TETRA TECH

August 6, 2021

Ms. Karen A. Cahill
Assistant Engineer
NYSDEC Region 7
615 Erie Boulevard W.
Syracuse, NY 13204-2400

RE: 1,4-Dioxane Groundwater Investigation
Abandoned Solvent Center Site – Pompey, NY
(NYSDEC #734035)

Dear Ms. Cahill:

On behalf of the Participating Parties for the Abandoned Solvent Center Site in Pompey, New York, this submittal provides the results of the initial phase of the 1,4-dioxane (1,4-D) investigation which was conducted June 1-4, 2021. The work was performed in accordance with the January 6, 2021 work plan as modified by correspondence dated February 10, 2021. The 1,4-D results from the annual groundwater sampling event conducted May 3-7, 2021 are also provided for comparison.

Shallow Piezometer Sampling

At the site, pairs of piezometers are installed up and downgradient of the groundwater collection trench and are used to evaluate inward hydraulic gradients. The piezometers are installed to a depth of approximately 20 feet within the shallow unconsolidated deposits. Figure 1 shows the locations of 3 sets of these piezometers (P-1/2, P-3/4 and P-5/6) which were sampled using low-flow sampling procedures with a peristaltic pump and dedicated polyethylene tubing for each well. The groundwater samples were analyzed for 1,4-D by Test America using Method 8270D SIM. The lab report is attached, and the results are summarized on Figure 1 and in Table 1 below.

Table 1. Piezometer Groundwater Sampling Results

Piezometer Pair	Piezometer ID	Location (Relative to Collection Trench)	Sample Date	1,4-D (ug/L)
Pair P-1/P-2	P-1	Exterior	6/1/2021	51
	P-2	Interior	6/1/2021	510
Pair P-3/P-4	P-3	Exterior	6/1/2021	14
	P-4	Interior	6/1/2021	4.3
Pair P-5/P-6	P-5	Exterior	6/1/2021	0.31
	P-6	Interior	6/1/2021	1.1

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Direct Push Vertical Profile Shallow Groundwater Sampling

To determine the lateral extent of 1,4-D in shallow groundwater in the vicinity of MW-5/MW-8 and along the groundwater collection and treatment system (GCTS) discharge drainage ditch, groundwater samples were collected using a Geoprobe for direct push sampling. Sampling was attempted at 9 locations as shown on Figure 1. At each sampling location, the Geoprobe DT22 dual tube sampling system was advanced to collect soil core for lithological characterization. The continuous soil core samples collected from the boreholes were screened in the field for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID) at approximately 6-inch intervals. A soil sample was to be collected from any/all direct push intervals with a PID reading > 20 ppm and analyzed for VOCs and 1,4-D. There were no PID detections greater than 4 ppm. The soil samples were logged using the Unified Soil Classification System. Borehole logs are attached.

Groundwater samples were collected using the Geoprobe SP22 screen point groundwater sampler at 10-foot intervals beginning at a depth of 10 feet. Once the leading end of the probe rod reached the sampling depth, the SP22 screen point was inserted to that depth and the rod extracted enough to expose the screen. The groundwater samples were collected from the temporary screen interval using a peristatic pump and dedicated polyethylene tubing. The sampling process was to be repeated until refusal in the dense silty till, however, refusal occurred at depths of 14 to 17 feet bgs which limited the vertical profiling. In addition, sampling attempts at two locations (B-8 and B-9) produced no water for sample analysis, therefore, two soil samples were collected from B-8 (8-8.5' and 13.5-14') for lab analysis. The groundwater samples were analyzed for 1,4-D by Test America using Method 8270D SIM and the soil samples were analyzed for 1,4-D by Test America using Method 8270D. The lab report is attached, and the groundwater results are summarized on Figure 1 and in Table 2 below. No 1,4-D was detected in the two B-8 soil samples.

Table 2. Direct Push Groundwater Sampling Results

Boring ID	Sample Depth	Location	Sample Date	1,4-D (ug/L)
B-1	8-12'	Approx. 275' downgradient of center of Site	6/2/2021	300
B-1	13-17'		6/2/2021	920
B-2	13-17'	Approx. 465' downgradient of center of Site	6/2/2021	63
B-3	6-10'	Approx. 215' downgradient of east end of Site	6/2/2021	220
B-3	10-14'		6/2/2021	440
B-3	10-14' Dup		6/2/2021	450
B-4	6-10'	Approx. 175' downgradient of west end of Site	6/3/2021	<0.10
B-4	13-17'		6/3/2021	0.12 J
B-5	6-10'	Approx. 400' downgradient of west end of Site	6/3/2021	<0.10
B-5	13-17'		6/3/2021	<0.10
B-6	12-16'	Approx. 15' downgradient of center of Site	6/3/2021	15
B-7	6-10'	Approx. 100' downgradient of east end of Site at Treatment System Discharge Point	6/4/2021	5.2
B-7	13-17'		6/4/2021	12

Annual Groundwater Sampling Event, May 2021

The annual groundwater sampling event was conducted May 3-7, 2021. The 1,4-D analytical results from that sampling event are summarized on Figure 1 and in Table 3 below. It should be noted that the concentrations of 1,4-D (and total VOCs) at the majority of off-site wells were lower in the May 2021 sampling event than in the October 2020 sampling event (see Figure 1).

Table 3. May 2021 Annual Groundwater Sampling Results

Well ID	Well Depth	Location	Sample Date	1,4-D (ug/L)
MW-1S	18’	Upgradient background	5/3/2021	<0.10
MW-1D	55.5’	Upgradient background	5/4/2021	<0.10
MW-2S	12’	Inside containment area, west central part of Site	5/6/2021	0.68
MW-2I	31’	Inside containment area, west central part of Site	5/6/2021	17
MW-2D	47’	Inside containment area, west central part of Site	5/7/2021	1.5
MW-4S	16’	Sidegradient, east of Site	5/4/2021	<0.10
MW-4D	66’	Sidegradient, east of Site	5/4/2021	<0.10
MW-5S	12’	Approx. 150’ downgradient of east central part of Site	5/5/2021	110
MW-5D	76’	Approx. 150’ downgradient of east central part of Site	5/6/2021	<0.10
MW-6S	12’	Approx. 600’ downgradient west end of Site	5/5/2021	<0.10
MW-6D	76’	Approx. 600’ downgradient west end of Site	5/6/2021	0.13
MW-7S	10’	Inside containment area, east central part of Site	5/5/2021	35
MW-7I	28’	Inside containment area, east central part of Site	5/7/2021	400
MW-7D	94’	Inside containment area, east central part of Site	5/7/2021	0.32
MW-8S	12’	Approx. 150’ downgradient of west central part of Site	5/6/2021	73
MW-8I	31’	Approx. 150’ downgradient of west central part of Site	5/6/2021	620
MW-8D	74’	Approx. 150’ downgradient of west central part of Site	5/6/2021	40
MW-11S	Unknown	Inside containment area, east side of Site	5/5/2021	0.51

Data Evaluation

The high concentrations of 1,4-D found on Site at piezometer P-2 (510 ug/L) and monitoring well MW-7I (400 ug/L) are located in the east central part of the Site and upgradient of the area of similar 1,4-D concentrations detected off Site at monitoring wells MW-5S (110 ug/L) and MW-8I (620 ug/L) and direct push groundwater samples B-1 (300 to 920 ug/L) and B-3 (220 to 450 ug/L). This supports the conceptual site model that the source of 1,4-D was from on Site and not an independent off-Site source.

