ug/L		12/01/23 12:01	12/04/23 17:02	1
Fluorene	**44**		0.77	0.19	ug/L		12/01/23 12:01	12/04/23 17:02	1
Indeno[1,2,3-cd]pyrene	**0.56**		0.15	0.058	ug/L		12/01/23 12:01	12/04/23 17:02	1
Phenanthrene	**39**		0.77	0.23	ug/L		12/01/23 12:01	12/04/23 17:02	1
Pyrene	**3.1**		0.77	0.33	ug/L		12/01/23 12:01	12/04/23 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*36 - 120*	*12/01/23 12:01*	*12/04/23 17:02*	*1*
2-Fluorobiphenyl (Surr)	*76*		*34 - 110*	*12/01/23 12:01*	*12/04/23 17:02*	*1*
Terphenyl-d14 (Surr)	*111*		*40 - 145*	*12/01/23 12:01*	*12/04/23 17:02*	*1*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Client Sample ID: MW-122

Date Collected: 11/29/23 14:25
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-2

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	88		15	2.3	ug/L		12/01/23 12:01	12/05/23 18:33	10
Naphthalene	380		7.7	2.4	ug/L		12/01/23 12:01	12/05/23 18:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*67*		*36 - 120*	*12/01/23 12:01*	*12/05/23 18:33*	*10*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*12/01/23 12:01*	*12/05/23 18:33*	*10*
Terphenyl-d14 (Surr)	*100*		*40 - 145*	*12/01/23 12:01*	*12/05/23 18:33*	*10*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	250		88	22	ug/L			12/05/23 09:07	22

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11		0.20	0.082	mg/L		12/07/23 09:18	12/14/23 20:52	1
Manganese	1.1		0.010	0.0023	mg/L		12/07/23 09:18	12/14/23 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			11/30/23 20:11	1
Sulfate (EPA 300.0)	2.8		1.0	0.21	mg/L			11/30/23 20:11	1
Alkalinity (SM 2320B)	530		5.0	3.7	mg/L			12/08/23 15:29	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/04/23 03:14	1

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

Metals

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.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: 744581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	8260D	
500-243134-2	MW-122	Total/NA	Water	8260D	
MB 500-744581/6	Method Blank	Total/NA	Water	8260D	
LCS 500-744581/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 744924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-2 - DL	MW-122	Total/NA	Water	8260D	
MB 500-744924/7	Method Blank	Total/NA	Water	8260D	
LCS 500-744924/4	Lab Control Sample	Total/NA	Water	8260D	
500-243134-2 MS - DL	MW-122	Total/NA	Water	8260D	
500-243134-2 MSD - DL	MW-122	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 744700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	3510C	
500-243134-2	MW-122	Total/NA	Water	3510C	
500-243134-2 - DL	MW-122	Total/NA	Water	3510C	
MB 500-744700/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-744700/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-744700/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 744911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	8270E	744700
500-243134-2	MW-122	Total/NA	Water	8270E	744700
MB 500-744700/1-A	Method Blank	Total/NA	Water	8270E	744700
LCS 500-744700/2-A	Lab Control Sample	Total/NA	Water	8270E	744700
LCSD 500-744700/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	744700

Analysis Batch: 745100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-2 - DL	MW-122	Total/NA	Water	8270E	744700

GC VOA

Analysis Batch: 694251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	RSK-175	
500-243134-2	MW-122	Total/NA	Water	RSK-175	
MB 480-694251/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694251/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-694251/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 745616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Dissolved	Water	3005A	
500-243134-2	MW-122	Dissolved	Water	3005A	

Metals (Continued)

Prep Batch: 745616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-745616/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-745616/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 746896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Dissolved	Water	6010D	745616
500-243134-2	MW-122	Dissolved	Water	6010D	745616
MB 500-745616/1-A	Method Blank	Total Recoverable	Water	6010D	745616
LCS 500-745616/2-A	Lab Control Sample	Total Recoverable	Water	6010D	745616

General Chemistry

Analysis Batch: 744413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-2	MW-122	Total/NA	Water	300.0	
MB 500-744413/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744413/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	300.0	
500-243134-2	MW-122	Total/NA	Water	300.0	
MB 500-744414/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744414/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	300.0	
MB 500-744624/9	Method Blank	Total/NA	Water	300.0	
LCS 500-744624/10	Lab Control Sample	Total/NA	Water	300.0	
LCSD 500-744624/11	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 744861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Dissolved	Water	SM 3500 Fe B	
500-243134-2	MW-122	Dissolved	Water	SM 3500 Fe B	
MB 500-744861/1	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 500-744861/2	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
500-243134-1 MS	MW-101	Dissolved	Water	SM 3500 Fe B	
500-243134-1 MSD	MW-101	Dissolved	Water	SM 3500 Fe B	

Analysis Batch: 746041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243134-1	MW-101	Total/NA	Water	SM 2320B	
500-243134-2	MW-122	Total/NA	Water	SM 2320B	
MB 500-746041/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-746041/3	Lab Control Sample	Total/NA	Water	SM 2320B	
500-243134-1 DU	MW-101	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Method: 8260D - 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	(75-126)	(72-124)	(75-120)	(75-120)
500-243134-1	MW-101	98	100	101	91
500-243134-2	MW-122	99	102	101	89
500-243134-2 - DL	MW-122	96	98	98	92
500-243134-2 MS - DL	MW-122	92	94	98	93
500-243134-2 MSD - DL	MW-122	96	106	95	89
LCS 500-744581/4	Lab Control Sample	93	105	96	93
LCS 500-744924/4	Lab Control Sample	101	98	99	91
MB 500-744581/6	Method Blank	97	97	101	90
MB 500-744924/7	Method Blank	100	99	96	89

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-243134-1	MW-101	74	74	114
500-243134-2	MW-122	74	76	111
500-243134-2 - DL	MW-122	67	68	100
LCS 500-744700/2-A	Lab Control Sample	85	84	110
LCSD 500-744700/3-A	Lab Control Sample Dup	80	81	105
MB 500-744700/1-A	Method Blank	68	65	105

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-744581/6
Matrix: Water
Analysis Batch: 744581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/01/23 10:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/01/23 10:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/01/23 10:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/01/23 10:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/01/23 10:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/01/23 10:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/01/23 10:49	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/01/23 10:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/01/23 10:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/01/23 10:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/01/23 10:49	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/01/23 10:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/01/23 10:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/01/23 10:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/01/23 10:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/01/23 10:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/01/23 10:49	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/01/23 10:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/01/23 10:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/01/23 10:49	1
Benzene	<0.15		0.50	0.15	ug/L			12/01/23 10:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/01/23 10:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/01/23 10:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/01/23 10:49	1
Bromoform	<0.48		1.0	0.48	ug/L			12/01/23 10:49	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/01/23 10:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/01/23 10:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/01/23 10:49	1
Chloroform	<0.37		2.0	0.37	ug/L			12/01/23 10:49	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/01/23 10:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/01/23 10:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/01/23 10:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/01/23 10:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/01/23 10:49	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/01/23 10:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/01/23 10:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/01/23 10:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/01/23 10:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/01/23 10:49	1
Naphthalene	0.402	J	1.0	0.34	ug/L			12/01/23 10:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/01/23 10:49	1

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

Lab Sample ID: MB 500-744581/6
Matrix: Water
Analysis Batch: 744581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/01/23 10:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/01/23 10:49	1
Styrene	<0.39		1.0	0.39	ug/L			12/01/23 10:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/01/23 10:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/01/23 10:49	1
Toluene	<0.15		0.50	0.15	ug/L			12/01/23 10:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/01/23 10:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/01/23 10:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/01/23 10:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/01/23 10:49	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/01/23 10:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/01/23 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*12/01/23 10:49*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*12/01/23 10:49*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*12/01/23 10:49*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*12/01/23 10:49*	*1*

Lab Sample ID: LCS 500-744581/4
Matrix: Water
Analysis Batch: 744581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	47.6		ug/L		95	70 - 125
1,1,1-Trichloroethane	50.0	46.9		ug/L		94	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	62 - 140
1,1,2-Trichloroethane	50.0	45.9		ug/L		92	71 - 130
1,1-Dichloroethane	50.0	52.1		ug/L		104	70 - 125
1,1-Dichloroethene	50.0	47.0		ug/L		94	67 - 122
1,1-Dichloropropene	50.0	49.7		ug/L		99	70 - 121
1,2,3-Trichlorobenzene	50.0	29.1		ug/L		58	51 - 145
1,2,3-Trichloropropane	50.0	49.5		ug/L		99	50 - 133
1,2,4-Trichlorobenzene	50.0	32.8		ug/L		66	57 - 137
1,2,4-Trimethylbenzene	50.0	50.2		ug/L		100	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	56 - 123
1,2-Dibromoethane (EDB)	50.0	44.7		ug/L		89	70 - 125
1,2-Dichlorobenzene	50.0	45.4		ug/L		91	70 - 125
1,2-Dichloroethane	50.0	47.6		ug/L		95	68 - 127
1,2-Dichloropropane	50.0	52.0		ug/L		104	67 - 130
1,3,5-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 123
1,3-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	48.0		ug/L		96	62 - 136
1,4-Dichlorobenzene	50.0	46.0		ug/L		92	70 - 120
2,2-Dichloropropane	50.0	59.2		ug/L		118	58 - 139
2-Chlorotoluene	50.0	50.5		ug/L		101	70 - 125
4-Chlorotoluene	50.0	51.7		ug/L		103	68 - 124
Benzene	50.0	48.0		ug/L		96	70 - 120

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

Lab Sample ID: LCS 500-744581/4
Matrix: Water
Analysis Batch: 744581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	49.7		ug/L		99	70 - 122
Bromochloromethane	50.0	46.5		ug/L		93	65 - 122
Bromodichloromethane	50.0	49.2		ug/L		98	69 - 120
Bromoform	50.0	53.2		ug/L		106	56 - 132
Bromomethane	50.0	74.7		ug/L		149	40 - 152
Carbon tetrachloride	50.0	52.6		ug/L		105	59 - 133
Chlorobenzene	50.0	46.5		ug/L		93	70 - 120
Chloroethane	50.0	56.0		ug/L		112	48 - 136
Chloroform	50.0	46.2		ug/L		92	70 - 120
Chloromethane	50.0	64.5		ug/L		129	56 - 152
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	70 - 125
cis-1,3-Dichloropropene	50.0	46.6		ug/L		93	64 - 127
Dibromochloromethane	50.0	50.7		ug/L		101	68 - 125
Dibromomethane	50.0	47.7		ug/L		95	70 - 120
Dichlorodifluoromethane	50.0	48.4		ug/L		97	40 - 159
Ethylbenzene	50.0	46.7		ug/L		93	70 - 123
Hexachlorobutadiene	50.0	27.3		ug/L		55	51 - 150
Isopropylbenzene	50.0	50.4		ug/L		101	70 - 126
Methyl tert-butyl ether	50.0	41.4		ug/L		83	55 - 123
Methylene Chloride	50.0	47.6		ug/L		95	69 - 125
Naphthalene	50.0	34.0		ug/L		68	53 - 144
n-Butylbenzene	50.0	46.5		ug/L		93	68 - 125
N-Propylbenzene	50.0	52.5		ug/L		105	69 - 127
p-Isopropyltoluene	50.0	47.7		ug/L		95	70 - 125
sec-Butylbenzene	50.0	48.7		ug/L		97	70 - 123
Styrene	50.0	48.9		ug/L		98	70 - 120
tert-Butylbenzene	50.0	49.3		ug/L		99	70 - 121
Tetrachloroethene	50.0	42.4		ug/L		85	70 - 128
Toluene	50.0	48.7		ug/L		97	70 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	70 - 125
trans-1,3-Dichloropropene	50.0	47.2		ug/L		94	62 - 128
Trichloroethene	50.0	46.7		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	51.5		ug/L		103	55 - 128
Vinyl chloride	50.0	55.8		ug/L		112	64 - 126
Xylenes, Total	100	95.2		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*
Dibromofluoromethane	*96*		*75 - 120*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: MB 500-744924/7
Matrix: Water
Analysis Batch: 744924

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.657	J	1.0	0.34	ug/L			12/04/23 11:36	1

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

Lab Sample ID: MB 500-744924/7
Matrix: Water
Analysis Batch: 744924

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 126		12/04/23 11:36	1
4-Bromofluorobenzene (Surr)	99		72 - 124		12/04/23 11:36	1
Dibromofluoromethane	96		75 - 120		12/04/23 11:36	1
Toluene-d8 (Surr)	89		75 - 120		12/04/23 11:36	1

Lab Sample ID: LCS 500-744924/4
Matrix: Water
Analysis Batch: 744924

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene			50.0	55.1		ug/L		110	53 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 126
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane	99		75 - 120
Toluene-d8 (Surr)	91		75 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 500-243134-2 MS
Matrix: Water
Analysis Batch: 744924

Client Sample ID: MW-122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Naphthalene - DL	650	B	500	1350		ug/L		139	53 - 144		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	92		75 - 126
4-Bromofluorobenzene (Surr) - DL	94		72 - 124
Dibromofluoromethane - DL	98		75 - 120
Toluene-d8 (Surr) - DL	93		75 - 120

Lab Sample ID: 500-243134-2 MSD
Matrix: Water
Analysis Batch: 744924

Client Sample ID: MW-122
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene - DL	650	B	500	1310		ug/L		133	53 - 144	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	96		75 - 126
4-Bromofluorobenzene (Surr) - DL	106		72 - 124
Dibromofluoromethane - DL	95		75 - 120
Toluene-d8 (Surr) - DL	89		75 - 120

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

Lab Sample ID: MB 500-744700/1-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/01/23 12:01	12/04/23 12:21	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/01/23 12:01	12/04/23 12:21	1
Acenaphthene	<0.25		0.80	0.25	ug/L		12/01/23 12:01	12/04/23 12:21	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/01/23 12:01	12/04/23 12:21	1
Anthracene	<0.27		0.80	0.27	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/01/23 12:01	12/04/23 12:21	1
Chrysene	<0.055		0.16	0.055	ug/L		12/01/23 12:01	12/04/23 12:21	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/01/23 12:01	12/04/23 12:21	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/01/23 12:01	12/04/23 12:21	1
Fluorene	<0.20		0.80	0.20	ug/L		12/01/23 12:01	12/04/23 12:21	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/01/23 12:01	12/04/23 12:21	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/01/23 12:01	12/04/23 12:21	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/01/23 12:01	12/04/23 12:21	1
Pyrene	<0.34		0.80	0.34	ug/L		12/01/23 12:01	12/04/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*12/01/23 12:01*	*12/04/23 12:21*	*1*
2-Fluorobiphenyl (Surr)	*65*		*34 - 110*	*12/01/23 12:01*	*12/04/23 12:21*	*1*
Terphenyl-d14 (Surr)	*105*		*40 - 145*	*12/01/23 12:01*	*12/04/23 12:21*	*1*

Lab Sample ID: LCS 500-744700/2-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	32.0	25.8		ug/L		81	38 - 110
2-Methylnaphthalene	32.0	25.6		ug/L		80	34 - 110
Acenaphthene	32.0	26.3		ug/L		82	46 - 110
Acenaphthylene	32.0	26.6		ug/L		83	47 - 113
Anthracene	32.0	29.3		ug/L		92	67 - 118
Benzo[a]anthracene	32.0	31.5		ug/L		99	70 - 126
Benzo[a]pyrene	32.0	34.6		ug/L		108	70 - 135
Benzo[b]fluoranthene	32.0	35.7		ug/L		112	69 - 136
Benzo[g,h,i]perylene	32.0	33.7		ug/L		105	70 - 135
Benzo[k]fluoranthene	32.0	34.1		ug/L		107	70 - 133
Chrysene	32.0	32.8		ug/L		102	68 - 129
Dibenz(a,h)anthracene	32.0	36.6		ug/L		114	70 - 134
Fluoranthene	32.0	29.7		ug/L		93	68 - 126
Fluorene	32.0	26.9		ug/L		84	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.9		ug/L		112	65 - 133
Naphthalene	32.0	24.2		ug/L		76	36 - 110
Phenanthrene	32.0	29.9		ug/L		94	65 - 120
Pyrene	32.0	34.6		ug/L		108	70 - 126

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

Lab Sample ID: LCS 500-744700/2-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744700

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	85		36 - 120
2-Fluorobiphenyl (Surr)	84		34 - 110
Terphenyl-d14 (Surr)	110		40 - 145

Lab Sample ID: LCSD 500-744700/3-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 744700

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	24.6		ug/L		77	38 - 110	5	20
2-Methylnaphthalene			32.0	24.3		ug/L		76	34 - 110	5	20
Acenaphthene			32.0	25.4		ug/L		79	46 - 110	3	20
Acenaphthylene			32.0	25.8		ug/L		81	47 - 113	3	20
Anthracene			32.0	28.8		ug/L		90	67 - 118	2	20
Benzo[a]anthracene			32.0	30.6		ug/L		96	70 - 126	3	20
Benzo[a]pyrene			32.0	33.8		ug/L		106	70 - 135	2	20
Benzo[b]fluoranthene			32.0	34.6		ug/L		108	69 - 136	3	20
Benzo[g,h,i]perylene			32.0	32.1		ug/L		100	70 - 135	5	20
Benzo[k]fluoranthene			32.0	33.5		ug/L		105	70 - 133	2	20
Chrysene			32.0	32.5		ug/L		101	68 - 129	1	20
Dibenz(a,h)anthracene			32.0	34.5		ug/L		108	70 - 134	6	20
Fluoranthene			32.0	28.9		ug/L		90	68 - 126	3	20
Fluorene			32.0	26.6		ug/L		83	53 - 120	1	20
Indeno[1,2,3-cd]pyrene			32.0	34.9		ug/L		109	65 - 133	3	20
Naphthalene			32.0	22.7		ug/L		71	36 - 110	6	20
Phenanthrene			32.0	28.9		ug/L		90	65 - 120	4	20
Pyrene			32.0	33.7		ug/L		105	70 - 126	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	80		36 - 120
2-Fluorobiphenyl (Surr)	81		34 - 110
Terphenyl-d14 (Surr)	105		40 - 145

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-694251/3
Matrix: Water
Analysis Batch: 694251

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/05/23 07:32	1

Lab Sample ID: LCS 480-694251/4
Matrix: Water
Analysis Batch: 694251

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.5	22.0		ug/L		113	85 - 120		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 480-694251/5
Matrix: Water
Analysis Batch: 694251

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.5	21.2		ug/L		109	85 - 120	4	50

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-745616/1-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/07/23 09:18	12/14/23 20:39	1
Manganese	<0.0023		0.010	0.0023	mg/L		12/07/23 09:18	12/14/23 20:39	1

Lab Sample ID: LCS 500-745616/2-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.02		mg/L		102	80 - 120
Manganese	0.500	0.505		mg/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-744413/3
Matrix: Water
Analysis Batch: 744413

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			11/30/23 17:40	1

Lab Sample ID: LCS 500-744413/4
Matrix: Water
Analysis Batch: 744413

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.3		mg/L		101	90 - 110

Lab Sample ID: MB 500-744414/3
Matrix: Water
Analysis Batch: 744414

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			11/30/23 17:40	1

Lab Sample ID: LCS 500-744414/4
Matrix: Water
Analysis Batch: 744414

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.3		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-744624/9
Matrix: Water
Analysis Batch: 744624

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/01/23 10:01	1

Lab Sample ID: LCS 500-744624/10
Matrix: Water
Analysis Batch: 744624

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: LCSD 500-744624/11
Matrix: Water
Analysis Batch: 744624

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	20.0	20.4		mg/L		102	90 - 110	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-746041/2
Matrix: Water
Analysis Batch: 746041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			12/08/23 12:39	1

Lab Sample ID: LCS 500-746041/3
Matrix: Water
Analysis Batch: 746041

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	97.6		mg/L		98	90 - 110

Lab Sample ID: 500-243134-1 DU
Matrix: Water
Analysis Batch: 746041

Client Sample ID: MW-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	440		437		mg/L		0.3	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 500-744861/1
Matrix: Water
Analysis Batch: 744861

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.050		0.050	0.050	mg/L			12/04/23 03:04	1

Method: SM 3500 Fe B - Iron, Ferrous (Continued)

Lab Sample ID: LCS 500-744861/2
Matrix: Water
Analysis Batch: 744861

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			0.500	0.500		mg/L		100	80 - 120		

Lab Sample ID: 500-243134-1 MS
Matrix: Water
Analysis Batch: 744861

Client Sample ID: MW-101
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	<0.050	HF	0.500	0.500		mg/L		100	75 - 125		

Lab Sample ID: 500-243134-1 MSD
Matrix: Water
Analysis Batch: 744861

Client Sample ID: MW-101
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	<0.050	HF	0.500	0.500		mg/L		100	75 - 125	0	20

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Client Sample ID: MW-101

Date Collected: 11/29/23 12:00
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	744581	W1T	EET CHI	12/01/23 12:25
Total/NA	Prep	3510C			744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E		1	744911	SS	EET CHI	12/04/23 16:41
Total/NA	Analysis	RSK-175		1	694251	JLS	EET BUF	12/05/23 08:48
Dissolved	Prep	3005A			745616	BDE	EET CHI	12/07/23 09:18 - 12/07/23 09:48 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 20:48
Total/NA	Analysis	300.0		1	744414	NMB	EET CHI	11/30/23 19:56
Total/NA	Analysis	300.0		5	744624	NMB	EET CHI	12/01/23 14:42
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 15:10
Dissolved	Analysis	SM 3500 Fe B		1	744861	CLB	EET CHI	12/04/23 03:08

Client Sample ID: MW-122

Date Collected: 11/29/23 14:25
Date Received: 11/30/23 10:00

Lab Sample ID: 500-243134-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	10	744924	W1T	EET CHI	12/04/23 12:22
Total/NA	Analysis	8260D		1	744581	W1T	EET CHI	12/01/23 12:49
Total/NA	Prep	3510C			744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E		1	744911	SS	EET CHI	12/04/23 17:02
Total/NA	Prep	3510C	DL		744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E	DL	10	745100	JSB	EET CHI	12/05/23 18:33
Total/NA	Analysis	RSK-175		22	694251	JLS	EET BUF	12/05/23 09:07
Dissolved	Prep	3005A			745616	BDE	EET CHI	12/07/23 09:18 - 12/07/23 09:48 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 20:52
Total/NA	Analysis	300.0		1	744413	NMB	EET CHI	11/30/23 20:11
Total/NA	Analysis	300.0		1	744414	NMB	EET CHI	11/30/23 20:11
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 15:29
Dissolved	Analysis	SM 3500 Fe B		1	744861	CLB	EET CHI	12/04/23 03:14

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243134-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-24
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00378	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-24
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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

Chain of Custody Record

Client Information	Sampler: Connor Lawson	Lab PM: Fredrick, Sandie	Carrier Tracking No(s): 500-243134 COC	
Client Contact: Mr Mark Manthey	Phone: (262)203 1294	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: Page 1 of 1
Company: Tetra Tech GEO	PWSID:	Analysis Requested		Job #: 500-243134
Address: 13555 Bishops Ct Suite 201	Due Date 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; Y - Trizma; Z - other (specify); Other:
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-792-1282(Tel)	PO #: NEEDED			
Email: mark manthey@tetratech com	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
Site:	SSOW#:			

Sample Identification	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)	8270E - PAH	8260D - VOC	2320B, 300.0_28D, 300_48HR	6010D - Manganese/Iron	3500_Fe_B_Calc - Iron, Ferrous	RSK_175 - Methane	8260B_VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	A	N	D	N	A	A	X	
MW-101	11/29/23	12:00	G	Water	X		2	3	1	1	1	3			
MW-122	11/29/23	14:25	G	Water	Y		2	3	1	1	1	3			
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:			
Relinquished by: Connor Lawson	Date/Time: 11/29/23 1600	Company: TetraTech	Received by:	Date/Time: 11/30/23 1000	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.
		0.5 → 0.4

500 243134 Waybi
Part # 156297-435 RRDB EXP 09/24
THU - 30 NOV 12:00P
PRIORITY OVERNIGHT
60484
IL-US ORD
FedEx
TRK# 7163 1500 7438
0221
79 JOTA
FedEx Express
UNIVERSITY PARK IL 60484
(708) 534-6200
2417 Bond St.

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-182174.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-243134-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/13/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
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, Y - Trizma, 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)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-101 (500-243134-1)	11/29/23	12:00 Central		Water			X	3	
MW-122 (500-243134-2)	11/29/23	14:25 Central		Water			X	3	

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

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	Randall	11/30/23 1600	EETA	[signature]	12/4/23 1000	TA
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: 7.8 # ICE

Ver: 06/08/2021

12/15/2023

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243134-1

Login Number: 243134
List Number: 1
Creator: James, Jeff A

List Source: Eurofins 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	0.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243134-1

Login Number: 243134
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 12/04/23 11:12 AM

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.	N/A	
Cooler Temperature is recorded.	True	7.8 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.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 12/15/2023 3:54:42 PM

JOB DESCRIPTION

Beazer Oak Creek

JOB NUMBER

500-243217-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/15/2023 3:54:42 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job ID: 500-243217-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-243217-1

Receipt
The samples were received on 12/1/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260D: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 500-744935: Vinyl chloride, Trichlorofluoromethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: The laboratory control sample (LCS) for analytical batch 500-744942 recovered outside control limits for the following analytes: Dibromomethane, Chlorodibromomethane, Bromoform, 1,2-Dibromo-3-Chloropropane and Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The method blank for analytical batch 500-744942 contained Naphthalene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

Method 8260D: The following analyte(s) recovered outside control limits for the LCS associated with analytical batch 500-745111: 1,1,2,2-Tetrachloroethane and Trichloroethene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 500-745111 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8260D: The method blank for analytical batch 500-745111 contained Naphthalene above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

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

GC/MS Semi VOA
Method 8270E: The following sample was diluted due to the nature of the sample matrix: MW-125 (500-243217-1). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-745539 was outside the method criteria for the following analyte(s): 2-Methylnaphthalene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: MW-125 (500-243217-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC VOA
Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-125 (500-243217-1). Elevated reporting limits (RLs) are provided.

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

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

Job ID: 500-243217-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-744621 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-125 — Lab Sample ID: 500-243217-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	84		5.0	1.8	ug/L	5		8260D	Total/NA
1,3,5-Trimethylbenzene	34		5.0	1.3	ug/L	5		8260D	Total/NA
Benzene	290		2.5	0.73	ug/L	5		8260D	Total/NA
Ethylbenzene	91		2.5	0.92	ug/L	5		8260D	Total/NA
Isopropylbenzene	4.7	J	5.0	1.9	ug/L	5		8260D	Total/NA
Toluene	110		2.5	0.76	ug/L	5		8260D	Total/NA
Xylenes, Total	450		5.0	1.1	ug/L	5		8260D	Total/NA
Naphthalene - DL	5400	B	50	17	ug/L	50		8260D	Total/NA
1-Methylnaphthalene	170		6.2	0.94	ug/L	2		8270E	Total/NA
2-Methylnaphthalene	240		6.2	0.20	ug/L	2		8270E	Total/NA
Acenaphthene	130		3.1	0.96	ug/L	2		8270E	Total/NA
Acenaphthylene	3.0	J	3.1	0.83	ug/L	2		8270E	Total/NA
Anthracene	9.1		3.1	1.0	ug/L	2		8270E	Total/NA
Benzo[a]anthracene	5.1		0.62	0.18	ug/L	2		8270E	Total/NA
Benzo[a]pyrene	4.1		0.62	0.31	ug/L	2		8270E	Total/NA
Benzo[b]fluoranthene	4.9		0.62	0.25	ug/L	2		8270E	Total/NA
Benzo[g,h,i]perylene	2.1	J	3.1	1.2	ug/L	2		8270E	Total/NA
Benzo[k]fluoranthene	2.2		0.62	0.20	ug/L	2		8270E	Total/NA
Chrysene	4.4		0.62	0.21	ug/L	2		8270E	Total/NA
Dibenz(a,h)anthracene	0.77	J	0.94	0.16	ug/L	2		8270E	Total/NA
Fluoranthene	22		3.1	1.4	ug/L	2		8270E	Total/NA
Fluorene	68		3.1	0.76	ug/L	2		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.1		0.62	0.23	ug/L	2		8270E	Total/NA
Phenanthrene	75		3.1	0.94	ug/L	2		8270E	Total/NA
Pyrene	20		3.1	1.3	ug/L	2		8270E	Total/NA
Naphthalene - DL	2200		78	24	ug/L	50		8270E	Total/NA
Methane	8800		180	44	ug/L	44		RSK-175	Total/NA
Iron	15		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.70		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	0.27	J	1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	520		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-115 — Lab Sample ID: 500-243217-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	9.8	B	1.0	0.34	ug/L	1		8260D	Total/NA
Xylenes, Total	0.22	J	1.0	0.22	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	0.52	J	1.6	0.24	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.96	J	1.6	0.052	ug/L	1		8270E	Total/NA
Acenaphthene	0.35	J	0.81	0.25	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.19		0.16	0.046	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.11	J	0.16	0.080	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.16		0.16	0.065	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.070	J	0.16	0.052	ug/L	1		8270E	Total/NA
Chrysene	0.12	J	0.16	0.055	ug/L	1		8270E	Total/NA
Fluorene	0.28	J	0.81	0.20	ug/L	1		8270E	Total/NA
Naphthalene	5.2		0.81	0.25	ug/L	1		8270E	Total/NA
Phenanthrene	0.59	J	0.81	0.24	ug/L	1		8270E	Total/NA
Iron	0.13	J	0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.71		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	1200		100	21	mg/L	100		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-115 (Continued) — Lab Sample ID: 500-243217-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	370		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: P-103 — Lab Sample ID: 500-243217-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.96	J B	1.0	0.34	ug/L	1		8260D	Total/NA
Manganese	0.0024	J	0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.18	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	17		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	120		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-111 — Lab Sample ID: 500-243217-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.60	J B	1.0	0.34	ug/L	1		8260D	Total/NA
Methane	3.7	J	4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.098	J	0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.14		0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.32	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	25	F1	1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	320		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-243217-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.4	J B	5.0	1.6	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010D	Metals (ICP)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 3500 Fe B	Iron, Ferrous	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243217-1	MW-125	Water	11/30/23 08:45	12/01/23 10:00
500-243217-2	MW-115	Water	11/30/23 10:15	12/01/23 10:00
500-243217-3	P-103	Water	11/30/23 13:40	12/01/23 10:00
500-243217-4	MW-111	Water	11/30/23 14:45	12/01/23 10:00
500-243217-5	Trip Blank	Water	11/30/23 00:00	12/01/23 10:00

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-125

Date Collected: 11/30/23 08:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			12/04/23 13:24	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			12/04/23 13:24	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			12/04/23 13:24	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			12/04/23 13:24	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			12/04/23 13:24	5
1,2,3-Trichloropropane	<2.1		10	2.1	ug/L			12/04/23 13:24	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			12/04/23 13:24	5
1,2,4-Trimethylbenzene	**84**		5.0	1.8	ug/L			12/04/23 13:24	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			12/04/23 13:24	5
1,2-Dibromoethane (EDB)	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			12/04/23 13:24	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			12/04/23 13:24	5
1,3,5-Trimethylbenzene	**34**		5.0	1.3	ug/L			12/04/23 13:24	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			12/04/23 13:24	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			12/04/23 13:24	5
2,2-Dichloropropane	<2.2		25	2.2	ug/L			12/04/23 13:24	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			12/04/23 13:24	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			12/04/23 13:24	5
Benzene	**290**		2.5	0.73	ug/L			12/04/23 13:24	5
Bromobenzene	<1.8		5.0	1.8	ug/L			12/04/23 13:24	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			12/04/23 13:24	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
Bromoform	<2.4		5.0	2.4	ug/L			12/04/23 13:24	5
Bromomethane	<4.0		15	4.0	ug/L			12/04/23 13:24	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
Chloroethane	<2.5		25	2.5	ug/L			12/04/23 13:24	5
Chloroform	<1.9		10	1.9	ug/L			12/04/23 13:24	5
Chloromethane	<1.6		25	1.6	ug/L			12/04/23 13:24	5
cis-1,2-Dichloroethene	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			12/04/23 13:24	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			12/04/23 13:24	5
Dibromomethane	<1.4		5.0	1.4	ug/L			12/04/23 13:24	5
Dichlorodifluoromethane	<3.4		15	3.4	ug/L			12/04/23 13:24	5
Ethylbenzene	**91**		2.5	0.92	ug/L			12/04/23 13:24	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			12/04/23 13:24	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			12/04/23 13:24	5
Isopropylbenzene	**4.7**	**J**	5.0	1.9	ug/L			12/04/23 13:24	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
Methylene Chloride	<8.2		25	8.2	ug/L			12/04/23 13:24	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			12/04/23 13:24	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			12/04/23 13:24	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5

Client Sample ID: MW-125
Date Collected: 11/30/23 08:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			12/04/23 13:24	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			12/04/23 13:24	5
Toluene	**110**		2.5	0.76	ug/L			12/04/23 13:24	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			12/04/23 13:24	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			12/04/23 13:24	5
Trichloroethene	<0.82		2.5	0.82	ug/L			12/04/23 13:24	5
Trichlorofluoromethane	<2.1	*+	5.0	2.1	ug/L			12/04/23 13:24	5
Vinyl chloride	<1.0	*+	5.0	1.0	ug/L			12/04/23 13:24	5
Xylenes, Total	**450**		5.0	1.1	ug/L			12/04/23 13:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*12/04/23 13:24*	*5*
4-Bromofluorobenzene (Surr)	*80*		*72 - 124*		*12/04/23 13:24*	*5*
Dibromofluoromethane	*105*		*75 - 120*		*12/04/23 13:24*	*5*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/04/23 13:24*	*5*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**5400**	**B**	50	17	ug/L			12/05/23 15:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*12/05/23 15:17*	*50*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*12/05/23 15:17*	*50*
Dibromofluoromethane	*101*		*75 - 120*		*12/05/23 15:17*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*		*12/05/23 15:17*	*50*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**170**		6.2	0.94	ug/L		12/01/23 12:01	12/05/23 18:12	2
2-Methylnaphthalene	**240**		6.2	0.20	ug/L		12/01/23 12:01	12/05/23 18:12	2
Acenaphthene	**130**		3.1	0.96	ug/L		12/01/23 12:01	12/05/23 18:12	2
Acenaphthylene	**3.0**	**J**	3.1	0.83	ug/L		12/01/23 12:01	12/05/23 18:12	2
Anthracene	**9.1**		3.1	1.0	ug/L		12/01/23 12:01	12/05/23 18:12	2
Benzo[a]anthracene	**5.1**		0.62	0.18	ug/L		12/01/23 12:01	12/05/23 18:12	2
Benzo[a]pyrene	**4.1**		0.62	0.31	ug/L		12/01/23 12:01	12/05/23 18:12	2
Benzo[b]fluoranthene	**4.9**		0.62	0.25	ug/L		12/01/23 12:01	12/05/23 18:12	2
Benzo[g,h,i]perylene	**2.1**	**J**	3.1	1.2	ug/L		12/01/23 12:01	12/05/23 18:12	2
Benzo[k]fluoranthene	**2.2**		0.62	0.20	ug/L		12/01/23 12:01	12/05/23 18:12	2
Chrysene	**4.4**		0.62	0.21	ug/L		12/01/23 12:01	12/05/23 18:12	2
Dibenz(a,h)anthracene	**0.77**	**J**	0.94	0.16	ug/L		12/01/23 12:01	12/05/23 18:12	2
Fluoranthene	**22**		3.1	1.4	ug/L		12/01/23 12:01	12/05/23 18:12	2
Fluorene	**68**		3.1	0.76	ug/L		12/01/23 12:01	12/05/23 18:12	2
Indeno[1,2,3-cd]pyrene	**2.1**		0.62	0.23	ug/L		12/01/23 12:01	12/05/23 18:12	2
Phenanthrene	**75**		3.1	0.94	ug/L		12/01/23 12:01	12/05/23 18:12	2
Pyrene	**20**		3.1	1.3	ug/L		12/01/23 12:01	12/05/23 18:12	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*66*		*36 - 120*	*12/01/23 12:01*	*12/05/23 18:12*	*2*
2-Fluorobiphenyl (Surr)	*59*		*34 - 110*	*12/01/23 12:01*	*12/05/23 18:12*	*2*
Terphenyl-d14 (Surr)	*100*		*40 - 145*	*12/01/23 12:01*	*12/05/23 18:12*	*2*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-125

Date Collected: 11/30/23 08:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-1

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**2200**		78	24	ug/L		12/01/23 12:01	12/12/23 02:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*36 - 120*	*12/01/23 12:01*	*12/12/23 02:41*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*34 - 110*	*12/01/23 12:01*	*12/12/23 02:41*	*50*
Terphenyl-d14 (Surr)	*0*	*S1-*	*40 - 145*	*12/01/23 12:01*	*12/12/23 02:41*	*50*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**8800**		180	44	ug/L			12/05/23 09:26	44

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**15**		0.20	0.082	mg/L		12/12/23 08:51	12/14/23 22:58	1
Manganese	**0.70**		0.010	0.0023	mg/L		12/12/23 08:51	12/13/23 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/01/23 13:38	1
Sulfate (EPA 300.0)	**0.27**	**J**	1.0	0.21	mg/L			12/01/23 13:38	1
Alkalinity (SM 2320B)	**520**		5.0	3.7	mg/L			12/11/23 13:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/04/23 03:16	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-115
Date Collected: 11/30/23 10:15
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/05/23 15:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/05/23 15:40	1
1,1,2,2-Tetrachloroethane	<0.40	*-	1.0	0.40	ug/L			12/05/23 15:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/05/23 15:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/05/23 15:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/05/23 15:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/05/23 15:40	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/05/23 15:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/05/23 15:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/05/23 15:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/05/23 15:40	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/05/23 15:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/05/23 15:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/05/23 15:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/05/23 15:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/05/23 15:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/05/23 15:40	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/05/23 15:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/05/23 15:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/05/23 15:40	1
Benzene	<0.15		0.50	0.15	ug/L			12/05/23 15:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/05/23 15:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/05/23 15:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/05/23 15:40	1
Bromoform	<0.48		1.0	0.48	ug/L			12/05/23 15:40	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/05/23 15:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/05/23 15:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/05/23 15:40	1
Chloroform	<0.37		2.0	0.37	ug/L			12/05/23 15:40	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/05/23 15:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/05/23 15:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/05/23 15:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/05/23 15:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/05/23 15:40	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/05/23 15:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/05/23 15:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/05/23 15:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/05/23 15:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/05/23 15:40	1
Naphthalene	**9.8**	**B**	1.0	0.34	ug/L			12/05/23 15:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/05/23 15:40	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/05/23 15:40	1

Client Sample ID: MW-115
Date Collected: 11/30/23 10:15
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 15:40	1
Styrene	<0.39		1.0	0.39	ug/L			12/05/23 15:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 15:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/05/23 15:40	1
Toluene	<0.15		0.50	0.15	ug/L			12/05/23 15:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/05/23 15:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/05/23 15:40	1
Trichloroethene	<0.16	*+	0.50	0.16	ug/L			12/05/23 15:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/05/23 15:40	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/05/23 15:40	1
Xylenes, Total	**0.22**	**J**	1.0	0.22	ug/L			12/05/23 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*12/05/23 15:40*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*12/05/23 15:40*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*12/05/23 15:40*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/05/23 15:40*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**0.52**	**J**	1.6	0.24	ug/L		12/01/23 12:01	12/04/23 18:07	1
2-Methylnaphthalene	**0.96**	**J**	1.6	0.052	ug/L		12/01/23 12:01	12/04/23 18:07	1
Acenaphthene	**0.35**	**J**	0.81	0.25	ug/L		12/01/23 12:01	12/04/23 18:07	1
Acenaphthylene	<0.22		0.81	0.22	ug/L		12/01/23 12:01	12/04/23 18:07	1
Anthracene	<0.27		0.81	0.27	ug/L		12/01/23 12:01	12/04/23 18:07	1
Benzo[a]anthracene	**0.19**		0.16	0.046	ug/L		12/01/23 12:01	12/04/23 18:07	1
Benzo[a]pyrene	**0.11**	**J**	0.16	0.080	ug/L		12/01/23 12:01	12/04/23 18:07	1
Benzo[b]fluoranthene	**0.16**		0.16	0.065	ug/L		12/01/23 12:01	12/04/23 18:07	1
Benzo[g,h,i]perylene	<0.30		0.81	0.30	ug/L		12/01/23 12:01	12/04/23 18:07	1
Benzo[k]fluoranthene	**0.070**	**J**	0.16	0.052	ug/L		12/01/23 12:01	12/04/23 18:07	1
Chrysene	**0.12**	**J**	0.16	0.055	ug/L		12/01/23 12:01	12/04/23 18:07	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/01/23 12:01	12/04/23 18:07	1
Fluoranthene	<0.37		0.81	0.37	ug/L		12/01/23 12:01	12/04/23 18:07	1
Fluorene	**0.28**	**J**	0.81	0.20	ug/L		12/01/23 12:01	12/04/23 18:07	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/01/23 12:01	12/04/23 18:07	1
Naphthalene	**5.2**		0.81	0.25	ug/L		12/01/23 12:01	12/04/23 18:07	1
Phenanthrene	**0.59**	**J**	0.81	0.24	ug/L		12/01/23 12:01	12/04/23 18:07	1
Pyrene	<0.34		0.81	0.34	ug/L		12/01/23 12:01	12/04/23 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*	*12/01/23 12:01*	*12/04/23 18:07*	*1*
2-Fluorobiphenyl (Surr)	*62*		*34 - 110*	*12/01/23 12:01*	*12/04/23 18:07*	*1*
Terphenyl-d14 (Surr)	*112*		*40 - 145*	*12/01/23 12:01*	*12/04/23 18:07*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/05/23 09:44	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.13**	**J**	0.20	0.082	mg/L		12/12/23 08:51	12/14/23 23:02	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-115
Date Collected: 11/30/23 10:15
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-2
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.71**		0.010	0.0023	mg/L		12/12/23 08:51	12/13/23 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/01/23 13:53	1
Sulfate (EPA 300.0)	**1200**		100	21	mg/L			12/03/23 01:26	100
Alkalinity (SM 2320B)	**370**		5.0	3.7	mg/L			12/11/23 13:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/04/23 03:18	1

Client Sample ID: P-103
Date Collected: 11/30/23 13:40
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/05/23 16:03	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/05/23 16:03	1
1,1,2,2-Tetrachloroethane	<0.40	*-	1.0	0.40	ug/L			12/05/23 16:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/05/23 16:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/05/23 16:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/05/23 16:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/05/23 16:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/05/23 16:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/05/23 16:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/05/23 16:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/05/23 16:03	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/05/23 16:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/05/23 16:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/05/23 16:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/05/23 16:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/05/23 16:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/05/23 16:03	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/05/23 16:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/05/23 16:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/05/23 16:03	1
Benzene	<0.15		0.50	0.15	ug/L			12/05/23 16:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/05/23 16:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/05/23 16:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/05/23 16:03	1
Bromoform	<0.48		1.0	0.48	ug/L			12/05/23 16:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/05/23 16:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/05/23 16:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/05/23 16:03	1
Chloroform	<0.37		2.0	0.37	ug/L			12/05/23 16:03	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/05/23 16:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/05/23 16:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/05/23 16:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/05/23 16:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/05/23 16:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/05/23 16:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/05/23 16:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/05/23 16:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/05/23 16:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/05/23 16:03	1
Naphthalene	**0.96**	**J B**	1.0	0.34	ug/L			12/05/23 16:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/05/23 16:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/05/23 16:03	1