While the depth of vertical profiling was limited due to refusal of the direct push sampler, the sampling provided good information regarding the delineation of the 1,4-D detections. The western edge of the 1,4-D detections is defined by groundwater samples collected from B-4 and B-5. The eastern edge is somewhat defined by the lower concentrations observed at B-7. The extent of the 1,4-D detections is not defined to the north and northeast of B-2 and B-3.

Recommendations
Additional step out locations are recommended to define the extent of detections to the north and northeast of B-2 and B-3. Proposed step out locations are shown on Figure 1. The proposed locations of two of the proposed step out locations will require obtaining an access agreement with the property owner of parcel 017.-02.-01.5. A Geoprobe will be remobilized to collect the additional vertical profile samples at step out locations (Phase II) using the same procedures as the initial phase of investigation and as described in the January 6, 2021 work plan. Following completion of the Phase II shallow groundwater investigation, a separate work plan will be prepared and submitted for the deeper groundwater investigation.

Schedule
Upon NYSDEC approval of the proposed step out locations, we will begin making arrangements for access from the applicable property owners. The start date for this work will depend on property access and weather conditions. Phase II of the direct push sampling is anticipated to take 1 to 2 days to complete. Recommendations for the subsequent phase of investigation will be provided within four weeks of receipt and validation of laboratory reports.

Please feel free to contact me, if you have any questions.

Tetra Tech, Inc.

Michael R. Noel, P.G.
Vice President, Principal Hydrogeologist

Enclosure

cc: Dan Tucholski, Bureau of Environmental Exposure Investigation – NYSDOH
Bob Gibson, General Electric Company
Richard Mator, Bristol-Myers Squibb Company

	TVOCs	1,4-D
MW-8S (12')		
1995	95	NS
10/30/2020	16.4	100
5/3/2021	9.29	73
MW-8I (31')		
1995	ND	NS
10/30/2020	ND	770
5/3/2021	ND	620
MW-8D (74')		
1995	ND	NS
10/30/2020	ND	61
5/3/2021	ND	40

	TVOCs	1,4-D
MW-2S (12')		
1995	NS	NS
10/30/2020	1406	1.2
5/3/2021	788.6	0.68
MW-2I (31')		
1995	140000	NS
10/30/2020	17500	18
5/3/2021	9030	17
MW-2D (47')		
1995	10100	NS
10/30/2020	53	4
5/3/2021	34.7	1.5

	TVOCs	1,4-D
MW-6S (12')		
1995	ND	NS
10/30/2020	NS	NS
5/3/2021	ND	ND
MW-6D (76')		
1995	ND	NS
10/30/2020	NS	NS
5/3/2021	ND	0.13

	TVOCs	1,4-D
MW-5S (12')		
1995	10	NS
10/30/2020	ND	130
5/3/2021	0.51	110
MW-5D (76')		
1995	ND	NS
10/30/2020	ND	ND
5/3/2021	ND	ND

	TVOCs	1,4-D
MW-11S		
1995	69	NS
10/30/2020	ND	0.38
5/3/2021	ND	0.51

	TVOCs	1,4-D
MW-7S (10')		
1995	61000	NS
10/30/2020	3296	47
5/3/2021	2860	35
MW-7I (28')		
1995	46290	NS
10/30/2020	360.1	NS
5/3/2021	3663	400
MW-7D (94')		
1995	ND	NS
10/30/2020	ND	ND
5/3/2021	ND	0.32

	TVOCs	1,4-D
MW-4S (16')		
1995	ND	NS
10/30/2020	NS	NS
5/3/2021	ND	ND
MW-4D (66')		
1995	ND	NS
10/30/2020	NS	NS
5/3/2021	ND	ND

	TVOCs	1,4-D
MW-1S (18')		
1995	ND	NS
10/30/2020	NS	NS
5/3/2021	ND	ND
MW-1D (55.5')		
1995	ND	NS
10/30/2020	NS	NS
5/3/2021	ND	ND

EXPLANATION

- PIEZOMETER
- MONITORING WELL
- STAND PIPE
- GROUNDWATER COLLECTION TRENCH
- GROUNDWATER CUT-OFF WALL
- PIEZOMETER SAMPLE
- B-1 DIRECT PUSH GROUNDWATER VERTICAL PROFILE
- STEP OUT LOCATION
- RESIDENTIAL WELL
- 1360.06 GROUNDWATER ELEVATION
- 1365 GROUNDWATER CONTOUR
- 220 1,4-DIOXANE (ug/L)

NOTE:
TOTAL VOC CONCENTRATIONS SHOWN ARE IN PARTS PER BILLION

ND = NOT DETECTED

NS = NOT SAMPLED

J = ESTIMATE VALUE

H = SAMPLE PREPPED OR ANALYZED BEYOND HOLDING TIME

B = ANALYTE IS FOUND IN ASSOCIATED BLANK AS WELL AS SAMPLE

* = LAB CONTROL SAMPLE EXCEEDS CONTROL LIMITS

MW-6S,D 1359.69
MW-5S,D 1360.06
MW-8S,I,D 1367.29
MW-7S 1364.47
MW-2I
MW-2D
MW-2S 1369.29
MW-7I
MW-7D
MW-11S 1359.18
MW-4S,D 1359.95
MW-1S 1393.56
MW-1D
42-67
SCALISI RESIDENCE WELL
BUMPUS RESIDENCE WELL
B-1 300 (8-12') 920 (13-17')
B-2 63 (13-17')
B-3 220 (6-10') 440/450 (10-14')
B-4 ND (6-10') 0.12 (13-17')
B-5 ND (6-10') ND (13-17')
B-6 15 (12-16')
B-7 5.2 (6-10') 12 (13-17')
B-8 DRY ND (8-8.5' Soil) ND (13.5-14' Soil)
B-9 DRY
P-1 1361.79 51
P-2 1361.00 510
P-3 1369.74 14
P-4 1369.13 4.3
P-5 1363.21 0.31
P-6 1359.11 1.1
P-7 1361.97
P-8 1358.26
P-9 1370.77
P-10 1369.57
SP-1
SP-2
017.-02-01.5
017.-02-01.4
017.-02-03.0
017.-02-04.0
017.-02-02.0
023.-02-03.0
023.-01-06.0
023.-02-02.0
023.-01-07.0
023.-02-01.1
023.-01-08.0
023.-02-04.2
023.-02-04.8
023.-02-05.0
023.-02-04.1
CHERRY VALLEY TURNPIKE (US ROUTE 20)
RIDGE ROAD (COUNTY ROAD 120)
1360
1365
1370
1375
1380
1385
1390

0 120 240
SCALE IN FEET

NOTE: BASE MAP AND WELL LOCATIONS PROVIDED BY O'BRIEN & GERE FILE NO. 3027.23745-005 MAY 2000

TITLE:
1,4-DIOXANE GROUNDWATER INVESTIGATION RESULTS

LOCATION:
Abandoned Solvent Center Site
Pompey, New York

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APPROVED	MRN
DRAFTED	CMP
PROJECT#	117C-GE-00070
DATE	10-04-21