Client Sample ID: P-103
Date Collected: 11/30/23 13:40
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 16:03	1
Styrene	<0.39		1.0	0.39	ug/L			12/05/23 16:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 16:03	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/05/23 16:03	1
Toluene	<0.15		0.50	0.15	ug/L			12/05/23 16:03	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/05/23 16:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/05/23 16:03	1
Trichloroethene	<0.16	*+	0.50	0.16	ug/L			12/05/23 16:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/05/23 16:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/05/23 16:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/05/23 16:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*12/05/23 16:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*12/05/23 16:03*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*12/05/23 16:03*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/05/23 16:03*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		12/01/23 12:01	12/04/23 18:29	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		12/01/23 12:01	12/04/23 18:29	1
Acenaphthene	<0.23		0.76	0.23	ug/L		12/01/23 12:01	12/04/23 18:29	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		12/01/23 12:01	12/04/23 18:29	1
Anthracene	<0.25		0.76	0.25	ug/L		12/01/23 12:01	12/04/23 18:29	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		12/01/23 12:01	12/04/23 18:29	1
Benzo[a]pyrene	<0.075		0.15	0.075	ug/L		12/01/23 12:01	12/04/23 18:29	1
Benzo[b]fluoranthene	<0.061		0.15	0.061	ug/L		12/01/23 12:01	12/04/23 18:29	1
Benzo[g,h,i]perylene	<0.28		0.76	0.28	ug/L		12/01/23 12:01	12/04/23 18:29	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		12/01/23 12:01	12/04/23 18:29	1
Chrysene	<0.051		0.15	0.051	ug/L		12/01/23 12:01	12/04/23 18:29	1
Dibenz(a,h)anthracene	<0.038		0.23	0.038	ug/L		12/01/23 12:01	12/04/23 18:29	1
Fluoranthene	<0.34		0.76	0.34	ug/L		12/01/23 12:01	12/04/23 18:29	1
Fluorene	<0.18		0.76	0.18	ug/L		12/01/23 12:01	12/04/23 18:29	1
Indeno[1,2,3-cd]pyrene	<0.056		0.15	0.056	ug/L		12/01/23 12:01	12/04/23 18:29	1
Naphthalene	<0.23		0.76	0.23	ug/L		12/01/23 12:01	12/04/23 18:29	1
Phenanthrene	<0.23		0.76	0.23	ug/L		12/01/23 12:01	12/04/23 18:29	1
Pyrene	<0.32		0.76	0.32	ug/L		12/01/23 12:01	12/04/23 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*12/01/23 12:01*	*12/04/23 18:29*	*1*
2-Fluorobiphenyl (Surr)	*68*		*34 - 110*	*12/01/23 12:01*	*12/04/23 18:29*	*1*
Terphenyl-d14 (Surr)	*109*		*40 - 145*	*12/01/23 12:01*	*12/04/23 18:29*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/05/23 10:03	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/12/23 08:51	12/14/23 23:07	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: P-103
Date Collected: 11/30/23 13:40
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-3
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0024	J	0.010	0.0023	mg/L		12/12/23 08:51	12/13/23 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.18	J	1.0	0.043	mg/L			12/01/23 14:09	1
Sulfate (EPA 300.0)	17		1.0	0.21	mg/L			12/01/23 14:09	1
Alkalinity (SM 2320B)	120		5.0	3.7	mg/L			12/11/23 14:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/04/23 03:20	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-111

Date Collected: 11/30/23 14:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/05/23 16:26	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/05/23 16:26	1
1,1,2,2-Tetrachloroethane	<0.40	*- F1	1.0	0.40	ug/L			12/05/23 16:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/05/23 16:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/05/23 16:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/05/23 16:26	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/05/23 16:26	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/05/23 16:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/05/23 16:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/05/23 16:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/05/23 16:26	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/05/23 16:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/05/23 16:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/05/23 16:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/05/23 16:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/05/23 16:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/05/23 16:26	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/05/23 16:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/05/23 16:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/05/23 16:26	1
Benzene	<0.15		0.50	0.15	ug/L			12/05/23 16:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/05/23 16:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/05/23 16:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/05/23 16:26	1
Bromoform	<0.48		1.0	0.48	ug/L			12/05/23 16:26	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/05/23 16:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/05/23 16:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/05/23 16:26	1
Chloroform	<0.37		2.0	0.37	ug/L			12/05/23 16:26	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/05/23 16:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/05/23 16:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/05/23 16:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/05/23 16:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/05/23 16:26	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/05/23 16:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/05/23 16:26	1
Hexachlorobutadiene	<0.45	F2	1.0	0.45	ug/L			12/05/23 16:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/05/23 16:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/05/23 16:26	1
Naphthalene	**0.60**	**J B**	1.0	0.34	ug/L			12/05/23 16:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/05/23 16:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/05/23 16:26	1

Client Sample ID: MW-111
Date Collected: 11/30/23 14:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 16:26	1
Styrene	<0.39		1.0	0.39	ug/L			12/05/23 16:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 16:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/05/23 16:26	1
Toluene	<0.15		0.50	0.15	ug/L			12/05/23 16:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/05/23 16:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/05/23 16:26	1
Trichloroethene	<0.16	*+	0.50	0.16	ug/L			12/05/23 16:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/05/23 16:26	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/05/23 16:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/05/23 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/05/23 16:26*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*12/05/23 16:26*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*12/05/23 16:26*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*12/05/23 16:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		12/01/23 12:01	12/04/23 18:51	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		12/01/23 12:01	12/04/23 18:51	1
Acenaphthene	<0.23		0.76	0.23	ug/L		12/01/23 12:01	12/04/23 18:51	1
Acenaphthylene	<0.20		0.76	0.20	ug/L		12/01/23 12:01	12/04/23 18:51	1
Anthracene	<0.25		0.76	0.25	ug/L		12/01/23 12:01	12/04/23 18:51	1
Benzo[a]anthracene	<0.043		0.15	0.043	ug/L		12/01/23 12:01	12/04/23 18:51	1
Benzo[a]pyrene	<0.075		0.15	0.075	ug/L		12/01/23 12:01	12/04/23 18:51	1
Benzo[b]fluoranthene	<0.061		0.15	0.061	ug/L		12/01/23 12:01	12/04/23 18:51	1
Benzo[g,h,i]perylene	<0.28		0.76	0.28	ug/L		12/01/23 12:01	12/04/23 18:51	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		12/01/23 12:01	12/04/23 18:51	1
Chrysene	<0.052		0.15	0.052	ug/L		12/01/23 12:01	12/04/23 18:51	1
Dibenz(a,h)anthracene	<0.038		0.23	0.038	ug/L		12/01/23 12:01	12/04/23 18:51	1
Fluoranthene	<0.34		0.76	0.34	ug/L		12/01/23 12:01	12/04/23 18:51	1
Fluorene	<0.18		0.76	0.18	ug/L		12/01/23 12:01	12/04/23 18:51	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		12/01/23 12:01	12/04/23 18:51	1
Naphthalene	<0.23		0.76	0.23	ug/L		12/01/23 12:01	12/04/23 18:51	1
Phenanthrene	<0.23		0.76	0.23	ug/L		12/01/23 12:01	12/04/23 18:51	1
Pyrene	<0.32		0.76	0.32	ug/L		12/01/23 12:01	12/04/23 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*36 - 120*	*12/01/23 12:01*	*12/04/23 18:51*	*1*
2-Fluorobiphenyl (Surr)	*64*		*34 - 110*	*12/01/23 12:01*	*12/04/23 18:51*	*1*
Terphenyl-d14 (Surr)	*115*		*40 - 145*	*12/01/23 12:01*	*12/04/23 18:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**3.7**	**J**	4.0	1.0	ug/L			12/05/23 10:22	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.098**	**J**	0.20	0.082	mg/L		12/12/23 08:51	12/14/23 23:11	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-111
Date Collected: 11/30/23 14:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-4
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.14		0.010	0.0023	mg/L		12/12/23 08:51	12/13/23 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.32	J	1.0	0.043	mg/L			12/01/23 14:24	1
Sulfate (EPA 300.0)	25	F1	1.0	0.21	mg/L			12/01/23 14:24	1
Alkalinity (SM 2320B)	320		5.0	3.7	mg/L			12/11/23 14:12	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/04/23 03:22	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: Trip Blank

Date Collected: 11/30/23 00:00
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/04/23 16:14	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/04/23 16:14	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/04/23 16:14	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/04/23 16:14	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/04/23 16:14	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/04/23 16:14	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/04/23 16:14	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/04/23 16:14	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/04/23 16:14	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/04/23 16:14	1
1,2-Dibromo-3-Chloropropane	<2.0	*+	5.0	2.0	ug/L			12/04/23 16:14	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/04/23 16:14	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/04/23 16:14	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/04/23 16:14	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/04/23 16:14	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/04/23 16:14	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/04/23 16:14	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/04/23 16:14	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/04/23 16:14	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/04/23 16:14	1
Benzene	<0.15		0.50	0.15	ug/L			12/04/23 16:14	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/04/23 16:14	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/04/23 16:14	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/04/23 16:14	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			12/04/23 16:14	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/04/23 16:14	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/04/23 16:14	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/04/23 16:14	1
Chloroform	<0.37		2.0	0.37	ug/L			12/04/23 16:14	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/04/23 16:14	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/04/23 16:14	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/04/23 16:14	1
Dibromochloromethane	<0.49	*+	1.0	0.49	ug/L			12/04/23 16:14	1
Dibromomethane	<0.27	*+	1.0	0.27	ug/L			12/04/23 16:14	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/04/23 16:14	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/04/23 16:14	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/04/23 16:14	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/04/23 16:14	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
Methylene Chloride	**2.4**	**J B**	5.0	1.6	ug/L			12/04/23 16:14	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/04/23 16:14	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/04/23 16:14	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/04/23 16:14	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: Trip Blank
Date Collected: 11/30/23 00:00
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/04/23 16:14	1
Styrene	<0.39		1.0	0.39	ug/L			12/04/23 16:14	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/04/23 16:14	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/04/23 16:14	1
Toluene	<0.15		0.50	0.15	ug/L			12/04/23 16:14	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/04/23 16:14	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/04/23 16:14	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/04/23 16:14	1
Trichlorofluoromethane	<0.43	*+	1.0	0.43	ug/L			12/04/23 16:14	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/04/23 16:14	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/04/23 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 126*		*12/04/23 16:14*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*12/04/23 16:14*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*12/04/23 16:14*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*12/04/23 16:14*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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.

GC 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.

Metals

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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Glossary (Continued)

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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

GC/MS VOA

Analysis Batch: 744935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	8260D	
MB 500-744935/6	Method Blank	Total/NA	Water	8260D	
LCS 500-744935/3	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 744942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-5	Trip Blank	Total/NA	Water	8260D	
MB 500-744942/7	Method Blank	Total/NA	Water	8260D	
LCS 500-744942/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 745111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1 - DL	MW-125	Total/NA	Water	8260D	
500-243217-2	MW-115	Total/NA	Water	8260D	
500-243217-3	P-103	Total/NA	Water	8260D	
500-243217-4	MW-111	Total/NA	Water	8260D	
MB 500-745111/7	Method Blank	Total/NA	Water	8260D	
LCS 500-745111/4	Lab Control Sample	Total/NA	Water	8260D	
500-243217-4 MS	MW-111	Total/NA	Water	8260D	
500-243217-4 MSD	MW-111	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 744700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	3510C	
500-243217-1 - DL	MW-125	Total/NA	Water	3510C	
500-243217-2	MW-115	Total/NA	Water	3510C	
500-243217-3	P-103	Total/NA	Water	3510C	
500-243217-4	MW-111	Total/NA	Water	3510C	
MB 500-744700/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-744700/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-744700/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 744911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-2	MW-115	Total/NA	Water	8270E	744700
500-243217-3	P-103	Total/NA	Water	8270E	744700
500-243217-4	MW-111	Total/NA	Water	8270E	744700
MB 500-744700/1-A	Method Blank	Total/NA	Water	8270E	744700
LCS 500-744700/2-A	Lab Control Sample	Total/NA	Water	8270E	744700
LCSD 500-744700/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	744700

Analysis Batch: 745100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	8270E	744700

Analysis Batch: 746032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1 - DL	MW-125	Total/NA	Water	8270E	744700

GC VOA

Analysis Batch: 694251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	RSK-175	
500-243217-2	MW-115	Total/NA	Water	RSK-175	
500-243217-3	P-103	Total/NA	Water	RSK-175	
500-243217-4	MW-111	Total/NA	Water	RSK-175	
MB 480-694251/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694251/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-694251/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 746257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Dissolved	Water	3005A	
500-243217-2	MW-115	Dissolved	Water	3005A	
500-243217-3	P-103	Dissolved	Water	3005A	
500-243217-4	MW-111	Dissolved	Water	3005A	
MB 500-746257/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-746257/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 746702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Dissolved	Water	6010D	746257
500-243217-2	MW-115	Dissolved	Water	6010D	746257
500-243217-3	P-103	Dissolved	Water	6010D	746257
500-243217-4	MW-111	Dissolved	Water	6010D	746257
MB 500-746257/1-A	Method Blank	Total Recoverable	Water	6010D	746257
LCS 500-746257/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746257

Analysis Batch: 746896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Dissolved	Water	6010D	746257
500-243217-2	MW-115	Dissolved	Water	6010D	746257
500-243217-3	P-103	Dissolved	Water	6010D	746257
500-243217-4	MW-111	Dissolved	Water	6010D	746257
MB 500-746257/1-A	Method Blank	Total Recoverable	Water	6010D	746257
LCS 500-746257/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746257

General Chemistry

Analysis Batch: 744621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	300.0	
500-243217-3	P-103	Total/NA	Water	300.0	
500-243217-4	MW-111	Total/NA	Water	300.0	
MB 500-744621/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744621/4	Lab Control Sample	Total/NA	Water	300.0	
500-243217-4 MS	MW-111	Total/NA	Water	300.0	
500-243217-4 MSD	MW-111	Total/NA	Water	300.0	

Analysis Batch: 744622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 744622 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-2	MW-115	Total/NA	Water	300.0	
500-243217-3	P-103	Total/NA	Water	300.0	
500-243217-4	MW-111	Total/NA	Water	300.0	
MB 500-744622/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744622/4	Lab Control Sample	Total/NA	Water	300.0	
500-243217-4 MS	MW-111	Total/NA	Water	300.0	
500-243217-4 MSD	MW-111	Total/NA	Water	300.0	

Analysis Batch: 744820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-2	MW-115	Total/NA	Water	300.0	
MB 500-744820/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744820/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Dissolved	Water	SM 3500 Fe B	
500-243217-2	MW-115	Dissolved	Water	SM 3500 Fe B	
500-243217-3	P-103	Dissolved	Water	SM 3500 Fe B	
500-243217-4	MW-111	Dissolved	Water	SM 3500 Fe B	
MB 500-744861/1	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 500-744861/2	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 746242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243217-1	MW-125	Total/NA	Water	SM 2320B	
500-243217-2	MW-115	Total/NA	Water	SM 2320B	
500-243217-3	P-103	Total/NA	Water	SM 2320B	
500-243217-4	MW-111	Total/NA	Water	SM 2320B	
MB 500-746242/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-746242/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Method: 8260D - 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	(75-126)	(72-124)	(75-120)	(75-120)
500-243217-1	MW-125	101	80	105	94
500-243217-1 - DL	MW-125	97	96	101	93
500-243217-2	MW-115	98	103	93	92
500-243217-3	P-103	97	102	97	92
500-243217-4	MW-111	96	103	98	93
500-243217-4 MS	MW-111	94	109	95	93
500-243217-4 MSD	MW-111	93	107	92	92
500-243217-5	Trip Blank	104	95	106	99
LCS 500-744935/3	Lab Control Sample	101	83	103	96
LCS 500-744942/4	Lab Control Sample	101	98	102	100
LCS 500-745111/4	Lab Control Sample	93	106	92	92
MB 500-744935/6	Method Blank	106	81	104	95
MB 500-744942/7	Method Blank	109	97	109	98
MB 500-745111/7	Method Blank	95	105	91	90

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-243217-1	MW-125	66	59	100
500-243217-1 - DL	MW-125	0 S1-	0 S1-	0 S1-
500-243217-2	MW-115	62	62	112
500-243217-3	P-103	68	68	109
500-243217-4	MW-111	61	64	115
LCS 500-744700/2-A	Lab Control Sample	85	84	110
LCSD 500-744700/3-A	Lab Control Sample Dup	80	81	105
MB 500-744700/1-A	Method Blank	68	65	105

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-744935/6
Matrix: Water
Analysis Batch: 744935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/04/23 11:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/04/23 11:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/04/23 11:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/04/23 11:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/04/23 11:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/04/23 11:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/04/23 11:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/04/23 11:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/04/23 11:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/04/23 11:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/04/23 11:52	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/04/23 11:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/04/23 11:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/04/23 11:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/04/23 11:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/04/23 11:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/04/23 11:52	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/04/23 11:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/04/23 11:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/04/23 11:52	1
Benzene	<0.15		0.50	0.15	ug/L			12/04/23 11:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/04/23 11:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/04/23 11:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/04/23 11:52	1
Bromoform	<0.48		1.0	0.48	ug/L			12/04/23 11:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/04/23 11:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/04/23 11:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/04/23 11:52	1
Chloroform	<0.37		2.0	0.37	ug/L			12/04/23 11:52	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/04/23 11:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/04/23 11:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/04/23 11:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/04/23 11:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/04/23 11:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/04/23 11:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/04/23 11:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/04/23 11:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/04/23 11:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/04/23 11:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/04/23 11:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/04/23 11:52	1

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

Lab Sample ID: MB 500-744935/6
Matrix: Water
Analysis Batch: 744935

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/04/23 11:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/04/23 11:52	1
Styrene	<0.39		1.0	0.39	ug/L			12/04/23 11:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/04/23 11:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/04/23 11:52	1
Toluene	<0.15		0.50	0.15	ug/L			12/04/23 11:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/04/23 11:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/04/23 11:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/04/23 11:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/04/23 11:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/04/23 11:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/04/23 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*12/04/23 11:52*	*1*
4-Bromofluorobenzene (Surr)	*81*		*72 - 124*		*12/04/23 11:52*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*12/04/23 11:52*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*12/04/23 11:52*	*1*

Lab Sample ID: LCS 500-744935/3
Matrix: Water
Analysis Batch: 744935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	61.3		ug/L		123	70 - 125
1,1,1-Trichloroethane	50.0	59.0		ug/L		118	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	62 - 140
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	71 - 130
1,1-Dichloroethane	50.0	57.1		ug/L		114	70 - 125
1,1-Dichloroethene	50.0	55.5		ug/L		111	67 - 122
1,1-Dichloropropene	50.0	57.1		ug/L		114	70 - 121
1,2,3-Trichlorobenzene	50.0	52.0		ug/L		104	51 - 145
1,2,3-Trichloropropane	50.0	45.8		ug/L		92	50 - 133
1,2,4-Trichlorobenzene	50.0	55.3		ug/L		111	57 - 137
1,2,4-Trimethylbenzene	50.0	49.2		ug/L		98	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/L		93	56 - 123
1,2-Dibromoethane (EDB)	50.0	52.1		ug/L		104	70 - 125
1,2-Dichlorobenzene	50.0	56.4		ug/L		113	70 - 125
1,2-Dichloroethane	50.0	56.5		ug/L		113	68 - 127
1,2-Dichloropropane	50.0	56.8		ug/L		114	67 - 130
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	70 - 123
1,3-Dichlorobenzene	50.0	54.8		ug/L		110	70 - 125
1,3-Dichloropropane	50.0	52.2		ug/L		104	62 - 136
1,4-Dichlorobenzene	50.0	54.7		ug/L		109	70 - 120
2,2-Dichloropropane	50.0	55.5		ug/L		111	58 - 139
2-Chlorotoluene	50.0	47.5		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.2		ug/L		94	68 - 124
Benzene	50.0	55.5		ug/L		111	70 - 120

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

Lab Sample ID: LCS 500-744935/3
Matrix: Water
Analysis Batch: 744935

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	51.3		ug/L		103	70 - 122
Bromochloromethane	50.0	57.9		ug/L		116	65 - 122
Bromodichloromethane	50.0	55.7		ug/L		111	69 - 120
Bromoform	50.0	60.1		ug/L		120	56 - 132
Bromomethane	50.0	59.1		ug/L		118	40 - 152
Carbon tetrachloride	50.0	64.2		ug/L		128	59 - 133
Chlorobenzene	50.0	54.3		ug/L		109	70 - 120
Chloroethane	50.0	51.3		ug/L		103	48 - 136
Chloroform	50.0	53.9		ug/L		108	70 - 120
Chloromethane	50.0	66.1		ug/L		132	56 - 152
cis-1,2-Dichloroethene	50.0	55.2		ug/L		110	70 - 125
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	64 - 127
Dibromochloromethane	50.0	58.5		ug/L		117	68 - 125
Dibromomethane	50.0	54.5		ug/L		109	70 - 120
Dichlorodifluoromethane	50.0	66.1		ug/L		132	40 - 159
Ethylbenzene	50.0	54.7		ug/L		109	70 - 123
Hexachlorobutadiene	50.0	47.6		ug/L		95	51 - 150
Isopropylbenzene	50.0	48.9		ug/L		98	70 - 126
Methyl tert-butyl ether	50.0	50.2		ug/L		100	55 - 123
Methylene Chloride	50.0	51.0		ug/L		102	69 - 125
Naphthalene	50.0	52.2		ug/L		104	53 - 144
n-Butylbenzene	50.0	48.8		ug/L		98	68 - 125
N-Propylbenzene	50.0	48.5		ug/L		97	69 - 127
p-Isopropyltoluene	50.0	49.8		ug/L		100	70 - 125
sec-Butylbenzene	50.0	48.9		ug/L		98	70 - 123
Styrene	50.0	54.2		ug/L		108	70 - 120
tert-Butylbenzene	50.0	50.0		ug/L		100	70 - 121
Tetrachloroethene	50.0	59.3		ug/L		119	70 - 128
Toluene	50.0	49.7		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	54.6		ug/L		109	70 - 125
trans-1,3-Dichloropropene	50.0	53.6		ug/L		107	62 - 128
Trichloroethene	50.0	61.7		ug/L		123	70 - 125
Trichlorofluoromethane	50.0	64.3	*+	ug/L		129	55 - 128
Vinyl chloride	50.0	63.3	*+	ug/L		127	64 - 126
Xylenes, Total	100	103		ug/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
4-Bromofluorobenzene (Surr)	*83*		*72 - 124*
Dibromofluoromethane	*103*		*75 - 120*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-744942/7
Matrix: Water
Analysis Batch: 744942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/04/23 15:48	1

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

Lab Sample ID: MB 500-744942/7
Matrix: Water
Analysis Batch: 744942

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	<0.38		1.0	0.38	ug/L			12/04/23 15:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/04/23 15:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/04/23 15:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/04/23 15:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/04/23 15:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/04/23 15:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/04/23 15:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/04/23 15:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/04/23 15:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/04/23 15:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/04/23 15:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/04/23 15:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/04/23 15:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/04/23 15:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/04/23 15:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/04/23 15:48	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/04/23 15:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/04/23 15:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/04/23 15:48	1
Benzene	<0.15		0.50	0.15	ug/L			12/04/23 15:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/04/23 15:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/04/23 15:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/04/23 15:48	1
Bromoform	<0.48		1.0	0.48	ug/L			12/04/23 15:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/04/23 15:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/04/23 15:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/04/23 15:48	1
Chloroform	<0.37		2.0	0.37	ug/L			12/04/23 15:48	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/04/23 15:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/04/23 15:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/04/23 15:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/04/23 15:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/04/23 15:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/04/23 15:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/04/23 15:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/04/23 15:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/04/23 15:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
Methylene Chloride	1.78	J	5.0	1.6	ug/L			12/04/23 15:48	1
Naphthalene	0.526	J	1.0	0.34	ug/L			12/04/23 15:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/04/23 15:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/04/23 15:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/04/23 15:48	1

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

Lab Sample ID: MB 500-744942/7
Matrix: Water
Analysis Batch: 744942

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			12/04/23 15:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/04/23 15:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/04/23 15:48	1
Toluene	<0.15		0.50	0.15	ug/L			12/04/23 15:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/04/23 15:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/04/23 15:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/04/23 15:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/04/23 15:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/04/23 15:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/04/23 15:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*12/04/23 15:48*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*12/04/23 15:48*	*1*
Dibromofluoromethane	*109*		*75 - 120*		*12/04/23 15:48*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*12/04/23 15:48*	*1*

Lab Sample ID: LCS 500-744942/4
Matrix: Water
Analysis Batch: 744942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	40.0	45.1		ug/L		113	70 - 125
1,1,1-Trichloroethane	40.0	45.4		ug/L		114	70 - 125
1,1,2,2-Tetrachloroethane	40.0	47.5		ug/L		119	62 - 140
1,1,2-Trichloroethane	40.0	48.8		ug/L		122	71 - 130
1,1-Dichloroethane	40.0	36.9		ug/L		92	70 - 125
1,1-Dichloroethene	40.0	46.2		ug/L		116	67 - 122
1,1-Dichloropropene	40.0	44.9		ug/L		112	70 - 121
1,2,3-Trichlorobenzene	40.0	56.2		ug/L		140	51 - 145
1,2,3-Trichloropropane	40.0	49.6		ug/L		124	50 - 133
1,2,4-Trichlorobenzene	40.0	49.4		ug/L		123	57 - 137
1,2,4-Trimethylbenzene	40.0	41.5		ug/L		104	70 - 123
1,2-Dibromo-3-Chloropropane	40.0	64.9	*+	ug/L		162	56 - 123
1,2-Dibromoethane (EDB)	40.0	49.7		ug/L		124	70 - 125
1,2-Dichlorobenzene	40.0	41.6		ug/L		104	70 - 125
1,2-Dichloroethane	40.0	41.8		ug/L		105	68 - 127
1,2-Dichloropropane	40.0	36.1		ug/L		90	67 - 130
1,3,5-Trimethylbenzene	40.0	40.3		ug/L		101	70 - 123
1,3-Dichlorobenzene	40.0	39.7		ug/L		99	70 - 125
1,3-Dichloropropane	40.0	49.9		ug/L		125	62 - 136
1,4-Dichlorobenzene	40.0	40.4		ug/L		101	70 - 120
2,2-Dichloropropane	40.0	41.6		ug/L		104	58 - 139
2-Chlorotoluene	40.0	40.2		ug/L		100	70 - 125
4-Chlorotoluene	40.0	41.7		ug/L		104	68 - 124
Benzene	40.0	42.5		ug/L		106	70 - 120
Bromobenzene	40.0	41.2		ug/L		103	70 - 122
Bromochloromethane	40.0	46.7		ug/L		117	65 - 122

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

Lab Sample ID: LCS 500-744942/4
Matrix: Water
Analysis Batch: 744942

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	40.0	46.6		ug/L		117	69 - 120
Bromoform	40.0	59.1	*+	ug/L		148	56 - 132
Bromomethane	40.0	58.7		ug/L		147	40 - 152
Carbon tetrachloride	40.0	46.7		ug/L		117	59 - 133
Chlorobenzene	40.0	43.5		ug/L		109	70 - 120
Chloroethane	40.0	43.1		ug/L		108	48 - 136
Chloroform	40.0	47.0		ug/L		117	70 - 120
Chloromethane	40.0	36.9		ug/L		92	56 - 152
cis-1,2-Dichloroethene	40.0	42.7		ug/L		107	70 - 125
cis-1,3-Dichloropropene	40.0	46.2		ug/L		115	64 - 127
Dibromochloromethane	40.0	50.3	*+	ug/L		126	68 - 125
Dibromomethane	40.0	50.1	*+	ug/L		125	70 - 120
Dichlorodifluoromethane	40.0	56.3		ug/L		141	40 - 159
Ethylbenzene	40.0	41.3		ug/L		103	70 - 123
Hexachlorobutadiene	40.0	39.7		ug/L		99	51 - 150
Isopropylbenzene	40.0	38.5		ug/L		96	70 - 126
Methyl tert-butyl ether	40.0	48.9		ug/L		122	55 - 123
Methylene Chloride	40.0	46.3		ug/L		116	69 - 125
Naphthalene	40.0	55.1		ug/L		138	53 - 144
n-Butylbenzene	40.0	41.0		ug/L		102	68 - 125
N-Propylbenzene	40.0	39.8		ug/L		99	69 - 127
p-Isopropyltoluene	40.0	38.6		ug/L		96	70 - 125
sec-Butylbenzene	40.0	38.9		ug/L		97	70 - 123
Styrene	40.0	43.9		ug/L		110	70 - 120
tert-Butylbenzene	40.0	37.1		ug/L		93	70 - 121
Tetrachloroethene	40.0	44.6		ug/L		112	70 - 128
Toluene	40.0	40.5		ug/L		101	70 - 125
trans-1,2-Dichloroethene	40.0	44.5		ug/L		111	70 - 125
trans-1,3-Dichloropropene	40.0	51.3		ug/L		128	62 - 128
Trichloroethene	40.0	40.8		ug/L		102	70 - 125
Trichlorofluoromethane	40.0	51.8	*+	ug/L		130	55 - 128
Vinyl chloride	40.0	41.4		ug/L		104	64 - 126
Xylenes, Total	80.0	82.4		ug/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
Toluene-d8 (Surr)	*100*		*75 - 120*

Lab Sample ID: MB 500-745111/7
Matrix: Water
Analysis Batch: 745111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/05/23 10:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/05/23 10:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/05/23 10:45	1

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

Lab Sample ID: MB 500-745111/7
Matrix: Water
Analysis Batch: 745111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/05/23 10:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/05/23 10:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/05/23 10:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/05/23 10:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/05/23 10:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/05/23 10:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/05/23 10:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/05/23 10:45	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/05/23 10:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/05/23 10:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/05/23 10:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/05/23 10:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/05/23 10:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/05/23 10:45	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/05/23 10:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/05/23 10:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/05/23 10:45	1
Benzene	<0.15		0.50	0.15	ug/L			12/05/23 10:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/05/23 10:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/05/23 10:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/05/23 10:45	1
Bromoform	<0.48		1.0	0.48	ug/L			12/05/23 10:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/05/23 10:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/05/23 10:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/05/23 10:45	1
Chloroform	<0.37		2.0	0.37	ug/L			12/05/23 10:45	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/05/23 10:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/05/23 10:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/05/23 10:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/05/23 10:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/05/23 10:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/05/23 10:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/05/23 10:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/05/23 10:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/05/23 10:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/05/23 10:45	1
Naphthalene	0.560	J	1.0	0.34	ug/L			12/05/23 10:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/05/23 10:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/05/23 10:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 10:45	1
Styrene	<0.39		1.0	0.39	ug/L			12/05/23 10:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 10:45	1

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

Lab Sample ID: MB 500-745111/7
Matrix: Water
Analysis Batch: 745111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/05/23 10:45	1
Toluene	<0.15		0.50	0.15	ug/L			12/05/23 10:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/05/23 10:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/05/23 10:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/05/23 10:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/05/23 10:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/05/23 10:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/05/23 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*12/05/23 10:45*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*12/05/23 10:45*	*1*
Dibromofluoromethane	*91*		*75 - 120*		*12/05/23 10:45*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*12/05/23 10:45*	*1*

Lab Sample ID: LCS 500-745111/4
Matrix: Water
Analysis Batch: 745111

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/L		98	70 - 125
1,1,1-Trichloroethane	50.0	43.9		ug/L		88	70 - 125
1,1,2,2-Tetrachloroethane	50.0	5.82	*-	ug/L		12	62 - 140
1,1,2-Trichloroethane	50.0	48.2		ug/L		96	71 - 130
1,1-Dichloroethane	50.0	44.3		ug/L		89	70 - 125
1,1-Dichloroethene	50.0	38.7		ug/L		77	67 - 122
1,1-Dichloropropene	50.0	47.5		ug/L		95	70 - 121
1,2,3-Trichlorobenzene	50.0	37.1		ug/L		74	51 - 145
1,2,3-Trichloropropane	50.0	54.9		ug/L		110	50 - 133
1,2,4-Trichlorobenzene	50.0	39.3		ug/L		79	57 - 137
1,2,4-Trimethylbenzene	50.0	52.6		ug/L		105	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.4		ug/L		83	56 - 123
1,2-Dibromoethane (EDB)	50.0	52.5		ug/L		105	70 - 125
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	47.8		ug/L		96	68 - 127
1,2-Dichloropropane	50.0	50.6		ug/L		101	67 - 130
1,3,5-Trimethylbenzene	50.0	52.7		ug/L		105	70 - 123
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 125
1,3-Dichloropropane	50.0	51.9		ug/L		104	62 - 136
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 120
2,2-Dichloropropane	50.0	42.3		ug/L		85	58 - 139
2-Chlorotoluene	50.0	53.3		ug/L		107	70 - 125
4-Chlorotoluene	50.0	53.7		ug/L		107	68 - 124
Benzene	50.0	44.0		ug/L		88	70 - 120
Bromobenzene	50.0	56.1		ug/L		112	70 - 122
Bromochloromethane	50.0	43.8		ug/L		88	65 - 122
Bromodichloromethane	50.0	48.0		ug/L		96	69 - 120
Bromoform	50.0	57.4		ug/L		115	56 - 132

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

Lab Sample ID: LCS 500-745111/4
Matrix: Water
Analysis Batch: 745111

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	40.3		ug/L		81	40 - 152
Carbon tetrachloride	50.0	46.3		ug/L		93	59 - 133
Chlorobenzene	50.0	48.8		ug/L		98	70 - 120
Chloroethane	50.0	40.8		ug/L		82	48 - 136
Chloroform	50.0	44.2		ug/L		88	70 - 120
Chloromethane	50.0	51.0		ug/L		102	56 - 152
cis-1,2-Dichloroethene	50.0	42.4		ug/L		85	70 - 125
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	64 - 127
Dibromochloromethane	50.0	52.6		ug/L		105	68 - 125
Dibromomethane	50.0	48.6		ug/L		97	70 - 120
Dichlorodifluoromethane	50.0	42.5		ug/L		85	40 - 159
Ethylbenzene	50.0	46.9		ug/L		94	70 - 123
Hexachlorobutadiene	50.0	38.3		ug/L		77	51 - 150
Isopropylbenzene	50.0	52.3		ug/L		105	70 - 126
Methyl tert-butyl ether	50.0	43.9		ug/L		88	55 - 123
Methylene Chloride	50.0	38.8		ug/L		78	69 - 125
Naphthalene	50.0	40.4		ug/L		81	53 - 144
n-Butylbenzene	50.0	48.9		ug/L		98	68 - 125
N-Propylbenzene	50.0	52.6		ug/L		105	69 - 127
p-Isopropyltoluene	50.0	52.7		ug/L		105	70 - 125
sec-Butylbenzene	50.0	51.1		ug/L		102	70 - 123
Styrene	50.0	53.3		ug/L		107	70 - 120
tert-Butylbenzene	50.0	54.4		ug/L		109	70 - 121
Tetrachloroethene	50.0	47.4		ug/L		95	70 - 128
Toluene	50.0	43.6		ug/L		87	70 - 125
trans-1,2-Dichloroethene	50.0	40.0		ug/L		80	70 - 125
trans-1,3-Dichloropropene	50.0	55.6		ug/L		111	62 - 128
Trichloroethene	50.0	64.8	*+	ug/L		130	70 - 125
Trichlorofluoromethane	50.0	44.5		ug/L		89	55 - 128
Vinyl chloride	50.0	41.4		ug/L		83	64 - 126
Xylenes, Total	100	102		ug/L		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*92*		*75 - 120*

Lab Sample ID: 500-243217-4 MS
Matrix: Water
Analysis Batch: 745111

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	<0.46		50.0	47.5		ug/L		95	70 - 125
1,1,1-Trichloroethane	<0.38		50.0	43.6		ug/L		87	70 - 125
1,1,2,2-Tetrachloroethane	<0.40	*- F1	50.0	21.0	F1	ug/L		42	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	46.8		ug/L		94	71 - 130
1,1-Dichloroethane	<0.41		50.0	43.9		ug/L		88	70 - 125

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

Lab Sample ID: 500-243217-4 MS
Matrix: Water
Analysis Batch: 745111

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	<0.39		50.0	37.9		ug/L		76	67 - 122
1,1-Dichloropropene	<0.30		50.0	46.4		ug/L		93	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	40.1		ug/L		80	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	55.5		ug/L		111	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	39.4		ug/L		79	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	50.5		ug/L		101	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	45.4		ug/L		91	56 - 123
1,2-Dibromoethane (EDB)	<0.39		50.0	50.1		ug/L		100	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	46.8		ug/L		94	70 - 125
1,2-Dichloroethane	<0.39		50.0	45.6		ug/L		91	68 - 127
1,2-Dichloropropane	<0.43		50.0	47.7		ug/L		95	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	50.7		ug/L		101	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	48.8		ug/L		98	70 - 125
1,3-Dichloropropane	<0.36		50.0	49.5		ug/L		99	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	47.8		ug/L		96	70 - 120
2,2-Dichloropropane	<0.44		50.0	40.1		ug/L		80	58 - 139
2-Chlorotoluene	<0.31		50.0	52.6		ug/L		105	70 - 125
4-Chlorotoluene	<0.35		50.0	52.3		ug/L		105	68 - 124
Benzene	<0.15		50.0	42.4		ug/L		85	70 - 120
Bromobenzene	<0.36		50.0	55.1		ug/L		110	70 - 122
Bromochloromethane	<0.43		50.0	43.0		ug/L		86	65 - 122
Bromodichloromethane	<0.37		50.0	45.5		ug/L		91	69 - 120
Bromoform	<0.48		50.0	54.7		ug/L		109	56 - 132
Bromomethane	<0.80		50.0	43.0		ug/L		86	40 - 152
Carbon tetrachloride	<0.38		50.0	45.9		ug/L		92	59 - 133
Chlorobenzene	<0.39		50.0	46.8		ug/L		94	70 - 120
Chloroethane	<0.51		50.0	43.6		ug/L		87	48 - 136
Chloroform	<0.37		50.0	43.4		ug/L		87	70 - 120
Chloromethane	<0.32		50.0	55.5		ug/L		111	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	42.1		ug/L		84	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	49.6		ug/L		99	64 - 127
Dibromochloromethane	<0.49		50.0	50.3		ug/L		101	68 - 125
Dibromomethane	<0.27		50.0	47.8		ug/L		96	70 - 120
Dichlorodifluoromethane	<0.67		50.0	46.6		ug/L		93	40 - 159
Ethylbenzene	<0.18		50.0	45.4		ug/L		91	70 - 123
Hexachlorobutadiene	<0.45	F2	50.0	34.5		ug/L		69	51 - 150
Isopropylbenzene	<0.39		50.0	52.0		ug/L		104	70 - 126
Methyl tert-butyl ether	<0.39		50.0	42.5		ug/L		85	55 - 123
Methylene Chloride	<1.6		50.0	38.1		ug/L		76	69 - 125
Naphthalene	0.60	J B	50.0	43.7		ug/L		86	53 - 144
n-Butylbenzene	<0.39		50.0	45.3		ug/L		91	68 - 125
N-Propylbenzene	<0.41		50.0	51.9		ug/L		104	69 - 127
p-Isopropyltoluene	<0.36		50.0	49.3		ug/L		99	70 - 125
sec-Butylbenzene	<0.40		50.0	48.9		ug/L		98	70 - 123
Styrene	<0.39		50.0	50.4		ug/L		101	70 - 120
tert-Butylbenzene	<0.40		50.0	51.9		ug/L		104	70 - 121
Tetrachloroethene	<0.37		50.0	45.5		ug/L		91	70 - 128
Toluene	<0.15		50.0	42.5		ug/L		85	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	39.8		ug/L		80	70 - 125

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

Lab Sample ID: 500-243217-4 MS
Matrix: Water
Analysis Batch: 745111

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	<0.36		50.0	51.3		ug/L		103	62 - 128
Trichloroethene	<0.16	*+	50.0	55.2		ug/L		110	70 - 125
Trichlorofluoromethane	<0.43		50.0	48.5		ug/L		97	55 - 128
Vinyl chloride	<0.20		50.0	44.0		ug/L		88	64 - 126
Xylenes, Total	<0.22		100	97.4		ug/L		97	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*
Dibromofluoromethane	*95*		*75 - 120*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: 500-243217-4 MSD
Matrix: Water
Analysis Batch: 745111

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46		50.0	47.9		ug/L		96	70 - 125	1	20
1,1,1-Trichloroethane	<0.38		50.0	42.5		ug/L		85	70 - 125	3	20
1,1,2,2-Tetrachloroethane	<0.40	*- F1	50.0	20.0	F1	ug/L		40	62 - 140	5	20
1,1,2-Trichloroethane	<0.35		50.0	47.3		ug/L		95	71 - 130	1	20
1,1-Dichloroethane	<0.41		50.0	43.3		ug/L		87	70 - 125	1	20
1,1-Dichloroethene	<0.39		50.0	36.8		ug/L		74	67 - 122	3	20
1,1-Dichloropropene	<0.30		50.0	46.3		ug/L		93	70 - 121	0	20
1,2,3-Trichlorobenzene	<0.46		50.0	43.5		ug/L		87	51 - 145	8	20
1,2,3-Trichloropropane	<0.41		50.0	51.2		ug/L		102	50 - 133	8	20
1,2,4-Trichlorobenzene	<0.34		50.0	43.6		ug/L		87	57 - 137	10	20
1,2,4-Trimethylbenzene	<0.36		50.0	53.3		ug/L		107	70 - 123	5	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	44.9		ug/L		90	56 - 123	1	20
1,2-Dibromoethane (EDB)	<0.39		50.0	49.8		ug/L		100	70 - 125	1	20
1,2-Dichlorobenzene	<0.33		50.0	48.5		ug/L		97	70 - 125	3	20
1,2-Dichloroethane	<0.39		50.0	46.2		ug/L		92	68 - 127	1	20
1,2-Dichloropropane	<0.43		50.0	49.7		ug/L		99	67 - 130	4	20
1,3,5-Trimethylbenzene	<0.25		50.0	53.7		ug/L		107	70 - 123	6	20
1,3-Dichlorobenzene	<0.40		50.0	50.9		ug/L		102	70 - 125	4	20
1,3-Dichloropropane	<0.36		50.0	50.2		ug/L		100	62 - 136	1	20
1,4-Dichlorobenzene	<0.36		50.0	49.7		ug/L		99	70 - 120	4	20
2,2-Dichloropropane	<0.44		50.0	39.0		ug/L		78	58 - 139	3	20
2-Chlorotoluene	<0.31		50.0	53.8		ug/L		108	70 - 125	2	20
4-Chlorotoluene	<0.35		50.0	53.7		ug/L		107	68 - 124	3	20
Benzene	<0.15		50.0	43.3		ug/L		87	70 - 120	2	20
Bromobenzene	<0.36		50.0	56.2		ug/L		112	70 - 122	2	20
Bromochloromethane	<0.43		50.0	42.6		ug/L		85	65 - 122	1	20
Bromodichloromethane	<0.37		50.0	46.9		ug/L		94	69 - 120	3	20
Bromoform	<0.48		50.0	53.6		ug/L		107	56 - 132	2	20
Bromomethane	<0.80		50.0	40.0		ug/L		80	40 - 152	7	20
Carbon tetrachloride	<0.38		50.0	44.6		ug/L		89	59 - 133	3	20
Chlorobenzene	<0.39		50.0	48.1		ug/L		96	70 - 120	3	20