FIGURE 1

S:\CAD\GE\POMPEY\OCTOBER 2021\PROPOSED 14-D GW INVESTIGATION 10-04-21.DWG

BOREHOLE LOGS

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/2/2021
Project #:	194-0117-0022	Date Completed:	6/2/2021
Boring #:	B-1	Groundwater Depth (ft):	
Total Depth (ft):	17'bgs.	Ground Elevation (ft):	1366
Geologist:	B. Kudla-Williams	X Coordinate:	-75.980149°
Driller:	Cascade	Y Coordinate:	42.917730°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
			49"	SP	Dark Brown	1" Organic material 0.0-1.5' Moist, dark brown SAND and fine-coarse GRAVEL			0.0	
				SW	Brown	1.5-2.5' Moist fine SAND			0.0	
				SP	Brown	2.5-5.0' Moist SAND with some semi-angular gravel			0.0	
	5.0									
			48"	SP	Brown	5.0-6.0' Wet fine-medium SAND, trace fine angular gravel			0.0	
				GC	Brown	6.0-7.0' Moist fine-medium SAND, trace clay, trace gravel			0.0	
				SW	Brown-Gray	7.0-10.0' Moist, dense fine-medium SAND, some gravel, cobble at 7.0'			0.0	
	10.0									
			53.5"	CL	Brown-Gray	10.0-11.0' Moist CLAY			0.0	Collected groundwater sample B-1 8-12' via SP22
				SW	Gray	11.0-11.5' Moist, dense, fine-medium SAND and coarse angular GRAVEL			0.0	
				SW	Gray	11.5-14.5' Saturated fine-medium SAND and medium-coarse GRAVEL			0.0	
	15.0			GC	Gray	14.5-15.0' Saturated fine SAND and CLAY, trace fine gravel			0.0	
			60" (saturated)	SW	Gray	15.0-15.5' Saturated SAND and GRAVEL			0.0	Collected groundwater sample B-1 13-17' via SP22
				SM	Gray	15.5-17.0' Moist, dense fine SAND and SILT, trace fine gravel			0.0	
						End of boring at 17' bgs				
	20.0									

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/2/2021
Project #:	194-0117-0022	Date Completed:	6/2/2021
Boring #:	B-2	Groundwater Depth (ft):	
Total Depth (ft):	18'bgs.	Ground Elevation (ft):	1357
Geologist:	B. Kudla-Williams	X Coordinate:	-75.979878°
Driller:	Cascade	Y Coordinate:	42.918333°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
				-	-	0.0-1.0' Woodchips			0.0	
				SP	Brown	1.0-1.5' Fine to medium SAND				
			40"	SM	Brown	1.5-2.5' Fine SAND and SILT, trace fine gravel			0.0	
				ML	Dark Brown	2.5-3.0' SILT			0.0	
	5.0			CL	Light Brown	3.0-5.0' CLAY				
						5.0-8.0' CLAY, some fine sand, some silt, some fine to medium gravel			0.0	
				CL	Light Brown				0.0	
			35"							
				SP	Dark Brown	8.0-10.0' Medium SAND, some fine to medium gravel			0.0	
	10.0									
						10.0-14.0 Medium SAND, CLAY, and SILT, some fine to coarse semi-angular gravel			0.0	
				GC	Brown-Gray				0.0	
			60" (saturated)						0.0	
	15.0			ML	Brown	14.0-15.0' Saturated CLAY and fine SAND, some fine gravel			0.0	
				SP	Brown-Gray	15.0-16.5' Saturated SAND and GRAVEL, some clay			0.0	Collected groundwater sample B-2 13-17' via SP22
				SP	Brown-Gray	16.5-17.0' SAND and GRAVEL			0.0	
			60" (saturated)	SP	Gray	17.0-18.0' Moist, medium to coarse SAND, some coarse gravel			0.0	
						End of boring at 18' bgs				
	20.0									

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/2/2021
Project #:	194-0117-0022	Date Completed:	6/2/2021
Boring #:	B-3	Groundwater Depth (ft):	
Total Depth (ft):	14'bgs.	Ground Elevation (ft):	1359
Geologist:	B. Kudla-Williams	X Coordinate:	-75.979211°
Driller:	Cascade	Y Coordinate:	42.918060°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
				-	-	0.0-0.5' Topsoil			0.0	
			41"	SC	Brown	1.0-3.5' Moist, fine SAND and CLAY, some fine rounded gravel			0.0	
	5.0			ML	Brown	3.5-5.0' Moist CLAY, some fine sand, some medium to coarse angular gravel			0.0	
			20" (saturated)	SW	Light Gray	5.0-8.0' Saturated, medium to coarse SAND, some clay, some medium gravel, rock fragments at 8'			0.0	Collected groundwater sample B-3 6-10' via SP22
	10.0			SC	Light Gray	8.0-10.0' Saturated, medium to coarse SAND and CLAY, some medium gravel			0.0	
			60" (saturated)	SW	Brown	10.0-12.5' Saturated, medium SAND, trace fine gravel grading to some fine fine gravel by 12.5'			0.0	Collected groundwater sample B-3 10-14' via SP22
				SW	Brown	12.5-14.0' Moist, dense, fine to medium SAND, some silt, some gravel			0.0	
	15.0					End of boring at 14' bgs				
	20.0									

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/3/2021
Project #:	194-0117-0022	Date Completed:	6/3/2021
Boring #:	B-4	Groundwater Depth (ft):	
Total Depth (ft):	18'bgs.	Ground Elevation (ft):	1376
Geologist:	B. Kudla-Williams	X Coordinate:	-75.980627°
Driller:	Cascade	Y Coordinate:	42.917152°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
			40"	SW	Brown	1" Topsoil, organic material 0.0-3.5' Moist fine to medium SAND, some fine to medium angular gravel			0.0	
	5.0			SM	Brown	3.5-5.0' Moist fine to medium SAND and SILT, some medium gravel			0.0	
			33"	SW	Dark Brown	5.0-6.0' Wet fine to medium SAND, some fine to medium semi-rounded gravel			0.0	Collected groundwater sample B-4 6-10' via SP22
				SC	Dark Brown	6.0-9.5' Wet fine to medium SAND and CLAY, some fine to medium gravel			0.0	
	10.0			GW	Dark Brown	9.5-10.0' Moist fine to medium SAND and fine to medium angular GRAVEL			0.0	
			60" (saturated)	GC	Brown	10.0-12.0' Saturated, medium SAND, CLAY, and fine to medium GRAVEL			0.0	Collected groundwater sample B-4 13-17' via SP22
				SW	Brown	12.0-14.5' Wet fine SAND, some silt, some fine to coarse gravel			0.0	
	15.0			GM	Gray	13.5-15.0' Moist, dense, fine SAND, SILT, and medium sub-rounded GRAVEL			0.0	
			50"	SP	Brown	15.0-16.5' Saturated fine to medium SAND, some fine to medium gravel			0.0	
				GM	Gray	16.5-18.0' Moist, dense fine SAND, SILT, and fine to coarse GRAVEL			0.0	
	20.0					End of boring at 18' bgs				

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/3/2021
Project #:	194-0117-0022	Date Completed:	6/3/2021
Boring #:	B-5	Groundwater Depth (ft):	
Total Depth (ft):	18'bgs.	Ground Elevation (ft):	1366
Geologist:	B. Kudla-Williams	X Coordinate:	-75.980764°
Driller:	Cascade	Y Coordinate:	42.917851°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
			38"	SW	Brown	1" Topsoil, organic material 0.0-2.0' Moist fine to medium SAND			0.0	
				SW	Brown	2.0-3.0' Moist fine to medium SAND, some silt, some sub-rounded gravel			0.0	
	5.0			SW	Brown	3.0-5.0' Wet, fine to medium SAND, some fine to medium sub-rounded gravel			0.0	
			31"	SW	Brown	5.0-5.5' Wet fine to medium SAND, some fine semi-angular gravel			0.0	Collected groundwater sample B-5 6-10' via SP22
				GW	Brown	5.5-9.0' Wet medium to coarse SAND and fine to medium angular GRAVEL			0.0	
	10.0			SW	Brown	9.0-10.0' Moist fine to medium SAND, some silt, some medium to coarse gravel, rock fragments			0.0	
			60" (saturated)	GP	Brown	10.0-13.5' Saturated fine to coarse SAND and poorly sorted GRAVEL			0.0	Collected groundwater sample B-5 13-17' via SP22
	15.0			SP	Gray	13.5-15.0' Moist, dense, fine SAND, some silt, some mediun sub-rounded gravel			0.0	
			60" (saturated)	GW	Brown	15.0-16.5' Saturated SAND and fine to medium angular GRAVEL			0.0	
				SM	Gray	16.5-18.0' Moist, dense fine SAND and SILT, some medium gravel and rock fragments			0.0	
	20.0					End of boring at 18' bgs				

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/3/2021
Project #:	194-0117-0022	Date Completed:	6/3/2021
Boring #:	B-6	Groundwater Depth (ft):	
Total Depth (ft):	18'bgs.	Ground Elevation (ft):	1376
Geologist:	B. Kudla-Williams	X Coordinate:	-75.980291°
Driller:	Cascade	Y Coordinate:	42.917004°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
			45"	SW	Brown	0.0-5' Dry fine to medium SAND, some small to medium gravel, silt around 4.0'			0.0	
	5.0									
			48"	SW	Brown	5-6' Moist, fine to medium SAND, some clay, some gravel (semi-angular)			0.0	Attempted groundwater sample B-6 6-10', dry=no sample
				SM	Brown	6-10' Moist, fine SAND and SILT, some gravel (small to medium)			0.0	
	10.0									
			44"	SW	Gray-Brown	10-12' Wet, fine to medium SAND, some small angular gravel			0.0	Collected groundwater sample B-6 12-16' via SP22
				GP	Brown	12.5-13' Wet medium to coarse SAND and large GRAVEL; large dry rock fragments/gravel at 12'			0.0	
				SW	Brown	13-15' Moist fine to medium SAND, some silt, some small-medium angular gravel			1.6	
	15.0									
			40"	SW	Brown	15-16' Wet fine to medium SAND, some clay , some small gravel			0.0	
				SM	Gray	16-17' Moist, fine SAND and SILT, medium sub-rounded gravel			0.4	
				SM	Gray	17.5-18' Dry, fine to medium SAND and SILT, some gravel, dense; dry rock fragments/gravel at 17'			4.0	
	20.0					End of boring at 18' bgs				

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/4/2021
Project #:	194-0117-0022	Date Completed:	6/4/2021
Boring #:	B-7	Groundwater Depth (ft):	
Total Depth (ft):	17'bgs.	Ground Elevation (ft):	1363
Geologist:	B. Kudla-Williams	X Coordinate:	-75.979295°
Driller:	Cascade	Y Coordinate:	42.917766°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
				-	-	0.0-1.0' Asphalt, gravel sub-base				
				SW	Dark Brown	1-4' Moist fine SAND, trace fine rounded gravel			1.2	
			36"							
									0.0	
	5.0			SP	Dark Brown	4-5' Wet fine to medium SAND, trace rounded gravel				
				GP	Dark Brown	5-7' Wet fine to medium SAND and fine angular GRAVEL, trace clay			0.0	Collected groundwater sample B-7 6-10' via SP22
			54"						0.2	
				SW	Brown	7-10' Moist fine to medium SAND, some silt, small angular gravel				
									0.5	
	10.0									
				GP	Brown-Gray	10-11' Saturated poorly sorted small to large GRAVEL, some fine sand				Collected groundwater sample B-7 13-17' via SP22
			46"	GP	Gray	11-15' Moist fine and medium SAND, fine to medium angular GRAVEL			0.0	
	15.0								0.1	
				GP	Gray	15-16' Saturated SAND and fine to medium, poorly sorted, sub-angular GRAVEL			0.0	
				SM	Gray	16-17' Dry fine to medium SAND and SILT, some medium angular gravel, dense			0.0	
			24"			End of boring at 17' bgs				
	20.0									

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/4/2021
Project #:	194-0117-0022	Date Completed:	6/4/2021
Boring #:	B-8	Groundwater Depth (ft):	
Total Depth (ft):	15'bgs.	Ground Elevation (ft):	1350
Geologist:	B. Kudla-Williams	X Coordinate:	-75.978456°
Driller:	Cascade	Y Coordinate:	42.918318°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
				GP	Dark Brown	0-0.5' Topsoil, coarse SAND and small GRAVEL			0.0	
				SP		0.5-2.0' Moist fine SAND, some clay				
			35"						0.0	
				SW	Brown	2-5' Moist fine to medium SAND, some silt, some fine to medium angular gravel				
	5.0								0.0	
				SM	Brown	5-7.5' Wet fine to medium SAND and SILT, some fine to medium sub-angular gravel			0.0	Attempted to collect groundwater sample B-8 6-10', dry Collected soil sample: B-8_8.0-8.5
			38"							
				GP	Brown	7.5-10' Moist fine to medium SAND and poorly sorted GRAVEL (large black rock fragments)			0.0	
	10.0								0.0	
				GP	Brown	10-12' Wet fine to medium SAND and fine to medium sub-angular GRAVEL			0.0	Attempted to collect groundwater sample B-8 10-14', dry Collected soil sample: B-8_13.5-14.0_Soil
			44"	SM	Gray	12-12.5' Dry fine to medium SAND and SILT, some small to medium sub-rounded gravel, dense			1.3	
				SM	Gray	12.5-15' Dry fine to medium SAND and SILT, some medium to large gravel				
	15.0								0.0	
						End of boring 15' bgs				Moved screen to soil boring hole, very turbid water, not enough water to fill container
	20.0									

Field Boring Log Sheet

TETRA TECH

Project:	GE Pompey	Date Started	6/4/2021
Project #:	194-0117-0022	Date Completed:	6/4/2021
Boring #:	B-9	Groundwater Depth (ft):	
Total Depth (ft):	13.5'bgs.	Ground Elevation (ft):	1355
Geologist:	B. Kudla-Williams	X Coordinate:	-75.978708°
Driller:	Cascade	Y Coordinate:	42.918116°
Drilling/Sampling Method:	GeoProbe 7728 DT	GPS Datum:	WGS 84

Sample ID	Depth (ft)	Blow Count per/6"	Recovery (ft)	USCS Soil Classicfication or Material	Color	Description	Time	Date	PID (ppm)	Comments
				-	-	0.0-1.0' Asphalt, gravel sub-base				
			35"	SW	Brown	1.0-4.0' Moist fine to medium SAND, some clay, some gravel			0.0	
	5.0			SP	Brown	4.0-5.0' Moist fine SAND, some silt, trace gravel				
				SW	Brown	5.0-8.0' Moist fine to medium SAND and SILT, some fine angular gravel			0.0	Attempted to collect groundwater sample B-9 6-10', dry=no sample
	10.0			SW	Brown	8-10' Dry, dense fine to medium SAND, coarse gravel; Shale fragments at 8.0'			0.0	
				SW	Brown	10-12' Wet fine to medium SAND, fine to medium gravel, saturated at 12'			0.0	Attempted to collect groundwater sample B-9 9-13', dry=no sample
				SM	Gray	12-13.5' Dry fine to medium SAND and SILT, angular gravel, dense			1.3	
	15.0					End of boring 13.5' bgs				
	20.0									

ANALYTICAL LABORATORY REPORT

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-185592-1
Client Project/Site: GE Pompey, NY Investigation

For:
Tetra Tech GEO
3136 South Winton Road
Suite 303
Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

Authorized for release by:
6/11/2021 11:43:30 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Tetra Tech GEO
Job ID: 480-185592-1
Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
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

Case Narrative

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

Job ID: 480-185592-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-185592-1

Comments
No additional comments.