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

Lab Sample ID: 500-243217-4 MSD
Matrix: Water
Analysis Batch: 745111

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroethane	<0.51		50.0	41.2		ug/L		82	48 - 136	6	20
Chloroform	<0.37		50.0	43.1		ug/L		86	70 - 120	1	20
Chloromethane	<0.32		50.0	51.3		ug/L		103	56 - 152	8	20
cis-1,2-Dichloroethene	<0.41		50.0	41.2		ug/L		82	70 - 125	2	20
cis-1,3-Dichloropropene	<0.42		50.0	52.4		ug/L		105	64 - 127	5	20
Dibromochloromethane	<0.49		50.0	50.4		ug/L		101	68 - 125	0	20
Dibromomethane	<0.27		50.0	47.6		ug/L		95	70 - 120	0	20
Dichlorodifluoromethane	<0.67		50.0	44.4		ug/L		89	40 - 159	5	20
Ethylbenzene	<0.18		50.0	46.4		ug/L		93	70 - 123	2	20
Hexachlorobutadiene	<0.45	F2	50.0	43.8	F2	ug/L		88	51 - 150	24	20
Isopropylbenzene	<0.39		50.0	52.8		ug/L		106	70 - 126	2	20
Methyl tert-butyl ether	<0.39		50.0	40.5		ug/L		81	55 - 123	5	20
Methylene Chloride	<1.6		50.0	37.9		ug/L		76	69 - 125	1	20
Naphthalene	0.60	J B	50.0	44.2		ug/L		87	53 - 144	1	20
n-Butylbenzene	<0.39		50.0	50.3		ug/L		101	68 - 125	11	20
N-Propylbenzene	<0.41		50.0	53.0		ug/L		106	69 - 127	2	20
p-Isopropyltoluene	<0.36		50.0	53.7		ug/L		107	70 - 125	9	20
sec-Butylbenzene	<0.40		50.0	53.0		ug/L		106	70 - 123	8	20
Styrene	<0.39		50.0	52.3		ug/L		105	70 - 120	4	20
tert-Butylbenzene	<0.40		50.0	55.9		ug/L		112	70 - 121	7	20
Tetrachloroethene	<0.37		50.0	46.8		ug/L		94	70 - 128	3	20
Toluene	<0.15		50.0	43.3		ug/L		87	70 - 125	2	20
trans-1,2-Dichloroethene	<0.35		50.0	38.7		ug/L		77	70 - 125	3	20
trans-1,3-Dichloropropene	<0.36		50.0	53.4		ug/L		107	62 - 128	4	20
Trichloroethene	<0.16	*+	50.0	56.5		ug/L		113	70 - 125	2	20
Trichlorofluoromethane	<0.43		50.0	45.1		ug/L		90	55 - 128	7	20
Vinyl chloride	<0.20		50.0	40.5		ug/L		81	64 - 126	8	20
Xylenes, Total	<0.22		100	99.2		ug/L		99	70 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*92*		*75 - 120*

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

Lab Sample ID: MB 500-744700/1-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/01/23 12:01	12/04/23 12:21	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/01/23 12:01	12/04/23 12:21	1
Acenaphthene	<0.25		0.80	0.25	ug/L		12/01/23 12:01	12/04/23 12:21	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/01/23 12:01	12/04/23 12:21	1
Anthracene	<0.27		0.80	0.27	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		12/01/23 12:01	12/04/23 12:21	1

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

Lab Sample ID: MB 500-744700/1-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/01/23 12:01	12/04/23 12:21	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/01/23 12:01	12/04/23 12:21	1
Chrysene	<0.055		0.16	0.055	ug/L		12/01/23 12:01	12/04/23 12:21	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/01/23 12:01	12/04/23 12:21	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/01/23 12:01	12/04/23 12:21	1
Fluorene	<0.20		0.80	0.20	ug/L		12/01/23 12:01	12/04/23 12:21	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/01/23 12:01	12/04/23 12:21	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/01/23 12:01	12/04/23 12:21	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/01/23 12:01	12/04/23 12:21	1
Pyrene	<0.34		0.80	0.34	ug/L		12/01/23 12:01	12/04/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*12/01/23 12:01*	*12/04/23 12:21*	*1*
2-Fluorobiphenyl (Surr)	*65*		*34 - 110*	*12/01/23 12:01*	*12/04/23 12:21*	*1*
Terphenyl-d14 (Surr)	*105*		*40 - 145*	*12/01/23 12:01*	*12/04/23 12:21*	*1*

Lab Sample ID: LCS 500-744700/2-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	32.0	25.8		ug/L		81	38 - 110
2-Methylnaphthalene	32.0	25.6		ug/L		80	34 - 110
Acenaphthene	32.0	26.3		ug/L		82	46 - 110
Acenaphthylene	32.0	26.6		ug/L		83	47 - 113
Anthracene	32.0	29.3		ug/L		92	67 - 118
Benzo[a]anthracene	32.0	31.5		ug/L		99	70 - 126
Benzo[a]pyrene	32.0	34.6		ug/L		108	70 - 135
Benzo[b]fluoranthene	32.0	35.7		ug/L		112	69 - 136
Benzo[g,h,i]perylene	32.0	33.7		ug/L		105	70 - 135
Benzo[k]fluoranthene	32.0	34.1		ug/L		107	70 - 133
Chrysene	32.0	32.8		ug/L		102	68 - 129
Dibenz(a,h)anthracene	32.0	36.6		ug/L		114	70 - 134
Fluoranthene	32.0	29.7		ug/L		93	68 - 126
Fluorene	32.0	26.9		ug/L		84	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	35.9		ug/L		112	65 - 133
Naphthalene	32.0	24.2		ug/L		76	36 - 110
Phenanthrene	32.0	29.9		ug/L		94	65 - 120
Pyrene	32.0	34.6		ug/L		108	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*
2-Fluorobiphenyl (Surr)	*84*		*34 - 110*
Terphenyl-d14 (Surr)	*110*		*40 - 145*

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

Lab Sample ID: LCSD 500-744700/3-A
Matrix: Water
Analysis Batch: 744911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 744700

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	24.6		ug/L		77	38 - 110	5	20
2-Methylnaphthalene			32.0	24.3		ug/L		76	34 - 110	5	20
Acenaphthene			32.0	25.4		ug/L		79	46 - 110	3	20
Acenaphthylene			32.0	25.8		ug/L		81	47 - 113	3	20
Anthracene			32.0	28.8		ug/L		90	67 - 118	2	20
Benzo[a]anthracene			32.0	30.6		ug/L		96	70 - 126	3	20
Benzo[a]pyrene			32.0	33.8		ug/L		106	70 - 135	2	20
Benzo[b]fluoranthene			32.0	34.6		ug/L		108	69 - 136	3	20
Benzo[g,h,i]perylene			32.0	32.1		ug/L		100	70 - 135	5	20
Benzo[k]fluoranthene			32.0	33.5		ug/L		105	70 - 133	2	20
Chrysene			32.0	32.5		ug/L		101	68 - 129	1	20
Dibenz(a,h)anthracene			32.0	34.5		ug/L		108	70 - 134	6	20
Fluoranthene			32.0	28.9		ug/L		90	68 - 126	3	20
Fluorene			32.0	26.6		ug/L		83	53 - 120	1	20
Indeno[1,2,3-cd]pyrene			32.0	34.9		ug/L		109	65 - 133	3	20
Naphthalene			32.0	22.7		ug/L		71	36 - 110	6	20
Phenanthrene			32.0	28.9		ug/L		90	65 - 120	4	20
Pyrene			32.0	33.7		ug/L		105	70 - 126	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*
2-Fluorobiphenyl (Surr)	*81*		*34 - 110*
Terphenyl-d14 (Surr)	*105*		*40 - 145*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-694251/3
Matrix: Water
Analysis Batch: 694251

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/05/23 07:32	1

Lab Sample ID: LCS 480-694251/4
Matrix: Water
Analysis Batch: 694251

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.5	22.0		ug/L		113	85 - 120		

Lab Sample ID: LCSD 480-694251/5
Matrix: Water
Analysis Batch: 694251

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane			19.5	21.2		ug/L		109	85 - 120	4	50

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-746257/1-A
Matrix: Water
Analysis Batch: 746702

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0023		0.010	0.0023	mg/L		12/12/23 08:51	12/13/23 17:05	1

Lab Sample ID: MB 500-746257/1-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/12/23 08:51	12/14/23 22:09	1

Lab Sample ID: LCS 500-746257/2-A
Matrix: Water
Analysis Batch: 746702

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.480		mg/L		96	80 - 120

Lab Sample ID: LCS 500-746257/2-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.18		mg/L		118	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-744621/3
Matrix: Water
Analysis Batch: 744621

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/01/23 09:50	1

Lab Sample ID: LCS 500-744621/4
Matrix: Water
Analysis Batch: 744621

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.1		mg/L		101	90 - 110

Lab Sample ID: 500-243217-4 MS
Matrix: Water
Analysis Batch: 744621

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	25	F1	10.0	31.6	F1	mg/L		64	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-243217-4 MSD
Matrix: Water
Analysis Batch: 744621

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	25	F1	10.0	31.7	F1	mg/L		65	80 - 120	0	20

Lab Sample ID: MB 500-744622/3
Matrix: Water
Analysis Batch: 744622

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			12/01/23 09:50	1

Lab Sample ID: LCS 500-744622/4
Matrix: Water
Analysis Batch: 744622

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: 500-243217-4 MS
Matrix: Water
Analysis Batch: 744622

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.32	J	10.0	9.89		mg/L		96	80 - 120

Lab Sample ID: 500-243217-4 MSD
Matrix: Water
Analysis Batch: 744622

Client Sample ID: MW-111
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.32	J	10.0	9.91		mg/L		96	80 - 120	0	20

Lab Sample ID: MB 500-744820/3
Matrix: Water
Analysis Batch: 744820

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/02/23 20:17	1

Lab Sample ID: LCS 500-744820/4
Matrix: Water
Analysis Batch: 744820

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.6		mg/L		103	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-746242/3
Matrix: Water
Analysis Batch: 746242

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			12/11/23 11:31	1

Lab Sample ID: LCS 500-746242/4
Matrix: Water
Analysis Batch: 746242

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	90 - 110

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 500-744861/1
Matrix: Water
Analysis Batch: 744861

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.050		0.050	0.050	mg/L			12/04/23 03:04	1

Lab Sample ID: LCS 500-744861/2
Matrix: Water
Analysis Batch: 744861

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	0.500	0.500		mg/L		100	80 - 120

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: MW-125
Date Collected: 11/30/23 08:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	50	745111	W1T	EET CHI	12/05/23 15:17
Total/NA	Analysis	8260D		5	744935	W1T	EET CHI	12/04/23 13:24
Total/NA	Prep	3510C			744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E		2	745100	JSB	EET CHI	12/05/23 18:12
Total/NA	Prep	3510C	DL		744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E	DL	50	746032	SS	EET CHI	12/12/23 02:41
Total/NA	Analysis	RSK-175		44	694251	JLS	EET BUF	12/05/23 09:26
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746702	SJ	EET CHI	12/13/23 18:52
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 22:58
Total/NA	Analysis	300.0		1	744621	NMB	EET CHI	12/01/23 13:38
Total/NA	Analysis	300.0		1	744622	NMB	EET CHI	12/01/23 13:38
Total/NA	Analysis	SM 2320B		1	746242	SO	EET CHI	12/11/23 13:44
Dissolved	Analysis	SM 3500 Fe B		1	744861	CLB	EET CHI	12/04/23 03:16

Client Sample ID: MW-115
Date Collected: 11/30/23 10:15
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745111	W1T	EET CHI	12/05/23 15:40
Total/NA	Prep	3510C			744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E		1	744911	SS	EET CHI	12/04/23 18:07
Total/NA	Analysis	RSK-175		1	694251	JLS	EET BUF	12/05/23 09:44
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746702	SJ	EET CHI	12/13/23 18:56
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 23:02
Total/NA	Analysis	300.0		1	744622	NMB	EET CHI	12/01/23 13:53
Total/NA	Analysis	300.0		100	744820	NMB	EET CHI	12/03/23 01:26
Total/NA	Analysis	SM 2320B		1	746242	SO	EET CHI	12/11/23 13:54
Dissolved	Analysis	SM 3500 Fe B		1	744861	CLB	EET CHI	12/04/23 03:18

Client Sample ID: P-103
Date Collected: 11/30/23 13:40
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745111	W1T	EET CHI	12/05/23 16:03
Total/NA	Prep	3510C			744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E		1	744911	SS	EET CHI	12/04/23 18:29
Total/NA	Analysis	RSK-175		1	694251	JLS	EET BUF	12/05/23 10:03

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Client Sample ID: P-103
Date Collected: 11/30/23 13:40
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746702	SJ	EET CHI	12/13/23 19:01
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 23:07
Total/NA	Analysis	300.0		1	744621	NMB	EET CHI	12/01/23 14:09
Total/NA	Analysis	300.0		1	744622	NMB	EET CHI	12/01/23 14:09
Total/NA	Analysis	SM 2320B		1	746242	SO	EET CHI	12/11/23 14:03
Dissolved	Analysis	SM 3500 Fe B		1	744861	CLB	EET CHI	12/04/23 03:20

Client Sample ID: MW-111
Date Collected: 11/30/23 14:45
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745111	W1T	EET CHI	12/05/23 16:26
Total/NA	Prep	3510C			744700	DAK	EET CHI	12/01/23 12:01
Total/NA	Analysis	8270E		1	744911	SS	EET CHI	12/04/23 18:51
Total/NA	Analysis	RSK-175		1	694251	JLS	EET BUF	12/05/23 10:22
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746702	SJ	EET CHI	12/13/23 19:05
Dissolved	Prep	3005A			746257	BDE	EET CHI	12/12/23 08:51 - 12/12/23 09:21 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 23:11
Total/NA	Analysis	300.0		1	744621	NMB	EET CHI	12/01/23 14:24
Total/NA	Analysis	300.0		1	744622	NMB	EET CHI	12/01/23 14:24
Total/NA	Analysis	SM 2320B		1	746242	SO	EET CHI	12/11/23 14:12
Dissolved	Analysis	SM 3500 Fe B		1	744861	CLB	EET CHI	12/04/23 03:22

Client Sample ID: Trip Blank
Date Collected: 11/30/23 00:00
Date Received: 12/01/23 10:00

Lab Sample ID: 500-243217-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	744942	W1T	EET CHI	12/04/23 16:14

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243217-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-24
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00378	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-24
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lavzon	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-118892-48444 2
Client Contact: Mr Mark Manthey	Phone: (262)203-1294	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin: WI	Page: ~~Page 2 of 4~~ Page 1 of 1
Company: Tetra Tech GEO	PWSID:	Analysis Requested		Job #: 500-243217

Address: 13555 Bishops Ct Suite 201	Due Date Requested:	
City: Brookfield	TAT Requested (days):	
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No	
Phone: 262-792-1282(Tel)	PO #: NEEDED	500-243217 COC
Email: mark manthey@tetratech com	WO #:	
Project Name: Beazer Oak Creek	Project #: 50007178	
Site:	SSOW#:	

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, Y Trizma, Z other (specify)
Other

Sample Identification	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)	8270E - PAH	8260D - VOC	2320B, 300.0_28D, 300_48HR	6010D - Manganese/Iron	3500_Fe_2_B_Calc - Iron, Ferrous	RSK_175 - Methane	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	D	N	A	A		
1 MW-125	11/30	8.45	G	Water	Y	N	X	X	X	X	X	X	X		
2 MW-115		10.15		Water											
3 P-103		13:40		Water											
4 MW-111		14.45		Water											
5 Trip Blank	—	—		Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by: Connor Lavzon	Date/Time: 11/30/23 16:00	Company: TT	Received by:	Date/Time: 12/1/23 1000	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: 2.2-720


MR MARK MANTHEY
TETRA TECH GEO
13555 BISHOPS CT
SUITE 201
BROOKFIELD, WI 53005
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3755
Part# 159469-434 MTW EXP 01/24
500-243217 Waybi
TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 634-6200
REF:
INV:
PO:
DEPT:
RMA:
FedEx
Express
TRK# 0221 7163 1500 7427
RETURNS MON-SAT
PRIORITY OVERNIGHT
79 JOTA
FedEx
TRK# 0221 7163 1500 7427
FRI - 01 DEC 12:00
PRIORITY OVERNIGHT
60484
IL-US
ORD
RT 519 5 12:00 A
ST 22
7427
12.01

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-182227.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-243217-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/14/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
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, Y - Trizma, 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)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-125 (500-243217-1)	11/30/23	08:45 Central		Water			X	3	
MW-115 (500-243217-2)	11/30/23	10:15 Central		Water			X	3	
P-103 (500-243217-3)	11/30/23	13:40 Central		Water			X	3	
MW-111 (500-243217-4)	11/30/23	14:45 Central		Water			X	3	

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

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: Stephanie Hernandez	Date/Time: 12/1/23 1515	Company EEIA	Received by: [signature]	Date/Time: 12/2/23 1000	Company FA
	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: 1.9 # 1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243217-1

Login Number: 243217
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins 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	2.0
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: Tetra Tech GEO

Job Number: 500-243217-1

Login Number: 243217
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 12/04/23 11:02 AM

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	1.4 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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 12/14/2023 3:46:31 PM

JOB DESCRIPTION

Beazer Oak Creek

JOB NUMBER

500-243282-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/14/2023 3:46:31 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job ID: 500-243282-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-243282-1

Receipt
The sample was received on 12/4/2023 9:50 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3º C.

Receipt Exceptions
The following sample(s) was received outside of holding time: Anions Nirate, and Ferrous Iron analysis.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) for analytical batch 500-745187 recovered outside control limits for the following analytes: Bromoform, Chloroethane, Chlorodibromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-745539 was outside the method criteria for the following analyte(s): 2-Methylnaphthalene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

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

Metals
Method 6010D: The initial low level calibration verification (ICVL) result for batch 746706 was above the upper control limit for Fe. Sample results were non-detects, and have been reported as qualified data.

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

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

General Chemistry
Method 300.0: The following sample was received outside of holding time: MW-102 (500-243282-1).

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Client Sample ID: MW-102

Lab Sample ID: 500-243282-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.042		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	120		5.0	1.0	mg/L	5		300.0	Total/NA
Alkalinity	370		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010D	Metals (ICP)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 3500 Fe B	Iron, Ferrous	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243282-1	MW-102	Water	12/01/23 08:15	12/04/23 09:50

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Client Sample ID: MW-102

Date Collected: 12/01/23 08:15
Date Received: 12/04/23 09:50

Lab Sample ID: 500-243282-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/05/23 15:36	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/05/23 15:36	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/05/23 15:36	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/05/23 15:36	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/05/23 15:36	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/05/23 15:36	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/05/23 15:36	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/05/23 15:36	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/05/23 15:36	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/05/23 15:36	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/05/23 15:36	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/05/23 15:36	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/05/23 15:36	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/05/23 15:36	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/05/23 15:36	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/05/23 15:36	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/05/23 15:36	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/05/23 15:36	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/05/23 15:36	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/05/23 15:36	1
Benzene	<0.15		0.50	0.15	ug/L			12/05/23 15:36	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/05/23 15:36	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/05/23 15:36	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/05/23 15:36	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			12/05/23 15:36	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/05/23 15:36	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/05/23 15:36	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
Chloroethane	<0.51	*+	5.0	0.51	ug/L			12/05/23 15:36	1
Chloroform	<0.37		2.0	0.37	ug/L			12/05/23 15:36	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/05/23 15:36	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/05/23 15:36	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/05/23 15:36	1
Dibromochloromethane	<0.49	*+	1.0	0.49	ug/L			12/05/23 15:36	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/05/23 15:36	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/05/23 15:36	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/05/23 15:36	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/05/23 15:36	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/05/23 15:36	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/05/23 15:36	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/05/23 15:36	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/05/23 15:36	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/05/23 15:36	1

Client Sample ID: MW-102
Date Collected: 12/01/23 08:15
Date Received: 12/04/23 09:50

Lab Sample ID: 500-243282-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 15:36	1
Styrene	<0.39		1.0	0.39	ug/L			12/05/23 15:36	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 15:36	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/05/23 15:36	1
Toluene	<0.15		0.50	0.15	ug/L			12/05/23 15:36	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/05/23 15:36	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/05/23 15:36	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/05/23 15:36	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/05/23 15:36	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/05/23 15:36	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/05/23 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*12/05/23 15:36*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/05/23 15:36*	*1*
Dibromofluoromethane	*106*		*75 - 120*		*12/05/23 15:36*	*1*
Toluene-d8 (Surr)	*119*		*75 - 120*		*12/05/23 15:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/06/23 07:18	12/07/23 19:51	1
2-Methylnaphthalene	<0.051		1.6	0.051	ug/L		12/06/23 07:18	12/07/23 19:51	1
Acenaphthene	<0.24		0.79	0.24	ug/L		12/06/23 07:18	12/07/23 19:51	1
Acenaphthylene	<0.21		0.79	0.21	ug/L		12/06/23 07:18	12/07/23 19:51	1
Anthracene	<0.26		0.79	0.26	ug/L		12/06/23 07:18	12/07/23 19:51	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/06/23 07:18	12/07/23 19:51	1
Benzo[a]pyrene	<0.078		0.16	0.078	ug/L		12/06/23 07:18	12/07/23 19:51	1
Benzo[b]fluoranthene	<0.064		0.16	0.064	ug/L		12/06/23 07:18	12/07/23 19:51	1
Benzo[g,h,i]perylene	<0.30		0.79	0.30	ug/L		12/06/23 07:18	12/07/23 19:51	1
Benzo[k]fluoranthene	<0.050		0.16	0.050	ug/L		12/06/23 07:18	12/07/23 19:51	1
Chrysene	<0.054		0.16	0.054	ug/L		12/06/23 07:18	12/07/23 19:51	1
Dibenz(a,h)anthracene	<0.040		0.24	0.040	ug/L		12/06/23 07:18	12/07/23 19:51	1
Fluoranthene	<0.36		0.79	0.36	ug/L		12/06/23 07:18	12/07/23 19:51	1
Fluorene	<0.19		0.79	0.19	ug/L		12/06/23 07:18	12/07/23 19:51	1
Indeno[1,2,3-cd]pyrene	<0.059		0.16	0.059	ug/L		12/06/23 07:18	12/07/23 19:51	1
Naphthalene	<0.24		0.79	0.24	ug/L		12/06/23 07:18	12/07/23 19:51	1
Phenanthrene	<0.24		0.79	0.24	ug/L		12/06/23 07:18	12/07/23 19:51	1
Pyrene	<0.34		0.79	0.34	ug/L		12/06/23 07:18	12/07/23 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*50*		*36 - 120*	*12/06/23 07:18*	*12/07/23 19:51*	*1*
2-Fluorobiphenyl (Surr)	*49*		*34 - 110*	*12/06/23 07:18*	*12/07/23 19:51*	*1*
Terphenyl-d14 (Surr)	*78*		*40 - 145*	*12/06/23 07:18*	*12/07/23 19:51*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/06/23 10:34	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082	^1+	0.20	0.082	mg/L		12/13/23 09:21	12/13/23 23:28	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Client Sample ID: MW-102
Date Collected: 12/01/23 08:15
Date Received: 12/04/23 09:50

Lab Sample ID: 500-243282-1
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.042**		0.010	0.0023	mg/L		12/13/23 09:21	12/13/23 23:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043	H3	1.0	0.043	mg/L			12/04/23 12:24	1
Sulfate (EPA 300.0)	**120**		5.0	1.0	mg/L			12/05/23 10:03	5
Alkalinity (SM 2320B)	**370**		5.0	3.7	mg/L			12/12/23 12:04	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/05/23 22:55	1

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

General Chemistry

Qualifier	Qualifier Description
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

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: 745187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	8260D	
MB 500-745187/8	Method Blank	Total/NA	Water	8260D	
LCS 500-745187/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-745187/6	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 745297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	3510C	
MB 500-745297/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-745297/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-745297/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 745534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	8270E	745297

Analysis Batch: 745539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-745297/1-A	Method Blank	Total/NA	Water	8270E	745297
LCS 500-745297/2-A	Lab Control Sample	Total/NA	Water	8270E	745297
LCSD 500-745297/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	745297

GC VOA

Analysis Batch: 694406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	RSK-175	
MB 480-694406/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694406/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-694406/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 746486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Dissolved	Water	3005A	
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-243282-1 MS	MW-102	Dissolved	Water	3005A	
500-243282-1 MSD	MW-102	Dissolved	Water	3005A	
500-243282-1 DU	MW-102	Dissolved	Water	3005A	

Analysis Batch: 746706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Dissolved	Water	6010D	746486
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	6010D	746486
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746486
500-243282-1 MS	MW-102	Dissolved	Water	6010D	746486
500-243282-1 MSD	MW-102	Dissolved	Water	6010D	746486
500-243282-1 DU	MW-102	Dissolved	Water	6010D	746486

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

General Chemistry

Analysis Batch: 744970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	300.0	
MB 500-744970/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744970/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 745084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	300.0	
MB 500-745084/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745084/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 745290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Dissolved	Water	SM 3500 Fe B	
MB 500-745290/1	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 500-745290/2	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
500-243282-1 MS	MW-102	Dissolved	Water	SM 3500 Fe B	
500-243282-1 MSD	MW-102	Dissolved	Water	SM 3500 Fe B	

Analysis Batch: 746449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243282-1	MW-102	Total/NA	Water	SM 2320B	
MB 500-746449/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-746449/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Method: 8260D - 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	(75-126)	(72-124)	(75-120)	(75-120)
500-243282-1	MW-102	100	100	106	119
LCS 500-745187/5	Lab Control Sample	96	105	98	115
LCSD 500-745187/6	Lab Control Sample Dup	98	105	100	113
MB 500-745187/8	Method Blank	98	99	95	115

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-243282-1	MW-102	50	49	78
LCS 500-745297/2-A	Lab Control Sample	65	62	93
LCSD 500-745297/3-A	Lab Control Sample Dup	57	55	84
MB 500-745297/1-A	Method Blank	63	60	91

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-745187/8
Matrix: Water
Analysis Batch: 745187

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/05/23 14:04	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/05/23 14:04	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/05/23 14:04	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/05/23 14:04	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/05/23 14:04	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/05/23 14:04	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/05/23 14:04	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/05/23 14:04	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/05/23 14:04	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/05/23 14:04	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/05/23 14:04	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/05/23 14:04	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/05/23 14:04	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/05/23 14:04	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/05/23 14:04	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/05/23 14:04	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/05/23 14:04	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/05/23 14:04	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/05/23 14:04	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/05/23 14:04	1
Benzene	<0.15		0.50	0.15	ug/L			12/05/23 14:04	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/05/23 14:04	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/05/23 14:04	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/05/23 14:04	1
Bromoform	<0.48		1.0	0.48	ug/L			12/05/23 14:04	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/05/23 14:04	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/05/23 14:04	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/05/23 14:04	1
Chloroform	<0.37		2.0	0.37	ug/L			12/05/23 14:04	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/05/23 14:04	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/05/23 14:04	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/05/23 14:04	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/05/23 14:04	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/05/23 14:04	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/05/23 14:04	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/05/23 14:04	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/05/23 14:04	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/05/23 14:04	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/05/23 14:04	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/05/23 14:04	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/05/23 14:04	1

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

Lab Sample ID: MB 500-745187/8
Matrix: Water
Analysis Batch: 745187

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/05/23 14:04	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 14:04	1
Styrene	<0.39		1.0	0.39	ug/L			12/05/23 14:04	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/05/23 14:04	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/05/23 14:04	1
Toluene	<0.15		0.50	0.15	ug/L			12/05/23 14:04	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/05/23 14:04	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/05/23 14:04	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/05/23 14:04	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/05/23 14:04	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/05/23 14:04	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/05/23 14:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*		*12/05/23 14:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*12/05/23 14:04*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*12/05/23 14:04*	*1*
Toluene-d8 (Surr)	*115*		*75 - 120*		*12/05/23 14:04*	*1*

Lab Sample ID: LCS 500-745187/5
Matrix: Water
Analysis Batch: 745187

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	56.5		ug/L		113	70 - 125
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	62 - 140
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	71 - 130
1,1-Dichloroethane	50.0	43.5		ug/L		87	70 - 125
1,1-Dichloroethene	50.0	39.3		ug/L		79	67 - 122
1,1-Dichloropropene	50.0	44.4		ug/L		89	70 - 121
1,2,3-Trichlorobenzene	50.0	51.2		ug/L		102	51 - 145
1,2,3-Trichloropropane	50.0	48.2		ug/L		96	50 - 133
1,2,4-Trichlorobenzene	50.0	54.9		ug/L		110	57 - 137
1,2,4-Trimethylbenzene	50.0	51.1		ug/L		102	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	45.6		ug/L		91	56 - 123
1,2-Dibromoethane (EDB)	50.0	48.2		ug/L		96	70 - 125
1,2-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 125
1,2-Dichloroethane	50.0	45.8		ug/L		92	68 - 127
1,2-Dichloropropane	50.0	42.6		ug/L		85	67 - 130
1,3,5-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 123
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 125
1,3-Dichloropropane	50.0	45.2		ug/L		90	62 - 136
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 120
2,2-Dichloropropane	50.0	41.4		ug/L		83	58 - 139
2-Chlorotoluene	50.0	47.2		ug/L		94	70 - 125
4-Chlorotoluene	50.0	47.9		ug/L		96	68 - 124
Benzene	50.0	43.3		ug/L		87	70 - 120

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

Lab Sample ID: LCS 500-745187/5
Matrix: Water
Analysis Batch: 745187

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	47.6		ug/L		95	70 - 122
Bromochloromethane	50.0	43.7		ug/L		87	65 - 122
Bromodichloromethane	50.0	52.8		ug/L		106	69 - 120
Bromoform	50.0	69.3	*+	ug/L		139	56 - 132
Bromomethane	50.0	42.0		ug/L		84	40 - 152
Carbon tetrachloride	50.0	60.2		ug/L		120	59 - 133
Chlorobenzene	50.0	45.7		ug/L		91	70 - 120
Chloroethane	50.0	67.0		ug/L		134	48 - 136
Chloroform	50.0	44.5		ug/L		89	70 - 120
Chloromethane	50.0	37.1		ug/L		74	56 - 152
cis-1,2-Dichloroethene	50.0	43.7		ug/L		87	70 - 125
cis-1,3-Dichloropropene	50.0	50.7		ug/L		101	64 - 127
Dibromochloromethane	50.0	66.1	*+	ug/L		132	68 - 125
Dibromomethane	50.0	45.1		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	37.8		ug/L		76	40 - 159
Ethylbenzene	50.0	46.5		ug/L		93	70 - 123
Hexachlorobutadiene	50.0	51.1		ug/L		102	51 - 150
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 126
Methyl tert-butyl ether	50.0	43.0		ug/L		86	55 - 123
Methylene Chloride	50.0	38.5		ug/L		77	69 - 125
Naphthalene	50.0	59.4		ug/L		119	53 - 144
n-Butylbenzene	50.0	52.6		ug/L		105	68 - 125
N-Propylbenzene	50.0	48.1		ug/L		96	69 - 127
p-Isopropyltoluene	50.0	49.7		ug/L		99	70 - 125
sec-Butylbenzene	50.0	47.7		ug/L		95	70 - 123
Styrene	50.0	45.6		ug/L		91	70 - 120
tert-Butylbenzene	50.0	48.4		ug/L		97	70 - 121
Tetrachloroethene	50.0	49.5		ug/L		99	70 - 128
Toluene	50.0	44.7		ug/L		89	70 - 125
trans-1,2-Dichloroethene	50.0	43.4		ug/L		87	70 - 125
trans-1,3-Dichloropropene	50.0	52.0		ug/L		104	62 - 128
Trichloroethene	50.0	46.3		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	44.0		ug/L		88	55 - 128
Vinyl chloride	50.0	35.5		ug/L		71	64 - 126
Xylenes, Total	100	89.6		ug/L		90	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*115*		*75 - 120*

Lab Sample ID: LCSD 500-745187/6
Matrix: Water
Analysis Batch: 745187

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	55.4		ug/L		111	70 - 125	2	20

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

Lab Sample ID: LCSD 500-745187/6
Matrix: Water
Analysis Batch: 745187

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	70 - 125	1	20
1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	62 - 140	0	20
1,1,2-Trichloroethane	50.0	45.2		ug/L		90	71 - 130	1	20
1,1-Dichloroethane	50.0	43.6		ug/L		87	70 - 125	0	20
1,1-Dichloroethene	50.0	38.6		ug/L		77	67 - 122	2	20
1,1-Dichloropropene	50.0	44.6		ug/L		89	70 - 121	1	20
1,2,3-Trichlorobenzene	50.0	49.6		ug/L		99	51 - 145	3	20
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	50 - 133	1	20
1,2,4-Trichlorobenzene	50.0	54.1		ug/L		108	57 - 137	1	20
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	70 - 123	1	20
1,2-Dibromo-3-Chloropropane	50.0	44.3		ug/L		89	56 - 123	3	20
1,2-Dibromoethane (EDB)	50.0	47.7		ug/L		95	70 - 125	1	20
1,2-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 125	1	20
1,2-Dichloroethane	50.0	45.7		ug/L		91	68 - 127	0	20
1,2-Dichloropropane	50.0	43.0		ug/L		86	67 - 130	1	20
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	70 - 123	2	20
1,3-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 125	0	20
1,3-Dichloropropane	50.0	45.2		ug/L		90	62 - 136	0	20
1,4-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 120	1	20
2,2-Dichloropropane	50.0	41.3		ug/L		83	58 - 139	0	20
2-Chlorotoluene	50.0	46.9		ug/L		94	70 - 125	1	20
4-Chlorotoluene	50.0	48.0		ug/L		96	68 - 124	0	20
Benzene	50.0	43.3		ug/L		87	70 - 120	0	20
Bromobenzene	50.0	47.6		ug/L		95	70 - 122	0	20
Bromochloromethane	50.0	43.4		ug/L		87	65 - 122	1	20
Bromodichloromethane	50.0	51.8		ug/L		104	69 - 120	2	20
Bromoform	50.0	65.2		ug/L		130	56 - 132	6	20
Bromomethane	50.0	46.3		ug/L		93	40 - 152	10	20
Carbon tetrachloride	50.0	58.7		ug/L		117	59 - 133	3	20
Chlorobenzene	50.0	45.3		ug/L		91	70 - 120	1	20
Chloroethane	50.0	68.4	*+	ug/L		137	48 - 136	2	20
Chloroform	50.0	44.4		ug/L		89	70 - 120	0	20
Chloromethane	50.0	41.3		ug/L		83	56 - 152	11	20
cis-1,2-Dichloroethene	50.0	43.4		ug/L		87	70 - 125	1	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	64 - 127	1	20
Dibromochloromethane	50.0	63.6	*+	ug/L		127	68 - 125	4	20
Dibromomethane	50.0	44.4		ug/L		89	70 - 120	2	20
Dichlorodifluoromethane	50.0	44.0		ug/L		88	40 - 159	15	20
Ethylbenzene	50.0	46.0		ug/L		92	70 - 123	1	20
Hexachlorobutadiene	50.0	50.1		ug/L		100	51 - 150	2	20
Isopropylbenzene	50.0	48.0		ug/L		96	70 - 126	1	20
Methyl tert-butyl ether	50.0	42.8		ug/L		86	55 - 123	0	20
Methylene Chloride	50.0	39.0		ug/L		78	69 - 125	1	20
Naphthalene	50.0	57.8		ug/L		116	53 - 144	3	20
n-Butylbenzene	50.0	52.2		ug/L		104	68 - 125	1	20
N-Propylbenzene	50.0	47.4		ug/L		95	69 - 127	1	20
p-Isopropyltoluene	50.0	49.2		ug/L		98	70 - 125	1	20
sec-Butylbenzene	50.0	47.3		ug/L		95	70 - 123	1	20
Styrene	50.0	45.7		ug/L		91	70 - 120	0	20

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

Lab Sample ID: LCSD 500-745187/6
Matrix: Water
Analysis Batch: 745187

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
tert-Butylbenzene			50.0	47.8		ug/L		96	70 - 121	1	20
Tetrachloroethene			50.0	48.6		ug/L		97	70 - 128	2	20
Toluene			50.0	43.9		ug/L		88	70 - 125	2	20
trans-1,2-Dichloroethene			50.0	43.1		ug/L		86	70 - 125	1	20
trans-1,3-Dichloropropene			50.0	51.9		ug/L		104	62 - 128	0	20
Trichloroethene			50.0	45.8		ug/L		92	70 - 125	1	20
Trichlorofluoromethane			50.0	50.3		ug/L		101	55 - 128	13	20
Vinyl chloride			50.0	40.9		ug/L		82	64 - 126	14	20
Xylenes, Total			100	89.0		ug/L		89	70 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*113*		*75 - 120*

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

Lab Sample ID: MB 500-745297/1-A
Matrix: Water
Analysis Batch: 745539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745297

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/06/23 07:18	12/07/23 13:28	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/06/23 07:18	12/07/23 13:28	1
Acenaphthene	<0.25		0.80	0.25	ug/L		12/06/23 07:18	12/07/23 13:28	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/06/23 07:18	12/07/23 13:28	1
Anthracene	<0.27		0.80	0.27	ug/L		12/06/23 07:18	12/07/23 13:28	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/06/23 07:18	12/07/23 13:28	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		12/06/23 07:18	12/07/23 13:28	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/06/23 07:18	12/07/23 13:28	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/06/23 07:18	12/07/23 13:28	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/06/23 07:18	12/07/23 13:28	1
Chrysene	<0.055		0.16	0.055	ug/L		12/06/23 07:18	12/07/23 13:28	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/06/23 07:18	12/07/23 13:28	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/06/23 07:18	12/07/23 13:28	1
Fluorene	<0.20		0.80	0.20	ug/L		12/06/23 07:18	12/07/23 13:28	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/06/23 07:18	12/07/23 13:28	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/06/23 07:18	12/07/23 13:28	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/06/23 07:18	12/07/23 13:28	1
Pyrene	<0.34		0.80	0.34	ug/L		12/06/23 07:18	12/07/23 13:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*36 - 120*	*12/06/23 07:18*	*12/07/23 13:28*	*1*
2-Fluorobiphenyl (Surr)	*60*		*34 - 110*	*12/06/23 07:18*	*12/07/23 13:28*	*1*
Terphenyl-d14 (Surr)	*91*		*40 - 145*	*12/06/23 07:18*	*12/07/23 13:28*	*1*

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

Lab Sample ID: LCS 500-745297/2-A
Matrix: Water
Analysis Batch: 745539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745297

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1-Methylnaphthalene			32.0	17.4		ug/L		54	38 - 110		
2-Methylnaphthalene			32.0	25.9		ug/L		81	34 - 110		
Acenaphthene			32.0	19.4		ug/L		61	46 - 110		
Acenaphthylene			32.0	20.3		ug/L		63	47 - 113		
Anthracene			32.0	25.5		ug/L		80	67 - 118		
Benzo[a]anthracene			32.0	28.1		ug/L		88	70 - 126		
Benzo[a]pyrene			32.0	30.3		ug/L		95	70 - 135		
Benzo[b]fluoranthene			32.0	30.6		ug/L		96	69 - 136		
Benzo[g,h,i]perylene			32.0	28.9		ug/L		90	70 - 135		
Benzo[k]fluoranthene			32.0	29.7		ug/L		93	70 - 133		
Chrysene			32.0	28.7		ug/L		90	68 - 129		
Dibenz(a,h)anthracene			32.0	31.8		ug/L		99	70 - 134		
Fluoranthene			32.0	28.0		ug/L		87	68 - 126		
Fluorene			32.0	22.3		ug/L		70	53 - 120		
Indeno[1,2,3-cd]pyrene			32.0	30.9		ug/L		96	65 - 133		
Naphthalene			32.0	16.5		ug/L		52	36 - 110		
Phenanthrene			32.0	25.2		ug/L		79	65 - 120		
Pyrene			32.0	28.3		ug/L		88	70 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*65*		*36 - 120*
2-Fluorobiphenyl (Surr)	*62*		*34 - 110*
Terphenyl-d14 (Surr)	*93*		*40 - 145*

Lab Sample ID: LCSD 500-745297/3-A
Matrix: Water
Analysis Batch: 745539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 745297

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	15.7		ug/L		49	38 - 110	10	20
2-Methylnaphthalene			32.0	23.2		ug/L		72	34 - 110	11	20
Acenaphthene			32.0	16.9		ug/L		53	46 - 110	14	20
Acenaphthylene			32.0	17.6		ug/L		55	47 - 113	14	20
Anthracene			32.0	22.5		ug/L		70	67 - 118	12	20
Benzo[a]anthracene			32.0	25.2		ug/L		79	70 - 126	11	20
Benzo[a]pyrene			32.0	27.3		ug/L		85	70 - 135	10	20
Benzo[b]fluoranthene			32.0	28.3		ug/L		88	69 - 136	8	20
Benzo[g,h,i]perylene			32.0	25.6		ug/L		80	70 - 135	12	20
Benzo[k]fluoranthene			32.0	27.0		ug/L		84	70 - 133	10	20
Chrysene			32.0	26.3		ug/L		82	68 - 129	9	20
Dibenz(a,h)anthracene			32.0	28.0		ug/L		88	70 - 134	12	20
Fluoranthene			32.0	25.0		ug/L		78	68 - 126	11	20
Fluorene			32.0	19.8		ug/L		62	53 - 120	12	20
Indeno[1,2,3-cd]pyrene			32.0	27.1		ug/L		85	65 - 133	13	20
Naphthalene			32.0	15.1		ug/L		47	36 - 110	9	20
Phenanthrene			32.0	22.3		ug/L		70	65 - 120	12	20
Pyrene			32.0	25.0		ug/L		78	70 - 126	12	20

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

Lab Sample ID: LCSD 500-745297/3-A
Matrix: Water
Analysis Batch: 745539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 745297

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*57*		*36 - 120*
2-Fluorobiphenyl (Surr)	*55*		*34 - 110*
Terphenyl-d14 (Surr)	*84*		*40 - 145*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-694406/3
Matrix: Water
Analysis Batch: 694406

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/06/23 07:14	1

Lab Sample ID: LCS 480-694406/4
Matrix: Water
Analysis Batch: 694406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.5	18.9		ug/L		97	85 - 120

Lab Sample ID: LCSD 480-694406/5
Matrix: Water
Analysis Batch: 694406

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.5	18.6		ug/L		95	85 - 120	2	50

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-746486/1-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082	^1+	0.20	0.082	mg/L		12/13/23 09:21	12/13/23 23:19	1
Manganese	<0.0023		0.010	0.0023	mg/L		12/13/23 09:21	12/13/23 23:19	1

Lab Sample ID: LCS 500-746486/2-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.991	^1+	mg/L		99	80 - 120
Manganese	0.500	0.510		mg/L		102	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-243282-1 MS
Matrix: Water
Analysis Batch: 746706

Client Sample ID: MW-102
Prep Type: Dissolved
Prep Batch: 746486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	<0.082	^1+	1.00	0.909	^1+	mg/L		91	75 - 125
Manganese	0.042		0.500	0.532		mg/L		98	75 - 125

Lab Sample ID: 500-243282-1 MSD
Matrix: Water
Analysis Batch: 746706

Client Sample ID: MW-102
Prep Type: Dissolved
Prep Batch: 746486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	<0.082	^1+	1.00	0.996	^1+	mg/L		100	75 - 125	9	20
Manganese	0.042		0.500	0.532		mg/L		98	75 - 125	0	20

Lab Sample ID: 500-243282-1 DU
Matrix: Water
Analysis Batch: 746706

Client Sample ID: MW-102
Prep Type: Dissolved
Prep Batch: 746486

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	<0.082	^1+	<0.082	^1+	mg/L		NC	20
Manganese	0.042		0.0418		mg/L		1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-744970/3
Matrix: Water
Analysis Batch: 744970

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			12/04/23 11:53	1

Lab Sample ID: LCS 500-744970/4
Matrix: Water
Analysis Batch: 744970

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.9		mg/L		105	90 - 110

Lab Sample ID: MB 500-745084/3
Matrix: Water
Analysis Batch: 745084

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/05/23 08:47	1

Lab Sample ID: LCS 500-745084/4
Matrix: Water
Analysis Batch: 745084

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.3		mg/L		101	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-746449/3
Matrix: Water
Analysis Batch: 746449

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			12/12/23 10:51	1

Lab Sample ID: LCS 500-746449/4
Matrix: Water
Analysis Batch: 746449

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	98.3		mg/L		98	90 - 110		

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 500-745290/1
Matrix: Water
Analysis Batch: 745290

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.050		0.050	0.050	mg/L			12/05/23 22:50	1

Lab Sample ID: LCS 500-745290/2
Matrix: Water
Analysis Batch: 745290

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			0.500	0.500		mg/L		100	80 - 120		

Lab Sample ID: 500-243282-1 MS
Matrix: Water
Analysis Batch: 745290

Client Sample ID: MW-102
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	<0.050	HF	0.500	0.500		mg/L		100	75 - 125		

Lab Sample ID: 500-243282-1 MSD
Matrix: Water
Analysis Batch: 745290

Client Sample ID: MW-102
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	<0.050	HF	0.500	0.500		mg/L		100	75 - 125	0	20

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Client Sample ID: MW-102

Date Collected: 12/01/23 08:15
Date Received: 12/04/23 09:50

Lab Sample ID: 500-243282-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745187	W1T	EET CHI	12/05/23 15:36
Total/NA	Prep	3510C			745297	AC	EET CHI	12/06/23 07:18
Total/NA	Analysis	8270E		1	745534	SS	EET CHI	12/07/23 19:51
Total/NA	Analysis	RSK-175		1	694406	JLS	EET BUF	12/06/23 10:34
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/13/23 23:28
Total/NA	Analysis	300.0		5	745084	NMB	EET CHI	12/05/23 10:03
Total/NA	Analysis	300.0		1	744970	NMB	EET CHI	12/04/23 12:24
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 12:04
Dissolved	Analysis	SM 3500 Fe B		1	745290	CLB	EET CHI	12/05/23 22:55

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243282-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-24
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00378	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-24
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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

Chain of Custody Record

eurofins

Client Information	Sampler: Connor Lawton	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-118892-48444 3
Client Contact: Mr Mark Manthey	Phone: (262)203-1294	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin:	Page: Page 1 of 4
Company: Tetra Tech GEO	PWSID:			Job #: 500-243283
Address: 13555 Bishops Ct Suite 201	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-792-1282(Tel)	PO #: NEEDED			
Email: mark manthey@tetratech com	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
Site:	SSOW#:			

Analysis Requested

500-243282 COC

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
Y - Trizma
Z - other (specify)
Other:

Sample Identification	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)	8270E - PAH	8260D - VOC	2320B, 300.0_28D, 300_48HR	6010D - Manganese/Iron	3500_Fe2_B_Calc - Iron, Ferrous	RSK_175 - Methane	8260B - VOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	D	N	A	A		
1 MW-107	12/1	8:15	G	Water	Y	N	X	X	X	X	X	X	X		
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Connor Lawton	12/1/23 16 00	T7		12/4/23 09.50	EETA
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: 1.4-1.3


MANTHEY
TECH GEO
BISHOPS CT
SUITE 201
BROOKFIELD, WI 53005
UNITED STATES US
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3755
Part # 159469-434 MTW EXP 01/24
500 243282 Waybi
SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.
UNIVERSITY PARK IL 60484
(708) 634-6200
REF
INV
PO:
DEPT
RMA
FedEx
Expre
FedEx
TRK# 0221 7163 1500 7357
SATURDAY 1:30P
PRIORITY OVERNIGHT
XO JOTA
60484
IL-US ORD
#227500G 12/01 583J1/7D12/9AE3

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-182334.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-243282-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/18/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
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, Y - Trizma, 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)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-102 (500-243282-1)	12/1/23	08:15 Central		Water			X	3	

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

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: [signature]	Date/Time: 12/4/23 1410	Company	Received by: [signature]	Date/Time: 12/5/23 1000	Company FV
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: 1.7 # 1 #1

Ver: 06/08/2021

12/14/2023

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243282-1

Login Number: 243282
List Number: 1
Creator: Schmidt, Kara

List Source: Eurofins 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	1.3
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)	False	Nitrate received past hold
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: Tetra Tech GEO

Job Number: 500-243282-1

Login Number: 243282
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 12/05/23 02:46 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	1.7 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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 12/15/2023 3:56:42 PM

JOB DESCRIPTION

Beazer Oak Creek

JOB NUMBER

500-243330-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/15/2023 3:56:42 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job ID: 500-243330-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-243330-1

Receipt
The samples were received on 12/5/2023 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 500-745385 recovered outside control limits for the following analytes: Carbon tetrachloride, Chloroethane, Bromoform and Chlorodibromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Methods 624.1, 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-123 (500-243330-4). Elevated reporting limits (RLs) are provided.

Method 8260D: The method blank for analytical batch 500-745742 contained Toluene, Methylene chloride, and Chloromethane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.(MB 500-745742/6)

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

GC/MS Semi VOA
Method 8270E: The following sample was diluted due to the nature of the sample matrix: MW-123 (500-243330-4). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: MW-123 (500-243330-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC VOA
Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-123 (500-243330-4). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010D: The initial low level calibration verification (ICVL) result for batch 746706 was above the upper control limit for Fe. Associated sample results were below reporting limits, and have been reported as qualified data.

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

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

General Chemistry
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: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-105 — Lab Sample ID: 500-243330-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3.7		1.0	0.36	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	2.0		1.0	0.25	ug/L	1		8260D	Total/NA
Benzene	1.3		0.50	0.15	ug/L	1		8260D	Total/NA
Ethylbenzene	1.5		0.50	0.18	ug/L	1		8260D	Total/NA
Naphthalene	110		1.0	0.34	ug/L	1		8260D	Total/NA
Toluene	3.6		0.50	0.15	ug/L	1		8260D	Total/NA
Xylenes, Total	8.5		1.0	0.22	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	12		1.5	0.23	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.56	J	1.5	0.049	ug/L	1		8270E	Total/NA
Acenaphthene	8.9		0.76	0.23	ug/L	1		8270E	Total/NA
Acenaphthylene	5.3		0.76	0.20	ug/L	1		8270E	Total/NA
Anthracene	2.7		0.76	0.25	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	4.9		0.15	0.043	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	4.2		0.15	0.075	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	5.3		0.15	0.061	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	2.2		0.76	0.28	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	2.2		0.15	0.049	ug/L	1		8270E	Total/NA
Chrysene	3.4		0.15	0.052	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.62		0.23	0.038	ug/L	1		8270E	Total/NA
Fluoranthene	16		0.76	0.34	ug/L	1		8270E	Total/NA
Fluorene	9.7		0.76	0.18	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.4		0.15	0.057	ug/L	1		8270E	Total/NA
Naphthalene	0.54	J	0.76	0.23	ug/L	1		8270E	Total/NA
Phenanthrene	24		0.76	0.23	ug/L	1		8270E	Total/NA
Pyrene	13		0.76	0.32	ug/L	1		8270E	Total/NA
Manganese	0.26		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	51		2.0	0.41	mg/L	2		300.0	Total/NA
Alkalinity	450		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-129 — Lab Sample ID: 500-243330-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.47	J	1.0	0.34	ug/L	1		8260D	Total/NA
Anthracene	0.40	J	0.79	0.26	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	1.3		0.16	0.045	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	1.2		0.16	0.078	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	1.5		0.16	0.064	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.70	J	0.79	0.30	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.56		0.16	0.051	ug/L	1		8270E	Total/NA
Chrysene	0.90		0.16	0.054	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.17	J	0.24	0.040	ug/L	1		8270E	Total/NA
Fluoranthene	3.4		0.79	0.36	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.68		0.16	0.059	ug/L	1		8270E	Total/NA
Phenanthrene	2.5		0.79	0.24	ug/L	1		8270E	Total/NA
Pyrene	3.0		0.79	0.34	ug/L	1		8270E	Total/NA
Manganese	0.0067	J	0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	140		5.0	1.0	mg/L	5		300.0	Total/NA
Alkalinity	470		5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-104 — Lab Sample ID: 500-243330-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.15		0.15	0.044	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.095	J	0.15	0.077	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.13	J	0.15	0.062	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.064	J	0.15	0.050	ug/L	1		8270E	Total/NA
Chrysene	0.085	J	0.15	0.053	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.071	J	0.15	0.058	ug/L	1		8270E	Total/NA
Iron	0.094	J ^1+	0.20	0.082	mg/L	1		6010D	Dissolved
Nitrate as N	0.19	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	64		2.0	0.41	mg/L	2		300.0	Total/NA
Alkalinity	340		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-123 — Lab Sample ID: 500-243330-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	100		1.0	0.36	ug/L	1		8260D	Total/NA
1,3,5-Trimethylbenzene	24		1.0	0.25	ug/L	1		8260D	Total/NA
Ethylbenzene	100		0.50	0.18	ug/L	1		8260D	Total/NA
Isopropylbenzene	6.8		1.0	0.39	ug/L	1		8260D	Total/NA
N-Propylbenzene	2.8		1.0	0.41	ug/L	1		8260D	Total/NA
p-Isopropyltoluene	2.0		1.0	0.36	ug/L	1		8260D	Total/NA
Toluene	23		0.50	0.15	ug/L	1		8260D	Total/NA
Benzene - DL	600		5.0	1.5	ug/L	10		8260D	Total/NA
Xylenes, Total - DL	390		10	2.2	ug/L	10		8260D	Total/NA
Naphthalene - DL2	3000		1000	340	ug/L	1000		8260D	Total/NA
1-Methylnaphthalene	180		16	2.4	ug/L	10		8270E	Total/NA
2-Methylnaphthalene	190		16	0.52	ug/L	10		8270E	Total/NA
Acenaphthene	120		8.0	2.5	ug/L	10		8270E	Total/NA
Acenaphthylene	5.3	J	8.0	2.1	ug/L	10		8270E	Total/NA
Anthracene	17		8.0	2.7	ug/L	10		8270E	Total/NA
Benzo[a]anthracene	11		1.6	0.45	ug/L	10		8270E	Total/NA
Benzo[a]pyrene	14		1.6	0.79	ug/L	10		8270E	Total/NA
Benzo[b]fluoranthene	17		1.6	0.64	ug/L	10		8270E	Total/NA
Benzo[g,h,i]perylene	8.0		8.0	3.0	ug/L	10		8270E	Total/NA
Benzo[k]fluoranthene	6.6		1.6	0.51	ug/L	10		8270E	Total/NA
Chrysene	9.5		1.6	0.54	ug/L	10		8270E	Total/NA
Dibenz(a,h)anthracene	2.3	J	2.4	0.40	ug/L	10		8270E	Total/NA
Fluoranthene	37		8.0	3.6	ug/L	10		8270E	Total/NA
Fluorene	74		8.0	1.9	ug/L	10		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	9.0		1.6	0.60	ug/L	10		8270E	Total/NA
Phenanthrene	92		8.0	2.4	ug/L	10		8270E	Total/NA
Pyrene	28		8.0	3.4	ug/L	10		8270E	Total/NA
Naphthalene - DL	2500		40	12	ug/L	50		8270E	Total/NA
Methane	430		180	44	ug/L	44		RSK-175	Total/NA
Iron	11		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	1.0		0.010	0.0023	mg/L	1		6010D	Dissolved
Alkalinity	450		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-243330-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.3	J B	5.0	0.32	ug/L	1		8260D	Total/NA
Methylene Chloride	3.7	J B	5.0	1.6	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank (Continued)

Lab Sample ID: 500-243330-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.19	J B	0.50	0.15	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010D	Metals (ICP)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 3500 Fe B	Iron, Ferrous	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243330-1	MW-105	Water	12/04/23 10:20	12/05/23 09:35
500-243330-2	MW-129	Water	12/04/23 12:20	12/05/23 09:35
500-243330-3	MW-104	Water	12/04/23 14:15	12/05/23 09:35
500-243330-4	MW-123	Water	12/04/23 15:20	12/05/23 09:35
500-243330-5	Trip Blank	Water	12/04/23 00:00	12/05/23 09:35

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-105
Date Collected: 12/04/23 10:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/23 19:02	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/23 19:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/23 19:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/23 19:02	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/23 19:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/23 19:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/23 19:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/06/23 19:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/23 19:02	1
1,2,4-Trimethylbenzene	**3.7**		1.0	0.36	ug/L			12/06/23 19:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/23 19:02	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/23 19:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/23 19:02	1
1,3,5-Trimethylbenzene	**2.0**		1.0	0.25	ug/L			12/06/23 19:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/23 19:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:02	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/06/23 19:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/23 19:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/23 19:02	1
Benzene	**1.3**		0.50	0.15	ug/L			12/06/23 19:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/23 19:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/23 19:02	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			12/06/23 19:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/06/23 19:02	1
Carbon tetrachloride	<0.38	*+	1.0	0.38	ug/L			12/06/23 19:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
Chloroethane	<0.51	*+	5.0	0.51	ug/L			12/06/23 19:02	1
Chloroform	<0.37		2.0	0.37	ug/L			12/06/23 19:02	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/06/23 19:02	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/23 19:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/23 19:02	1
Dibromochloromethane	<0.49	*+	1.0	0.49	ug/L			12/06/23 19:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/23 19:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/06/23 19:02	1
Ethylbenzene	**1.5**		0.50	0.18	ug/L			12/06/23 19:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/23 19:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/23 19:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/23 19:02	1
Naphthalene	**110**		1.0	0.34	ug/L			12/06/23 19:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/23 19:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/23 19:02	1

Client Sample ID: MW-105
Date Collected: 12/04/23 10:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:02	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/23 19:02	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/23 19:02	1
Toluene	**3.6**		0.50	0.15	ug/L			12/06/23 19:02	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/23 19:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/23 19:02	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/23 19:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/23 19:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/06/23 19:02	1
Xylenes, Total	**8.5**		1.0	0.22	ug/L			12/06/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*12/06/23 19:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/06/23 19:02*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*12/06/23 19:02*	*1*
Toluene-d8 (Surr)	*116*		*75 - 120*		*12/06/23 19:02*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**12**		1.5	0.23	ug/L		12/08/23 07:30	12/08/23 15:17	1
2-Methylnaphthalene	**0.56**	**J**	1.5	0.049	ug/L		12/08/23 07:30	12/08/23 15:17	1
Acenaphthene	**8.9**		0.76	0.23	ug/L		12/08/23 07:30	12/08/23 15:17	1
Acenaphthylene	**5.3**		0.76	0.20	ug/L		12/08/23 07:30	12/08/23 15:17	1
Anthracene	**2.7**		0.76	0.25	ug/L		12/08/23 07:30	12/08/23 15:17	1
Benzo[a]anthracene	**4.9**		0.15	0.043	ug/L		12/08/23 07:30	12/08/23 15:17	1
Benzo[a]pyrene	**4.2**		0.15	0.075	ug/L		12/08/23 07:30	12/08/23 15:17	1
Benzo[b]fluoranthene	**5.3**		0.15	0.061	ug/L		12/08/23 07:30	12/08/23 15:17	1
Benzo[g,h,i]perylene	**2.2**		0.76	0.28	ug/L		12/08/23 07:30	12/08/23 15:17	1
Benzo[k]fluoranthene	**2.2**		0.15	0.049	ug/L		12/08/23 07:30	12/08/23 15:17	1
Chrysene	**3.4**		0.15	0.052	ug/L		12/08/23 07:30	12/08/23 15:17	1
Dibenz(a,h)anthracene	**0.62**		0.23	0.038	ug/L		12/08/23 07:30	12/08/23 15:17	1
Fluoranthene	**16**		0.76	0.34	ug/L		12/08/23 07:30	12/08/23 15:17	1
Fluorene	**9.7**		0.76	0.18	ug/L		12/08/23 07:30	12/08/23 15:17	1
Indeno[1,2,3-cd]pyrene	**2.4**		0.15	0.057	ug/L		12/08/23 07:30	12/08/23 15:17	1
Naphthalene	**0.54**	**J**	0.76	0.23	ug/L		12/08/23 07:30	12/08/23 15:17	1
Phenanthrene	**24**		0.76	0.23	ug/L		12/08/23 07:30	12/08/23 15:17	1
Pyrene	**13**		0.76	0.32	ug/L		12/08/23 07:30	12/08/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*62*		*36 - 120*	*12/08/23 07:30*	*12/08/23 15:17*	*1*
2-Fluorobiphenyl (Surr)	*59*		*34 - 110*	*12/08/23 07:30*	*12/08/23 15:17*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 145*	*12/08/23 07:30*	*12/08/23 15:17*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 08:49	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 00:17	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-105
Date Collected: 12/04/23 10:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-1
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.26**		0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 00:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/05/23 17:54	1
Sulfate (EPA 300.0)	**51**		2.0	0.41	mg/L			12/06/23 10:52	2
Alkalinity (SM 2320B)	**450**		5.0	3.7	mg/L			12/12/23 13:03	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/05/23 23:02	1

Client Sample ID: MW-129
Date Collected: 12/04/23 12:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/23 19:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/23 19:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/23 19:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/23 19:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/23 19:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/23 19:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/23 19:25	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/06/23 19:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/23 19:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/23 19:25	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/23 19:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/23 19:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/23 19:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/23 19:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:25	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/06/23 19:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/23 19:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/23 19:25	1
Benzene	<0.15		0.50	0.15	ug/L			12/06/23 19:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/23 19:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/23 19:25	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			12/06/23 19:25	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/06/23 19:25	1
Carbon tetrachloride	<0.38	*+	1.0	0.38	ug/L			12/06/23 19:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
Chloroethane	<0.51	*+	5.0	0.51	ug/L			12/06/23 19:25	1
Chloroform	<0.37		2.0	0.37	ug/L			12/06/23 19:25	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/06/23 19:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/23 19:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/23 19:25	1
Dibromochloromethane	<0.49	*+	1.0	0.49	ug/L			12/06/23 19:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/23 19:25	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/06/23 19:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/23 19:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/23 19:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/23 19:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/23 19:25	1
Naphthalene	**0.47**	**J**	1.0	0.34	ug/L			12/06/23 19:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/23 19:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/23 19:25	1

Client Sample ID: MW-129
Date Collected: 12/04/23 12:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:25	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/23 19:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/23 19:25	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/23 19:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/23 19:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/23 19:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/23 19:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/23 19:25	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/06/23 19:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/23 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*		*12/06/23 19:25*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/06/23 19:25*	*1*
Dibromofluoromethane	*112*		*75 - 120*		*12/06/23 19:25*	*1*
Toluene-d8 (Surr)	*116*		*75 - 120*		*12/06/23 19:25*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/08/23 07:30	12/08/23 15:39	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/08/23 07:30	12/08/23 15:39	1
Acenaphthene	<0.24		0.79	0.24	ug/L		12/08/23 07:30	12/08/23 15:39	1
Acenaphthylene	<0.21		0.79	0.21	ug/L		12/08/23 07:30	12/08/23 15:39	1
Anthracene	**0.40**	**J**	0.79	0.26	ug/L		12/08/23 07:30	12/08/23 15:39	1
Benzo[a]anthracene	**1.3**		0.16	0.045	ug/L		12/08/23 07:30	12/08/23 15:39	1
Benzo[a]pyrene	**1.2**		0.16	0.078	ug/L		12/08/23 07:30	12/08/23 15:39	1
Benzo[b]fluoranthene	**1.5**		0.16	0.064	ug/L		12/08/23 07:30	12/08/23 15:39	1
Benzo[g,h,i]perylene	**0.70**	**J**	0.79	0.30	ug/L		12/08/23 07:30	12/08/23 15:39	1
Benzo[k]fluoranthene	**0.56**		0.16	0.051	ug/L		12/08/23 07:30	12/08/23 15:39	1
Chrysene	**0.90**		0.16	0.054	ug/L		12/08/23 07:30	12/08/23 15:39	1
Dibenz(a,h)anthracene	**0.17**	**J**	0.24	0.040	ug/L		12/08/23 07:30	12/08/23 15:39	1
Fluoranthene	**3.4**		0.79	0.36	ug/L		12/08/23 07:30	12/08/23 15:39	1
Fluorene	<0.19		0.79	0.19	ug/L		12/08/23 07:30	12/08/23 15:39	1
Indeno[1,2,3-cd]pyrene	**0.68**		0.16	0.059	ug/L		12/08/23 07:30	12/08/23 15:39	1
Naphthalene	<0.24		0.79	0.24	ug/L		12/08/23 07:30	12/08/23 15:39	1
Phenanthrene	**2.5**		0.79	0.24	ug/L		12/08/23 07:30	12/08/23 15:39	1
Pyrene	**3.0**		0.79	0.34	ug/L		12/08/23 07:30	12/08/23 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*56*		*36 - 120*	*12/08/23 07:30*	*12/08/23 15:39*	*1*
2-Fluorobiphenyl (Surr)	*53*		*34 - 110*	*12/08/23 07:30*	*12/08/23 15:39*	*1*
Terphenyl-d14 (Surr)	*82*		*40 - 145*	*12/08/23 07:30*	*12/08/23 15:39*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 09:08	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 00:21	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-129
Date Collected: 12/04/23 12:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-2
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0067**	**J**	0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 00:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/05/23 18:09	1
Sulfate (EPA 300.0)	**140**		5.0	1.0	mg/L			12/06/23 11:07	5
Alkalinity (SM 2320B)	**470**		5.0	3.7	mg/L			12/12/23 13:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/05/23 23:05	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-104
Date Collected: 12/04/23 14:15
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/23 19:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/23 19:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/23 19:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/23 19:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/23 19:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/23 19:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/23 19:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/06/23 19:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/23 19:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/23 19:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/23 19:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/23 19:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/23 19:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/23 19:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:48	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/06/23 19:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/23 19:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/23 19:48	1
Benzene	<0.15		0.50	0.15	ug/L			12/06/23 19:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/23 19:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/23 19:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/23 19:48	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			12/06/23 19:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/06/23 19:48	1
Carbon tetrachloride	<0.38	*+	1.0	0.38	ug/L			12/06/23 19:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
Chloroethane	<0.51	*+	5.0	0.51	ug/L			12/06/23 19:48	1
Chloroform	<0.37		2.0	0.37	ug/L			12/06/23 19:48	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/06/23 19:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/23 19:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/23 19:48	1
Dibromochloromethane	<0.49	*+	1.0	0.49	ug/L			12/06/23 19:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/23 19:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/06/23 19:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/23 19:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/23 19:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/23 19:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/23 19:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/23 19:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/23 19:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/23 19:48	1

Client Sample ID: MW-104
Date Collected: 12/04/23 14:15
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:48	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/23 19:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 19:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/23 19:48	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/23 19:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/23 19:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/23 19:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/23 19:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/23 19:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/06/23 19:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/23 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*12/06/23 19:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/06/23 19:48*	*1*
Dibromofluoromethane	*110*		*75 - 120*		*12/06/23 19:48*	*1*
Toluene-d8 (Surr)	*117*		*75 - 120*		*12/06/23 19:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		12/08/23 07:30	12/08/23 16:01	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		12/08/23 07:30	12/08/23 16:01	1
Acenaphthene	<0.24		0.77	0.24	ug/L		12/08/23 07:30	12/08/23 16:01	1
Acenaphthylene	<0.21		0.77	0.21	ug/L		12/08/23 07:30	12/08/23 16:01	1
Anthracene	<0.26		0.77	0.26	ug/L		12/08/23 07:30	12/08/23 16:01	1
Benzo[a]anthracene	**0.15**		0.15	0.044	ug/L		12/08/23 07:30	12/08/23 16:01	1
Benzo[a]pyrene	**0.095**	**J**	0.15	0.077	ug/L		12/08/23 07:30	12/08/23 16:01	1
Benzo[b]fluoranthene	**0.13**	**J**	0.15	0.062	ug/L		12/08/23 07:30	12/08/23 16:01	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		12/08/23 07:30	12/08/23 16:01	1
Benzo[k]fluoranthene	**0.064**	**J**	0.15	0.050	ug/L		12/08/23 07:30	12/08/23 16:01	1
Chrysene	**0.085**	**J**	0.15	0.053	ug/L		12/08/23 07:30	12/08/23 16:01	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		12/08/23 07:30	12/08/23 16:01	1
Fluoranthene	<0.35		0.77	0.35	ug/L		12/08/23 07:30	12/08/23 16:01	1
Fluorene	<0.19		0.77	0.19	ug/L		12/08/23 07:30	12/08/23 16:01	1
Indeno[1,2,3-cd]pyrene	**0.071**	**J**	0.15	0.058	ug/L		12/08/23 07:30	12/08/23 16:01	1
Naphthalene	<0.24		0.77	0.24	ug/L		12/08/23 07:30	12/08/23 16:01	1
Phenanthrene	<0.23		0.77	0.23	ug/L		12/08/23 07:30	12/08/23 16:01	1
Pyrene	<0.33		0.77	0.33	ug/L		12/08/23 07:30	12/08/23 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*63*		*36 - 120*	*12/08/23 07:30*	*12/08/23 16:01*	*1*
2-Fluorobiphenyl (Surr)	*59*		*34 - 110*	*12/08/23 07:30*	*12/08/23 16:01*	*1*
Terphenyl-d14 (Surr)	*85*		*40 - 145*	*12/08/23 07:30*	*12/08/23 16:01*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 09:27	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.094**	**J ^1+**	0.20	0.082	mg/L		12/13/23 09:21	12/14/23 00:25	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-104
Date Collected: 12/04/23 14:15
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-3
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0023		0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 00:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.19**	**J**	1.0	0.043	mg/L			12/05/23 18:24	1
Sulfate (EPA 300.0)	**64**		2.0	0.41	mg/L			12/06/23 11:23	2
Alkalinity (SM 2320B)	**340**		5.0	3.7	mg/L			12/12/23 13:24	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/05/23 23:07	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-123

Date Collected: 12/04/23 15:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/23 20:11	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/23 20:11	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/23 20:11	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/23 20:11	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/23 20:11	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/23 20:11	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/23 20:11	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/06/23 20:11	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/23 20:11	1
1,2,4-Trimethylbenzene	**100**		1.0	0.36	ug/L			12/06/23 20:11	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/23 20:11	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/23 20:11	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/23 20:11	1
1,3,5-Trimethylbenzene	**24**		1.0	0.25	ug/L			12/06/23 20:11	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/23 20:11	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/23 20:11	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/23 20:11	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/06/23 20:11	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/23 20:11	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/23 20:11	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/23 20:11	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/23 20:11	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/23 20:11	1
Bromoform	<0.48	*+	1.0	0.48	ug/L			12/06/23 20:11	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/06/23 20:11	1
Carbon tetrachloride	<0.38	*+	1.0	0.38	ug/L			12/06/23 20:11	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1
Chloroethane	<0.51	*+	5.0	0.51	ug/L			12/06/23 20:11	1
Chloroform	<0.37		2.0	0.37	ug/L			12/06/23 20:11	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/06/23 20:11	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/23 20:11	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/23 20:11	1
Dibromochloromethane	<0.49	*+	1.0	0.49	ug/L			12/06/23 20:11	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/23 20:11	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/06/23 20:11	1
Ethylbenzene	**100**		0.50	0.18	ug/L			12/06/23 20:11	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/23 20:11	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/23 20:11	1
Isopropylbenzene	**6.8**		1.0	0.39	ug/L			12/06/23 20:11	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/23 20:11	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1
N-Propylbenzene	**2.8**		1.0	0.41	ug/L			12/06/23 20:11	1
p-Isopropyltoluene	**2.0**		1.0	0.36	ug/L			12/06/23 20:11	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 20:11	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/23 20:11	1

Client Sample ID: MW-123

Date Collected: 12/04/23 15:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 20:11	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/23 20:11	1
Toluene	**23**		0.50	0.15	ug/L			12/06/23 20:11	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/23 20:11	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/23 20:11	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/23 20:11	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/23 20:11	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/06/23 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*12/06/23 20:11*	*1*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*12/06/23 20:11*	*1*
Dibromofluoromethane	*115*		*75 - 120*		*12/06/23 20:11*	*1*
Toluene-d8 (Surr)	*112*		*75 - 120*		*12/06/23 20:11*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**600**		5.0	1.5	ug/L			12/07/23 13:51	10
Xylenes, Total	**390**		10	2.2	ug/L			12/07/23 13:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*12/07/23 13:51*	*10*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*		*12/07/23 13:51*	*10*
Dibromofluoromethane	*104*		*75 - 120*		*12/07/23 13:51*	*10*
Toluene-d8 (Surr)	*97*		*75 - 120*		*12/07/23 13:51*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**3000**		1000	340	ug/L			12/08/23 19:52	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*12/08/23 19:52*	*1000*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/08/23 19:52*	*1000*
Dibromofluoromethane	*106*		*75 - 120*		*12/08/23 19:52*	*1000*
Toluene-d8 (Surr)	*90*		*75 - 120*		*12/08/23 19:52*	*1000*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**180**		16	2.4	ug/L		12/08/23 07:30	12/08/23 21:05	10
2-Methylnaphthalene	**190**		16	0.52	ug/L		12/08/23 07:30	12/08/23 21:05	10
Acenaphthene	**120**		8.0	2.5	ug/L		12/08/23 07:30	12/08/23 21:05	10
Acenaphthylene	**5.3**	**J**	8.0	2.1	ug/L		12/08/23 07:30	12/08/23 21:05	10
Anthracene	**17**		8.0	2.7	ug/L		12/08/23 07:30	12/08/23 21:05	10
Benzo[a]anthracene	**11**		1.6	0.45	ug/L		12/08/23 07:30	12/08/23 21:05	10
Benzo[a]pyrene	**14**		1.6	0.79	ug/L		12/08/23 07:30	12/08/23 21:05	10
Benzo[b]fluoranthene	**17**		1.6	0.64	ug/L		12/08/23 07:30	12/08/23 21:05	10
Benzo[g,h,i]perylene	**8.0**		8.0	3.0	ug/L		12/08/23 07:30	12/08/23 21:05	10
Benzo[k]fluoranthene	**6.6**		1.6	0.51	ug/L		12/08/23 07:30	12/08/23 21:05	10
Chrysene	**9.5**		1.6	0.54	ug/L		12/08/23 07:30	12/08/23 21:05	10
Dibenz(a,h)anthracene	**2.3**	**J**	2.4	0.40	ug/L		12/08/23 07:30	12/08/23 21:05	10
Fluoranthene	**37**		8.0	3.6	ug/L		12/08/23 07:30	12/08/23 21:05	10

Client Sample ID: MW-123

Date Collected: 12/04/23 15:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-4

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	74		8.0	1.9	ug/L		12/08/23 07:30	12/08/23 21:05	10
Indeno[1,2,3-cd]pyrene	9.0		1.6	0.60	ug/L		12/08/23 07:30	12/08/23 21:05	10
Phenanthrene	92		8.0	2.4	ug/L		12/08/23 07:30	12/08/23 21:05	10
Pyrene	28		8.0	3.4	ug/L		12/08/23 07:30	12/08/23 21:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*58*		*36 - 120*	*12/08/23 07:30*	*12/08/23 21:05*	*10*
2-Fluorobiphenyl (Surr)	*61*		*34 - 110*	*12/08/23 07:30*	*12/08/23 21:05*	*10*
Terphenyl-d14 (Surr)	*85*		*40 - 145*	*12/08/23 07:30*	*12/08/23 21:05*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	2500		40	12	ug/L		12/08/23 07:30	12/12/23 01:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*36 - 120*	*12/08/23 07:30*	*12/12/23 01:57*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*34 - 110*	*12/08/23 07:30*	*12/12/23 01:57*	*50*
Terphenyl-d14 (Surr)	*0*	*S1-*	*40 - 145*	*12/08/23 07:30*	*12/12/23 01:57*	*50*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	430		180	44	ug/L			12/08/23 09:46	44

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 21:30	1
Manganese	1.0		0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 00:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/05/23 18:39	1
Sulfate (EPA 300.0)	<0.21		1.0	0.21	mg/L			12/05/23 18:39	1
Alkalinity (SM 2320B)	450		5.0	3.7	mg/L			12/12/23 13:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/05/23 23:10	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: Trip Blank

Date Collected: 12/04/23 00:00
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-5

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/08/23 14:16	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/08/23 14:16	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/08/23 14:16	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/08/23 14:16	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/08/23 14:16	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/08/23 14:16	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/08/23 14:16	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/08/23 14:16	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/08/23 14:16	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/08/23 14:16	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/08/23 14:16	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/08/23 14:16	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/08/23 14:16	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/08/23 14:16	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/08/23 14:16	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/08/23 14:16	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/08/23 14:16	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/08/23 14:16	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/08/23 14:16	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/08/23 14:16	1
Benzene	<0.15		0.50	0.15	ug/L			12/08/23 14:16	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/08/23 14:16	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/08/23 14:16	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/08/23 14:16	1
Bromoform	<0.48		1.0	0.48	ug/L			12/08/23 14:16	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/08/23 14:16	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/08/23 14:16	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/08/23 14:16	1
Chloroform	<0.37		2.0	0.37	ug/L			12/08/23 14:16	1
Chloromethane	**1.3**	**J B**	5.0	0.32	ug/L			12/08/23 14:16	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/08/23 14:16	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/08/23 14:16	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/08/23 14:16	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/08/23 14:16	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/08/23 14:16	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/08/23 14:16	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/08/23 14:16	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/08/23 14:16	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
Methylene Chloride	**3.7**	**J B**	5.0	1.6	ug/L			12/08/23 14:16	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/08/23 14:16	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/08/23 14:16	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/08/23 14:16	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: Trip Blank
Date Collected: 12/04/23 00:00
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/23 14:16	1
Styrene	<0.39		1.0	0.39	ug/L			12/08/23 14:16	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/23 14:16	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/08/23 14:16	1
Toluene	**0.19**	**J B**	0.50	0.15	ug/L			12/08/23 14:16	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/08/23 14:16	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/08/23 14:16	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/08/23 14:16	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/08/23 14:16	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/08/23 14:16	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/08/23 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*		*12/08/23 14:16*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*		*12/08/23 14:16*	*1*
Dibromofluoromethane	*107*		*75 - 120*		*12/08/23 14:16*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*12/08/23 14:16*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: 745385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	8260D	
500-243330-2	MW-129	Total/NA	Water	8260D	
500-243330-3	MW-104	Total/NA	Water	8260D	
500-243330-4	MW-123	Total/NA	Water	8260D	
MB 500-745385/7	Method Blank	Total/NA	Water	8260D	
LCS 500-745385/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 500-745385/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 745579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-4 - DL	MW-123	Total/NA	Water	8260D	
MB 500-745579/7	Method Blank	Total/NA	Water	8260D	
LCS 500-745579/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 745742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-4 - DL2	MW-123	Total/NA	Water	8260D	
500-243330-5	Trip Blank	Total/NA	Water	8260D	
MB 500-745742/6	Method Blank	Total/NA	Water	8260D	
LCS 500-745742/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 745774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	3510C	
500-243330-2	MW-129	Total/NA	Water	3510C	
500-243330-3	MW-104	Total/NA	Water	3510C	
500-243330-4 - DL	MW-123	Total/NA	Water	3510C	
500-243330-4	MW-123	Total/NA	Water	3510C	
MB 500-745774/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-745774/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 745839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	8270E	745774
500-243330-2	MW-129	Total/NA	Water	8270E	745774
500-243330-3	MW-104	Total/NA	Water	8270E	745774
500-243330-4	MW-123	Total/NA	Water	8270E	745774
MB 500-745774/1-A	Method Blank	Total/NA	Water	8270E	745774
LCS 500-745774/2-A	Lab Control Sample	Total/NA	Water	8270E	745774

Analysis Batch: 746032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-4 - DL	MW-123	Total/NA	Water	8270E	745774

GC VOA

Analysis Batch: 694719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	RSK-175	
500-243330-2	MW-129	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 694719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-3	MW-104	Total/NA	Water	RSK-175	
500-243330-4	MW-123	Total/NA	Water	RSK-175	
MB 480-694719/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694719/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-694719/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 746486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Dissolved	Water	3005A	
500-243330-2	MW-129	Dissolved	Water	3005A	
500-243330-3	MW-104	Dissolved	Water	3005A	
500-243330-4	MW-123	Dissolved	Water	3005A	
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 746706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Dissolved	Water	6010D	746486
500-243330-2	MW-129	Dissolved	Water	6010D	746486
500-243330-3	MW-104	Dissolved	Water	6010D	746486
500-243330-4	MW-123	Dissolved	Water	6010D	746486
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	6010D	746486
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746486

Analysis Batch: 746896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-4	MW-123	Dissolved	Water	6010D	746486
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	6010D	746486
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746486

General Chemistry

Analysis Batch: 745213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-4	MW-123	Total/NA	Water	300.0	
MB 500-745213/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745213/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 745214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	300.0	
500-243330-2	MW-129	Total/NA	Water	300.0	
500-243330-3	MW-104	Total/NA	Water	300.0	
500-243330-4	MW-123	Total/NA	Water	300.0	
MB 500-745214/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745214/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 745290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Dissolved	Water	SM 3500 Fe B	

General Chemistry (Continued)

Analysis Batch: 745290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-2	MW-129	Dissolved	Water	SM 3500 Fe B	
500-243330-3	MW-104	Dissolved	Water	SM 3500 Fe B	
500-243330-4	MW-123	Dissolved	Water	SM 3500 Fe B	
MB 500-745290/1	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 500-745290/2	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 745332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	300.0	
500-243330-2	MW-129	Total/NA	Water	300.0	
500-243330-3	MW-104	Total/NA	Water	300.0	
MB 500-745332/9	Method Blank	Total/NA	Water	300.0	
LCS 500-745332/10	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 746449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243330-1	MW-105	Total/NA	Water	SM 2320B	
500-243330-2	MW-129	Total/NA	Water	SM 2320B	
500-243330-3	MW-104	Total/NA	Water	SM 2320B	
500-243330-4	MW-123	Total/NA	Water	SM 2320B	
MB 500-746449/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-746449/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Method: 8260D - 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	(75-126)	(72-124)	(75-120)	(75-120)
500-243330-1	MW-105	107	101	111	116
500-243330-2	MW-129	109	101	112	116
500-243330-3	MW-104	107	101	110	117
500-243330-4	MW-123	113	111	115	112
500-243330-4 - DL	MW-123	93	86	104	97
500-243330-4 - DL2	MW-123	100	101	106	90
500-243330-5	Trip Blank	100	96	107	89
LCS 500-745385/4	Lab Control Sample	100	104	102	117
LCS 500-745579/4	Lab Control Sample	90	90	104	98
LCS 500-745742/4	Lab Control Sample	91	98	97	95
LCSD 500-745385/5	Lab Control Sample Dup	102	104	103	116
MB 500-745385/7	Method Blank	101	100	97	117
MB 500-745579/7	Method Blank	96	86	111	96
MB 500-745742/6	Method Blank	97	99	104	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-243330-1	MW-105	62	59	86
500-243330-2	MW-129	56	53	82
500-243330-3	MW-104	63	59	85
500-243330-4	MW-123	58	61	85
500-243330-4 - DL	MW-123	0 S1-	0 S1-	0 S1-
LCS 500-745774/2-A	Lab Control Sample	68	70	91
MB 500-745774/1-A	Method Blank	68	62	94

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-745385/7
Matrix: Water
Analysis Batch: 745385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/06/23 12:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/06/23 12:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/06/23 12:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/06/23 12:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/06/23 12:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/06/23 12:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/06/23 12:57	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/06/23 12:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/06/23 12:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/06/23 12:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/06/23 12:57	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/06/23 12:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/06/23 12:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/06/23 12:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/06/23 12:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/06/23 12:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/06/23 12:57	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/06/23 12:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/06/23 12:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/06/23 12:57	1
Benzene	<0.15		0.50	0.15	ug/L			12/06/23 12:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/06/23 12:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/06/23 12:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/06/23 12:57	1
Bromoform	<0.48		1.0	0.48	ug/L			12/06/23 12:57	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/06/23 12:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/06/23 12:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/06/23 12:57	1
Chloroform	<0.37		2.0	0.37	ug/L			12/06/23 12:57	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/06/23 12:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/06/23 12:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/06/23 12:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/06/23 12:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/06/23 12:57	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/06/23 12:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/06/23 12:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/06/23 12:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/06/23 12:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/06/23 12:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/06/23 12:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/06/23 12:57	1

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

Lab Sample ID: MB 500-745385/7
Matrix: Water
Analysis Batch: 745385

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/06/23 12:57	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 12:57	1
Styrene	<0.39		1.0	0.39	ug/L			12/06/23 12:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/06/23 12:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/06/23 12:57	1
Toluene	<0.15		0.50	0.15	ug/L			12/06/23 12:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/06/23 12:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/06/23 12:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/06/23 12:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/06/23 12:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/06/23 12:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/06/23 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*12/06/23 12:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/06/23 12:57*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*12/06/23 12:57*	*1*
Toluene-d8 (Surr)	*117*		*75 - 120*		*12/06/23 12:57*	*1*