Receipt
The samples were received on 6/4/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0º C, 2.1º C, 2.3º C and 2.4º C.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for sample P-3 (480-185592-10) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: B-1 8-12 (480-185592-1), B-1 13-17 (480-185592-2), B-2 13-17 (480-185592-3), B-3 6-10 (480-185592-4), B-3 10-14 (480-185592-5), DUPLICATE (480-185592-6), P-1 (480-185592-8) and P-2 (480-185592-9). Elevated reporting limits (RLs) are provided.

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples B-1 8-12 (480-185592-1), B-1 13-17 (480-185592-2), B-2 13-17 (480-185592-3), P-1 (480-185592-8) and P-2 (480-185592-9) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

Organic Prep
Method 3510C: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: B-1 13-17 (480-185592-2).

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

Client Sample ID: B-1 8-12 — Lab Sample ID: 480-185592-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	300	E B	10	5.1	ug/L	50		8270D SIM ID	Total/NA

Client Sample ID: B-1 13-17 — Lab Sample ID: 480-185592-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	920	E B	23	11	ug/L	100		8270D SIM ID	Total/NA

Client Sample ID: B-2 13-17 — Lab Sample ID: 480-185592-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	63	E B	2.0	1.0	ug/L	10		8270D SIM ID	Total/NA

Client Sample ID: B-3 6-10 — Lab Sample ID: 480-185592-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	220	B	11	5.4	ug/L	50		8270D SIM ID	Total/NA

Client Sample ID: B-3 10-14 — Lab Sample ID: 480-185592-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	440	B	21	11	ug/L	100		8270D SIM ID	Total/NA

Client Sample ID: DUPLICATE — Lab Sample ID: 480-185592-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	450	B	19	9.6	ug/L	100		8270D SIM ID	Total/NA

Client Sample ID: 1S — Lab Sample ID: 480-185592-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.36	B	0.19	0.097	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: P-1 — Lab Sample ID: 480-185592-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	51	E B	1.0	0.52	ug/L	5		8270D SIM ID	Total/NA

Client Sample ID: P-2 — Lab Sample ID: 480-185592-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	510	E B	9.5	4.8	ug/L	50		8270D SIM ID	Total/NA

Client Sample ID: P-3 — Lab Sample ID: 480-185592-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	14	E B	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: P-4 — Lab Sample ID: 480-185592-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.3	B	0.21	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: P-5 — Lab Sample ID: 480-185592-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.31	B	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: Tetra Tech GEO
Job ID: 480-185592-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: P-6
Lab Sample ID: 480-185592-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	B	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-1 8-12
Lab Sample ID: 480-185592-1
Date Collected: 06/02/21 10:30
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	300	E B	10	5.1	ug/L		06/07/21 07:42	06/09/21 18:15	50

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*24*		*15 - 110*	*06/07/21 07:42*	*06/09/21 18:15*	*50*

Client Sample ID: B-1 13-17
Lab Sample ID: 480-185592-2
Date Collected: 06/02/21 11:30
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	920	E B	23	11	ug/L		06/07/21 07:42	06/09/21 18:39	100

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*15 - 110*	*06/07/21 07:42*	*06/09/21 18:39*	*100*

Client Sample ID: B-2 13-17
Lab Sample ID: 480-185592-3
Date Collected: 06/02/21 13:50
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	63	E B	2.0	1.0	ug/L		06/07/21 07:42	06/09/21 19:04	10

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*24*		*15 - 110*	*06/07/21 07:42*	*06/09/21 19:04*	*10*

Client Sample ID: B-3 6-10
Lab Sample ID: 480-185592-4
Date Collected: 06/02/21 15:00
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	220	B	11	5.4	ug/L		06/07/21 07:42	06/09/21 19:28	50

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*15 - 110*	*06/07/21 07:42*	*06/09/21 19:28*	*50*

Client Sample ID: B-3 10-14
Lab Sample ID: 480-185592-5
Date Collected: 06/02/21 16:05
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	440	B	21	11	ug/L		06/07/21 07:42	06/09/21 19:52	100

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*15 - 110*	*06/07/21 07:42*	*06/09/21 19:52*	*100*

Client Sample ID: DUPLICATE
Lab Sample ID: 480-185592-6
Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	450	B	19	9.6	ug/L		06/07/21 07:42	06/09/21 20:16	100

Client Sample ID: DUPLICATE
Lab Sample ID: 480-185592-6
Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/04/21 08:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	22		15 - 110	06/07/21 07:42	06/09/21 20:16	100

Client Sample ID: 1S
Lab Sample ID: 480-185592-7
Date Collected: 06/01/21 10:52
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.36	B	0.19	0.097	ug/L		06/07/21 07:42	06/09/21 02:55	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	06/07/21 07:42	06/09/21 02:55	1

Client Sample ID: P-1
Lab Sample ID: 480-185592-8
Date Collected: 06/01/21 14:30
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	51	E B	1.0	0.52	ug/L		06/07/21 07:42	06/09/21 20:40	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	25		15 - 110	06/07/21 07:42	06/09/21 20:40	5

Client Sample ID: P-2
Lab Sample ID: 480-185592-9
Date Collected: 06/01/21 15:32
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	510	E B	9.5	4.8	ug/L		06/07/21 07:42	06/09/21 21:03	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110	06/07/21 07:42	06/09/21 21:03	50

Client Sample ID: P-3
Lab Sample ID: 480-185592-10
Date Collected: 06/01/21 17:00
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	14	E B	0.19	0.095	ug/L		06/07/21 07:42	06/09/21 04:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	06/07/21 07:42	06/09/21 04:06	1

Client Sample ID: P-4
Lab Sample ID: 480-185592-11
Date Collected: 06/01/21 18:10
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.3	B	0.21	0.10	ug/L		06/07/21 07:42	06/09/21 04:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	06/07/21 07:42	06/09/21 04:29	1

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

Client Sample ID: P-5

Lab Sample ID: 480-185592-12

Date Collected: 06/01/21 13:55
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.31	B	0.19	0.095	ug/L		06/07/21 07:42	06/09/21 04:52	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*20*		*15 - 110*	*06/07/21 07:42*	*06/09/21 04:52*	*1*

Client Sample ID: P-6

Lab Sample ID: 480-185592-13

Date Collected: 06/01/21 15:30
Matrix: Water
Date Received: 06/04/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1	B	0.19	0.095	ug/L		06/07/21 07:42	06/09/21 05:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*22*		*15 - 110*	*06/07/21 07:42*	*06/09/21 05:16*	*1*

Isotope Dilution Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		DXE						
Lab Sample ID	Client Sample ID	(15-110)						
480-185592-1	B-1 8-12	24						
480-185592-2	B-1 13-17	25						
480-185592-3	B-2 13-17	24						
480-185592-4	B-3 6-10	25						
480-185592-5	B-3 10-14	25						
480-185592-6	DUPLICATE	22						
480-185592-7	1S	26						
480-185592-8	P-1	25						
480-185592-9	P-2	23						
480-185592-10	P-3	27						
480-185592-11	P-4	27						
480-185592-12	P-5	20						
480-185592-13	P-6	22						
LCS 480-584177/2-A	Lab Control Sample	32						
MB 480-584177/1-A	Method Blank	27						

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-584177/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 584468
Prep Batch: 584177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.153	J	0.20	0.10	ug/L		06/07/21 07:42	06/08/21 19:17	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*15 - 110*	*06/07/21 07:42*	*06/08/21 19:17*	*1*

Lab Sample ID: LCS 480-584177/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 584468
Prep Batch: 584177

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	1.15		ug/L		115	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*32*		*15 - 110*

QC Association Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

GC/MS Semi VOA

Prep Batch: 584177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185592-1	B-1 8-12	Total/NA	Water	3510C	
480-185592-2	B-1 13-17	Total/NA	Water	3510C	
480-185592-3	B-2 13-17	Total/NA	Water	3510C	
480-185592-4	B-3 6-10	Total/NA	Water	3510C	
480-185592-5	B-3 10-14	Total/NA	Water	3510C	
480-185592-6	DUPLICATE	Total/NA	Water	3510C	
480-185592-7	1S	Total/NA	Water	3510C	
480-185592-8	P-1	Total/NA	Water	3510C	
480-185592-9	P-2	Total/NA	Water	3510C	
480-185592-10	P-3	Total/NA	Water	3510C	
480-185592-11	P-4	Total/NA	Water	3510C	
480-185592-12	P-5	Total/NA	Water	3510C	
480-185592-13	P-6	Total/NA	Water	3510C	
MB 480-584177/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-584177/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 584468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-584177/1-A	Method Blank	Total/NA	Water	8270D SIM ID	584177
LCS 480-584177/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	584177

Analysis Batch: 584473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185592-7	1S	Total/NA	Water	8270D SIM ID	584177
480-185592-10	P-3	Total/NA	Water	8270D SIM ID	584177
480-185592-11	P-4	Total/NA	Water	8270D SIM ID	584177
480-185592-12	P-5	Total/NA	Water	8270D SIM ID	584177
480-185592-13	P-6	Total/NA	Water	8270D SIM ID	584177

Analysis Batch: 584664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185592-1	B-1 8-12	Total/NA	Water	8270D SIM ID	584177
480-185592-2	B-1 13-17	Total/NA	Water	8270D SIM ID	584177
480-185592-3	B-2 13-17	Total/NA	Water	8270D SIM ID	584177
480-185592-4	B-3 6-10	Total/NA	Water	8270D SIM ID	584177
480-185592-5	B-3 10-14	Total/NA	Water	8270D SIM ID	584177
480-185592-6	DUPLICATE	Total/NA	Water	8270D SIM ID	584177
480-185592-8	P-1	Total/NA	Water	8270D SIM ID	584177
480-185592-9	P-2	Total/NA	Water	8270D SIM ID	584177

Lab Chronicle

Client: Tetra Tech GEO
Job ID: 480-185592-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: B-1 8-12
Lab Sample ID: 480-185592-1
Date Collected: 06/02/21 10:30
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		50	584664	06/09/21 18:15	RJS	TAL BUF

Client Sample ID: B-1 13-17
Lab Sample ID: 480-185592-2
Date Collected: 06/02/21 11:30
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		100	584664	06/09/21 18:39	RJS	TAL BUF

Client Sample ID: B-2 13-17
Lab Sample ID: 480-185592-3
Date Collected: 06/02/21 13:50
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		10	584664	06/09/21 19:04	RJS	TAL BUF

Client Sample ID: B-3 6-10
Lab Sample ID: 480-185592-4
Date Collected: 06/02/21 15:00
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		50	584664	06/09/21 19:28	RJS	TAL BUF

Client Sample ID: B-3 10-14
Lab Sample ID: 480-185592-5
Date Collected: 06/02/21 16:05
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		100	584664	06/09/21 19:52	RJS	TAL BUF

Client Sample ID: DUPLICATE
Lab Sample ID: 480-185592-6
Date Collected: 06/02/21 00:00
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		100	584664	06/09/21 20:16	RJS	TAL BUF

Lab Chronicle

Client: Tetra Tech GEO
Job ID: 480-185592-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: 1S
Lab Sample ID: 480-185592-7
Date Collected: 06/01/21 10:52
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	584473	06/09/21 02:55	RJS	TAL BUF

Client Sample ID: P-1
Lab Sample ID: 480-185592-8
Date Collected: 06/01/21 14:30
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	584664	06/09/21 20:40	RJS	TAL BUF

Client Sample ID: P-2
Lab Sample ID: 480-185592-9
Date Collected: 06/01/21 15:32
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		50	584664	06/09/21 21:03	RJS	TAL BUF

Client Sample ID: P-3
Lab Sample ID: 480-185592-10
Date Collected: 06/01/21 17:00
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	584473	06/09/21 04:06	RJS	TAL BUF

Client Sample ID: P-4
Lab Sample ID: 480-185592-11
Date Collected: 06/01/21 18:10
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	584473	06/09/21 04:29	RJS	TAL BUF

Client Sample ID: P-5
Lab Sample ID: 480-185592-12
Date Collected: 06/01/21 13:55
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	584473	06/09/21 04:52	RJS	TAL BUF

Lab Chronicle

Client: Tetra Tech GEO
Job ID: 480-185592-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: P-6
Lab Sample ID: 480-185592-13
Date Collected: 06/01/21 15:30
Matrix: Water
Date Received: 06/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584177	06/07/21 07:42	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	584473	06/09/21 05:16	RJS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Job ID: 480-185592-1
Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte
8270D SIM ID	3510C	Water	1,4-Dioxane

Method Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185592-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185592-1	B-1 8-12	Water	06/02/21 10:30	06/04/21 08:00	
480-185592-2	B-1 13-17	Water	06/02/21 11:30	06/04/21 08:00	
480-185592-3	B-2 13-17	Water	06/02/21 13:50	06/04/21 08:00	
480-185592-4	B-3 6-10	Water	06/02/21 15:00	06/04/21 08:00	
480-185592-5	B-3 10-14	Water	06/02/21 16:05	06/04/21 08:00	
480-185592-6	DUPLICATE	Water	06/02/21 00:00	06/04/21 08:00	
480-185592-7	1S	Water	06/01/21 10:52	06/04/21 08:00	
480-185592-8	P-1	Water	06/01/21 14:30	06/04/21 08:00	
480-185592-9	P-2	Water	06/01/21 15:32	06/04/21 08:00	
480-185592-10	P-3	Water	06/01/21 17:00	06/04/21 08:00	
480-185592-11	P-4	Water	06/01/21 18:10	06/04/21 08:00	
480-185592-12	P-5	Water	06/01/21 13:55	06/04/21 08:00	
480-185592-13	P-6	Water	06/01/21 15:30	06/04/21 08:00	

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

Chain of Custody Record

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Syracuse #225

Client Information	Sampler: B. Kudla-Williams	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-160156-35246.1
Client Contact: Ms. Bailey Kudla-Williams	Phone: 805-501-8053	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: ~~Page 1 of 5~~ 1 of 1
Company: Tetra Tech GEO	PWSID:			Job #:
Address: 3136 South Winton Road Suite 303	Due Date Requested:			
City: Rochester	TAT Requested (days): Standard TAT			
State, Zip: NY, 14623	Compliance Project: Δ Yes Δ No			
Phone: 805-501-8053(Tel)	PO #: 510875			
Email: bailey.kudlawilliams@tetratech.com	WO #:			
Project Name: GE Pompey, NY Investigation	Project #: 48023743			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM_MS_ID - SIM List	8260C - TCL list OLM04.2	8270D, Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
B-1 8-12	6-2-21	1030	G	Water			X			2	
B-1 13-17		1130		Water			X			2	
B-2 13-17		1350		Water			X			2	
B-3 6-10		1500		Water			X			2	
B-3 10-14		16:05		Water			X			2	
Duplicate	↓	0000	↓	Water			X			2	
				Water							
				Water							
				Water							
				Water							
				Water							

C. 2. 21

480-185592 Chain of Custody

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

Sample Disposal (A fee may be assessed if sample
☐ 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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	6/2/21 19:05	T+		6.2.21, 1905	Eyn
Relinquished by:	6.3.21, 1800	Eyn		6-4-21 800	TAB
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: 2.1 2.4 2.0 2.3 ICE