Lab Sample ID: LCS 500-745385/4
Matrix: Water
Analysis Batch: 745385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	60.6		ug/L		121	70 - 125
1,1,1-Trichloroethane	50.0	60.5		ug/L		121	70 - 125
1,1,2,2-Tetrachloroethane	50.0	42.9		ug/L		86	62 - 140
1,1,2-Trichloroethane	50.0	45.6		ug/L		91	71 - 130
1,1-Dichloroethane	50.0	47.3		ug/L		95	70 - 125
1,1-Dichloroethene	50.0	45.8		ug/L		92	67 - 122
1,1-Dichloropropene	50.0	48.0		ug/L		96	70 - 121
1,2,3-Trichlorobenzene	50.0	48.8		ug/L		98	51 - 145
1,2,3-Trichloropropane	50.0	42.6		ug/L		85	50 - 133
1,2,4-Trichlorobenzene	50.0	54.0		ug/L		108	57 - 137
1,2,4-Trimethylbenzene	50.0	52.4		ug/L		105	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.6		ug/L		87	56 - 123
1,2-Dibromoethane (EDB)	50.0	47.8		ug/L		96	70 - 125
1,2-Dichlorobenzene	50.0	47.2		ug/L		94	70 - 125
1,2-Dichloroethane	50.0	50.4		ug/L		101	68 - 127
1,2-Dichloropropane	50.0	43.5		ug/L		87	67 - 130
1,3,5-Trimethylbenzene	50.0	51.2		ug/L		102	70 - 123
1,3-Dichlorobenzene	50.0	47.6		ug/L		95	70 - 125
1,3-Dichloropropane	50.0	46.0		ug/L		92	62 - 136
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	70 - 120
2,2-Dichloropropane	50.0	46.2		ug/L		92	58 - 139
2-Chlorotoluene	50.0	47.8		ug/L		96	70 - 125
4-Chlorotoluene	50.0	49.0		ug/L		98	68 - 124
Benzene	50.0	45.1		ug/L		90	70 - 120

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

Lab Sample ID: LCS 500-745385/4
Matrix: Water
Analysis Batch: 745385

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	46.8		ug/L		94	70 - 122
Bromochloromethane	50.0	45.6		ug/L		91	65 - 122
Bromodichloromethane	50.0	58.1		ug/L		116	69 - 120
Bromoform	50.0	70.9	*+	ug/L		142	56 - 132
Bromomethane	50.0	54.8		ug/L		110	40 - 152
Carbon tetrachloride	50.0	70.5	*+	ug/L		141	59 - 133
Chlorobenzene	50.0	46.0		ug/L		92	70 - 120
Chloroethane	50.0	90.4	*+	ug/L		181	48 - 136
Chloroform	50.0	47.6		ug/L		95	70 - 120
Chloromethane	50.0	40.2		ug/L		80	56 - 152
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	54.6		ug/L		109	64 - 127
Dibromochloromethane	50.0	70.3	*+	ug/L		141	68 - 125
Dibromomethane	50.0	46.3		ug/L		93	70 - 120
Dichlorodifluoromethane	50.0	46.9		ug/L		94	40 - 159
Ethylbenzene	50.0	47.4		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	52.9		ug/L		106	51 - 150
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 126
Methyl tert-butyl ether	50.0	44.1		ug/L		88	55 - 123
Methylene Chloride	50.0	43.3		ug/L		87	69 - 125
Naphthalene	50.0	52.8		ug/L		106	53 - 144
n-Butylbenzene	50.0	53.9		ug/L		108	68 - 125
N-Propylbenzene	50.0	48.5		ug/L		97	69 - 127
p-Isopropyltoluene	50.0	50.5		ug/L		101	70 - 125
sec-Butylbenzene	50.0	48.1		ug/L		96	70 - 123
Styrene	50.0	45.9		ug/L		92	70 - 120
tert-Butylbenzene	50.0	48.7		ug/L		97	70 - 121
Tetrachloroethene	50.0	51.9		ug/L		104	70 - 128
Toluene	50.0	46.2		ug/L		92	70 - 125
trans-1,2-Dichloroethene	50.0	47.2		ug/L		94	70 - 125
trans-1,3-Dichloropropene	50.0	56.1		ug/L		112	62 - 128
Trichloroethene	50.0	47.9		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	54.9		ug/L		110	55 - 128
Vinyl chloride	50.0	38.8		ug/L		78	64 - 126
Xylenes, Total	100	92.9		ug/L		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
Toluene-d8 (Surr)	*117*		*75 - 120*

Lab Sample ID: LCSD 500-745385/5
Matrix: Water
Analysis Batch: 745385

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	59.6		ug/L		119	70 - 125	2	20

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

Lab Sample ID: LCSD 500-745385/5
Matrix: Water
Analysis Batch: 745385

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	58.5		ug/L		117	70 - 125	3	20
1,1,2,2-Tetrachloroethane			50.0	48.6		ug/L		97	62 - 140	12	20
1,1,2-Trichloroethane			50.0	47.1		ug/L		94	71 - 130	3	20
1,1-Dichloroethane			50.0	46.6		ug/L		93	70 - 125	2	20
1,1-Dichloroethene			50.0	44.3		ug/L		89	67 - 122	3	20
1,1-Dichloropropene			50.0	47.1		ug/L		94	70 - 121	2	20
1,2,3-Trichlorobenzene			50.0	49.8		ug/L		100	51 - 145	2	20
1,2,3-Trichloropropane			50.0	48.2		ug/L		96	50 - 133	12	20
1,2,4-Trichlorobenzene			50.0	54.1		ug/L		108	57 - 137	0	20
1,2,4-Trimethylbenzene			50.0	51.3		ug/L		103	70 - 123	2	20
1,2-Dibromo-3-Chloropropane			50.0	48.5		ug/L		97	56 - 123	10	20
1,2-Dibromoethane (EDB)			50.0	50.5		ug/L		101	70 - 125	5	20
1,2-Dichlorobenzene			50.0	46.4		ug/L		93	70 - 125	2	20
1,2-Dichloroethane			50.0	50.2		ug/L		100	68 - 127	0	20
1,2-Dichloropropane			50.0	43.8		ug/L		88	67 - 130	1	20
1,3,5-Trimethylbenzene			50.0	49.5		ug/L		99	70 - 123	3	20
1,3-Dichlorobenzene			50.0	46.4		ug/L		93	70 - 125	3	20
1,3-Dichloropropane			50.0	47.0		ug/L		94	62 - 136	2	20
1,4-Dichlorobenzene			50.0	46.5		ug/L		93	70 - 120	3	20
2,2-Dichloropropane			50.0	45.1		ug/L		90	58 - 139	2	20
2-Chlorotoluene			50.0	46.6		ug/L		93	70 - 125	2	20
4-Chlorotoluene			50.0	47.7		ug/L		95	68 - 124	3	20
Benzene			50.0	45.0		ug/L		90	70 - 120	0	20
Bromobenzene			50.0	46.2		ug/L		92	70 - 122	1	20
Bromochloromethane			50.0	45.2		ug/L		90	65 - 122	1	20
Bromodichloromethane			50.0	56.5		ug/L		113	69 - 120	3	20
Bromoform			50.0	72.2	*+	ug/L		144	56 - 132	2	20
Bromomethane			50.0	52.1		ug/L		104	40 - 152	5	20
Carbon tetrachloride			50.0	67.2	*+	ug/L		134	59 - 133	5	20
Chlorobenzene			50.0	45.5		ug/L		91	70 - 120	1	20
Chloroethane			50.0	80.0	*+	ug/L		160	48 - 136	12	20
Chloroform			50.0	47.1		ug/L		94	70 - 120	1	20
Chloromethane			50.0	39.1		ug/L		78	56 - 152	3	20
cis-1,2-Dichloroethene			50.0	45.4		ug/L		91	70 - 125	2	20
cis-1,3-Dichloropropene			50.0	54.0		ug/L		108	64 - 127	1	20
Dibromochloromethane			50.0	68.5	*+	ug/L		137	68 - 125	3	20
Dibromomethane			50.0	47.8		ug/L		96	70 - 120	3	20
Dichlorodifluoromethane			50.0	43.5		ug/L		87	40 - 159	8	20
Ethylbenzene			50.0	46.7		ug/L		93	70 - 123	2	20
Hexachlorobutadiene			50.0	49.8		ug/L		100	51 - 150	6	20
Isopropylbenzene			50.0	47.2		ug/L		94	70 - 126	3	20
Methyl tert-butyl ether			50.0	47.5		ug/L		95	55 - 123	7	20
Methylene Chloride			50.0	42.2		ug/L		84	69 - 125	3	20
Naphthalene			50.0	57.6		ug/L		115	53 - 144	9	20
n-Butylbenzene			50.0	51.9		ug/L		104	68 - 125	4	20
N-Propylbenzene			50.0	46.9		ug/L		94	69 - 127	3	20
p-Isopropyltoluene			50.0	48.6		ug/L		97	70 - 125	4	20
sec-Butylbenzene			50.0	46.4		ug/L		93	70 - 123	4	20
Styrene			50.0	45.8		ug/L		92	70 - 120	0	20

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

Lab Sample ID: LCSD 500-745385/5
Matrix: Water
Analysis Batch: 745385

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
tert-Butylbenzene			50.0	47.0		ug/L		94	70 - 121	4	20
Tetrachloroethene			50.0	49.8		ug/L		100	70 - 128	4	20
Toluene			50.0	45.4		ug/L		91	70 - 125	2	20
trans-1,2-Dichloroethene			50.0	46.0		ug/L		92	70 - 125	3	20
trans-1,3-Dichloropropene			50.0	56.0		ug/L		112	62 - 128	0	20
Trichloroethene			50.0	47.2		ug/L		94	70 - 125	1	20
Trichlorofluoromethane			50.0	51.0		ug/L		102	55 - 128	7	20
Vinyl chloride			50.0	37.8		ug/L		76	64 - 126	3	20
Xylenes, Total			100	91.5		ug/L		92	70 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane	*103*		*75 - 120*
Toluene-d8 (Surr)	*116*		*75 - 120*

Lab Sample ID: MB 500-745579/7
Matrix: Water
Analysis Batch: 745579

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/07/23 12:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/07/23 12:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/07/23 12:42*	*1*
4-Bromofluorobenzene (Surr)	*86*		*72 - 124*		*12/07/23 12:42*	*1*
Dibromofluoromethane	*111*		*75 - 120*		*12/07/23 12:42*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*12/07/23 12:42*	*1*

Lab Sample ID: LCS 500-745579/4
Matrix: Water
Analysis Batch: 745579

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			50.0	44.7		ug/L		89	70 - 120		
Xylenes, Total			100	107		ug/L		107	70 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*
Dibromofluoromethane	*104*		*75 - 120*
Toluene-d8 (Surr)	*98*		*75 - 120*

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

Lab Sample ID: MB 500-745742/6
Matrix: Water
Analysis Batch: 745742

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/08/23 13:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/08/23 13:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/08/23 13:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/08/23 13:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/08/23 13:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/08/23 13:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/08/23 13:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/08/23 13:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/08/23 13:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/08/23 13:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/08/23 13:52	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/08/23 13:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/08/23 13:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/08/23 13:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/08/23 13:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/08/23 13:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/08/23 13:52	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/08/23 13:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/08/23 13:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/08/23 13:52	1
Benzene	<0.15		0.50	0.15	ug/L			12/08/23 13:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/08/23 13:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/08/23 13:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/08/23 13:52	1
Bromoform	<0.48		1.0	0.48	ug/L			12/08/23 13:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/08/23 13:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/08/23 13:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/08/23 13:52	1
Chloroform	<0.37		2.0	0.37	ug/L			12/08/23 13:52	1
Chloromethane	1.17	J	5.0	0.32	ug/L			12/08/23 13:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/08/23 13:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/08/23 13:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/08/23 13:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/08/23 13:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/08/23 13:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/08/23 13:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/08/23 13:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/08/23 13:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
Methylene Chloride	3.38	J	5.0	1.6	ug/L			12/08/23 13:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/08/23 13:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/08/23 13:52	1

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

Lab Sample ID: MB 500-745742/6
Matrix: Water
Analysis Batch: 745742

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/08/23 13:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/23 13:52	1
Styrene	<0.39		1.0	0.39	ug/L			12/08/23 13:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/23 13:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/08/23 13:52	1
Toluene	0.199	J	0.50	0.15	ug/L			12/08/23 13:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/08/23 13:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/08/23 13:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/08/23 13:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/08/23 13:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/08/23 13:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/08/23 13:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*12/08/23 13:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*12/08/23 13:52*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*12/08/23 13:52*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*12/08/23 13:52*	*1*

Lab Sample ID: LCS 500-745742/4
Matrix: Water
Analysis Batch: 745742

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/L		96	70 - 125
1,1,1-Trichloroethane	50.0	42.5		ug/L		85	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	62 - 140
1,1,2-Trichloroethane	50.0	42.5		ug/L		85	71 - 130
1,1-Dichloroethane	50.0	48.7		ug/L		97	70 - 125
1,1-Dichloroethene	50.0	44.8		ug/L		90	67 - 122
1,1-Dichloropropene	50.0	45.7		ug/L		91	70 - 121
1,2,3-Trichlorobenzene	50.0	33.0		ug/L		66	51 - 145
1,2,3-Trichloropropane	50.0	43.3		ug/L		87	50 - 133
1,2,4-Trichlorobenzene	50.0	34.1		ug/L		68	57 - 137
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	44.5		ug/L		89	56 - 123
1,2-Dibromoethane (EDB)	50.0	42.4		ug/L		85	70 - 125
1,2-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	44.6		ug/L		89	68 - 127
1,2-Dichloropropane	50.0	47.8		ug/L		96	67 - 130
1,3,5-Trimethylbenzene	50.0	48.3		ug/L		97	70 - 123
1,3-Dichlorobenzene	50.0	44.9		ug/L		90	70 - 125
1,3-Dichloropropane	50.0	42.5		ug/L		85	62 - 136
1,4-Dichlorobenzene	50.0	44.5		ug/L		89	70 - 120
2,2-Dichloropropane	50.0	47.5		ug/L		95	58 - 139
2-Chlorotoluene	50.0	47.4		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.9		ug/L		96	68 - 124
Benzene	50.0	45.3		ug/L		91	70 - 120

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

Lab Sample ID: LCS 500-745742/4
Matrix: Water
Analysis Batch: 745742

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	44.8		ug/L		90	70 - 122
Bromochloromethane	50.0	44.4		ug/L		89	65 - 122
Bromodichloromethane	50.0	46.3		ug/L		93	69 - 120
Bromoform	50.0	51.6		ug/L		103	56 - 132
Bromomethane	50.0	58.0		ug/L		116	40 - 152
Carbon tetrachloride	50.0	46.4		ug/L		93	59 - 133
Chlorobenzene	50.0	46.7		ug/L		93	70 - 120
Chloroethane	50.0	54.9		ug/L		110	48 - 136
Chloroform	50.0	43.9		ug/L		88	70 - 120
Chloromethane	50.0	53.2		ug/L		106	56 - 152
cis-1,2-Dichloroethene	50.0	45.7		ug/L		91	70 - 125
cis-1,3-Dichloropropene	50.0	44.6		ug/L		89	64 - 127
Dibromochloromethane	50.0	49.6		ug/L		99	68 - 125
Dibromomethane	50.0	42.9		ug/L		86	70 - 120
Dichlorodifluoromethane	50.0	31.4		ug/L		63	40 - 159
Ethylbenzene	50.0	45.7		ug/L		91	70 - 123
Hexachlorobutadiene	50.0	32.5		ug/L		65	51 - 150
Isopropylbenzene	50.0	45.9		ug/L		92	70 - 126
Methyl tert-butyl ether	50.0	37.5		ug/L		75	55 - 123
Methylene Chloride	50.0	48.8		ug/L		98	69 - 125
Naphthalene	50.0	34.4		ug/L		69	53 - 144
n-Butylbenzene	50.0	46.9		ug/L		94	68 - 125
N-Propylbenzene	50.0	48.4		ug/L		97	69 - 127
p-Isopropyltoluene	50.0	48.7		ug/L		97	70 - 125
sec-Butylbenzene	50.0	47.9		ug/L		96	70 - 123
Styrene	50.0	47.4		ug/L		95	70 - 120
tert-Butylbenzene	50.0	47.9		ug/L		96	70 - 121
Tetrachloroethene	50.0	40.7		ug/L		81	70 - 128
Toluene	50.0	60.5		ug/L		121	70 - 125
trans-1,2-Dichloroethene	50.0	46.1		ug/L		92	70 - 125
trans-1,3-Dichloropropene	50.0	43.6		ug/L		87	62 - 128
Trichloroethene	50.0	44.6		ug/L		89	70 - 125
Trichlorofluoromethane	50.0	42.6		ug/L		85	55 - 128
Vinyl chloride	50.0	46.0		ug/L		92	64 - 126
Xylenes, Total	100	97.9		ug/L		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane	*97*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

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

Lab Sample ID: MB 500-745774/1-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/08/23 07:30	12/08/23 14:34	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/08/23 07:30	12/08/23 14:34	1
Acenaphthene	<0.25		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 14:34	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/08/23 07:30	12/08/23 14:34	1
Anthracene	<0.27		0.80	0.27	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/08/23 07:30	12/08/23 14:34	1
Chrysene	<0.055		0.16	0.055	ug/L		12/08/23 07:30	12/08/23 14:34	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/08/23 07:30	12/08/23 14:34	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/08/23 07:30	12/08/23 14:34	1
Fluorene	<0.20		0.80	0.20	ug/L		12/08/23 07:30	12/08/23 14:34	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/08/23 07:30	12/08/23 14:34	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 14:34	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/08/23 07:30	12/08/23 14:34	1
Pyrene	<0.34		0.80	0.34	ug/L		12/08/23 07:30	12/08/23 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*12/08/23 07:30*	*12/08/23 14:34*	*1*
2-Fluorobiphenyl (Surr)	*62*		*34 - 110*	*12/08/23 07:30*	*12/08/23 14:34*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*12/08/23 07:30*	*12/08/23 14:34*	*1*

Lab Sample ID: LCS 500-745774/2-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	32.0	21.0		ug/L		66	38 - 110
2-Methylnaphthalene	32.0	30.3		ug/L		95	34 - 110
Acenaphthene	32.0	23.0		ug/L		72	46 - 110
Acenaphthylene	32.0	23.0		ug/L		72	47 - 113
Anthracene	32.0	25.7		ug/L		80	67 - 118
Benzo[a]anthracene	32.0	28.0		ug/L		88	70 - 126
Benzo[a]pyrene	32.0	28.8		ug/L		90	70 - 135
Benzo[b]fluoranthene	32.0	29.6		ug/L		93	69 - 136
Benzo[g,h,i]perylene	32.0	28.3		ug/L		88	70 - 135
Benzo[k]fluoranthene	32.0	29.4		ug/L		92	70 - 133
Chrysene	32.0	28.3		ug/L		88	68 - 129
Dibenz(a,h)anthracene	32.0	30.8		ug/L		96	70 - 134
Fluoranthene	32.0	26.5		ug/L		83	68 - 126
Fluorene	32.0	24.3		ug/L		76	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	29.6		ug/L		92	65 - 133
Naphthalene	32.0	19.1		ug/L		60	36 - 110
Phenanthrene	32.0	25.4		ug/L		79	65 - 120
Pyrene	32.0	28.8		ug/L		90	70 - 126

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

Lab Sample ID: LCS 500-745774/2-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745774

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*
2-Fluorobiphenyl (Surr)	*70*		*34 - 110*
Terphenyl-d14 (Surr)	*91*		*40 - 145*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-694719/3
Matrix: Water
Analysis Batch: 694719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 07:50	1

Lab Sample ID: LCS 480-694719/4
Matrix: Water
Analysis Batch: 694719

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.5	17.9		ug/L		92	85 - 120

Lab Sample ID: LCSD 480-694719/5
Matrix: Water
Analysis Batch: 694719

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.5	16.7		ug/L		86	85 - 120	7	50

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-746486/1-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082	^1+	0.20	0.082	mg/L		12/13/23 09:21	12/13/23 23:19	1
Manganese	<0.0023		0.010	0.0023	mg/L		12/13/23 09:21	12/13/23 23:19	1

Lab Sample ID: MB 500-746486/1-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 20:57	1

Lab Sample ID: LCS 500-746486/2-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.991	^1+	mg/L		99	80 - 120

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-746486/2-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.500	0.510		mg/L		102	80 - 120

Lab Sample ID: LCS 500-746486/2-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.19		mg/L		119	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-745213/3
Matrix: Water
Analysis Batch: 745213

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/05/23 17:08	1

Lab Sample ID: LCS 500-745213/4
Matrix: Water
Analysis Batch: 745213

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.6		mg/L		103	90 - 110

Lab Sample ID: MB 500-745214/3
Matrix: Water
Analysis Batch: 745214

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			12/05/23 17:08	1

Lab Sample ID: LCS 500-745214/4
Matrix: Water
Analysis Batch: 745214

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	20.3		mg/L		101	90 - 110

Lab Sample ID: MB 500-745332/9
Matrix: Water
Analysis Batch: 745332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/06/23 10:05	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-745332/10
Matrix: Water
Analysis Batch: 745332

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			20.0	20.6		mg/L		103	90 - 110		

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-746449/3
Matrix: Water
Analysis Batch: 746449

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			12/12/23 10:51	1

Lab Sample ID: LCS 500-746449/4
Matrix: Water
Analysis Batch: 746449

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	98.3		mg/L		98	90 - 110		

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 500-745290/1
Matrix: Water
Analysis Batch: 745290

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.050		0.050	0.050	mg/L			12/05/23 22:50	1

Lab Sample ID: LCS 500-745290/2
Matrix: Water
Analysis Batch: 745290

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			0.500	0.500		mg/L		100	80 - 120		

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-105
Date Collected: 12/04/23 10:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745385	W1T	EET CHI	12/06/23 19:02
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 15:17
Total/NA	Analysis	RSK-175		1	694719	JLS	EET BUF	12/08/23 08:49
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 00:17
Total/NA	Analysis	300.0		1	745214	NMB	EET CHI	12/05/23 17:54
Total/NA	Analysis	300.0		2	745332	NMB	EET CHI	12/06/23 10:52
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 13:03
Dissolved	Analysis	SM 3500 Fe B		1	745290	CLB	EET CHI	12/05/23 23:02

Client Sample ID: MW-129
Date Collected: 12/04/23 12:20
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745385	W1T	EET CHI	12/06/23 19:25
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 15:39
Total/NA	Analysis	RSK-175		1	694719	JLS	EET BUF	12/08/23 09:08
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 00:21
Total/NA	Analysis	300.0		1	745214	NMB	EET CHI	12/05/23 18:09
Total/NA	Analysis	300.0		5	745332	NMB	EET CHI	12/06/23 11:07
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 13:13
Dissolved	Analysis	SM 3500 Fe B		1	745290	CLB	EET CHI	12/05/23 23:05

Client Sample ID: MW-104
Date Collected: 12/04/23 14:15
Date Received: 12/05/23 09:35

Lab Sample ID: 500-243330-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745385	W1T	EET CHI	12/06/23 19:48
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 16:01
Total/NA	Analysis	RSK-175		1	694719	JLS	EET BUF	12/08/23 09:27
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 00:25
Total/NA	Analysis	300.0		1	745214	NMB	EET CHI	12/05/23 18:24
Total/NA	Analysis	300.0		2	745332	NMB	EET CHI	12/06/23 11:23
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 13:24
Dissolved	Analysis	SM 3500 Fe B		1	745290	CLB	EET CHI	12/05/23 23:07

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Client Sample ID: MW-123

Lab Sample ID: 500-243330-4

Date Collected: 12/04/23 15:20
Matrix: Water
Date Received: 12/05/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	10	745579	W1T	EET CHI	12/07/23 13:51
Total/NA	Analysis	8260D	DL2	1000	745742	W1T	EET CHI	12/08/23 19:52
Total/NA	Analysis	8260D		1	745385	W1T	EET CHI	12/06/23 20:11
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		10	745839	SS	EET CHI	12/08/23 21:05
Total/NA	Prep	3510C	DL		745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E	DL	50	746032	SS	EET CHI	12/12/23 01:57
Total/NA	Analysis	RSK-175		44	694719	JLS	EET BUF	12/08/23 09:46
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 00:30
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 21:30
Total/NA	Analysis	300.0		1	745213	NMB	EET CHI	12/05/23 18:39
Total/NA	Analysis	300.0		1	745214	NMB	EET CHI	12/05/23 18:39
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 13:33
Dissolved	Analysis	SM 3500 Fe B		1	745290	CLB	EET CHI	12/05/23 23:10

Client Sample ID: Trip Blank

Lab Sample ID: 500-243330-5

Date Collected: 12/04/23 00:00
Matrix: Water
Date Received: 12/05/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745742	W1T	EET CHI	12/08/23 14:16

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243330-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-24

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

Chain of Custody Record

eurofins

500-243330 COC

Client Information	Sampler: Connor Lawzon	Lab PM: Fredrick, Sandie	Carrier:	COC No: 500-118892-48444 4
Client Contact: Mr Mark Manthey	Phone: (262)203-1274	E-Mail: Sandra Fredrick@et eurofinsus com	State:	Page: Page 1 of 1
Company: Tetra Tech GEO	PWSID:	Analysis Reques		Job #: 500-243330
Address: 13555 Bishops Ct Suite 201	Due Date 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, Y - Trizma, Z - other (specify)
City: Brookfield	TAT Requested (days):			
State Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-792-1282(Tel)	PO #: NEEDED			
Email: mark manthey@tetratech com	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
Site:	SSOW#:			Other:

	Sample Identification	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)	8270E - PAH	8260D - VOC	2320B, 300.0_28D, 300_48HR	6010D - Manganese/Iron	3500_Fe_2_B_Calc - Iron, Ferrous	RSK_175 - Methane	8260B - VOC	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	A	N	D	N	A	A		
1	~~TRIP BLANK~~ MW-105	12/4/23	10 20	G	Water	Y	N	X	X	X	X	X	X	X		
2	~~TRIP BLANK~~ MW-129		12 20		Water											
3	~~TRIP BLANK~~ MW-104		14 15		Water											
4	~~TRIP BLANK~~ MW-123		15 20		Water											
5	Trip Blank	—	—	G	W											

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Connor Lawzon	12/4/23 16 00	TT	Stephanie Hernandez	12/5/23 0935	EEIA
2						
3						

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		1.9 + 1.8

MR MARK MANTHEY
TETRA TECH GEO
13555 BISHOPS CT
SUITE 201
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 22NOV23
ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3755

Part 9469434 MTWEXF C1 24

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 534-6200 REF:
INV:
PO: DEPT:

RMA.

FedEx Express

J233023051201uv

500-243330 Waybi

TUE - 05 DEC 12:00P
PRIORITY OVERNIGHT

60484
IL-US ORD

FedEx
TRK# 0221 7163 1500 7368

79 JOTA

583J2/7C1419/E3

RT 519 5 12:
ST 21

24

Page 45 of 48

12/15/2023

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-182387.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-243330-1
Address: 10 Hazelwood Drive,	Due Date Requested: 12/19/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
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
Y - Trizma
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)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-105 (500-243330-1)	12/4/23	10:20 Central		Water			X	3	
MW-129 (500-243330-2)	12/4/23	12:20 Central		Water			X	3	
MW-104 (500-243330-3)	12/4/23	14:15 Central		Water			X	3	
MW-123 (500-243330-4)	12/4/23	15:20 Central		Water			X	3	

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

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	Allie Scott	12/5/23 1520			12-6-23 1200	TAB
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: 2.6 ICE

Ver: 06/08/2021

12/15/2023

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243330-1

Login Number: 243330
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins 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	1.8
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: Tetra Tech GEO

Job Number: 500-243330-1

Login Number: 243330
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 12/06/23 03:35 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	2.6 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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 12/15/2023 3:58:49 PM

JOB DESCRIPTION

Beazer Oak Creek

JOB NUMBER

500-243421-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/15/2023 3:58:49 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job ID: 500-243421-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-243421-1

Receipt
The samples were received on 12/6/2023 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) for analytical batch 500-746191 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The method blank for analytical batch 500-746191 contained Methylene Chloride above the method detection limit (MDL). Associated samples were not re-analyzed because the method blank results were less than the reporting limit (RL).

Method 8260D: The method blank for analytical batch 500-746625 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-117 (500-243421-1). Elevated reporting limits (RLs) are provided. MW-117 (500-243421-1)

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

GC/MS Semi VOA
Method 8270E: The following sample was diluted due to the nature of the sample matrix: MW-117 (500-243421-1). Elevated reporting limits (RLs) are provided.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: MW-117 (500-243421-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-746032 recovered above the upper control limit for Dibenz(a,h)anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

GC VOA
Method RSK-175: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-117 (500-243421-1) and MW-2 (500-243421-3). Elevated reporting limits (RLs) are provided.

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

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

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

General Chemistry
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: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-117 — Lab Sample ID: 500-243421-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	280		50	18	ug/L	50		8260D	Total/NA
1,3,5-Trimethylbenzene	120		50	13	ug/L	50		8260D	Total/NA
Benzene	2700		25	7.3	ug/L	50		8260D	Total/NA
Ethylbenzene	240		25	9.2	ug/L	50		8260D	Total/NA
Toluene	2400		25	7.6	ug/L	50		8260D	Total/NA
Xylenes, Total	1500		50	11	ug/L	50		8260D	Total/NA
Naphthalene - DL	6600		500	170	ug/L	500		8260D	Total/NA
1-Methylnaphthalene	610		170	25	ug/L	100		8270E	Total/NA
2-Methylnaphthalene	1100		170	5.5	ug/L	100		8270E	Total/NA
Acenaphthene	130		84	26	ug/L	100		8270E	Total/NA
Benzo[a]anthracene	7.7	J	17	4.8	ug/L	100		8270E	Total/NA
Fluorene	78	J	84	21	ug/L	100		8270E	Total/NA
Naphthalene	7100		84	26	ug/L	100		8270E	Total/NA
Phenanthrene	82	J	84	25	ug/L	100		8270E	Total/NA
Methane	12000		440	110	ug/L	110		RSK-175	Total/NA
Manganese	0.47		0.10	0.023	mg/L	10		6010D	Dissolved
Sulfate	18		1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	420		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: P-120 — Lab Sample ID: 500-243421-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.69	J	1.0	0.34	ug/L	1		8260D	Total/NA
Toluene	0.20	J	0.50	0.15	ug/L	1		8260D	Total/NA
Benzo[a]anthracene	0.54		0.16	0.045	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.44		0.16	0.079	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.53		0.16	0.064	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.19		0.16	0.051	ug/L	1		8270E	Total/NA
Chrysene	0.34		0.16	0.054	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.080	J	0.24	0.041	ug/L	1		8270E	Total/NA
Fluoranthene	1.3		0.80	0.36	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.23		0.16	0.060	ug/L	1		8270E	Total/NA
Naphthalene	0.28	J	0.80	0.25	ug/L	1		8270E	Total/NA
Phenanthrene	1.0		0.80	0.24	ug/L	1		8270E	Total/NA
Pyrene	1.1		0.80	0.34	ug/L	1		8270E	Total/NA
Manganese	0.0025	J	0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.28	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	90		5.0	1.0	mg/L	5		300.0	Total/NA
Alkalinity	120		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 500-243421-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.5		0.50	0.15	ug/L	1		8260D	Total/NA
Ethylbenzene	0.95		0.50	0.18	ug/L	1		8260D	Total/NA
Isopropylbenzene	0.46	J	1.0	0.39	ug/L	1		8260D	Total/NA
Naphthalene	3.5		1.0	0.34	ug/L	1		8260D	Total/NA
Toluene	0.28	J	0.50	0.15	ug/L	1		8260D	Total/NA
Xylenes, Total	0.75	J	1.0	0.22	ug/L	1		8260D	Total/NA
1-Methylnaphthalene	1.4	J	1.6	0.24	ug/L	1		8270E	Total/NA
2-Methylnaphthalene	0.23	J	1.6	0.052	ug/L	1		8270E	Total/NA
Acenaphthene	10		0.80	0.25	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-2 (Continued) — Lab Sample ID: 500-243421-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.94		0.80	0.22	ug/L	1		8270E	Total/NA
Anthracene	4.5		0.80	0.27	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	2.7		0.16	0.046	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	2.5		0.16	0.080	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	3.4		0.16	0.065	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	1.5		0.80	0.30	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	1.2		0.16	0.051	ug/L	1		8270E	Total/NA
Chrysene	2.7		0.16	0.055	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.38		0.24	0.041	ug/L	1		8270E	Total/NA
Fluoranthene	7.7		0.80	0.37	ug/L	1		8270E	Total/NA
Fluorene	14		0.80	0.20	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	1.6		0.16	0.060	ug/L	1		8270E	Total/NA
Naphthalene	2.8		0.80	0.25	ug/L	1		8270E	Total/NA
Phenanthrene	3.4		0.80	0.24	ug/L	1		8270E	Total/NA
Pyrene	6.6		0.80	0.34	ug/L	1		8270E	Total/NA
Methane	370		88	22	ug/L	22		RSK-175	Total/NA
Iron	3.2		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.67		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	280		10	2.1	mg/L	10		300.0	Total/NA
Alkalinity	660		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 500-243421-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.55	J	1.0	0.34	ug/L	1		8260D	Total/NA
2-Methylnaphthalene	0.25	J	1.6	0.052	ug/L	1		8270E	Total/NA
Acenaphthene	1.1		0.80	0.25	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.18		0.16	0.045	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.080	J	0.16	0.079	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.11	J	0.16	0.064	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.053	J	0.16	0.051	ug/L	1		8270E	Total/NA
Chrysene	0.094	J	0.16	0.054	ug/L	1		8270E	Total/NA
Fluoranthene	0.85		0.80	0.36	ug/L	1		8270E	Total/NA
Fluorene	0.25	J	0.80	0.19	ug/L	1		8270E	Total/NA
Naphthalene	1.9		0.80	0.25	ug/L	1		8270E	Total/NA
Pyrene	0.63	J	0.80	0.34	ug/L	1		8270E	Total/NA
Iron	0.14	J	0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.0034	J	0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.30	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	180		10	2.1	mg/L	10		300.0	Total/NA
Alkalinity	490		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-131 — Lab Sample ID: 500-243421-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.22	J	0.50	0.18	ug/L	1		8260D	Total/NA
Naphthalene	0.55	J	1.0	0.34	ug/L	1		8260D	Total/NA
Acenaphthene	1.6		0.83	0.26	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.23		0.17	0.047	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.11	J	0.17	0.082	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.14	J	0.17	0.067	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.070	J	0.17	0.053	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-131 (Continued) — Lab Sample ID: 500-243421-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	0.14	J	0.17	0.057	ug/L	1		8270E	Total/NA
Fluoranthene	1.2		0.83	0.38	ug/L	1		8270E	Total/NA
Fluorene	0.41	J	0.83	0.20	ug/L	1		8270E	Total/NA
Phenanthrene	0.31	J	0.83	0.25	ug/L	1		8270E	Total/NA
Pyrene	0.79	J	0.83	0.36	ug/L	1		8270E	Total/NA
Methane	20		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	3.7		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.76		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	270		10	2.1	mg/L	10		300.0	Total/NA
Alkalinity	560		5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-243421-6

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010D	Metals (ICP)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 3500 Fe B	Iron, Ferrous	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243421-1	MW-117	Water	12/05/23 09:00	12/06/23 10:10
500-243421-2	P-120	Water	12/05/23 10:15	12/06/23 10:10
500-243421-3	MW-2	Water	12/05/23 11:20	12/06/23 10:10
500-243421-4	MW-1	Water	12/05/23 13:00	12/06/23 10:10
500-243421-5	MW-131	Water	12/05/23 14:15	12/06/23 10:10
500-243421-6	Trip Blank	Water	12/05/23 00:00	12/06/23 10:10

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-117

Date Collected: 12/05/23 09:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/L			12/13/23 18:18	50
1,1,1-Trichloroethane	<19		50	19	ug/L			12/13/23 18:18	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/L			12/13/23 18:18	50
1,1,2-Trichloroethane	<18		50	18	ug/L			12/13/23 18:18	50
1,1-Dichloroethane	<21		50	21	ug/L			12/13/23 18:18	50
1,1-Dichloroethene	<20		50	20	ug/L			12/13/23 18:18	50
1,1-Dichloropropene	<15		50	15	ug/L			12/13/23 18:18	50
1,2,3-Trichlorobenzene	<23		50	23	ug/L			12/13/23 18:18	50
1,2,3-Trichloropropane	<21		100	21	ug/L			12/13/23 18:18	50
1,2,4-Trichlorobenzene	<17		50	17	ug/L			12/13/23 18:18	50
1,2,4-Trimethylbenzene	**280**		50	18	ug/L			12/13/23 18:18	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/L			12/13/23 18:18	50
1,2-Dibromoethane (EDB)	<19		50	19	ug/L			12/13/23 18:18	50
1,2-Dichlorobenzene	<17		50	17	ug/L			12/13/23 18:18	50
1,2-Dichloroethane	<20		50	20	ug/L			12/13/23 18:18	50
1,2-Dichloropropane	<21		50	21	ug/L			12/13/23 18:18	50
1,3,5-Trimethylbenzene	**120**		50	13	ug/L			12/13/23 18:18	50
1,3-Dichlorobenzene	<20		50	20	ug/L			12/13/23 18:18	50
1,3-Dichloropropane	<18		50	18	ug/L			12/13/23 18:18	50
1,4-Dichlorobenzene	<18		50	18	ug/L			12/13/23 18:18	50
2,2-Dichloropropane	<22		250	22	ug/L			12/13/23 18:18	50
2-Chlorotoluene	<16		50	16	ug/L			12/13/23 18:18	50
4-Chlorotoluene	<17		50	17	ug/L			12/13/23 18:18	50
Benzene	**2700**		25	7.3	ug/L			12/13/23 18:18	50
Bromobenzene	<18		50	18	ug/L			12/13/23 18:18	50
Bromochloromethane	<21		50	21	ug/L			12/13/23 18:18	50
Bromodichloromethane	<19		50	19	ug/L			12/13/23 18:18	50
Bromoform	<24		50	24	ug/L			12/13/23 18:18	50
Bromomethane	<40		150	40	ug/L			12/13/23 18:18	50
Carbon tetrachloride	<19		50	19	ug/L			12/13/23 18:18	50
Chlorobenzene	<19		50	19	ug/L			12/13/23 18:18	50
Chloroethane	<25		250	25	ug/L			12/13/23 18:18	50
Chloroform	<19		100	19	ug/L			12/13/23 18:18	50
Chloromethane	<16		250	16	ug/L			12/13/23 18:18	50
cis-1,2-Dichloroethene	<20		50	20	ug/L			12/13/23 18:18	50
cis-1,3-Dichloropropene	<21		50	21	ug/L			12/13/23 18:18	50
Dibromochloromethane	<24		50	24	ug/L			12/13/23 18:18	50
Dibromomethane	<14		50	14	ug/L			12/13/23 18:18	50
Dichlorodifluoromethane	<34		150	34	ug/L			12/13/23 18:18	50
Ethylbenzene	**240**		25	9.2	ug/L			12/13/23 18:18	50
Hexachlorobutadiene	<22		50	22	ug/L			12/13/23 18:18	50
Isopropyl ether	<14		50	14	ug/L			12/13/23 18:18	50
Isopropylbenzene	<19		50	19	ug/L			12/13/23 18:18	50
Methyl tert-butyl ether	<20		50	20	ug/L			12/13/23 18:18	50
Methylene Chloride	<82		250	82	ug/L			12/13/23 18:18	50
n-Butylbenzene	<19		50	19	ug/L			12/13/23 18:18	50
N-Propylbenzene	<21		50	21	ug/L			12/13/23 18:18	50
p-Isopropyltoluene	<18		50	18	ug/L			12/13/23 18:18	50
sec-Butylbenzene	<20		50	20	ug/L			12/13/23 18:18	50

Client Sample ID: MW-117
Date Collected: 12/05/23 09:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<19		50	19	ug/L			12/13/23 18:18	50
tert-Butylbenzene	<20		50	20	ug/L			12/13/23 18:18	50
Tetrachloroethene	<19		50	19	ug/L			12/13/23 18:18	50
Toluene	**2400**		25	7.6	ug/L			12/13/23 18:18	50
trans-1,2-Dichloroethene	<17		50	17	ug/L			12/13/23 18:18	50
trans-1,3-Dichloropropene	<18		50	18	ug/L			12/13/23 18:18	50
Trichloroethene	<8.2		25	8.2	ug/L			12/13/23 18:18	50
Trichlorofluoromethane	<21		50	21	ug/L			12/13/23 18:18	50
Vinyl chloride	<10		50	10	ug/L			12/13/23 18:18	50
Xylenes, Total	**1500**		50	11	ug/L			12/13/23 18:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*12/13/23 18:18*	*50*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*12/13/23 18:18*	*50*
Dibromofluoromethane	*99*		*75 - 120*		*12/13/23 18:18*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*		*12/13/23 18:18*	*50*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**6600**		500	170	ug/L			12/11/23 14:36	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*12/11/23 14:36*	*500*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*12/11/23 14:36*	*500*
Dibromofluoromethane	*100*		*75 - 120*		*12/11/23 14:36*	*500*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/11/23 14:36*	*500*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**610**		170	25	ug/L		12/08/23 07:30	12/12/23 03:24	100
2-Methylnaphthalene	**1100**		170	5.5	ug/L		12/08/23 07:30	12/12/23 03:24	100
Acenaphthene	**130**		84	26	ug/L		12/08/23 07:30	12/12/23 03:24	100
Acenaphthylene	<23		84	23	ug/L		12/08/23 07:30	12/12/23 03:24	100
Anthracene	<28		84	28	ug/L		12/08/23 07:30	12/12/23 03:24	100
Benzo[a]anthracene	**7.7**	**J**	17	4.8	ug/L		12/08/23 07:30	12/12/23 03:24	100
Benzo[a]pyrene	<8.3		17	8.3	ug/L		12/08/23 07:30	12/12/23 03:24	100
Benzo[b]fluoranthene	<6.8		17	6.8	ug/L		12/08/23 07:30	12/12/23 03:24	100
Benzo[g,h,i]perylene	<32		84	32	ug/L		12/08/23 07:30	12/12/23 03:24	100
Benzo[k]fluoranthene	<5.4		17	5.4	ug/L		12/08/23 07:30	12/12/23 03:24	100
Chrysene	<5.7		17	5.7	ug/L		12/08/23 07:30	12/12/23 03:24	100
Dibenz(a,h)anthracene	<4.3		25	4.3	ug/L		12/08/23 07:30	12/12/23 03:24	100
Fluoranthene	<38		84	38	ug/L		12/08/23 07:30	12/12/23 03:24	100
Fluorene	**78**	**J**	84	21	ug/L		12/08/23 07:30	12/12/23 03:24	100
Indeno[1,2,3-cd]pyrene	<6.3		17	6.3	ug/L		12/08/23 07:30	12/12/23 03:24	100
Naphthalene	**7100**		84	26	ug/L		12/08/23 07:30	12/12/23 03:24	100
Phenanthrene	**82**	**J**	84	25	ug/L		12/08/23 07:30	12/12/23 03:24	100
Pyrene	<36		84	36	ug/L		12/08/23 07:30	12/12/23 03:24	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*36 - 120*	*12/08/23 07:30*	*12/12/23 03:24*	*100*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*34 - 110*	*12/08/23 07:30*	*12/12/23 03:24*	*100*