Ver: 11/01/2020

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

Chain of Custody Record

eurofins | Environment Testing America

Syracuse

Client Information	Sampler: B. Kudla-Williams	Lab PM: Fischer, Brian J	Carrier Tracking No(s): #225	COC No: 480-160156-35246.3
Client Contact: Ms. Bailey Kudla-Williams	Phone: 805-501-8053	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page ~~3 of 5~~ 2 of 2
Company: Tetra Tech GEO	PWSID:			Job #:
Address: 3136 South Winton Road Suite 303	Due Date Requested:			
City: Rochester	TAT Requested (days): Normal TAT			
State, Zip: NY, 14623	Compliance Project: Δ Yes Δ No			
Phone: 805-501-8053(Tel)	PO #: 510875			
Email: bailey.kudlawilliams@tetratech.com	WO #:			
Project Name: GE Pompey, NY Investigation	Project #: 48023743			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM_MS_ID - SIM List	8260C - TCL list OLM04.2	8270D, Moisture	8260 - TCL VOCs OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
IS	6-1-21	1052	G	Water			X			X	5	
P-1		1430		Water			X				2	
P-2		1532		Water			X				2	
P-3		1700		Water			X				2	
P-4		1810		Water			X				2	
P-5		1355		Water			X				2	
P-6		1530		Water			X				2	
				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
[signature]	6/2/21 19:05	T7	[signature]	6-2-21, 1905	Syr
Relinquished by: [signature]	Date/Time: 6-2-21, 1900	Company	Received by: PGT	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 480-185592-1

Login Number: 185592

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

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	
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	TETRA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-185650-1
Client Project/Site: GE Pompey, NY Investigation

For:
Tetra Tech GEO
3136 South Winton Road
Suite 303
Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

Authorized for release by:
6/18/2021 10:45:54 AM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
Brian.Fischer@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: Tetra Tech GEO
Job ID: 480-185650-1
Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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

Case Narrative

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185650-1

Job ID: 480-185650-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-185650-1

Comments
No additional comments.

Receipt
The samples were received on 6/5/2021 8:00 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 2.9º C.

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for samples B-7-6-10 (480-185650-6) and B-7-13-17 (480-185650-7) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method 8270D SIM ID: The breakdown of 4,4'-DDT in the tuning evaluation exceeded 20%. Breakdown is not a criteria of the method but rather an internal check performed by the laboratory to evaluate the peak shape of 1,4-Dioxane and 1,4-Dioxane-d8. No adverse performance was observed and QC recoveries were in control. The data have been reported.

Method 8270D SIM ID: The following sample was diluted to bring the concentration of target analytes within the calibration range: B-6-12-16 (480-185650-5). 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.

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

Detection Summary

Client: Tetra Tech GEO
Job ID: 480-185650-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: B-4-6-10 — Lab Sample ID: 480-185650-1

No Detections.

Client Sample ID: B-4-13-17 — Lab Sample ID: 480-185650-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.12	J	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: B-5-6-10 — Lab Sample ID: 480-185650-3

No Detections.

Client Sample ID: B-5-13-17 — Lab Sample ID: 480-185650-4

No Detections.

Client Sample ID: B-6-12-16 — Lab Sample ID: 480-185650-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	15		1.0	0.50	ug/L	5		8270D SIM ID	Total/NA

Client Sample ID: B-7-6-10 — Lab Sample ID: 480-185650-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.2	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: B-7-13-17 — Lab Sample ID: 480-185650-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	12	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: B-8-8.0-8.5 — Lab Sample ID: 480-185650-8

No Detections.

Client Sample ID: B-8-13.5-14.0 — Lab Sample ID: 480-185650-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185650-1

Client Sample ID: B-4-6-10

Lab Sample ID: 480-185650-1

Date Collected: 06/03/21 09:40
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/10/21 15:07	06/15/21 22:29	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*33*		*15 - 110*	*06/10/21 15:07*	*06/15/21 22:29*	*1*

Client Sample ID: B-4-13-17

Lab Sample ID: 480-185650-2

Date Collected: 06/03/21 11:00
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.12**	**J**	0.20	0.10	ug/L		06/10/21 15:07	06/15/21 22:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*06/10/21 15:07*	*06/15/21 22:53*	*1*

Client Sample ID: B-5-6-10

Lab Sample ID: 480-185650-3

Date Collected: 06/03/21 12:40
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/10/21 15:07	06/15/21 23:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*15 - 110*	*06/10/21 15:07*	*06/15/21 23:16*	*1*

Client Sample ID: B-5-13-17

Lab Sample ID: 480-185650-4

Date Collected: 06/03/21 14:15
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/10/21 15:07	06/15/21 23:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/10/21 15:07*	*06/15/21 23:40*	*1*

Client Sample ID: B-6-12-16

Lab Sample ID: 480-185650-5

Date Collected: 06/03/21 16:25
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		1.0	0.50	ug/L		06/10/21 15:07	06/16/21 16:51	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*31*		*15 - 110*	*06/10/21 15:07*	*06/16/21 16:51*	*5*

Client Sample ID: B-7-6-10

Lab Sample ID: 480-185650-6

Date Collected: 06/04/21 09:35
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.2**	**E**	0.20	0.10	ug/L		06/10/21 15:07	06/16/21 00:27	1

Client Sample ID: B-7-6-10
Lab Sample ID: 480-185650-6

Date Collected: 06/04/21 09:35
Matrix: Water
Date Received: 06/05/21 08:00

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110	06/10/21 15:07	06/16/21 00:27	1

Client Sample ID: B-7-13-17
Lab Sample ID: 480-185650-7

Date Collected: 06/04/21 09:50
Matrix: Water
Date Received: 06/05/21 08:00

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	12	E	0.20	0.10	ug/L		06/10/21 15:07	06/16/21 00:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	06/10/21 15:07	06/16/21 00:51	1

Client Sample ID: B-8-8.0-8.5
Lab Sample ID: 480-185650-8

Date Collected: 06/04/21 14:38
Matrix: Solid
Date Received: 06/05/21 08:00
Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		100	56	ug/Kg	☼	06/08/21 15:12	06/16/21 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	85		53 - 120	06/08/21 15:12	06/16/21 03:09	1
p-Terphenyl-d14 (Surr)	98		79 - 130	06/08/21 15:12	06/16/21 03:09	1
Phenol-d5 (Surr)	97		54 - 120	06/08/21 15:12	06/16/21 03:09	1
2-Fluorophenol (Surr)	96		52 - 120	06/08/21 15:12	06/16/21 03:09	1
2,4,6-Tribromophenol (Surr)	102		54 - 120	06/08/21 15:12	06/16/21 03:09	1
2-Fluorobiphenyl	98		60 - 120	06/08/21 15:12	06/16/21 03:09	1

Client Sample ID: B-8-13.5-14.0
Lab Sample ID: 480-185650-9

Date Collected: 06/04/21 14:42
Matrix: Solid
Date Received: 06/05/21 08:00
Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		110	63	ug/Kg	☼	06/08/21 15:12	06/16/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	75		53 - 120	06/08/21 15:12	06/16/21 03:33	1
p-Terphenyl-d14 (Surr)	88		79 - 130	06/08/21 15:12	06/16/21 03:33	1
Phenol-d5 (Surr)	83		54 - 120	06/08/21 15:12	06/16/21 03:33	1
2-Fluorophenol (Surr)	80		52 - 120	06/08/21 15:12	06/16/21 03:33	1
2,4,6-Tribromophenol (Surr)	92		54 - 120	06/08/21 15:12	06/16/21 03:33	1
2-Fluorobiphenyl	84		60 - 120	06/08/21 15:12	06/16/21 03:33	1