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-117
Date Collected: 12/05/23 09:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*0*	*S1-*	*40 - 145*	*12/08/23 07:30*	*12/12/23 03:24*	*100*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**12000**		440	110	ug/L			12/08/23 10:05	110

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.82		2.0	0.82	mg/L		12/13/23 09:21	12/14/23 21:39	10
Manganese	**0.47**		0.10	0.023	mg/L		12/13/23 09:21	12/14/23 00:48	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/06/23 12:18	1
Sulfate (EPA 300.0)	**18**		1.0	0.21	mg/L			12/06/23 12:18	1
Alkalinity (SM 2320B)	**420**		5.0	3.7	mg/L			12/12/23 16:15	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/06/23 23:02	1

Client Sample ID: P-120
Date Collected: 12/05/23 10:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/11/23 13:00	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/23 13:00	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/23 13:00	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/23 13:00	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/11/23 13:00	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/11/23 13:00	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/11/23 13:00	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/11/23 13:00	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/11/23 13:00	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:00	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/11/23 13:00	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/11/23 13:00	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/11/23 13:00	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/11/23 13:00	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:00	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/11/23 13:00	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:00	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/11/23 13:00	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/11/23 13:00	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/11/23 13:00	1
Benzene	<0.15		0.50	0.15	ug/L			12/11/23 13:00	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:00	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/11/23 13:00	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/11/23 13:00	1
Bromoform	<0.48		1.0	0.48	ug/L			12/11/23 13:00	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/11/23 13:00	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/23 13:00	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/11/23 13:00	1
Chloroform	<0.37		2.0	0.37	ug/L			12/11/23 13:00	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/11/23 13:00	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/11/23 13:00	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/11/23 13:00	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/11/23 13:00	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/11/23 13:00	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/11/23 13:00	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/11/23 13:00	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/11/23 13:00	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/11/23 13:00	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/11/23 13:00	1
Naphthalene	**0.69**	**J**	1.0	0.34	ug/L			12/11/23 13:00	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/11/23 13:00	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/11/23 13:00	1

Client Sample ID: P-120
Date Collected: 12/05/23 10:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:00	1
Styrene	<0.39		1.0	0.39	ug/L			12/11/23 13:00	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:00	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/11/23 13:00	1
Toluene	**0.20**	**J**	0.50	0.15	ug/L			12/11/23 13:00	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/23 13:00	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/11/23 13:00	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/11/23 13:00	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/11/23 13:00	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/11/23 13:00	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/11/23 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*12/11/23 13:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*12/11/23 13:00*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*12/11/23 13:00*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/11/23 13:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/08/23 07:30	12/08/23 18:33	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/08/23 07:30	12/08/23 18:33	1
Acenaphthene	<0.25		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 18:33	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/08/23 07:30	12/08/23 18:33	1
Anthracene	<0.27		0.80	0.27	ug/L		12/08/23 07:30	12/08/23 18:33	1
Benzo[a]anthracene	**0.54**		0.16	0.045	ug/L		12/08/23 07:30	12/08/23 18:33	1
Benzo[a]pyrene	**0.44**		0.16	0.079	ug/L		12/08/23 07:30	12/08/23 18:33	1
Benzo[b]fluoranthene	**0.53**		0.16	0.064	ug/L		12/08/23 07:30	12/08/23 18:33	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/08/23 07:30	12/08/23 18:33	1
Benzo[k]fluoranthene	**0.19**		0.16	0.051	ug/L		12/08/23 07:30	12/08/23 18:33	1
Chrysene	**0.34**		0.16	0.054	ug/L		12/08/23 07:30	12/08/23 18:33	1
Dibenz(a,h)anthracene	**0.080**	**J**	0.24	0.041	ug/L		12/08/23 07:30	12/08/23 18:33	1
Fluoranthene	**1.3**		0.80	0.36	ug/L		12/08/23 07:30	12/08/23 18:33	1
Fluorene	<0.19		0.80	0.19	ug/L		12/08/23 07:30	12/08/23 18:33	1
Indeno[1,2,3-cd]pyrene	**0.23**		0.16	0.060	ug/L		12/08/23 07:30	12/08/23 18:33	1
Naphthalene	**0.28**	**J**	0.80	0.25	ug/L		12/08/23 07:30	12/08/23 18:33	1
Phenanthrene	**1.0**		0.80	0.24	ug/L		12/08/23 07:30	12/08/23 18:33	1
Pyrene	**1.1**		0.80	0.34	ug/L		12/08/23 07:30	12/08/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*55*		*36 - 120*	*12/08/23 07:30*	*12/08/23 18:33*	*1*
2-Fluorobiphenyl (Surr)	*58*		*34 - 110*	*12/08/23 07:30*	*12/08/23 18:33*	*1*
Terphenyl-d14 (Surr)	*90*		*40 - 145*	*12/08/23 07:30*	*12/08/23 18:33*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 10:23	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 21:43	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: P-120
Date Collected: 12/05/23 10:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-2
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0025	J	0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 00:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.28	J	1.0	0.043	mg/L			12/06/23 12:33	1
Sulfate (EPA 300.0)	90		5.0	1.0	mg/L			12/07/23 09:51	5
Alkalinity (SM 2320B)	120		5.0	3.7	mg/L			12/12/23 16:25	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/06/23 23:14	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-2
Date Collected: 12/05/23 11:20
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/11/23 13:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/23 13:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/23 13:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/23 13:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/11/23 13:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/11/23 13:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/11/23 13:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/11/23 13:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/11/23 13:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/11/23 13:24	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/11/23 13:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/11/23 13:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/11/23 13:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/11/23 13:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:24	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/11/23 13:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/11/23 13:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/11/23 13:24	1
Benzene	**6.5**		0.50	0.15	ug/L			12/11/23 13:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/11/23 13:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/11/23 13:24	1
Bromoform	<0.48		1.0	0.48	ug/L			12/11/23 13:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/11/23 13:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/23 13:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/11/23 13:24	1
Chloroform	<0.37		2.0	0.37	ug/L			12/11/23 13:24	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/11/23 13:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/11/23 13:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/11/23 13:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/11/23 13:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/11/23 13:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/11/23 13:24	1
Ethylbenzene	**0.95**		0.50	0.18	ug/L			12/11/23 13:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/11/23 13:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/11/23 13:24	1
Isopropylbenzene	**0.46**	**J**	1.0	0.39	ug/L			12/11/23 13:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/11/23 13:24	1
Naphthalene	**3.5**		1.0	0.34	ug/L			12/11/23 13:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/11/23 13:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/11/23 13:24	1

Client Sample ID: MW-2
Date Collected: 12/05/23 11:20
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:24	1
Styrene	<0.39		1.0	0.39	ug/L			12/11/23 13:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/11/23 13:24	1
Toluene	**0.28**	**J**	0.50	0.15	ug/L			12/11/23 13:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/23 13:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/11/23 13:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/11/23 13:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/11/23 13:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/11/23 13:24	1
Xylenes, Total	**0.75**	**J**	1.0	0.22	ug/L			12/11/23 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*12/11/23 13:24*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*12/11/23 13:24*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*12/11/23 13:24*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/11/23 13:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**1.4**	**J**	1.6	0.24	ug/L		12/08/23 07:30	12/08/23 18:55	1
2-Methylnaphthalene	**0.23**	**J**	1.6	0.052	ug/L		12/08/23 07:30	12/08/23 18:55	1
Acenaphthene	**10**		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 18:55	1
Acenaphthylene	**0.94**		0.80	0.22	ug/L		12/08/23 07:30	12/08/23 18:55	1
Anthracene	**4.5**		0.80	0.27	ug/L		12/08/23 07:30	12/08/23 18:55	1
Benzo[a]anthracene	**2.7**		0.16	0.046	ug/L		12/08/23 07:30	12/08/23 18:55	1
Benzo[a]pyrene	**2.5**		0.16	0.080	ug/L		12/08/23 07:30	12/08/23 18:55	1
Benzo[b]fluoranthene	**3.4**		0.16	0.065	ug/L		12/08/23 07:30	12/08/23 18:55	1
Benzo[g,h,i]perylene	**1.5**		0.80	0.30	ug/L		12/08/23 07:30	12/08/23 18:55	1
Benzo[k]fluoranthene	**1.2**		0.16	0.051	ug/L		12/08/23 07:30	12/08/23 18:55	1
Chrysene	**2.7**		0.16	0.055	ug/L		12/08/23 07:30	12/08/23 18:55	1
Dibenz(a,h)anthracene	**0.38**		0.24	0.041	ug/L		12/08/23 07:30	12/08/23 18:55	1
Fluoranthene	**7.7**		0.80	0.37	ug/L		12/08/23 07:30	12/08/23 18:55	1
Fluorene	**14**		0.80	0.20	ug/L		12/08/23 07:30	12/08/23 18:55	1
Indeno[1,2,3-cd]pyrene	**1.6**		0.16	0.060	ug/L		12/08/23 07:30	12/08/23 18:55	1
Naphthalene	**2.8**		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 18:55	1
Phenanthrene	**3.4**		0.80	0.24	ug/L		12/08/23 07:30	12/08/23 18:55	1
Pyrene	**6.6**		0.80	0.34	ug/L		12/08/23 07:30	12/08/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*54*		*36 - 120*	*12/08/23 07:30*	*12/08/23 18:55*	*1*
2-Fluorobiphenyl (Surr)	*58*		*34 - 110*	*12/08/23 07:30*	*12/08/23 18:55*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 145*	*12/08/23 07:30*	*12/08/23 18:55*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**370**		88	22	ug/L			12/08/23 11:39	22

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.2**		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 21:47	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-2
Date Collected: 12/05/23 11:20
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-3
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.67**		0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 01:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/06/23 13:19	1
Sulfate (EPA 300.0)	**280**		10	2.1	mg/L			12/07/23 10:38	10
Alkalinity (SM 2320B)	**660**		5.0	3.7	mg/L			12/12/23 16:33	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/06/23 23:18	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-1

Date Collected: 12/05/23 13:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/11/23 13:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/23 13:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/23 13:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/23 13:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/11/23 13:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/11/23 13:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/11/23 13:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/11/23 13:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/11/23 13:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/11/23 13:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/11/23 13:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/11/23 13:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/11/23 13:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/11/23 13:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:48	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/11/23 13:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/11/23 13:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/11/23 13:48	1
Benzene	<0.15		0.50	0.15	ug/L			12/11/23 13:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/11/23 13:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/11/23 13:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/11/23 13:48	1
Bromoform	<0.48		1.0	0.48	ug/L			12/11/23 13:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/11/23 13:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/23 13:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/11/23 13:48	1
Chloroform	<0.37		2.0	0.37	ug/L			12/11/23 13:48	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/11/23 13:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/11/23 13:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/11/23 13:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/11/23 13:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/11/23 13:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/11/23 13:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/11/23 13:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/11/23 13:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/11/23 13:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/11/23 13:48	1
Naphthalene	**0.55**	**J**	1.0	0.34	ug/L			12/11/23 13:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/11/23 13:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/11/23 13:48	1

Client Sample ID: MW-1
Date Collected: 12/05/23 13:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-4
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:48	1
Styrene	<0.39		1.0	0.39	ug/L			12/11/23 13:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 13:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/11/23 13:48	1
Toluene	<0.15		0.50	0.15	ug/L			12/11/23 13:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/23 13:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/11/23 13:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/11/23 13:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/11/23 13:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/11/23 13:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/11/23 13:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*12/11/23 13:48*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/11/23 13:48*	*1*
Dibromofluoromethane	*102*		*75 - 120*		*12/11/23 13:48*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/11/23 13:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/08/23 07:30	12/08/23 19:16	1
2-Methylnaphthalene	**0.25**	**J**	1.6	0.052	ug/L		12/08/23 07:30	12/08/23 19:16	1
Acenaphthene	**1.1**		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 19:16	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/08/23 07:30	12/08/23 19:16	1
Anthracene	<0.27		0.80	0.27	ug/L		12/08/23 07:30	12/08/23 19:16	1
Benzo[a]anthracene	**0.18**		0.16	0.045	ug/L		12/08/23 07:30	12/08/23 19:16	1
Benzo[a]pyrene	**0.080**	**J**	0.16	0.079	ug/L		12/08/23 07:30	12/08/23 19:16	1
Benzo[b]fluoranthene	**0.11**	**J**	0.16	0.064	ug/L		12/08/23 07:30	12/08/23 19:16	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/08/23 07:30	12/08/23 19:16	1
Benzo[k]fluoranthene	**0.053**	**J**	0.16	0.051	ug/L		12/08/23 07:30	12/08/23 19:16	1
Chrysene	**0.094**	**J**	0.16	0.054	ug/L		12/08/23 07:30	12/08/23 19:16	1
Dibenz(a,h)anthracene	<0.040		0.24	0.040	ug/L		12/08/23 07:30	12/08/23 19:16	1
Fluoranthene	**0.85**		0.80	0.36	ug/L		12/08/23 07:30	12/08/23 19:16	1
Fluorene	**0.25**	**J**	0.80	0.19	ug/L		12/08/23 07:30	12/08/23 19:16	1
Indeno[1,2,3-cd]pyrene	<0.059		0.16	0.059	ug/L		12/08/23 07:30	12/08/23 19:16	1
Naphthalene	**1.9**		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 19:16	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/08/23 07:30	12/08/23 19:16	1
Pyrene	**0.63**	**J**	0.80	0.34	ug/L		12/08/23 07:30	12/08/23 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*54*		*36 - 120*	*12/08/23 07:30*	*12/08/23 19:16*	*1*
2-Fluorobiphenyl (Surr)	*55*		*34 - 110*	*12/08/23 07:30*	*12/08/23 19:16*	*1*
Terphenyl-d14 (Surr)	*87*		*40 - 145*	*12/08/23 07:30*	*12/08/23 19:16*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 11:01	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.14**	**J**	0.20	0.082	mg/L		12/13/23 09:21	12/14/23 21:51	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-1
Date Collected: 12/05/23 13:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-4
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0034	J	0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 01:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.30	J	1.0	0.043	mg/L			12/06/23 13:34	1
Sulfate (EPA 300.0)	180		10	2.1	mg/L			12/07/23 10:53	10
Alkalinity (SM 2320B)	490		5.0	3.7	mg/L			12/12/23 16:44	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/06/23 23:22	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-131
Date Collected: 12/05/23 14:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/11/23 14:13	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/23 14:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/23 14:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/23 14:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/11/23 14:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/11/23 14:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/11/23 14:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/11/23 14:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/11/23 14:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/11/23 14:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/11/23 14:13	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/11/23 14:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/11/23 14:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/11/23 14:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/11/23 14:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/11/23 14:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/11/23 14:13	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/11/23 14:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/11/23 14:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/11/23 14:13	1
Benzene	<0.15		0.50	0.15	ug/L			12/11/23 14:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/11/23 14:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/11/23 14:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/11/23 14:13	1
Bromoform	<0.48		1.0	0.48	ug/L			12/11/23 14:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/11/23 14:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/23 14:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/11/23 14:13	1
Chloroform	<0.37		2.0	0.37	ug/L			12/11/23 14:13	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/11/23 14:13	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/11/23 14:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/11/23 14:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/11/23 14:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/11/23 14:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/11/23 14:13	1
Ethylbenzene	**0.22**	**J**	0.50	0.18	ug/L			12/11/23 14:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/11/23 14:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/11/23 14:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/11/23 14:13	1
Naphthalene	**0.55**	**J**	1.0	0.34	ug/L			12/11/23 14:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/11/23 14:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/11/23 14:13	1

Client Sample ID: MW-131
Date Collected: 12/05/23 14:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 14:13	1
Styrene	<0.39		1.0	0.39	ug/L			12/11/23 14:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 14:13	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/11/23 14:13	1
Toluene	<0.15		0.50	0.15	ug/L			12/11/23 14:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/23 14:13	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/11/23 14:13	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/11/23 14:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/11/23 14:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/11/23 14:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/11/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*12/11/23 14:13*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/11/23 14:13*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*12/11/23 14:13*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/11/23 14:13*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.25		1.7	0.25	ug/L		12/08/23 07:30	12/08/23 19:38	1
2-Methylnaphthalene	<0.054		1.7	0.054	ug/L		12/08/23 07:30	12/08/23 19:38	1
Acenaphthene	**1.6**		0.83	0.26	ug/L		12/08/23 07:30	12/08/23 19:38	1
Acenaphthylene	<0.22		0.83	0.22	ug/L		12/08/23 07:30	12/08/23 19:38	1
Anthracene	<0.28		0.83	0.28	ug/L		12/08/23 07:30	12/08/23 19:38	1
Benzo[a]anthracene	**0.23**		0.17	0.047	ug/L		12/08/23 07:30	12/08/23 19:38	1
Benzo[a]pyrene	**0.11**	**J**	0.17	0.082	ug/L		12/08/23 07:30	12/08/23 19:38	1
Benzo[b]fluoranthene	**0.14**	**J**	0.17	0.067	ug/L		12/08/23 07:30	12/08/23 19:38	1
Benzo[g,h,i]perylene	<0.31		0.83	0.31	ug/L		12/08/23 07:30	12/08/23 19:38	1
Benzo[k]fluoranthene	**0.070**	**J**	0.17	0.053	ug/L		12/08/23 07:30	12/08/23 19:38	1
Chrysene	**0.14**	**J**	0.17	0.057	ug/L		12/08/23 07:30	12/08/23 19:38	1
Dibenz(a,h)anthracene	<0.042		0.25	0.042	ug/L		12/08/23 07:30	12/08/23 19:38	1
Fluoranthene	**1.2**		0.83	0.38	ug/L		12/08/23 07:30	12/08/23 19:38	1
Fluorene	**0.41**	**J**	0.83	0.20	ug/L		12/08/23 07:30	12/08/23 19:38	1
Indeno[1,2,3-cd]pyrene	<0.062		0.17	0.062	ug/L		12/08/23 07:30	12/08/23 19:38	1
Naphthalene	<0.26		0.83	0.26	ug/L		12/08/23 07:30	12/08/23 19:38	1
Phenanthrene	**0.31**	**J**	0.83	0.25	ug/L		12/08/23 07:30	12/08/23 19:38	1
Pyrene	**0.79**	**J**	0.83	0.36	ug/L		12/08/23 07:30	12/08/23 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*52*		*36 - 120*	*12/08/23 07:30*	*12/08/23 19:38*	*1*
2-Fluorobiphenyl (Surr)	*53*		*34 - 110*	*12/08/23 07:30*	*12/08/23 19:38*	*1*
Terphenyl-d14 (Surr)	*86*		*40 - 145*	*12/08/23 07:30*	*12/08/23 19:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**20**		4.0	1.0	ug/L			12/08/23 11:20	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.7**		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 21:55	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-131
Date Collected: 12/05/23 14:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-5
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.76**		0.010	0.0023	mg/L		12/13/23 09:21	12/14/23 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/06/23 13:49	1
Sulfate (EPA 300.0)	**270**		10	2.1	mg/L			12/07/23 11:09	10
Alkalinity (SM 2320B)	**560**		5.0	3.7	mg/L			12/12/23 16:54	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/06/23 23:26	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: Trip Blank

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/11/23 12:12	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/23 12:12	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/23 12:12	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/23 12:12	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/11/23 12:12	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/11/23 12:12	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/11/23 12:12	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/11/23 12:12	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/11/23 12:12	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/11/23 12:12	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/11/23 12:12	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/11/23 12:12	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/11/23 12:12	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/11/23 12:12	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/11/23 12:12	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/11/23 12:12	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/11/23 12:12	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/11/23 12:12	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/11/23 12:12	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/11/23 12:12	1
Benzene	<0.15		0.50	0.15	ug/L			12/11/23 12:12	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/11/23 12:12	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/11/23 12:12	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/11/23 12:12	1
Bromoform	<0.48		1.0	0.48	ug/L			12/11/23 12:12	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/11/23 12:12	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/23 12:12	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/11/23 12:12	1
Chloroform	<0.37		2.0	0.37	ug/L			12/11/23 12:12	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/11/23 12:12	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/11/23 12:12	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/11/23 12:12	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/11/23 12:12	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/11/23 12:12	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/11/23 12:12	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/11/23 12:12	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/11/23 12:12	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/11/23 12:12	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/11/23 12:12	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/11/23 12:12	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/11/23 12:12	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/11/23 12:12	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: Trip Blank
Date Collected: 12/05/23 00:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-6
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 12:12	1
Styrene	<0.39		1.0	0.39	ug/L			12/11/23 12:12	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 12:12	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/11/23 12:12	1
Toluene	<0.15		0.50	0.15	ug/L			12/11/23 12:12	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/23 12:12	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/11/23 12:12	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/11/23 12:12	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/11/23 12:12	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/11/23 12:12	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/11/23 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*12/11/23 12:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*		*12/11/23 12:12*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*12/11/23 12:12*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*12/11/23 12:12*	*1*

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
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.

Metals

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.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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: 745993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1 - DL	MW-117	Total/NA	Water	8260D	
500-243421-2	P-120	Total/NA	Water	8260D	
500-243421-3	MW-2	Total/NA	Water	8260D	
500-243421-4	MW-1	Total/NA	Water	8260D	
500-243421-5	MW-131	Total/NA	Water	8260D	
500-243421-6	Trip Blank	Total/NA	Water	8260D	
MB 500-745993/6	Method Blank	Total/NA	Water	8260D	
LCS 500-745993/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 746396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	8260D	
MB 500-746396/6	Method Blank	Total/NA	Water	8260D	
LCS 500-746396/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 745774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	3510C	
500-243421-2	P-120	Total/NA	Water	3510C	
500-243421-3	MW-2	Total/NA	Water	3510C	
500-243421-4	MW-1	Total/NA	Water	3510C	
500-243421-5	MW-131	Total/NA	Water	3510C	
MB 500-745774/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-745774/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 745839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-2	P-120	Total/NA	Water	8270E	745774
500-243421-3	MW-2	Total/NA	Water	8270E	745774
500-243421-4	MW-1	Total/NA	Water	8270E	745774
500-243421-5	MW-131	Total/NA	Water	8270E	745774
MB 500-745774/1-A	Method Blank	Total/NA	Water	8270E	745774
LCS 500-745774/2-A	Lab Control Sample	Total/NA	Water	8270E	745774

Analysis Batch: 746032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	8270E	745774

GC VOA

Analysis Batch: 694719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	RSK-175	
500-243421-2	P-120	Total/NA	Water	RSK-175	
500-243421-3	MW-2	Total/NA	Water	RSK-175	
500-243421-4	MW-1	Total/NA	Water	RSK-175	
500-243421-5	MW-131	Total/NA	Water	RSK-175	
MB 480-694719/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694719/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-694719/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Metals

Prep Batch: 746486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Dissolved	Water	3005A	
500-243421-2	P-120	Dissolved	Water	3005A	
500-243421-3	MW-2	Dissolved	Water	3005A	
500-243421-4	MW-1	Dissolved	Water	3005A	
500-243421-5	MW-131	Dissolved	Water	3005A	
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 746706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Dissolved	Water	6010D	746486
500-243421-2	P-120	Dissolved	Water	6010D	746486
500-243421-3	MW-2	Dissolved	Water	6010D	746486
500-243421-4	MW-1	Dissolved	Water	6010D	746486
500-243421-5	MW-131	Dissolved	Water	6010D	746486
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	6010D	746486
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746486

Analysis Batch: 746896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Dissolved	Water	6010D	746486
500-243421-2	P-120	Dissolved	Water	6010D	746486
500-243421-3	MW-2	Dissolved	Water	6010D	746486
500-243421-4	MW-1	Dissolved	Water	6010D	746486
500-243421-5	MW-131	Dissolved	Water	6010D	746486
MB 500-746486/1-A	Method Blank	Total Recoverable	Water	6010D	746486
LCS 500-746486/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746486

General Chemistry

Analysis Batch: 745394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	300.0	
MB 500-745394/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745394/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 745395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	300.0	
500-243421-2	P-120	Total/NA	Water	300.0	
500-243421-3	MW-2	Total/NA	Water	300.0	
500-243421-4	MW-1	Total/NA	Water	300.0	
500-243421-5	MW-131	Total/NA	Water	300.0	
MB 500-745395/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745395/4	Lab Control Sample	Total/NA	Water	300.0	
500-243421-2 MS	P-120	Total/NA	Water	300.0	
500-243421-2 MSD	P-120	Total/NA	Water	300.0	

Analysis Batch: 745508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Dissolved	Water	SM 3500 Fe B	

General Chemistry (Continued)

Analysis Batch: 745508 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-2	P-120	Dissolved	Water	SM 3500 Fe B	
500-243421-3	MW-2	Dissolved	Water	SM 3500 Fe B	
500-243421-4	MW-1	Dissolved	Water	SM 3500 Fe B	
500-243421-5	MW-131	Dissolved	Water	SM 3500 Fe B	
MB 500-745508/1	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 500-745508/2	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	
500-243421-1 MS	MW-117	Dissolved	Water	SM 3500 Fe B	
500-243421-1 MSD	MW-117	Dissolved	Water	SM 3500 Fe B	

Analysis Batch: 745547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-2	P-120	Total/NA	Water	300.0	
500-243421-3	MW-2	Total/NA	Water	300.0	
500-243421-4	MW-1	Total/NA	Water	300.0	
500-243421-5	MW-131	Total/NA	Water	300.0	
MB 500-745547/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745547/4	Lab Control Sample	Total/NA	Water	300.0	
500-243421-2 MS	P-120	Total/NA	Water	300.0	
500-243421-2 MSD	P-120	Total/NA	Water	300.0	

Analysis Batch: 746449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243421-1	MW-117	Total/NA	Water	SM 2320B	
500-243421-2	P-120	Total/NA	Water	SM 2320B	
500-243421-3	MW-2	Total/NA	Water	SM 2320B	
500-243421-4	MW-1	Total/NA	Water	SM 2320B	
500-243421-5	MW-131	Total/NA	Water	SM 2320B	
MB 500-746449/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-746449/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Method: 8260D - 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	(75-126)	(72-124)	(75-120)	(75-120)
500-243421-1 - DL	MW-117	95	98	100	94
500-243421-1	MW-117	95	98	99	91
500-243421-2	P-120	94	99	100	94
500-243421-3	MW-2	94	102	101	94
500-243421-4	MW-1	93	101	102	94
500-243421-5	MW-131	96	101	101	94
500-243421-6	Trip Blank	92	99	98	94
LCS 500-745993/4	Lab Control Sample	89	99	96	94
LCS 500-746396/4	Lab Control Sample	87	102	96	95
MB 500-745993/6	Method Blank	92	100	99	92
MB 500-746396/6	Method Blank	94	101	100	91

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-243421-1	MW-117	0 S1-	0 S1-	0 S1-
500-243421-2	P-120	55	58	90
500-243421-3	MW-2	54	58	86
500-243421-4	MW-1	54	55	87
500-243421-5	MW-131	52	53	86
LCS 500-745774/2-A	Lab Control Sample	68	70	91
MB 500-745774/1-A	Method Blank	68	62	94

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-745993/6
Matrix: Water
Analysis Batch: 745993

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/11/23 11:48	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/11/23 11:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/11/23 11:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/11/23 11:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/11/23 11:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/11/23 11:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/11/23 11:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/11/23 11:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/11/23 11:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/11/23 11:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/11/23 11:48	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/11/23 11:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/11/23 11:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/11/23 11:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/11/23 11:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/11/23 11:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/11/23 11:48	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/11/23 11:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/11/23 11:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/11/23 11:48	1
Benzene	<0.15		0.50	0.15	ug/L			12/11/23 11:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/11/23 11:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/11/23 11:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/11/23 11:48	1
Bromoform	<0.48		1.0	0.48	ug/L			12/11/23 11:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/11/23 11:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/11/23 11:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/11/23 11:48	1
Chloroform	<0.37		2.0	0.37	ug/L			12/11/23 11:48	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/11/23 11:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/11/23 11:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/11/23 11:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/11/23 11:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/11/23 11:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/11/23 11:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/11/23 11:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/11/23 11:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/11/23 11:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/11/23 11:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/11/23 11:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/11/23 11:48	1

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

Lab Sample ID: MB 500-745993/6
Matrix: Water
Analysis Batch: 745993

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/11/23 11:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 11:48	1
Styrene	<0.39		1.0	0.39	ug/L			12/11/23 11:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/11/23 11:48	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/11/23 11:48	1
Toluene	<0.15		0.50	0.15	ug/L			12/11/23 11:48	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/11/23 11:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/11/23 11:48	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/11/23 11:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/11/23 11:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/11/23 11:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/11/23 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*12/11/23 11:48*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/11/23 11:48*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*12/11/23 11:48*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/11/23 11:48*	*1*

Lab Sample ID: LCS 500-745993/4
Matrix: Water
Analysis Batch: 745993

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	70 - 125
1,1,1-Trichloroethane	50.0	44.1		ug/L		88	70 - 125
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/L		99	62 - 140
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	71 - 130
1,1-Dichloroethane	50.0	48.2		ug/L		96	70 - 125
1,1-Dichloroethene	50.0	36.1		ug/L		72	67 - 122
1,1-Dichloropropene	50.0	45.4		ug/L		91	70 - 121
1,2,3-Trichlorobenzene	50.0	37.1		ug/L		74	51 - 145
1,2,3-Trichloropropane	50.0	48.3		ug/L		97	50 - 133
1,2,4-Trichlorobenzene	50.0	37.8		ug/L		76	57 - 137
1,2,4-Trimethylbenzene	50.0	53.0		ug/L		106	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	56 - 123
1,2-Dibromoethane (EDB)	50.0	44.1		ug/L		88	70 - 125
1,2-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 125
1,2-Dichloroethane	50.0	44.8		ug/L		90	68 - 127
1,2-Dichloropropane	50.0	49.9		ug/L		100	67 - 130
1,3,5-Trimethylbenzene	50.0	52.5		ug/L		105	70 - 123
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,3-Dichloropropane	50.0	46.7		ug/L		93	62 - 136
1,4-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 120
2,2-Dichloropropane	50.0	50.1		ug/L		100	58 - 139
2-Chlorotoluene	50.0	51.2		ug/L		102	70 - 125
4-Chlorotoluene	50.0	51.7		ug/L		103	68 - 124
Benzene	50.0	45.3		ug/L		91	70 - 120

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

Lab Sample ID: LCS 500-745993/4
Matrix: Water
Analysis Batch: 745993

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	49.3		ug/L		99	70 - 122
Bromochloromethane	50.0	45.3		ug/L		91	65 - 122
Bromodichloromethane	50.0	48.7		ug/L		97	69 - 120
Bromoform	50.0	53.6		ug/L		107	56 - 132
Bromomethane	50.0	52.4		ug/L		105	40 - 152
Carbon tetrachloride	50.0	49.0		ug/L		98	59 - 133
Chlorobenzene	50.0	48.7		ug/L		97	70 - 120
Chloroethane	50.0	62.6		ug/L		125	48 - 136
Chloroform	50.0	45.4		ug/L		91	70 - 120
Chloromethane	50.0	66.6		ug/L		133	56 - 152
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	70 - 125
cis-1,3-Dichloropropene	50.0	46.1		ug/L		92	64 - 127
Dibromochloromethane	50.0	52.8		ug/L		106	68 - 125
Dibromomethane	50.0	44.4		ug/L		89	70 - 120
Dichlorodifluoromethane	50.0	45.7		ug/L		91	40 - 159
Ethylbenzene	50.0	48.6		ug/L		97	70 - 123
Hexachlorobutadiene	50.0	38.6		ug/L		77	51 - 150
Isopropylbenzene	50.0	50.7		ug/L		101	70 - 126
Methyl tert-butyl ether	50.0	36.7		ug/L		73	55 - 123
Methylene Chloride	50.0	44.2		ug/L		88	69 - 125
Naphthalene	50.0	37.2		ug/L		74	53 - 144
n-Butylbenzene	50.0	51.5		ug/L		103	68 - 125
N-Propylbenzene	50.0	53.1		ug/L		106	69 - 127
p-Isopropyltoluene	50.0	53.6		ug/L		107	70 - 125
sec-Butylbenzene	50.0	53.3		ug/L		107	70 - 123
Styrene	50.0	50.4		ug/L		101	70 - 120
tert-Butylbenzene	50.0	52.1		ug/L		104	70 - 121
Tetrachloroethene	50.0	43.8		ug/L		88	70 - 128
Toluene	50.0	49.1		ug/L		98	70 - 125
trans-1,2-Dichloroethene	50.0	43.8		ug/L		88	70 - 125
trans-1,3-Dichloropropene	50.0	45.7		ug/L		91	62 - 128
Trichloroethene	50.0	46.1		ug/L		92	70 - 125
Trichlorofluoromethane	50.0	49.2		ug/L		98	55 - 128
Vinyl chloride	50.0	56.3		ug/L		113	64 - 126
Xylenes, Total	100	98.5		ug/L		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*96*		*75 - 120*
Toluene-d8 (Surr)	*94*		*75 - 120*

Lab Sample ID: MB 500-746396/6
Matrix: Water
Analysis Batch: 746396

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/13/23 10:41	1

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

Lab Sample ID: MB 500-746396/6
Matrix: Water
Analysis Batch: 746396

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	<0.38		1.0	0.38	ug/L			12/13/23 10:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/13/23 10:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/13/23 10:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/13/23 10:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/13/23 10:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/13/23 10:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/13/23 10:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/13/23 10:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/13/23 10:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/13/23 10:41	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/13/23 10:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/13/23 10:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/13/23 10:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/13/23 10:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/13/23 10:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/13/23 10:41	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/13/23 10:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/13/23 10:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/13/23 10:41	1
Benzene	<0.15		0.50	0.15	ug/L			12/13/23 10:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/13/23 10:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/13/23 10:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/13/23 10:41	1
Bromoform	<0.48		1.0	0.48	ug/L			12/13/23 10:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/13/23 10:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/13/23 10:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/13/23 10:41	1
Chloroform	<0.37		2.0	0.37	ug/L			12/13/23 10:41	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/13/23 10:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/13/23 10:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/13/23 10:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/13/23 10:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/13/23 10:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/13/23 10:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/13/23 10:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/13/23 10:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/13/23 10:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
Methylene Chloride	1.60	J	5.0	1.6	ug/L			12/13/23 10:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/13/23 10:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/13/23 10:41	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/13/23 10:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/13/23 10:41	1

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

Lab Sample ID: MB 500-746396/6
Matrix: Water
Analysis Batch: 746396

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			12/13/23 10:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/13/23 10:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/13/23 10:41	1
Toluene	<0.15		0.50	0.15	ug/L			12/13/23 10:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/13/23 10:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/13/23 10:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/13/23 10:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/13/23 10:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/13/23 10:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/13/23 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*12/13/23 10:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*12/13/23 10:41*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*12/13/23 10:41*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*12/13/23 10:41*	*1*

Lab Sample ID: LCS 500-746396/4
Matrix: Water
Analysis Batch: 746396

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	47.9		ug/L		96	70 - 125
1,1,1-Trichloroethane	50.0	46.0		ug/L		92	70 - 125
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	62 - 140
1,1,2-Trichloroethane	50.0	44.9		ug/L		90	71 - 130
1,1-Dichloroethane	50.0	51.0		ug/L		102	70 - 125
1,1-Dichloroethene	50.0	48.8		ug/L		98	67 - 122
1,1-Dichloropropene	50.0	48.1		ug/L		96	70 - 121
1,2,3-Trichlorobenzene	50.0	35.4		ug/L		71	51 - 145
1,2,3-Trichloropropane	50.0	46.1		ug/L		92	50 - 133
1,2,4-Trichlorobenzene	50.0	36.2		ug/L		72	57 - 137
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/L		91	56 - 123
1,2-Dibromoethane (EDB)	50.0	43.7		ug/L		87	70 - 125
1,2-Dichlorobenzene	50.0	46.2		ug/L		92	70 - 125
1,2-Dichloroethane	50.0	45.9		ug/L		92	68 - 127
1,2-Dichloropropane	50.0	50.8		ug/L		102	67 - 130
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	70 - 123
1,3-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 125
1,3-Dichloropropane	50.0	45.3		ug/L		91	62 - 136
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	70 - 120
2,2-Dichloropropane	50.0	52.6		ug/L		105	58 - 139
2-Chlorotoluene	50.0	49.6		ug/L		99	70 - 125
4-Chlorotoluene	50.0	50.5		ug/L		101	68 - 124
Benzene	50.0	47.8		ug/L		96	70 - 120
Bromobenzene	50.0	47.9		ug/L		96	70 - 122
Bromochloromethane	50.0	47.0		ug/L		94	65 - 122

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

Lab Sample ID: LCS 500-746396/4
Matrix: Water
Analysis Batch: 746396

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	50.0	48.4		ug/L		97	69 - 120
Bromoform	50.0	50.7		ug/L		101	56 - 132
Bromomethane	50.0	46.5		ug/L		93	40 - 152
Carbon tetrachloride	50.0	53.2		ug/L		106	59 - 133
Chlorobenzene	50.0	46.8		ug/L		94	70 - 120
Chloroethane	50.0	60.4		ug/L		121	48 - 136
Chloroform	50.0	45.1		ug/L		90	70 - 120
Chloromethane	50.0	62.9		ug/L		126	56 - 152
cis-1,2-Dichloroethene	50.0	47.6		ug/L		95	70 - 125
cis-1,3-Dichloropropene	50.0	45.2		ug/L		90	64 - 127
Dibromochloromethane	50.0	51.2		ug/L		102	68 - 125
Dibromomethane	50.0	45.5		ug/L		91	70 - 120
Dichlorodifluoromethane	50.0	43.2		ug/L		86	40 - 159
Ethylbenzene	50.0	47.5		ug/L		95	70 - 123
Hexachlorobutadiene	50.0	37.3		ug/L		75	51 - 150
Isopropylbenzene	50.0	49.3		ug/L		99	70 - 126
Methyl tert-butyl ether	50.0	38.7		ug/L		77	55 - 123
Methylene Chloride	50.0	48.6		ug/L		97	69 - 125
Naphthalene	50.0	35.4		ug/L		71	53 - 144
n-Butylbenzene	50.0	50.4		ug/L		101	68 - 125
N-Propylbenzene	50.0	51.8		ug/L		104	69 - 127
p-Isopropyltoluene	50.0	52.3		ug/L		105	70 - 125
sec-Butylbenzene	50.0	51.9		ug/L		104	70 - 123
Styrene	50.0	48.6		ug/L		97	70 - 120
tert-Butylbenzene	50.0	50.5		ug/L		101	70 - 121
Tetrachloroethene	50.0	44.1		ug/L		88	70 - 128
Toluene	50.0	49.0		ug/L		98	70 - 125
trans-1,2-Dichloroethene	50.0	49.1		ug/L		98	70 - 125
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	62 - 128
Trichloroethene	50.0	47.4		ug/L		95	70 - 125
Trichlorofluoromethane	50.0	47.5		ug/L		95	55 - 128
Vinyl chloride	50.0	54.0		ug/L		108	64 - 126
Xylenes, Total	100	95.1		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*75 - 126*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*
Dibromofluoromethane	*96*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

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

Lab Sample ID: MB 500-745774/1-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/08/23 07:30	12/08/23 14:34	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/08/23 07:30	12/08/23 14:34	1

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

Lab Sample ID: MB 500-745774/1-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 745774

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 14:34	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/08/23 07:30	12/08/23 14:34	1
Anthracene	<0.27		0.80	0.27	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/08/23 07:30	12/08/23 14:34	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/08/23 07:30	12/08/23 14:34	1
Chrysene	<0.055		0.16	0.055	ug/L		12/08/23 07:30	12/08/23 14:34	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/08/23 07:30	12/08/23 14:34	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/08/23 07:30	12/08/23 14:34	1
Fluorene	<0.20		0.80	0.20	ug/L		12/08/23 07:30	12/08/23 14:34	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/08/23 07:30	12/08/23 14:34	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/08/23 07:30	12/08/23 14:34	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/08/23 07:30	12/08/23 14:34	1
Pyrene	<0.34		0.80	0.34	ug/L		12/08/23 07:30	12/08/23 14:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*12/08/23 07:30*	*12/08/23 14:34*	*1*
2-Fluorobiphenyl (Surr)	*62*		*34 - 110*	*12/08/23 07:30*	*12/08/23 14:34*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*12/08/23 07:30*	*12/08/23 14:34*	*1*

Lab Sample ID: LCS 500-745774/2-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745774

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	32.0	21.0		ug/L		66	38 - 110
2-Methylnaphthalene	32.0	30.3		ug/L		95	34 - 110
Acenaphthene	32.0	23.0		ug/L		72	46 - 110
Acenaphthylene	32.0	23.0		ug/L		72	47 - 113
Anthracene	32.0	25.7		ug/L		80	67 - 118
Benzo[a]anthracene	32.0	28.0		ug/L		88	70 - 126
Benzo[a]pyrene	32.0	28.8		ug/L		90	70 - 135
Benzo[b]fluoranthene	32.0	29.6		ug/L		93	69 - 136
Benzo[g,h,i]perylene	32.0	28.3		ug/L		88	70 - 135
Benzo[k]fluoranthene	32.0	29.4		ug/L		92	70 - 133
Chrysene	32.0	28.3		ug/L		88	68 - 129
Dibenz(a,h)anthracene	32.0	30.8		ug/L		96	70 - 134
Fluoranthene	32.0	26.5		ug/L		83	68 - 126
Fluorene	32.0	24.3		ug/L		76	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	29.6		ug/L		92	65 - 133
Naphthalene	32.0	19.1		ug/L		60	36 - 110
Phenanthrene	32.0	25.4		ug/L		79	65 - 120
Pyrene	32.0	28.8		ug/L		90	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*

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

Lab Sample ID: LCS 500-745774/2-A
Matrix: Water
Analysis Batch: 745839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 745774

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*70*		*34 - 110*
Terphenyl-d14 (Surr)	*91*		*40 - 145*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-694719/3
Matrix: Water
Analysis Batch: 694719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/08/23 07:50	1

Lab Sample ID: LCS 480-694719/4
Matrix: Water
Analysis Batch: 694719

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.5	17.9		ug/L		92	85 - 120		

Lab Sample ID: LCSD 480-694719/5
Matrix: Water
Analysis Batch: 694719

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane			19.5	16.7		ug/L		86	85 - 120	7	50

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-746486/1-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.0023		0.010	0.0023	mg/L		12/13/23 09:21	12/13/23 23:19	1

Lab Sample ID: MB 500-746486/1-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/13/23 09:21	12/14/23 20:57	1

Lab Sample ID: LCS 500-746486/2-A
Matrix: Water
Analysis Batch: 746706

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Manganese			0.500	0.510		mg/L		102	80 - 120		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-746486/2-A
Matrix: Water
Analysis Batch: 746896

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			1.00	1.19		mg/L		119	80 - 120		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-745394/3
Matrix: Water
Analysis Batch: 745394

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/06/23 10:54	1

Lab Sample ID: LCS 500-745394/4
Matrix: Water
Analysis Batch: 745394

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			20.0	20.5		mg/L		103	90 - 110		

Lab Sample ID: MB 500-745395/3
Matrix: Water
Analysis Batch: 745395

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			12/06/23 10:54	1

Lab Sample ID: LCS 500-745395/4
Matrix: Water
Analysis Batch: 745395

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			20.0	20.6		mg/L		103	90 - 110		

Lab Sample ID: 500-243421-2 MS
Matrix: Water
Analysis Batch: 745395

Client Sample ID: P-120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.28	J	10.0	10.1		mg/L		98	80 - 120		

Lab Sample ID: 500-243421-2 MSD
Matrix: Water
Analysis Batch: 745395

Client Sample ID: P-120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.28	J	10.0	10.2		mg/L		99	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-745547/3
Matrix: Water
Analysis Batch: 745547

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/07/23 08:33	1

Lab Sample ID: LCS 500-745547/4
Matrix: Water
Analysis Batch: 745547

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.9		mg/L		105	90 - 110

Lab Sample ID: 500-243421-2 MS
Matrix: Water
Analysis Batch: 745547

Client Sample ID: P-120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	90		50.0	135		mg/L		90	80 - 120

Lab Sample ID: 500-243421-2 MSD
Matrix: Water
Analysis Batch: 745547

Client Sample ID: P-120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	90		50.0	135		mg/L		90	80 - 120	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-746449/28
Matrix: Water
Analysis Batch: 746449

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<3.7		5.0	3.7	mg/L			12/12/23 14:47	1

Lab Sample ID: LCS 500-746449/29
Matrix: Water
Analysis Batch: 746449

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	104		mg/L		104	90 - 110

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 500-745508/1
Matrix: Water
Analysis Batch: 745508

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.050		0.050	0.050	mg/L			12/06/23 22:54	1

Method: SM 3500 Fe B - Iron, Ferrous (Continued)

Lab Sample ID: LCS 500-745508/2
Matrix: Water
Analysis Batch: 745508

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			0.500	0.500		mg/L		100	80 - 120		

Lab Sample ID: 500-243421-1 MS
Matrix: Water
Analysis Batch: 745508

Client Sample ID: MW-117
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron	<0.050	HF	0.500	0.500		mg/L		100	75 - 125		

Lab Sample ID: 500-243421-1 MSD
Matrix: Water
Analysis Batch: 745508

Client Sample ID: MW-117
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	<0.050	HF	0.500	0.500		mg/L		100	75 - 125	0	20

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: MW-117
Date Collected: 12/05/23 09:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	500	745993	W1T	EET CHI	12/11/23 14:36
Total/NA	Analysis	8260D		50	746396	W1T	EET CHI	12/13/23 18:18
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		100	746032	SS	EET CHI	12/12/23 03:24
Total/NA	Analysis	RSK-175		110	694719	JLS	EET BUF	12/08/23 10:05
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		10	746706	SJ	EET CHI	12/14/23 00:48
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		10	746896	SJ	EET CHI	12/14/23 21:39
Total/NA	Analysis	300.0		1	745394	NMB	EET CHI	12/06/23 12:18
Total/NA	Analysis	300.0		1	745395	NMB	EET CHI	12/06/23 12:18
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 16:15
Dissolved	Analysis	SM 3500 Fe B		1	745508	CLB	EET CHI	12/06/23 23:02

Client Sample ID: P-120
Date Collected: 12/05/23 10:15
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745993	W1T	EET CHI	12/11/23 13:00
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 18:33
Total/NA	Analysis	RSK-175		1	694719	JLS	EET BUF	12/08/23 10:23
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 00:53
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 21:43
Total/NA	Analysis	300.0		1	745395	NMB	EET CHI	12/06/23 12:33
Total/NA	Analysis	300.0		5	745547	NMB	EET CHI	12/07/23 09:51
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 16:25
Dissolved	Analysis	SM 3500 Fe B		1	745508	CLB	EET CHI	12/06/23 23:14

Client Sample ID: MW-2
Date Collected: 12/05/23 11:20
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745993	W1T	EET CHI	12/11/23 13:24
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 18:55
Total/NA	Analysis	RSK-175		22	694719	JLS	EET BUF	12/08/23 11:39
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 01:06

Client Sample ID: MW-2

Lab Sample ID: 500-243421-3

Date Collected: 12/05/23 11:20

Matrix: Water

Date Received: 12/06/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 21:47
Total/NA	Analysis	300.0		1	745395	NMB	EET CHI	12/06/23 13:19
Total/NA	Analysis	300.0		10	745547	NMB	EET CHI	12/07/23 10:38
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 16:33
Dissolved	Analysis	SM 3500 Fe B		1	745508	CLB	EET CHI	12/06/23 23:18

Client Sample ID: MW-1

Lab Sample ID: 500-243421-4

Date Collected: 12/05/23 13:00

Matrix: Water

Date Received: 12/06/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745993	W1T	EET CHI	12/11/23 13:48
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 19:16
Total/NA	Analysis	RSK-175		1	694719	JLS	EET BUF	12/08/23 11:01
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 01:11
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 21:51
Total/NA	Analysis	300.0		1	745395	NMB	EET CHI	12/06/23 13:34
Total/NA	Analysis	300.0		10	745547	NMB	EET CHI	12/07/23 10:53
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 16:44
Dissolved	Analysis	SM 3500 Fe B		1	745508	CLB	EET CHI	12/06/23 23:22

Client Sample ID: MW-131

Lab Sample ID: 500-243421-5

Date Collected: 12/05/23 14:15

Matrix: Water

Date Received: 12/06/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745993	W1T	EET CHI	12/11/23 14:13
Total/NA	Prep	3510C			745774	KL	EET CHI	12/08/23 07:30
Total/NA	Analysis	8270E		1	745839	SS	EET CHI	12/08/23 19:38
Total/NA	Analysis	RSK-175		1	694719	JLS	EET BUF	12/08/23 11:20
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746706	SJ	EET CHI	12/14/23 01:15
Dissolved	Prep	3005A			746486	BDE	EET CHI	12/13/23 09:21 - 12/13/23 09:51 [1]
Dissolved	Analysis	6010D		1	746896	SJ	EET CHI	12/14/23 21:55
Total/NA	Analysis	300.0		1	745395	NMB	EET CHI	12/06/23 13:49
Total/NA	Analysis	300.0		10	745547	NMB	EET CHI	12/07/23 11:09
Total/NA	Analysis	SM 2320B		1	746449	SO	EET CHI	12/12/23 16:54
Dissolved	Analysis	SM 3500 Fe B		1	745508	CLB	EET CHI	12/06/23 23:26

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Client Sample ID: Trip Blank

Date Collected: 12/05/23 00:00
Date Received: 12/06/23 10:10

Lab Sample ID: 500-243421-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745993	W1T	EET CHI	12/11/23 12:12

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243421-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-24

Eurofins Chicago
2417 Bond Street

University Park, IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

500-243421 COC

Eurofins Environment Testing America

Client Contact	Project Manager: Mark Manthey	Site Contact: Connor Lauzon	Date:	COC No
Tetra Tech	Email mark manthey@tetratech com	Lab Contact:	Carri	1 of 1 COCs
13555 Bishops Ct , Ste 201	Tel/Fax: (262)792-1282			TALS Project #
Brookfield, WI 53005	**Analysis Turnaround Time**			Sampler
(262) 792-1282 Phone	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(xxx) xxx-xxxx FAX	TAT if different from Below _____			Walk-in Client
Project Name Beazer Former Wabash Alloys	☐ 2 weeks			Lab Sampling
Site Oak Creek, WI	☐ 1 week			
P O #	☐ 2 days			Job / SDG No
	☐ 1 day			500-243421

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs	Methane	PAHs	Mn	Ferrous Fe	Anions (Nitrate, Sulfate, Alk)	Sample Specific Notes
1	MW-117	12/5/23	9.00	G	W	11	Y	N	X	X	X	X	X	X	
2	P-120		10.15												
3	MW-2		11.20												
4	MW-1		13.00												
5	MW-131		14.15												
6	Trip Blank	—	—	G	W	1	N	N	X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 2 2 1 4 1 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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 & Comments:

2.9+2.7

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____
Relinquished by Connor Lauzon	Company TT	Date/Time 12/5/23 16.00	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	Company EETA	Date/Time 12/6/23 1010

MR MARK MANTHEY
TETRA TECH GEO
13555 BISHOPS CT
SUITE 201
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25.00 LB MAN
CAD: 0780307/CAFE3755

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT:

RMA

FedEx
Express

E

FedEx
TRK# 0221 7163 1500 7416

79 JOTA

WED - 06 DEC 12:00P
PRIORITY OVERNIGHT

60484
IL-US ORD

500-243421 Waybi

48at

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-182423.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-243421-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 12/20/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Beazer Oak Creek	Project #: 50007178			
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, Y - Trizma, 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)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-117 (500-243421-1)	12/5/23	09:00 Central		Water			X	3	
P-120 (500-243421-2)	12/5/23	10:15 Central		Water			X	3	
MW-2 (500-243421-3)	12/5/23	11:20 Central		Water			X	3	
MW-1 (500-243421-4)	12/5/23	13:00 Central		Water			X	3	
MW-131 (500-243421-5)	12/5/23	14:15 Central		Water			X	3	

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

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: [signature]	Date/Time: 12/6/23 1500	Company	Received by: [signature] Date/Time: 12-7-23 1100 Company: TAB
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: 2.3 ICE

Ver: 06/08/2021

12/15/2023

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243421-1

Login Number: 243421
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins 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	2.7
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: Tetra Tech GEO

Job Number: 500-243421-1

Login Number: 243421
List Number: 2
Creator: Yeager, Brian A

List Source: Eurofins Buffalo
List Creation: 12/07/23 03:11 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	2.3 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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark Manthey
Tetra Tech GEO
13555 Bishops Ct
Suite 201
Brookfield, Wisconsin 53005

Generated 12/21/2023 5:47:26 PM

JOB DESCRIPTION

Beazer Oak Creek

JOB NUMBER

500-243515-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization

Generated
12/21/2023 5:47:26 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

Table of Contents

Job Narrative
500-243515-1

Receipt
The samples were received on 12/7/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3º C.

Receipt Exceptions
The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: Trip Blank.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) for analytical batch 500-746191 recovered outside control limits for the following analytes: Trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-107 (500-243515-1). Elevated reporting limits (RLs) are provided.

Method 8260D: Methylene chloride was detected in the following items: MW-107 (500-243515-1). Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

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

GC/MS Semi VOA
Method 8270E: The continuing calibration verification (CCV) analyzed in 500-747766 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample required a dilution due to the nature of the sample matrix: MW-107 (500-243515-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

GC VOA
Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-107 (500-243515-1). Elevated reporting limits (RLs) are provided.

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

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

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

General Chemistry
Method 300.0: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for analytical batch 500-745637. The associated laboratory control sample (LCS) met acceptance criteria.

Method SM 2320B: The method blank for analytical batch 500-747083 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

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

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-107 — Lab Sample ID: 500-243515-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	180		10	3.6	ug/L	10		8260D	Total/NA
Benzene	1900		5.0	1.5	ug/L	10		8260D	Total/NA
Ethylbenzene	410		5.0	1.8	ug/L	10		8260D	Total/NA
Isopropylbenzene	18		10	3.9	ug/L	10		8260D	Total/NA
Methylene Chloride	20	J B	50	16	ug/L	10		8260D	Total/NA
N-Propylbenzene	6.4	J	10	4.1	ug/L	10		8260D	Total/NA
Toluene	21		5.0	1.5	ug/L	10		8260D	Total/NA
Xylenes, Total	750		10	2.2	ug/L	10		8260D	Total/NA
Naphthalene - DL	14000		100	34	ug/L	100		8260D	Total/NA
Acenaphthylene	2.2		0.79	0.21	ug/L	1		8270E	Total/NA
Anthracene	9.4		0.79	0.26	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	3.6		0.16	0.045	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	3.5		0.16	0.078	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	4.0		0.16	0.064	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	2.5		0.79	0.30	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	1.9		0.16	0.051	ug/L	1		8270E	Total/NA
Chrysene	5.1		0.16	0.054	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.65		0.24	0.040	ug/L	1		8270E	Total/NA
Fluoranthene	16		0.79	0.36	ug/L	1		8270E	Total/NA
Fluorene	58		0.79	0.19	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	2.6		0.16	0.059	ug/L	1		8270E	Total/NA
Phenanthrene	61		0.79	0.24	ug/L	1		8270E	Total/NA
Pyrene	9.7		0.79	0.34	ug/L	1		8270E	Total/NA
1-Methylnaphthalene - DL	270		79	12	ug/L	50		8270E	Total/NA
2-Methylnaphthalene - DL	440		79	2.6	ug/L	50		8270E	Total/NA
Acenaphthene - DL	140		39	12	ug/L	50		8270E	Total/NA
Naphthalene - DL	4600		39	12	ug/L	50		8270E	Total/NA
Methane	13000		180	44	ug/L	44		RSK-175	Total/NA
Iron	25		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.28		0.010	0.0023	mg/L	1		6010D	Dissolved
Sulfate	0.75	J	1.0	0.21	mg/L	1		300.0	Total/NA
Alkalinity	460	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-136 — Lab Sample ID: 500-243515-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.75	J	1.0	0.34	ug/L	1		8260D	Total/NA
2-Methylnaphthalene	0.21	J	1.6	0.052	ug/L	1		8270E	Total/NA
Acenaphthene	0.63	J	0.80	0.25	ug/L	1		8270E	Total/NA
Fluoranthene	0.72	J	0.80	0.37	ug/L	1		8270E	Total/NA
Fluorene	0.36	J	0.80	0.20	ug/L	1		8270E	Total/NA
Naphthalene	2.5		0.80	0.25	ug/L	1		8270E	Total/NA
Phenanthrene	0.99		0.80	0.24	ug/L	1		8270E	Total/NA
Pyrene	0.37	J	0.80	0.34	ug/L	1		8270E	Total/NA
Manganese	0.0071	J	0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.28	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	660		20	4.1	mg/L	20		300.0	Total/NA
Alkalinity	330	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-132 — Lab Sample ID: 500-243515-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.54	J	1.0	0.33	ug/L	1		8260D	Total/NA
1,3-Dichlorobenzene	1.0		1.0	0.40	ug/L	1		8260D	Total/NA
2-Methylnaphthalene	0.19	J	1.6	0.052	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.61		0.16	0.045	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.81		0.16	0.079	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.97		0.16	0.064	ug/L	1		8270E	Total/NA
Benzo[g,h,i]perylene	0.60	J	0.79	0.30	ug/L	1		8270E	Total/NA
Benzo[k]fluoranthene	0.28		0.16	0.051	ug/L	1		8270E	Total/NA
Chrysene	0.56		0.16	0.054	ug/L	1		8270E	Total/NA
Dibenz(a,h)anthracene	0.22	J	0.24	0.040	ug/L	1		8270E	Total/NA
Fluoranthene	1.2		0.79	0.36	ug/L	1		8270E	Total/NA
Fluorene	0.19	J	0.79	0.19	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.51		0.16	0.059	ug/L	1		8270E	Total/NA
Naphthalene	1.2		0.79	0.25	ug/L	1		8270E	Total/NA
Phenanthrene	0.60	J	0.79	0.24	ug/L	1		8270E	Total/NA
Pyrene	0.88		0.79	0.34	ug/L	1		8270E	Total/NA
Methane	20		4.0	1.0	ug/L	1		RSK-175	Total/NA
Iron	0.72		0.20	0.082	mg/L	1		6010D	Dissolved
Manganese	0.25		0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.38	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	75		2.0	0.41	mg/L	2		300.0	Total/NA
Alkalinity	260	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-112 — Lab Sample ID: 500-243515-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.99	J	1.0	0.34	ug/L	1		8260D	Total/NA
2-Methylnaphthalene	0.092	J	1.8	0.058	ug/L	1		8270E	Total/NA
Fluorene	0.30	J	0.88	0.22	ug/L	1		8270E	Total/NA
Phenanthrene	0.43	J	0.88	0.27	ug/L	1		8270E	Total/NA
Manganese	0.33		0.010	0.0023	mg/L	1		6010D	Dissolved
Nitrate as N	0.23	J	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	1400		100	21	mg/L	100		300.0	Total/NA
Alkalinity	270	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

Client Sample ID: P-113 — Lab Sample ID: 500-243515-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.98	J	1.0	0.34	ug/L	1		8260D	Total/NA
Acenaphthene	1.1		0.77	0.24	ug/L	1		8270E	Total/NA
Acenaphthylene	0.23	J	0.77	0.21	ug/L	1		8270E	Total/NA
Benzo[a]anthracene	0.46		0.15	0.044	ug/L	1		8270E	Total/NA
Benzo[a]pyrene	0.32		0.15	0.076	ug/L	1		8270E	Total/NA
Benzo[b]fluoranthene	0.54		0.15	0.062	ug/L	1		8270E	Total/NA
Chrysene	0.30		0.15	0.052	ug/L	1		8270E	Total/NA
Fluoranthene	1.3		0.77	0.35	ug/L	1		8270E	Total/NA
Fluorene	0.60	J	0.77	0.19	ug/L	1		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.16		0.15	0.058	ug/L	1		8270E	Total/NA
Phenanthrene	1.4		0.77	0.23	ug/L	1		8270E	Total/NA
Pyrene	0.85		0.77	0.33	ug/L	1		8270E	Total/NA
Methane	4.1		4.0	1.0	ug/L	1		RSK-175	Total/NA
Manganese	0.015		0.010	0.0023	mg/L	1		6010D	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-113 (Continued)

Lab Sample ID: 500-243515-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.29	J F1	1.0	0.043	mg/L	1		300.0	Total/NA
Sulfate	610		50	10	mg/L	50		300.0	Total/NA
Alkalinity	62	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
RSK-175	Dissolved Gases (GC)	RSK	EET BUF
6010D	Metals (ICP)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 3500 Fe B	Iron, Ferrous	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CHI
5030B	Purge and Trap	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243515-1	MW-107	Water	12/06/23 09:00	12/07/23 09:55
500-243515-2	MW-136	Water	12/06/23 10:10	12/07/23 09:55
500-243515-3	MW-132	Water	12/06/23 11:15	12/07/23 09:55
500-243515-4	MW-112	Water	12/06/23 12:50	12/07/23 09:55
500-243515-5	P-113	Water	12/06/23 14:00	12/07/23 09:55

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-107

Date Collected: 12/06/23 09:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<4.6		10	4.6	ug/L			12/12/23 17:42	10
1,1,1-Trichloroethane	<3.8		10	3.8	ug/L			12/12/23 17:42	10
1,1,2,2-Tetrachloroethane	<4.0		10	4.0	ug/L			12/12/23 17:42	10
1,1,2-Trichloroethane	<3.5		10	3.5	ug/L			12/12/23 17:42	10
1,1-Dichloroethane	<4.1		10	4.1	ug/L			12/12/23 17:42	10
1,1-Dichloroethene	<3.9		10	3.9	ug/L			12/12/23 17:42	10
1,1-Dichloropropene	<3.0		10	3.0	ug/L			12/12/23 17:42	10
1,2,3-Trichlorobenzene	<4.6		10	4.6	ug/L			12/12/23 17:42	10
1,2,3-Trichloropropane	<4.1		20	4.1	ug/L			12/12/23 17:42	10
1,2,4-Trichlorobenzene	<3.4		10	3.4	ug/L			12/12/23 17:42	10
1,2,4-Trimethylbenzene	**180**		10	3.6	ug/L			12/12/23 17:42	10
1,2-Dibromo-3-Chloropropane	<20		50	20	ug/L			12/12/23 17:42	10
1,2-Dibromoethane (EDB)	<3.9		10	3.9	ug/L			12/12/23 17:42	10
1,2-Dichlorobenzene	<3.3		10	3.3	ug/L			12/12/23 17:42	10
1,2-Dichloroethane	<3.9		10	3.9	ug/L			12/12/23 17:42	10
1,2-Dichloropropane	<4.3		10	4.3	ug/L			12/12/23 17:42	10
1,3,5-Trimethylbenzene	<2.5		10	2.5	ug/L			12/12/23 17:42	10
1,3-Dichlorobenzene	<4.0		10	4.0	ug/L			12/12/23 17:42	10
1,3-Dichloropropane	<3.6		10	3.6	ug/L			12/12/23 17:42	10
1,4-Dichlorobenzene	<3.6		10	3.6	ug/L			12/12/23 17:42	10
2,2-Dichloropropane	<4.4		50	4.4	ug/L			12/12/23 17:42	10
2-Chlorotoluene	<3.1		10	3.1	ug/L			12/12/23 17:42	10
4-Chlorotoluene	<3.5		10	3.5	ug/L			12/12/23 17:42	10
Benzene	**1900**		5.0	1.5	ug/L			12/12/23 17:42	10
Bromobenzene	<3.6		10	3.6	ug/L			12/12/23 17:42	10
Bromochloromethane	<4.3		10	4.3	ug/L			12/12/23 17:42	10
Bromodichloromethane	<3.7		10	3.7	ug/L			12/12/23 17:42	10
Bromoform	<4.8		10	4.8	ug/L			12/12/23 17:42	10
Bromomethane	<8.0		30	8.0	ug/L			12/12/23 17:42	10
Carbon tetrachloride	<3.8		10	3.8	ug/L			12/12/23 17:42	10
Chlorobenzene	<3.9		10	3.9	ug/L			12/12/23 17:42	10
Chloroethane	<5.1		50	5.1	ug/L			12/12/23 17:42	10
Chloroform	<3.7		20	3.7	ug/L			12/12/23 17:42	10
Chloromethane	<3.2		50	3.2	ug/L			12/12/23 17:42	10
cis-1,2-Dichloroethene	<4.1		10	4.1	ug/L			12/12/23 17:42	10
cis-1,3-Dichloropropene	<4.2		10	4.2	ug/L			12/12/23 17:42	10
Dibromochloromethane	<4.9		10	4.9	ug/L			12/12/23 17:42	10
Dibromomethane	<2.7		10	2.7	ug/L			12/12/23 17:42	10
Dichlorodifluoromethane	<6.7		30	6.7	ug/L			12/12/23 17:42	10
Ethylbenzene	**410**		5.0	1.8	ug/L			12/12/23 17:42	10
Hexachlorobutadiene	<4.5		10	4.5	ug/L			12/12/23 17:42	10
Isopropyl ether	<2.8		10	2.8	ug/L			12/12/23 17:42	10
Isopropylbenzene	**18**		10	3.9	ug/L			12/12/23 17:42	10
Methyl tert-butyl ether	<3.9		10	3.9	ug/L			12/12/23 17:42	10
Methylene Chloride	**20**	**J B**	50	16	ug/L			12/12/23 17:42	10
n-Butylbenzene	<3.9		10	3.9	ug/L			12/12/23 17:42	10
N-Propylbenzene	**6.4**	**J**	10	4.1	ug/L			12/12/23 17:42	10
p-Isopropyltoluene	<3.6		10	3.6	ug/L			12/12/23 17:42	10
sec-Butylbenzene	<4.0		10	4.0	ug/L			12/12/23 17:42	10

Client Sample ID: MW-107

Date Collected: 12/06/23 09:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-1

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<3.9		10	3.9	ug/L			12/12/23 17:42	10
tert-Butylbenzene	<4.0		10	4.0	ug/L			12/12/23 17:42	10
Tetrachloroethene	<3.7		10	3.7	ug/L			12/12/23 17:42	10
Toluene	**21**		5.0	1.5	ug/L			12/12/23 17:42	10
trans-1,2-Dichloroethene	<3.5		10	3.5	ug/L			12/12/23 17:42	10
trans-1,3-Dichloropropene	<3.6		10	3.6	ug/L			12/12/23 17:42	10
Trichloroethene	<1.6		5.0	1.6	ug/L			12/12/23 17:42	10
Trichlorofluoromethane	<4.3	*+	10	4.3	ug/L			12/12/23 17:42	10
Vinyl chloride	<2.0		10	2.0	ug/L			12/12/23 17:42	10
Xylenes, Total	**750**		10	2.2	ug/L			12/12/23 17:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*12/10/23 16:35*	*500*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*12/12/23 17:42*	*10*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*12/10/23 16:35*	*500*
4-Bromofluorobenzene (Surr)	*84*		*72 - 124*		*12/12/23 17:42*	*10*
Dibromofluoromethane	*94*		*75 - 120*		*12/10/23 16:35*	*500*
Dibromofluoromethane	*97*		*75 - 120*		*12/12/23 17:42*	*10*
Toluene-d8 (Surr)	*91*		*75 - 120*		*12/10/23 16:35*	*500*
Toluene-d8 (Surr)	*103*		*75 - 120*		*12/12/23 17:42*	*10*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**14000**		100	34	ug/L			12/12/23 18:06	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*12/12/23 18:06*	*100*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*		*12/12/23 18:06*	*100*
Dibromofluoromethane	*97*		*75 - 120*		*12/12/23 18:06*	*100*
Toluene-d8 (Surr)	*105*		*75 - 120*		*12/12/23 18:06*	*100*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**2.2**		0.79	0.21	ug/L		12/12/23 13:43	12/21/23 12:26	1
Anthracene	**9.4**		0.79	0.26	ug/L		12/12/23 13:43	12/21/23 12:26	1
Benzo[a]anthracene	**3.6**		0.16	0.045	ug/L		12/12/23 13:43	12/21/23 12:26	1
Benzo[a]pyrene	**3.5**		0.16	0.078	ug/L		12/12/23 13:43	12/21/23 12:26	1
Benzo[b]fluoranthene	**4.0**		0.16	0.064	ug/L		12/12/23 13:43	12/21/23 12:26	1
Benzo[g,h,i]perylene	**2.5**		0.79	0.30	ug/L		12/12/23 13:43	12/21/23 12:26	1
Benzo[k]fluoranthene	**1.9**		0.16	0.051	ug/L		12/12/23 13:43	12/21/23 12:26	1
Chrysene	**5.1**		0.16	0.054	ug/L		12/12/23 13:43	12/21/23 12:26	1
Dibenz(a,h)anthracene	**0.65**		0.24	0.040	ug/L		12/12/23 13:43	12/21/23 12:26	1
Fluoranthene	**16**		0.79	0.36	ug/L		12/12/23 13:43	12/21/23 12:26	1
Fluorene	**58**		0.79	0.19	ug/L		12/12/23 13:43	12/21/23 12:26	1
Indeno[1,2,3-cd]pyrene	**2.6**		0.16	0.059	ug/L		12/12/23 13:43	12/21/23 12:26	1
Phenanthrene	**61**		0.79	0.24	ug/L		12/12/23 13:43	12/21/23 12:26	1
Pyrene	**9.7**		0.79	0.34	ug/L		12/12/23 13:43	12/21/23 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*101*		*36 - 120*	*12/12/23 13:43*	*12/21/23 12:26*	*1*
2-Fluorobiphenyl (Surr)	*69*		*34 - 110*	*12/12/23 13:43*	*12/21/23 12:26*	*1*

Client Sample ID: MW-107

Date Collected: 12/06/23 09:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-1

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*89*		*40 - 145*	*12/12/23 13:43*	*12/21/23 12:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**270**		79	12	ug/L		12/12/23 13:43	12/21/23 15:18	50
2-Methylnaphthalene	**440**		79	2.6	ug/L		12/12/23 13:43	12/21/23 15:18	50
Acenaphthene	**140**		39	12	ug/L		12/12/23 13:43	12/21/23 15:18	50
Naphthalene	**4600**		39	12	ug/L		12/12/23 13:43	12/21/23 15:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*0*	*S1-*	*36 - 120*	*12/12/23 13:43*	*12/21/23 15:18*	*50*
2-Fluorobiphenyl (Surr)	*0*	*S1-*	*34 - 110*	*12/12/23 13:43*	*12/21/23 15:18*	*50*
Terphenyl-d14 (Surr)	*0*	*S1-*	*40 - 145*	*12/12/23 13:43*	*12/21/23 15:18*	*50*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**13000**		180	44	ug/L			12/10/23 19:45	44

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**25**		0.20	0.082	mg/L		12/14/23 09:07	12/15/23 16:02	1
Manganese	**0.28**		0.010	0.0023	mg/L		12/14/23 09:07	12/15/23 16:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	<0.043		1.0	0.043	mg/L			12/07/23 13:09	1
Sulfate (EPA 300.0)	**0.75**	**J**	1.0	0.21	mg/L			12/07/23 13:09	1
Alkalinity (SM 2320B)	**460**	**B**	5.0	3.7	mg/L			12/15/23 12:16	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/10/23 23:10	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-136
Date Collected: 12/06/23 10:10
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/10/23 16:59	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/23 16:59	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/23 16:59	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/23 16:59	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/10/23 16:59	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/10/23 16:59	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/10/23 16:59	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/10/23 16:59	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/10/23 16:59	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/10/23 16:59	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/10/23 16:59	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/10/23 16:59	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/10/23 16:59	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/10/23 16:59	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/10/23 16:59	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/10/23 16:59	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/10/23 16:59	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/10/23 16:59	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/10/23 16:59	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/10/23 16:59	1
Benzene	<0.15		0.50	0.15	ug/L			12/10/23 16:59	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/10/23 16:59	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/10/23 16:59	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/10/23 16:59	1
Bromoform	<0.48		1.0	0.48	ug/L			12/10/23 16:59	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/10/23 16:59	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/23 16:59	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/10/23 16:59	1
Chloroform	<0.37		2.0	0.37	ug/L			12/10/23 16:59	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/10/23 16:59	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/23 16:59	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/10/23 16:59	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/10/23 16:59	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/10/23 16:59	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/10/23 16:59	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/23 16:59	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/10/23 16:59	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/10/23 16:59	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/10/23 16:59	1
Naphthalene	**0.75**	**J**	1.0	0.34	ug/L			12/10/23 16:59	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/10/23 16:59	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/10/23 16:59	1

Client Sample ID: MW-136
Date Collected: 12/06/23 10:10
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-2
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 16:59	1
Styrene	<0.39		1.0	0.39	ug/L			12/10/23 16:59	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 16:59	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/23 16:59	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/23 16:59	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/23 16:59	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/10/23 16:59	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/23 16:59	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/10/23 16:59	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/10/23 16:59	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/10/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*12/10/23 16:59*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*		*12/10/23 16:59*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*12/10/23 16:59*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*12/10/23 16:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/12/23 13:43	12/13/23 15:13	1
2-Methylnaphthalene	**0.21**	**J**	1.6	0.052	ug/L		12/12/23 13:43	12/13/23 15:13	1
Acenaphthene	**0.63**	**J**	0.80	0.25	ug/L		12/12/23 13:43	12/13/23 15:13	1
Acenaphthylene	<0.22		0.80	0.22	ug/L		12/12/23 13:43	12/13/23 15:13	1
Anthracene	<0.27		0.80	0.27	ug/L		12/12/23 13:43	12/13/23 15:13	1
Benzo[a]anthracene	<0.046		0.16	0.046	ug/L		12/12/23 13:43	12/13/23 15:13	1
Benzo[a]pyrene	<0.080		0.16	0.080	ug/L		12/12/23 13:43	12/13/23 15:13	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/12/23 13:43	12/13/23 15:13	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/12/23 13:43	12/13/23 15:13	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/12/23 13:43	12/13/23 15:13	1
Chrysene	<0.055		0.16	0.055	ug/L		12/12/23 13:43	12/13/23 15:13	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/12/23 13:43	12/13/23 15:13	1
Fluoranthene	**0.72**	**J**	0.80	0.37	ug/L		12/12/23 13:43	12/13/23 15:13	1
Fluorene	**0.36**	**J**	0.80	0.20	ug/L		12/12/23 13:43	12/13/23 15:13	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/12/23 13:43	12/13/23 15:13	1
Naphthalene	**2.5**		0.80	0.25	ug/L		12/12/23 13:43	12/13/23 15:13	1
Phenanthrene	**0.99**		0.80	0.24	ug/L		12/12/23 13:43	12/13/23 15:13	1
Pyrene	**0.37**	**J**	0.80	0.34	ug/L		12/12/23 13:43	12/13/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*93*		*36 - 120*	*12/12/23 13:43*	*12/13/23 15:13*	*1*
2-Fluorobiphenyl (Surr)	*75*		*34 - 110*	*12/12/23 13:43*	*12/13/23 15:13*	*1*
Terphenyl-d14 (Surr)	*95*		*40 - 145*	*12/12/23 13:43*	*12/13/23 15:13*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/10/23 20:03	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/14/23 09:07	12/15/23 16:27	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-136
Date Collected: 12/06/23 10:10
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-2
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0071	J	0.010	0.0023	mg/L		12/14/23 09:07	12/15/23 16:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.28	J	1.0	0.043	mg/L			12/07/23 13:25	1
Sulfate (EPA 300.0)	660		20	4.1	mg/L			12/08/23 10:14	20
Alkalinity (SM 2320B)	330	B	5.0	3.7	mg/L			12/15/23 12:26	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/10/23 23:13	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-132
Date Collected: 12/06/23 11:15
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/10/23 17:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/23 17:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/23 17:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/23 17:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/10/23 17:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/10/23 17:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/10/23 17:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/10/23 17:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/10/23 17:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/10/23 17:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/10/23 17:24	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
1,2-Dichlorobenzene	**0.54**	**J**	1.0	0.33	ug/L			12/10/23 17:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/10/23 17:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/10/23 17:24	1
1,3-Dichlorobenzene	**1.0**		1.0	0.40	ug/L			12/10/23 17:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/10/23 17:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/10/23 17:24	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/10/23 17:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/10/23 17:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/10/23 17:24	1
Benzene	<0.15		0.50	0.15	ug/L			12/10/23 17:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/10/23 17:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/10/23 17:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/10/23 17:24	1
Bromoform	<0.48		1.0	0.48	ug/L			12/10/23 17:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/10/23 17:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/23 17:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/10/23 17:24	1
Chloroform	<0.37		2.0	0.37	ug/L			12/10/23 17:24	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/10/23 17:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/23 17:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/10/23 17:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/10/23 17:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/10/23 17:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/10/23 17:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/23 17:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/10/23 17:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/10/23 17:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/10/23 17:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/10/23 17:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/10/23 17:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/10/23 17:24	1

Client Sample ID: MW-132

Date Collected: 12/06/23 11:15
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-3

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 17:24	1
Styrene	<0.39		1.0	0.39	ug/L			12/10/23 17:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 17:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/23 17:24	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/23 17:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/23 17:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/10/23 17:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/23 17:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/10/23 17:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/10/23 17:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/10/23 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*12/10/23 17:24*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*12/10/23 17:24*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*12/10/23 17:24*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*12/10/23 17:24*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/12/23 13:43	12/13/23 15:38	1
2-Methylnaphthalene	**0.19**	**J**	1.6	0.052	ug/L		12/12/23 13:43	12/13/23 15:38	1
Acenaphthene	<0.25		0.79	0.25	ug/L		12/12/23 13:43	12/13/23 15:38	1
Acenaphthylene	<0.21		0.79	0.21	ug/L		12/12/23 13:43	12/13/23 15:38	1
Anthracene	<0.27		0.79	0.27	ug/L		12/12/23 13:43	12/13/23 15:38	1
Benzo[a]anthracene	**0.61**		0.16	0.045	ug/L		12/12/23 13:43	12/13/23 15:38	1
Benzo[a]pyrene	**0.81**		0.16	0.079	ug/L		12/12/23 13:43	12/13/23 15:38	1
Benzo[b]fluoranthene	**0.97**		0.16	0.064	ug/L		12/12/23 13:43	12/13/23 15:38	1
Benzo[g,h,i]perylene	**0.60**	**J**	0.79	0.30	ug/L		12/12/23 13:43	12/13/23 15:38	1
Benzo[k]fluoranthene	**0.28**		0.16	0.051	ug/L		12/12/23 13:43	12/13/23 15:38	1
Chrysene	**0.56**		0.16	0.054	ug/L		12/12/23 13:43	12/13/23 15:38	1
Dibenz(a,h)anthracene	**0.22**	**J**	0.24	0.040	ug/L		12/12/23 13:43	12/13/23 15:38	1
Fluoranthene	**1.2**		0.79	0.36	ug/L		12/12/23 13:43	12/13/23 15:38	1
Fluorene	**0.19**	**J**	0.79	0.19	ug/L		12/12/23 13:43	12/13/23 15:38	1
Indeno[1,2,3-cd]pyrene	**0.51**		0.16	0.059	ug/L		12/12/23 13:43	12/13/23 15:38	1
Naphthalene	**1.2**		0.79	0.25	ug/L		12/12/23 13:43	12/13/23 15:38	1
Phenanthrene	**0.60**	**J**	0.79	0.24	ug/L		12/12/23 13:43	12/13/23 15:38	1
Pyrene	**0.88**		0.79	0.34	ug/L		12/12/23 13:43	12/13/23 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*89*		*36 - 120*	*12/12/23 13:43*	*12/13/23 15:38*	*1*
2-Fluorobiphenyl (Surr)	*77*		*34 - 110*	*12/12/23 13:43*	*12/13/23 15:38*	*1*
Terphenyl-d14 (Surr)	*70*		*40 - 145*	*12/12/23 13:43*	*12/13/23 15:38*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**20**		4.0	1.0	ug/L			12/11/23 08:45	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.72**		0.20	0.082	mg/L		12/14/23 09:07	12/15/23 16:31	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-132
Date Collected: 12/06/23 11:15
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-3
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.25		0.010	0.0023	mg/L		12/14/23 09:07	12/15/23 16:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.38	J	1.0	0.043	mg/L			12/07/23 13:40	1
Sulfate (EPA 300.0)	75		2.0	0.41	mg/L			12/08/23 10:29	2
Alkalinity (SM 2320B)	260	B	5.0	3.7	mg/L			12/15/23 12:35	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/10/23 23:15	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-112

Date Collected: 12/06/23 12:50
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/10/23 19:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/23 19:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/23 19:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/23 19:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/10/23 19:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/10/23 19:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/10/23 19:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/10/23 19:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/10/23 19:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/10/23 19:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/10/23 19:45	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/10/23 19:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/10/23 19:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/10/23 19:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/10/23 19:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/10/23 19:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/10/23 19:45	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/10/23 19:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/10/23 19:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/10/23 19:45	1
Benzene	<0.15		0.50	0.15	ug/L			12/10/23 19:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/10/23 19:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/10/23 19:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/10/23 19:45	1
Bromoform	<0.48		1.0	0.48	ug/L			12/10/23 19:45	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/10/23 19:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/23 19:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/10/23 19:45	1
Chloroform	<0.37		2.0	0.37	ug/L			12/10/23 19:45	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/10/23 19:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/23 19:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/10/23 19:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/10/23 19:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/10/23 19:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/10/23 19:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/23 19:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/10/23 19:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/10/23 19:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/10/23 19:45	1
Naphthalene	**0.99**	**J**	1.0	0.34	ug/L			12/10/23 19:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/10/23 19:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/10/23 19:45	1

Client Sample ID: MW-112

Date Collected: 12/06/23 12:50
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-4

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 19:45	1
Styrene	<0.39		1.0	0.39	ug/L			12/10/23 19:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 19:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/23 19:45	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/23 19:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/23 19:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/10/23 19:45	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/23 19:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/10/23 19:45	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/10/23 19:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/10/23 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*12/10/23 19:45*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*12/10/23 19:45*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*12/10/23 19:45*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*12/10/23 19:45*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.27		1.8	0.27	ug/L		12/12/23 13:43	12/13/23 16:17	1
2-Methylnaphthalene	**0.092**	**J**	1.8	0.058	ug/L		12/12/23 13:43	12/13/23 16:17	1
Acenaphthene	<0.27		0.88	0.27	ug/L		12/12/23 13:43	12/13/23 16:17	1
Acenaphthylene	<0.24		0.88	0.24	ug/L		12/12/23 13:43	12/13/23 16:17	1
Anthracene	<0.30		0.88	0.30	ug/L		12/12/23 13:43	12/13/23 16:17	1
Benzo[a]anthracene	<0.050		0.18	0.050	ug/L		12/12/23 13:43	12/13/23 16:17	1
Benzo[a]pyrene	<0.087		0.18	0.087	ug/L		12/12/23 13:43	12/13/23 16:17	1
Benzo[b]fluoranthene	<0.071		0.18	0.071	ug/L		12/12/23 13:43	12/13/23 16:17	1
Benzo[g,h,i]perylene	<0.33		0.88	0.33	ug/L		12/12/23 13:43	12/13/23 16:17	1
Benzo[k]fluoranthene	<0.057		0.18	0.057	ug/L		12/12/23 13:43	12/13/23 16:17	1
Chrysene	<0.060		0.18	0.060	ug/L		12/12/23 13:43	12/13/23 16:17	1
Dibenz(a,h)anthracene	<0.045		0.27	0.045	ug/L		12/12/23 13:43	12/13/23 16:17	1
Fluoranthene	<0.40		0.88	0.40	ug/L		12/12/23 13:43	12/13/23 16:17	1
Fluorene	**0.30**	**J**	0.88	0.22	ug/L		12/12/23 13:43	12/13/23 16:17	1
Indeno[1,2,3-cd]pyrene	<0.066		0.18	0.066	ug/L		12/12/23 13:43	12/13/23 16:17	1
Naphthalene	<0.27		0.88	0.27	ug/L		12/12/23 13:43	12/13/23 16:17	1
Phenanthrene	**0.43**	**J**	0.88	0.27	ug/L		12/12/23 13:43	12/13/23 16:17	1
Pyrene	<0.38		0.88	0.38	ug/L		12/12/23 13:43	12/13/23 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*90*		*36 - 120*	*12/12/23 13:43*	*12/13/23 16:17*	*1*
2-Fluorobiphenyl (Surr)	*79*		*34 - 110*	*12/12/23 13:43*	*12/13/23 16:17*	*1*
Terphenyl-d14 (Surr)	*87*		*40 - 145*	*12/12/23 13:43*	*12/13/23 16:17*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/10/23 20:41	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/14/23 09:07	12/15/23 16:35	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-112
Date Collected: 12/06/23 12:50
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-4
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.33		0.010	0.0023	mg/L		12/14/23 09:07	12/15/23 16:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.23	J	1.0	0.043	mg/L			12/07/23 14:25	1
Sulfate (EPA 300.0)	1400		100	21	mg/L			12/08/23 10:45	100
Alkalinity (SM 2320B)	270	B	5.0	3.7	mg/L			12/15/23 12:45	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/10/23 23:18	1

Client Sample ID: P-113
Date Collected: 12/06/23 14:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/10/23 20:10	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/23 20:10	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/23 20:10	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/23 20:10	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/10/23 20:10	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/10/23 20:10	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/10/23 20:10	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/10/23 20:10	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/10/23 20:10	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/10/23 20:10	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/10/23 20:10	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/10/23 20:10	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/10/23 20:10	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/10/23 20:10	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/10/23 20:10	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/10/23 20:10	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/10/23 20:10	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/10/23 20:10	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/10/23 20:10	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/10/23 20:10	1
Benzene	<0.15		0.50	0.15	ug/L			12/10/23 20:10	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/10/23 20:10	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/10/23 20:10	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/10/23 20:10	1
Bromoform	<0.48		1.0	0.48	ug/L			12/10/23 20:10	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/10/23 20:10	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/23 20:10	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/10/23 20:10	1
Chloroform	<0.37		2.0	0.37	ug/L			12/10/23 20:10	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/10/23 20:10	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/23 20:10	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/10/23 20:10	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/10/23 20:10	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/10/23 20:10	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/10/23 20:10	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/23 20:10	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/10/23 20:10	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/10/23 20:10	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/10/23 20:10	1
Naphthalene	**0.98**	**J**	1.0	0.34	ug/L			12/10/23 20:10	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/10/23 20:10	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/10/23 20:10	1

Client Sample ID: P-113
Date Collected: 12/06/23 14:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-5
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 20:10	1
Styrene	<0.39		1.0	0.39	ug/L			12/10/23 20:10	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 20:10	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/23 20:10	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/23 20:10	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/23 20:10	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/10/23 20:10	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/23 20:10	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/10/23 20:10	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/10/23 20:10	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/10/23 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*12/10/23 20:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*12/10/23 20:10*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*12/10/23 20:10*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*12/10/23 20:10*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		12/12/23 13:43	12/13/23 16:42	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		12/12/23 13:43	12/13/23 16:42	1
Acenaphthene	**1.1**		0.77	0.24	ug/L		12/12/23 13:43	12/13/23 16:42	1
Acenaphthylene	**0.23**	**J**	0.77	0.21	ug/L		12/12/23 13:43	12/13/23 16:42	1
Anthracene	<0.26		0.77	0.26	ug/L		12/12/23 13:43	12/13/23 16:42	1
Benzo[a]anthracene	**0.46**		0.15	0.044	ug/L		12/12/23 13:43	12/13/23 16:42	1
Benzo[a]pyrene	**0.32**		0.15	0.076	ug/L		12/12/23 13:43	12/13/23 16:42	1
Benzo[b]fluoranthene	**0.54**		0.15	0.062	ug/L		12/12/23 13:43	12/13/23 16:42	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		12/12/23 13:43	12/13/23 16:42	1
Benzo[k]fluoranthene	<0.049		0.15	0.049	ug/L		12/12/23 13:43	12/13/23 16:42	1
Chrysene	**0.30**		0.15	0.052	ug/L		12/12/23 13:43	12/13/23 16:42	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		12/12/23 13:43	12/13/23 16:42	1
Fluoranthene	**1.3**		0.77	0.35	ug/L		12/12/23 13:43	12/13/23 16:42	1
Fluorene	**0.60**	**J**	0.77	0.19	ug/L		12/12/23 13:43	12/13/23 16:42	1
Indeno[1,2,3-cd]pyrene	**0.16**		0.15	0.058	ug/L		12/12/23 13:43	12/13/23 16:42	1
Naphthalene	<0.24		0.77	0.24	ug/L		12/12/23 13:43	12/13/23 16:42	1
Phenanthrene	**1.4**		0.77	0.23	ug/L		12/12/23 13:43	12/13/23 16:42	1
Pyrene	**0.85**		0.77	0.33	ug/L		12/12/23 13:43	12/13/23 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*85*		*36 - 120*	*12/12/23 13:43*	*12/13/23 16:42*	*1*
2-Fluorobiphenyl (Surr)	*82*		*34 - 110*	*12/12/23 13:43*	*12/13/23 16:42*	*1*
Terphenyl-d14 (Surr)	*92*		*40 - 145*	*12/12/23 13:43*	*12/13/23 16:42*	*1*

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**4.1**		4.0	1.0	ug/L			12/10/23 21:00	1

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/14/23 09:07	12/15/23 16:38	1

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: P-113
Date Collected: 12/06/23 14:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-5
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.015		0.010	0.0023	mg/L		12/14/23 09:07	12/15/23 16:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.29	J F1	1.0	0.043	mg/L			12/07/23 14:41	1
Sulfate (EPA 300.0)	610		50	10	mg/L			12/08/23 12:19	50
Alkalinity (SM 2320B)	62	B	5.0	3.7	mg/L			12/20/23 12:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron (SM 3500 Fe B)	<0.050	HF	0.050	0.050	mg/L			12/10/23 23:21	1

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
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.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 745943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	8260D	
500-243515-2	MW-136	Total/NA	Water	8260D	
500-243515-3	MW-132	Total/NA	Water	8260D	
500-243515-4	MW-112	Total/NA	Water	8260D	
500-243515-5	P-113	Total/NA	Water	8260D	
MB 500-745943/8	Method Blank	Total/NA	Water	8260D	
LCS 500-745943/6	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 746191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	8260D	
500-243515-1 - DL	MW-107	Total/NA	Water	8260D	
MB 500-746191/7	Method Blank	Total/NA	Water	8260D	
LCS 500-746191/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 746326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	3510C	
500-243515-1 - DL	MW-107	Total/NA	Water	3510C	
500-243515-2	MW-136	Total/NA	Water	3510C	
500-243515-3	MW-132	Total/NA	Water	3510C	
500-243515-4	MW-112	Total/NA	Water	3510C	
500-243515-5	P-113	Total/NA	Water	3510C	
MB 500-746326/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-746326/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-746326/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 746457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-2	MW-136	Total/NA	Water	8270E	746326
500-243515-3	MW-132	Total/NA	Water	8270E	746326
500-243515-4	MW-112	Total/NA	Water	8270E	746326
500-243515-5	P-113	Total/NA	Water	8270E	746326
MB 500-746326/1-A	Method Blank	Total/NA	Water	8270E	746326
LCS 500-746326/2-A	Lab Control Sample	Total/NA	Water	8270E	746326
LCSD 500-746326/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	746326

Analysis Batch: 747766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	8270E	746326
500-243515-1 - DL	MW-107	Total/NA	Water	8270E	746326

GC VOA

Analysis Batch: 694874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	RSK-175	
500-243515-2	MW-136	Total/NA	Water	RSK-175	
500-243515-4	MW-112	Total/NA	Water	RSK-175	
500-243515-5	P-113	Total/NA	Water	RSK-175	

GC VOA (Continued)

Analysis Batch: 694874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-694874/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694874/4	Lab Control Sample	Total/NA	Water	RSK-175	

Analysis Batch: 694909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-3	MW-132	Total/NA	Water	RSK-175	
MB 480-694909/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-694909/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-694909/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 746694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Dissolved	Water	3005A	
500-243515-2	MW-136	Dissolved	Water	3005A	
500-243515-3	MW-132	Dissolved	Water	3005A	
500-243515-4	MW-112	Dissolved	Water	3005A	
500-243515-5	P-113	Dissolved	Water	3005A	
MB 500-746694/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-746694/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-243515-1 MS	MW-107	Dissolved	Water	3005A	
500-243515-1 MSD	MW-107	Dissolved	Water	3005A	
500-243515-1 DU	MW-107	Dissolved	Water	3005A	

Analysis Batch: 747124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Dissolved	Water	6010D	746694
500-243515-2	MW-136	Dissolved	Water	6010D	746694
500-243515-3	MW-132	Dissolved	Water	6010D	746694
500-243515-4	MW-112	Dissolved	Water	6010D	746694
500-243515-5	P-113	Dissolved	Water	6010D	746694
MB 500-746694/1-A	Method Blank	Total Recoverable	Water	6010D	746694
LCS 500-746694/2-A	Lab Control Sample	Total Recoverable	Water	6010D	746694
500-243515-1 MS	MW-107	Dissolved	Water	6010D	746694
500-243515-1 MSD	MW-107	Dissolved	Water	6010D	746694
500-243515-1 DU	MW-107	Dissolved	Water	6010D	746694

General Chemistry

Analysis Batch: 745636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	300.0	
MB 500-745636/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745636/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 745637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	300.0	
500-243515-2	MW-136	Total/NA	Water	300.0	
500-243515-3	MW-132	Total/NA	Water	300.0	
500-243515-4	MW-112	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 745637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-5	P-113	Total/NA	Water	300.0	
MB 500-745637/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745637/4	Lab Control Sample	Total/NA	Water	300.0	
500-243515-5 MS	P-113	Total/NA	Water	300.0	
500-243515-5 MSD	P-113	Total/NA	Water	300.0	

Analysis Batch: 745781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-2	MW-136	Total/NA	Water	300.0	
500-243515-3	MW-132	Total/NA	Water	300.0	
500-243515-4	MW-112	Total/NA	Water	300.0	
500-243515-5	P-113	Total/NA	Water	300.0	
MB 500-745781/3	Method Blank	Total/NA	Water	300.0	
LCS 500-745781/4	Lab Control Sample	Total/NA	Water	300.0	
500-243515-5 MS	P-113	Total/NA	Water	300.0	
500-243515-5 MSD	P-113	Total/NA	Water	300.0	

Analysis Batch: 745978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Dissolved	Water	SM 3500 Fe B	
500-243515-2	MW-136	Dissolved	Water	SM 3500 Fe B	
500-243515-3	MW-132	Dissolved	Water	SM 3500 Fe B	
500-243515-4	MW-112	Dissolved	Water	SM 3500 Fe B	
500-243515-5	P-113	Dissolved	Water	SM 3500 Fe B	
MB 500-745978/1	Method Blank	Total/NA	Water	SM 3500 Fe B	
LCS 500-745978/2	Lab Control Sample	Total/NA	Water	SM 3500 Fe B	

Analysis Batch: 747083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-1	MW-107	Total/NA	Water	SM 2320B	
500-243515-2	MW-136	Total/NA	Water	SM 2320B	
500-243515-3	MW-132	Total/NA	Water	SM 2320B	
500-243515-4	MW-112	Total/NA	Water	SM 2320B	
MB 500-747083/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-747083/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 747719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243515-5	P-113	Total/NA	Water	SM 2320B	
MB 500-747719/29	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-747719/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-243515-5 DU	P-113	Total/NA	Water	SM 2320B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Method: 8260D - 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	(75-126)	(72-124)	(75-120)	(75-120)
500-243515-1	MW-107	91	97	94	91
500-243515-1	MW-107	103	84	97	103
500-243515-1 - DL	MW-107	103	89	97	105
500-243515-2	MW-136	91	97	93	90
500-243515-3	MW-132	91	98	94	90
500-243515-4	MW-112	93	98	95	89
500-243515-5	P-113	93	95	95	89
LCS 500-745943/6	Lab Control Sample	92	98	93	90
LCS 500-746191/4	Lab Control Sample	95	84	95	104
MB 500-745943/8	Method Blank	92	100	92	89
MB 500-746191/7	Method Blank	102	95	97	104

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(36-120)	(34-110)	(40-145)
500-243515-1	MW-107	101	69	89
500-243515-1 - DL	MW-107	0 S1-	0 S1-	0 S1-
500-243515-2	MW-136	93	75	95
500-243515-3	MW-132	89	77	70
500-243515-4	MW-112	90	79	87
500-243515-5	P-113	85	82	92
LCS 500-746326/2-A	Lab Control Sample	100	80	96
LCSD 500-746326/3-A	Lab Control Sample Dup	98	82	97
MB 500-746326/1-A	Method Blank	103	86	101

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TPHL = Terphenyl-d14 (Surr)

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

Lab Sample ID: MB 500-745943/8
Matrix: Water
Analysis Batch: 745943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/10/23 15:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/10/23 15:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/10/23 15:47	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/10/23 15:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/10/23 15:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/10/23 15:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/10/23 15:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/10/23 15:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/10/23 15:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/10/23 15:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/10/23 15:47	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/10/23 15:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/10/23 15:47	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/10/23 15:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/10/23 15:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/10/23 15:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/10/23 15:47	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/10/23 15:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/10/23 15:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/10/23 15:47	1
Benzene	<0.15		0.50	0.15	ug/L			12/10/23 15:47	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/10/23 15:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/10/23 15:47	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/10/23 15:47	1
Bromoform	<0.48		1.0	0.48	ug/L			12/10/23 15:47	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/10/23 15:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/10/23 15:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/10/23 15:47	1
Chloroform	<0.37		2.0	0.37	ug/L			12/10/23 15:47	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/10/23 15:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/10/23 15:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/10/23 15:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/10/23 15:47	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/10/23 15:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/10/23 15:47	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/10/23 15:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/10/23 15:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/10/23 15:47	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/10/23 15:47	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/10/23 15:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/10/23 15:47	1

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

Lab Sample ID: MB 500-745943/8
Matrix: Water
Analysis Batch: 745943

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/10/23 15:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 15:47	1
Styrene	<0.39		1.0	0.39	ug/L			12/10/23 15:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/10/23 15:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/10/23 15:47	1
Toluene	<0.15		0.50	0.15	ug/L			12/10/23 15:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/10/23 15:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/10/23 15:47	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/10/23 15:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/10/23 15:47	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/10/23 15:47	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/10/23 15:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*12/10/23 15:47*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/10/23 15:47*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*12/10/23 15:47*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*12/10/23 15:47*	*1*

Lab Sample ID: LCS 500-745943/6
Matrix: Water
Analysis Batch: 745943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	45.5		ug/L		91	70 - 125
1,1,1-Trichloroethane	50.0	45.1		ug/L		90	70 - 125
1,1,2,2-Tetrachloroethane	50.0	39.6		ug/L		79	62 - 140
1,1,2-Trichloroethane	50.0	41.8		ug/L		84	71 - 130
1,1-Dichloroethane	50.0	46.2		ug/L		92	70 - 125
1,1-Dichloroethene	50.0	40.6		ug/L		81	67 - 122
1,1-Dichloropropene	50.0	45.2		ug/L		90	70 - 121
1,2,3-Trichlorobenzene	50.0	39.0		ug/L		78	51 - 145
1,2,3-Trichloropropane	50.0	44.1		ug/L		88	50 - 133
1,2,4-Trichlorobenzene	50.0	42.9		ug/L		86	57 - 137
1,2,4-Trimethylbenzene	50.0	44.6		ug/L		89	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.0		ug/L		74	56 - 123
1,2-Dibromoethane (EDB)	50.0	43.7		ug/L		87	70 - 125
1,2-Dichlorobenzene	50.0	45.7		ug/L		91	70 - 125
1,2-Dichloroethane	50.0	44.3		ug/L		89	68 - 127
1,2-Dichloropropane	50.0	48.9		ug/L		98	67 - 130
1,3,5-Trimethylbenzene	50.0	45.2		ug/L		90	70 - 123
1,3-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	44.4		ug/L		89	62 - 136
1,4-Dichlorobenzene	50.0	46.0		ug/L		92	70 - 120
2,2-Dichloropropane	50.0	42.7		ug/L		85	58 - 139
2-Chlorotoluene	50.0	45.8		ug/L		92	70 - 125
4-Chlorotoluene	50.0	45.7		ug/L		91	68 - 124
Benzene	50.0	44.4		ug/L		89	70 - 120

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

Lab Sample ID: LCS 500-745943/6
Matrix: Water
Analysis Batch: 745943

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromobenzene	50.0	49.8		ug/L		100	70 - 122
Bromochloromethane	50.0	44.6		ug/L		89	65 - 122
Bromodichloromethane	50.0	45.2		ug/L		90	69 - 120
Bromoform	50.0	50.2		ug/L		100	56 - 132
Bromomethane	50.0	49.4		ug/L		99	40 - 152
Carbon tetrachloride	50.0	47.7		ug/L		95	59 - 133
Chlorobenzene	50.0	46.0		ug/L		92	70 - 120
Chloroethane	50.0	51.3		ug/L		103	48 - 136
Chloroform	50.0	43.3		ug/L		87	70 - 120
Chloromethane	50.0	58.0		ug/L		116	56 - 152
cis-1,2-Dichloroethene	50.0	44.5		ug/L		89	70 - 125
cis-1,3-Dichloropropene	50.0	43.9		ug/L		88	64 - 127
Dibromochloromethane	50.0	45.5		ug/L		91	68 - 125
Dibromomethane	50.0	43.3		ug/L		87	70 - 120
Dichlorodifluoromethane	50.0	57.0		ug/L		114	40 - 159
Ethylbenzene	50.0	42.8		ug/L		86	70 - 123
Hexachlorobutadiene	50.0	52.6		ug/L		105	51 - 150
Isopropylbenzene	50.0	46.3		ug/L		93	70 - 126
Methyl tert-butyl ether	50.0	43.5		ug/L		87	55 - 123
Methylene Chloride	50.0	40.1		ug/L		80	69 - 125
Naphthalene	50.0	33.6		ug/L		67	53 - 144
n-Butylbenzene	50.0	41.4		ug/L		83	68 - 125
N-Propylbenzene	50.0	45.3		ug/L		91	69 - 127
p-Isopropyltoluene	50.0	45.7		ug/L		91	70 - 125
sec-Butylbenzene	50.0	44.4		ug/L		89	70 - 123
Styrene	50.0	44.1		ug/L		88	70 - 120
tert-Butylbenzene	50.0	47.1		ug/L		94	70 - 121
Tetrachloroethene	50.0	51.6		ug/L		103	70 - 128
Toluene	50.0	41.6		ug/L		83	70 - 125
trans-1,2-Dichloroethene	50.0	42.5		ug/L		85	70 - 125
trans-1,3-Dichloropropene	50.0	42.2		ug/L		84	62 - 128
Trichloroethene	50.0	49.1		ug/L		98	70 - 125
Trichlorofluoromethane	50.0	50.3		ug/L		101	55 - 128
Vinyl chloride	50.0	51.7		ug/L		103	64 - 126
Xylenes, Total	100	87.4		ug/L		87	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane	*93*		*75 - 120*
Toluene-d8 (Surr)	*90*		*75 - 120*

Lab Sample ID: MB 500-746191/7
Matrix: Water
Analysis Batch: 746191

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/12/23 10:42	1

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

Lab Sample ID: MB 500-746191/7
Matrix: Water
Analysis Batch: 746191

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	<0.38		1.0	0.38	ug/L			12/12/23 10:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/12/23 10:42	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/12/23 10:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/12/23 10:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/12/23 10:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/12/23 10:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/12/23 10:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/12/23 10:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/12/23 10:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/12/23 10:42	1
1,2-Dibromoethane (EDB)	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/12/23 10:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/12/23 10:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/12/23 10:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/12/23 10:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/12/23 10:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/12/23 10:42	1
2,2-Dichloropropane	<0.44		5.0	0.44	ug/L			12/12/23 10:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/12/23 10:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/12/23 10:42	1
Benzene	<0.15		0.50	0.15	ug/L			12/12/23 10:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/12/23 10:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/12/23 10:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/12/23 10:42	1
Bromoform	<0.48		1.0	0.48	ug/L			12/12/23 10:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/12/23 10:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/12/23 10:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
Chloroethane	<0.51		5.0	0.51	ug/L			12/12/23 10:42	1
Chloroform	<0.37		2.0	0.37	ug/L			12/12/23 10:42	1
Chloromethane	<0.32		5.0	0.32	ug/L			12/12/23 10:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/12/23 10:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/12/23 10:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/12/23 10:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/12/23 10:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/12/23 10:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/12/23 10:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/12/23 10:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/12/23 10:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
Methylene Chloride	3.21	J	5.0	1.6	ug/L			12/12/23 10:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/12/23 10:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/12/23 10:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/12/23 10:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/12/23 10:42	1

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

Lab Sample ID: MB 500-746191/7
Matrix: Water
Analysis Batch: 746191

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/L			12/12/23 10:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/12/23 10:42	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/12/23 10:42	1
Toluene	<0.15		0.50	0.15	ug/L			12/12/23 10:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/12/23 10:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/12/23 10:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/12/23 10:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/12/23 10:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/12/23 10:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/12/23 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*12/12/23 10:42*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*12/12/23 10:42*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*12/12/23 10:42*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*12/12/23 10:42*	*1*

Lab Sample ID: LCS 500-746191/4
Matrix: Water
Analysis Batch: 746191

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.0		ug/L		92	70 - 125
1,1,1-Trichloroethane	50.0	50.9		ug/L		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	34.1		ug/L		68	62 - 140
1,1,2-Trichloroethane	50.0	39.5		ug/L		79	71 - 130
1,1-Dichloroethane	50.0	46.3		ug/L		93	70 - 125
1,1-Dichloroethene	50.0	52.0		ug/L		104	67 - 122
1,1-Dichloropropene	50.0	49.9		ug/L		100	70 - 121
1,2,3-Trichlorobenzene	50.0	47.1		ug/L		94	51 - 145
1,2,3-Trichloropropane	50.0	41.0		ug/L		82	50 - 133
1,2,4-Trichlorobenzene	50.0	49.3		ug/L		99	57 - 137
1,2,4-Trimethylbenzene	50.0	43.1		ug/L		86	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	32.7		ug/L		65	56 - 123
1,2-Dibromoethane (EDB)	50.0	40.6		ug/L		81	70 - 125
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	42.5		ug/L		85	68 - 127
1,2-Dichloropropane	50.0	40.3		ug/L		81	67 - 130
1,3,5-Trimethylbenzene	50.0	44.6		ug/L		89	70 - 123
1,3-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	42.1		ug/L		84	62 - 136
1,4-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 120
2,2-Dichloropropane	50.0	46.6		ug/L		93	58 - 139
2-Chlorotoluene	50.0	40.9		ug/L		82	70 - 125
4-Chlorotoluene	50.0	41.9		ug/L		84	68 - 124
Benzene	50.0	44.4		ug/L		89	70 - 120
Bromobenzene	50.0	42.5		ug/L		85	70 - 122
Bromochloromethane	50.0	44.5		ug/L		89	65 - 122

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

Lab Sample ID: LCS 500-746191/4
Matrix: Water
Analysis Batch: 746191

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromodichloromethane	50.0	35.6		ug/L		71	69 - 120
Bromoform	50.0	36.7		ug/L		73	56 - 132
Bromomethane	50.0	49.2		ug/L		98	40 - 152
Carbon tetrachloride	50.0	54.3		ug/L		109	59 - 133
Chlorobenzene	50.0	45.9		ug/L		92	70 - 120
Chloroethane	50.0	50.7		ug/L		101	48 - 136
Chloroform	50.0	47.2		ug/L		94	70 - 120
Chloromethane	50.0	53.0		ug/L		106	56 - 152
cis-1,2-Dichloroethene	50.0	40.9		ug/L		82	70 - 125
cis-1,3-Dichloropropene	50.0	39.8		ug/L		80	64 - 127
Dibromochloromethane	50.0	39.9		ug/L		80	68 - 125
Dibromomethane	50.0	44.3		ug/L		89	70 - 120
Dichlorodifluoromethane	50.0	71.0		ug/L		142	40 - 159
Ethylbenzene	50.0	48.2		ug/L		96	70 - 123
Hexachlorobutadiene	50.0	59.7		ug/L		119	51 - 150
Isopropylbenzene	50.0	44.7		ug/L		89	70 - 126
Methyl tert-butyl ether	50.0	39.4		ug/L		79	55 - 123
Methylene Chloride	50.0	46.4		ug/L		93	69 - 125
Naphthalene	50.0	40.1		ug/L		80	53 - 144
n-Butylbenzene	50.0	48.4		ug/L		97	68 - 125
N-Propylbenzene	50.0	43.2		ug/L		86	69 - 127
p-Isopropyltoluene	50.0	47.3		ug/L		95	70 - 125
sec-Butylbenzene	50.0	49.1		ug/L		98	70 - 123
Styrene	50.0	42.2		ug/L		84	70 - 120
tert-Butylbenzene	50.0	45.4		ug/L		91	70 - 121
Tetrachloroethene	50.0	58.4		ug/L		117	70 - 128
Toluene	50.0	48.5		ug/L		97	70 - 125
trans-1,2-Dichloroethene	50.0	46.1		ug/L		92	70 - 125
trans-1,3-Dichloropropene	50.0	40.2		ug/L		80	62 - 128
Trichloroethene	50.0	49.5		ug/L		99	70 - 125
Trichlorofluoromethane	50.0	74.3	*+	ug/L		149	55 - 128
Vinyl chloride	50.0	55.5		ug/L		111	64 - 126
Xylenes, Total	100	94.5		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*84*		*72 - 124*
Dibromofluoromethane	*95*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

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

Lab Sample ID: MB 500-746326/1-A
Matrix: Water
Analysis Batch: 746457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		12/12/23 13:43	12/13/23 12:24	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		12/12/23 13:43	12/13/23 12:24	1

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

Lab Sample ID: MB 500-746326/1-A
Matrix: Water
Analysis Batch: 746457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 746326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		12/12/23 13:43	12/13/23 12:24	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		12/12/23 13:43	12/13/23 12:24	1
Anthracene	<0.27		0.80	0.27	ug/L		12/12/23 13:43	12/13/23 12:24	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		12/12/23 13:43	12/13/23 12:24	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		12/12/23 13:43	12/13/23 12:24	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		12/12/23 13:43	12/13/23 12:24	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		12/12/23 13:43	12/13/23 12:24	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		12/12/23 13:43	12/13/23 12:24	1
Chrysene	<0.055		0.16	0.055	ug/L		12/12/23 13:43	12/13/23 12:24	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		12/12/23 13:43	12/13/23 12:24	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/12/23 13:43	12/13/23 12:24	1
Fluorene	<0.20		0.80	0.20	ug/L		12/12/23 13:43	12/13/23 12:24	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/12/23 13:43	12/13/23 12:24	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/12/23 13:43	12/13/23 12:24	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/12/23 13:43	12/13/23 12:24	1
Pyrene	<0.34		0.80	0.34	ug/L		12/12/23 13:43	12/13/23 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*103*		*36 - 120*	*12/12/23 13:43*	*12/13/23 12:24*	*1*
2-Fluorobiphenyl (Surr)	*86*		*34 - 110*	*12/12/23 13:43*	*12/13/23 12:24*	*1*
Terphenyl-d14 (Surr)	*101*		*40 - 145*	*12/12/23 13:43*	*12/13/23 12:24*	*1*

Lab Sample ID: LCS 500-746326/2-A
Matrix: Water
Analysis Batch: 746457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	32.0	21.9		ug/L		69	38 - 110
2-Methylnaphthalene	32.0	21.4		ug/L		67	34 - 110
Acenaphthene	32.0	24.5		ug/L		77	46 - 110
Acenaphthylene	32.0	26.6		ug/L		83	47 - 113
Anthracene	32.0	31.5		ug/L		99	67 - 118
Benzo[a]anthracene	32.0	31.2		ug/L		98	70 - 126
Benzo[a]pyrene	32.0	35.1		ug/L		110	70 - 135
Benzo[b]fluoranthene	32.0	30.8		ug/L		96	69 - 136
Benzo[g,h,i]perylene	32.0	31.2		ug/L		98	70 - 135
Benzo[k]fluoranthene	32.0	34.8		ug/L		109	70 - 133
Chrysene	32.0	33.2		ug/L		104	68 - 129
Dibenz(a,h)anthracene	32.0	31.9		ug/L		100	70 - 134
Fluoranthene	32.0	32.5		ug/L		102	68 - 126
Fluorene	32.0	26.9		ug/L		84	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	33.8		ug/L		106	65 - 133
Naphthalene	32.0	21.5		ug/L		67	36 - 110
Phenanthrene	32.0	29.9		ug/L		93	65 - 120
Pyrene	32.0	30.5		ug/L		95	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*100*		*36 - 120*

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

Lab Sample ID: LCS 500-746326/2-A
Matrix: Water
Analysis Batch: 746457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 746326

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*80*		*34 - 110*
Terphenyl-d14 (Surr)	*96*		*40 - 145*

Lab Sample ID: LCSD 500-746326/3-A
Matrix: Water
Analysis Batch: 746457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 746326

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			32.0	21.8		ug/L		68	38 - 110	1	20
2-Methylnaphthalene			32.0	21.3		ug/L		66	34 - 110	0	20
Acenaphthene			32.0	26.3		ug/L		82	46 - 110	7	20
Acenaphthylene			32.0	27.0		ug/L		84	47 - 113	2	20
Anthracene			32.0	31.2		ug/L		97	67 - 118	1	20
Benzo[a]anthracene			32.0	31.6		ug/L		99	70 - 126	1	20
Benzo[a]pyrene			32.0	38.0		ug/L		119	70 - 135	8	20
Benzo[b]fluoranthene			32.0	34.4		ug/L		107	69 - 136	11	20
Benzo[g,h,i]perylene			32.0	33.3		ug/L		104	70 - 135	6	20
Benzo[k]fluoranthene			32.0	33.5		ug/L		105	70 - 133	4	20
Chrysene			32.0	31.5		ug/L		98	68 - 129	5	20
Dibenz(a,h)anthracene			32.0	32.2		ug/L		101	70 - 134	1	20
Fluoranthene			32.0	33.4		ug/L		104	68 - 126	3	20
Fluorene			32.0	28.5		ug/L		89	53 - 120	6	20
Indeno[1,2,3-cd]pyrene			32.0	37.3		ug/L		117	65 - 133	10	20
Naphthalene			32.0	21.7		ug/L		68	36 - 110	1	20
Phenanthrene			32.0	29.6		ug/L		92	65 - 120	1	20
Pyrene			32.0	31.1		ug/L		97	70 - 126	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*98*		*36 - 120*
2-Fluorobiphenyl (Surr)	*82*		*34 - 110*
Terphenyl-d14 (Surr)	*97*		*40 - 145*

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-694874/3
Matrix: Water
Analysis Batch: 694874

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/10/23 13:32	1

Lab Sample ID: LCS 480-694874/4
Matrix: Water
Analysis Batch: 694874

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.5	19.1		ug/L		98	85 - 120		

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: MB 480-694909/3
Matrix: Water
Analysis Batch: 694909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<1.0		4.0	1.0	ug/L			12/11/23 07:48	1

Lab Sample ID: LCS 480-694909/4
Matrix: Water
Analysis Batch: 694909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	19.5	20.6		ug/L		106	85 - 120

Lab Sample ID: LCSD 480-694909/5
Matrix: Water
Analysis Batch: 694909

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.5	19.5		ug/L		100	85 - 120	5	50

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-746694/1-A
Matrix: Water
Analysis Batch: 747124

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.082		0.20	0.082	mg/L		12/14/23 09:07	12/15/23 15:55	1
Manganese	<0.0023		0.010	0.0023	mg/L		12/14/23 09:07	12/15/23 15:55	1

Lab Sample ID: LCS 500-746694/2-A
Matrix: Water
Analysis Batch: 747124

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.981		mg/L		98	80 - 120
Manganese	0.500	0.490		mg/L		98	80 - 120

Lab Sample ID: 500-243515-1 MS
Matrix: Water
Analysis Batch: 747124

Client Sample ID: MW-107
Prep Type: Dissolved
Prep Batch: 746694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	25		1.00	24.9	4	mg/L		32	75 - 125
Manganese	0.28		0.500	0.750		mg/L		94	75 - 125

Lab Sample ID: 500-243515-1 MSD
Matrix: Water
Analysis Batch: 747124

Client Sample ID: MW-107
Prep Type: Dissolved
Prep Batch: 746694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	25		1.00	25.7	4	mg/L		104	75 - 125	3	20
Manganese	0.28		0.500	0.763		mg/L		96	75 - 125	2	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-243515-1 DU
Matrix: Water
Analysis Batch: 747124

Client Sample ID: MW-107
Prep Type: Dissolved
Prep Batch: 746694

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	25		24.2		mg/L		2	20
Manganese	0.28		0.274		mg/L		3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-745636/3
Matrix: Water
Analysis Batch: 745636

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/07/23 10:53	1

Lab Sample ID: LCS 500-745636/4
Matrix: Water
Analysis Batch: 745636

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: MB 500-745637/3
Matrix: Water
Analysis Batch: 745637

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.043		1.0	0.043	mg/L			12/07/23 10:53	1

Lab Sample ID: LCS 500-745637/4
Matrix: Water
Analysis Batch: 745637

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	20.0	19.1		mg/L		96	90 - 110

Lab Sample ID: 500-243515-5 MS
Matrix: Water
Analysis Batch: 745637

Client Sample ID: P-113
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.29	J F1	10.0	0.299	J F1	mg/L		0.09	80 - 120

Lab Sample ID: 500-243515-5 MSD
Matrix: Water
Analysis Batch: 745637

Client Sample ID: P-113
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.29	J F1	10.0	0.300	J F1	mg/L		0.1	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-745781/3
Matrix: Water
Analysis Batch: 745781

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.21		1.0	0.21	mg/L			12/08/23 08:24	1

Lab Sample ID: LCS 500-745781/4
Matrix: Water
Analysis Batch: 745781

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.7		mg/L		109	90 - 110

Lab Sample ID: 500-243515-5 MS
Matrix: Water
Analysis Batch: 745781

Client Sample ID: P-113
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	610		200	816		mg/L		103	80 - 120

Lab Sample ID: 500-243515-5 MSD
Matrix: Water
Analysis Batch: 745781

Client Sample ID: P-113
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	610		200	810		mg/L		100	80 - 120	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-747083/3
Matrix: Water
Analysis Batch: 747083

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	14.1		5.0	3.7	mg/L			12/15/23 11:20	1

Lab Sample ID: LCS 500-747083/4
Matrix: Water
Analysis Batch: 747083

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	96.9		mg/L		97	90 - 110

Lab Sample ID: MB 500-747719/29
Matrix: Water
Analysis Batch: 747719

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	4.24	J	5.0	3.7	mg/L			12/20/23 15:54	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-747719/4
Matrix: Water
Analysis Batch: 747719

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	102		mg/L		102	90 - 110		

Lab Sample ID: 500-243515-5 DU
Matrix: Water
Analysis Batch: 747719

Client Sample ID: P-113
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	62	B		66.7		mg/L				8	20

Method: SM 3500 Fe B - Iron, Ferrous

Lab Sample ID: MB 500-745978/1
Matrix: Water
Analysis Batch: 745978

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.050		0.050	0.050	mg/L			12/10/23 22:51	1

Lab Sample ID: LCS 500-745978/2
Matrix: Water
Analysis Batch: 745978

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			0.500	0.500		mg/L		100	80 - 120		

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-107
Date Collected: 12/06/23 09:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		500	745943	AJP	EET CHI	12/10/23 16:35
Total/NA	Analysis	8260D		10	746191	W1T	EET CHI	12/12/23 17:42
Total/NA	Analysis	8260D	DL	100	746191	W1T	EET CHI	12/12/23 18:06
Total/NA	Prep	3510C			746326	KL	EET CHI	12/12/23 13:43
Total/NA	Analysis	8270E		1	747766	JSB	EET CHI	12/21/23 12:26
Total/NA	Prep	3510C	DL		746326	KL	EET CHI	12/12/23 13:43
Total/NA	Analysis	8270E	DL	50	747766	JSB	EET CHI	12/21/23 15:18
Total/NA	Analysis	RSK-175		44	694874	MAN	EET BUF	12/10/23 19:45
Dissolved	Prep	3005A			746694	BDE	EET CHI	12/14/23 09:07 - 12/14/23 09:37 [1]
Dissolved	Analysis	6010D		1	747124	SJ	EET CHI	12/15/23 16:02
Total/NA	Analysis	300.0		1	745636	W1T	EET CHI	12/07/23 13:09
Total/NA	Analysis	300.0		1	745637	NMB	EET CHI	12/07/23 13:09
Total/NA	Analysis	SM 2320B		1	747083	SO	EET CHI	12/15/23 12:16
Dissolved	Analysis	SM 3500 Fe B		1	745978	CLB	EET CHI	12/10/23 23:10

Client Sample ID: MW-136
Date Collected: 12/06/23 10:10
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745943	AJP	EET CHI	12/10/23 16:59
Total/NA	Prep	3510C			746326	KL	EET CHI	12/12/23 13:43
Total/NA	Analysis	8270E		1	746457	SS	EET CHI	12/13/23 15:13
Total/NA	Analysis	RSK-175		1	694874	MAN	EET BUF	12/10/23 20:03
Dissolved	Prep	3005A			746694	BDE	EET CHI	12/14/23 09:07 - 12/14/23 09:37 [1]
Dissolved	Analysis	6010D		1	747124	SJ	EET CHI	12/15/23 16:27
Total/NA	Analysis	300.0		1	745637	NMB	EET CHI	12/07/23 13:25
Total/NA	Analysis	300.0		20	745781	NMB	EET CHI	12/08/23 10:14
Total/NA	Analysis	SM 2320B		1	747083	SO	EET CHI	12/15/23 12:26
Dissolved	Analysis	SM 3500 Fe B		1	745978	CLB	EET CHI	12/10/23 23:13

Client Sample ID: MW-132
Date Collected: 12/06/23 11:15
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745943	AJP	EET CHI	12/10/23 17:24
Total/NA	Prep	3510C			746326	KL	EET CHI	12/12/23 13:43
Total/NA	Analysis	8270E		1	746457	SS	EET CHI	12/13/23 15:38
Total/NA	Analysis	RSK-175		1	694909	MAN	EET BUF	12/11/23 08:45
Dissolved	Prep	3005A			746694	BDE	EET CHI	12/14/23 09:07 - 12/14/23 09:37 [1]
Dissolved	Analysis	6010D		1	747124	SJ	EET CHI	12/15/23 16:31
Total/NA	Analysis	300.0		1	745637	NMB	EET CHI	12/07/23 13:40

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Client Sample ID: MW-132

Date Collected: 12/06/23 11:15
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		2	745781	NMB	EET CHI	12/08/23 10:29
Total/NA	Analysis	SM 2320B		1	747083	SO	EET CHI	12/15/23 12:35
Dissolved	Analysis	SM 3500 Fe B		1	745978	CLB	EET CHI	12/10/23 23:15

Client Sample ID: MW-112

Date Collected: 12/06/23 12:50
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745943	AJP	EET CHI	12/10/23 19:45
Total/NA	Prep	3510C			746326	KL	EET CHI	12/12/23 13:43
Total/NA	Analysis	8270E		1	746457	SS	EET CHI	12/13/23 16:17
Total/NA	Analysis	RSK-175		1	694874	MAN	EET BUF	12/10/23 20:41
Dissolved	Prep	3005A			746694	BDE	EET CHI	12/14/23 09:07 - 12/14/23 09:37 [1]
Dissolved	Analysis	6010D		1	747124	SJ	EET CHI	12/15/23 16:35
Total/NA	Analysis	300.0		1	745637	NMB	EET CHI	12/07/23 14:25
Total/NA	Analysis	300.0		100	745781	NMB	EET CHI	12/08/23 10:45
Total/NA	Analysis	SM 2320B		1	747083	SO	EET CHI	12/15/23 12:45
Dissolved	Analysis	SM 3500 Fe B		1	745978	CLB	EET CHI	12/10/23 23:18

Client Sample ID: P-113

Date Collected: 12/06/23 14:00
Date Received: 12/07/23 09:55

Lab Sample ID: 500-243515-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	745943	AJP	EET CHI	12/10/23 20:10
Total/NA	Prep	3510C			746326	KL	EET CHI	12/12/23 13:43
Total/NA	Analysis	8270E		1	746457	SS	EET CHI	12/13/23 16:42
Total/NA	Analysis	RSK-175		1	694874	MAN	EET BUF	12/10/23 21:00
Dissolved	Prep	3005A			746694	BDE	EET CHI	12/14/23 09:07 - 12/14/23 09:37 [1]
Dissolved	Analysis	6010D		1	747124	SJ	EET CHI	12/15/23 16:38
Total/NA	Analysis	300.0		1	745637	NMB	EET CHI	12/07/23 14:41
Total/NA	Analysis	300.0		50	745781	NMB	EET CHI	12/08/23 12:19
Total/NA	Analysis	SM 2320B		1	747719	SO	EET CHI	12/20/23 12:13
Dissolved	Analysis	SM 3500 Fe B		1	745978	CLB	EET CHI	12/10/23 23:21

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Beazer Oak Creek

Job ID: 500-243515-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-24

Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	998310390	08-31-24

Eurofins Chicago
2417 Bond Street

University Park, IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

500-243515 COC

Eurofins Environment Testing America

Client Contact	Project Manager: Mark Manthey	Site Contact: Connor Lauzon	Date:	COC No
Tetra Tech	Email mark manthey@tetratech com	Lab Contact:	Carrier:	1 of 1 COCs
13555 Bishops Ct , Ste 201	Tel/Fax: (262)792-1282			TALS Project #
Brookfield, WI 53005	Analysis Turnaround Time			Sampler
(262) 792-1282 Phone	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below _____			Walk-in Client
Project Name Beazer Former Wabash Alloys	☐ 2 weeks			Lab Sampling
Site Oak Creek, WI	☐ 1 week			
P O #	☐ 2 days			Job / SDG No
	☐ 1 day			500-243515

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs	Methane	PAHs	Mn	Ferrous Fe	Anions (Nitrate, Sulfate, Alk.)	Sample Specific Notes
1	MW-107	12/6/23	9:00	G	W	11	Y	N	X	X	X	X	X	X	
2	MW-136		10:10												
3	MW-132		11:15												
4	MW-112		12.50												
5	P-113		14.00												
	Trip Blank	—	—			1	N	N							

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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 & Comments:

2.5+2.3

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd _____ Corr'd _____	Therm ID No _____

Relinquished by Connor Lauzon	Company Tetra Tech	Date/Time 12/6/23 15.00	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by Stephanie Hernandez	Company EETA	Date/Time 12/7/23 0955

MR MARK MANTHEY
TETRA TECH GEO
13555 BISHOPS CT
SUITE 201
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25.00 LB
CAD: 0780307/CAFE

TO SAMPLE RECEIPT
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

RMA.

FedEx Express

FedEx

TRK# 0221 7163 1500 7379

THU - 07 DEC 12:00P
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD

48qt.

500-243515 Waybi

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-182475.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-243515-1
Address: 10 Hazelwood Drive,	Due Date Requested: 12/21/2023			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298	PO #:			
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	WO #:			
Email:	Project #: 50007178			
Project Name: Beazer Oak Creek	SSOW#:			
Site:				

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, Y - Trizma, 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)	RSK_175/ Methane	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-107 (500-243515-1)	12/6/23	09:00 Central		Water			X	3	
MW-136 (500-243515-2)	12/6/23	10:10 Central		Water			X	3	
MW-132 (500-243515-3)	12/6/23	11:15 Central		Water			X	3	
MW-112 (500-243515-4)	12/6/23	12:50 Central		Water			X	3	
P-113 (500-243515-5)	12/6/23	14:00 Central		Water			X	3	

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

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: Shin Scott	Date/Time: 12/7/23 1250	Company	Received by: [illegible]	Date/Time: 12/8/23 1100	Company FA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 # 1 ICE

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-243515-1

Login Number: 243515
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins 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	2.3
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.	False	TB not received
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: Tetra Tech GEO

Job Number: 500-243515-1

Login Number: 243515
List Number: 2
Creator: Kolb, Chris M

List Source: Eurofins Buffalo
List Creation: 12/08/23 12:34 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	2.0 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	