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185650-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		NBZ	TPHd14	PHL	2FP	TBP	FBP		
Lab Sample ID	Client Sample ID	(53-120)	(79-130)	(54-120)	(52-120)	(54-120)	(60-120)		
480-185650-8	B-8-8.0-8.5	85	98	97	96	102	98		
480-185650-9	B-8-13.5-14.0	75	88	83	80	92	84		
LCS 480-584487/2-A	Lab Control Sample	85	102	91	90	109	97		
MB 480-584487/1-A	Method Blank	74	96	80	78	84	85		

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl

Isotope Dilution Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185650-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		DXE						
Lab Sample ID	Client Sample ID	(15-110)						
480-185650-1	B-4-6-10	33						
480-185650-2	B-4-13-17	28						
480-185650-3	B-5-6-10	28						
480-185650-4	B-5-13-17	31						
480-185650-5	B-6-12-16	31						
480-185650-6	B-7-6-10	30						
480-185650-7	B-7-13-17	26						
LCS 480-584898/2-A	Lab Control Sample	36						
MB 480-584898/1-A	Method Blank	30						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 480-584487/1-A
Matrix: Solid
Analysis Batch: 585429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584487

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		98	54	ug/Kg		06/08/21 15:12	06/15/21 18:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*74*		*53 - 120*	*06/08/21 15:12*	*06/15/21 18:43*	*1*
p-Terphenyl-d14 (Surr)	*96*		*79 - 130*	*06/08/21 15:12*	*06/15/21 18:43*	*1*
Phenol-d5 (Surr)	*80*		*54 - 120*	*06/08/21 15:12*	*06/15/21 18:43*	*1*
2-Fluorophenol (Surr)	*78*		*52 - 120*	*06/08/21 15:12*	*06/15/21 18:43*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*54 - 120*	*06/08/21 15:12*	*06/15/21 18:43*	*1*
2-Fluorobiphenyl	*85*		*60 - 120*	*06/08/21 15:12*	*06/15/21 18:43*	*1*

Lab Sample ID: LCS 480-584487/2-A
Matrix: Solid
Analysis Batch: 585429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584487

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1620	872		ug/Kg		54	23 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*85*		*53 - 120*
p-Terphenyl-d14 (Surr)	*102*		*79 - 130*
Phenol-d5 (Surr)	*91*		*54 - 120*
2-Fluorophenol (Surr)	*90*		*52 - 120*
2,4,6-Tribromophenol (Surr)	*109*		*54 - 120*
2-Fluorobiphenyl	*97*		*60 - 120*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-584898/1-A
Matrix: Water
Analysis Batch: 585504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 584898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		06/10/21 15:07	06/15/21 15:49	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*30*		*15 - 110*	*06/10/21 15:07*	*06/15/21 15:49*	*1*

Lab Sample ID: LCS 480-584898/2-A
Matrix: Water
Analysis Batch: 585504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 584898

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	1.07		ug/L		107	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*36*		*15 - 110*

GC/MS Semi VOA

Prep Batch: 584487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185650-8	B-8-8.0-8.5	Total/NA	Solid	3550C	
480-185650-9	B-8-13.5-14.0	Total/NA	Solid	3550C	
MB 480-584487/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-584487/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Prep Batch: 584898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185650-1	B-4-6-10	Total/NA	Water	3510C	
480-185650-2	B-4-13-17	Total/NA	Water	3510C	
480-185650-3	B-5-6-10	Total/NA	Water	3510C	
480-185650-4	B-5-13-17	Total/NA	Water	3510C	
480-185650-5	B-6-12-16	Total/NA	Water	3510C	
480-185650-6	B-7-6-10	Total/NA	Water	3510C	
480-185650-7	B-7-13-17	Total/NA	Water	3510C	
MB 480-584898/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-584898/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 585429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185650-8	B-8-8.0-8.5	Total/NA	Solid	8270D	584487
480-185650-9	B-8-13.5-14.0	Total/NA	Solid	8270D	584487
MB 480-584487/1-A	Method Blank	Total/NA	Solid	8270D	584487
LCS 480-584487/2-A	Lab Control Sample	Total/NA	Solid	8270D	584487

Analysis Batch: 585504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185650-1	B-4-6-10	Total/NA	Water	8270D SIM ID	584898
480-185650-2	B-4-13-17	Total/NA	Water	8270D SIM ID	584898
480-185650-3	B-5-6-10	Total/NA	Water	8270D SIM ID	584898
480-185650-4	B-5-13-17	Total/NA	Water	8270D SIM ID	584898
480-185650-6	B-7-6-10	Total/NA	Water	8270D SIM ID	584898
480-185650-7	B-7-13-17	Total/NA	Water	8270D SIM ID	584898
MB 480-584898/1-A	Method Blank	Total/NA	Water	8270D SIM ID	584898
LCS 480-584898/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	584898

Analysis Batch: 585697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185650-5	B-6-12-16	Total/NA	Water	8270D SIM ID	584898

General Chemistry

Analysis Batch: 584126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185650-8	B-8-8.0-8.5	Total/NA	Solid	Moisture	
480-185650-9	B-8-13.5-14.0	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Tetra Tech GEO
Job ID: 480-185650-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: B-4-6-10
Lab Sample ID: 480-185650-1
Date Collected: 06/03/21 09:40
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	585504	06/15/21 22:29	RJS	TAL BUF

Client Sample ID: B-4-13-17
Lab Sample ID: 480-185650-2
Date Collected: 06/03/21 11:00
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	585504	06/15/21 22:53	RJS	TAL BUF

Client Sample ID: B-5-6-10
Lab Sample ID: 480-185650-3
Date Collected: 06/03/21 12:40
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	585504	06/15/21 23:16	RJS	TAL BUF

Client Sample ID: B-5-13-17
Lab Sample ID: 480-185650-4
Date Collected: 06/03/21 14:15
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	585504	06/15/21 23:40	RJS	TAL BUF

Client Sample ID: B-6-12-16
Lab Sample ID: 480-185650-5
Date Collected: 06/03/21 16:25
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	585697	06/16/21 16:51	RJS	TAL BUF

Client Sample ID: B-7-6-10
Lab Sample ID: 480-185650-6
Date Collected: 06/04/21 09:35
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	585504	06/16/21 00:27	RJS	TAL BUF

Lab Chronicle

Client: Tetra Tech GEO
Job ID: 480-185650-1
Project/Site: GE Pompey, NY Investigation

Client Sample ID: B-7-13-17
Lab Sample ID: 480-185650-7
Date Collected: 06/04/21 09:50
Matrix: Water
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			584898	06/10/21 15:07	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	585504	06/16/21 00:51	RJS	TAL BUF

Client Sample ID: B-8-8.0-8.5
Lab Sample ID: 480-185650-8
Date Collected: 06/04/21 14:38
Matrix: Solid
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	584126	06/05/21 19:34	CLA	TAL BUF

Client Sample ID: B-8-8.0-8.5
Lab Sample ID: 480-185650-8
Date Collected: 06/04/21 14:38
Matrix: Solid
Date Received: 06/05/21 08:00
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			584487	06/08/21 15:12	ATG	TAL BUF
Total/NA	Analysis	8270D		1	585429	06/16/21 03:09	JMM	TAL BUF

Client Sample ID: B-8-13.5-14.0
Lab Sample ID: 480-185650-9
Date Collected: 06/04/21 14:42
Matrix: Solid
Date Received: 06/05/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	584126	06/05/21 19:34	CLA	TAL BUF

Client Sample ID: B-8-13.5-14.0
Lab Sample ID: 480-185650-9
Date Collected: 06/04/21 14:42
Matrix: Solid
Date Received: 06/05/21 08:00
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			584487	06/08/21 15:12	ATG	TAL BUF
Total/NA	Analysis	8270D		1	585429	06/16/21 03:33	JMM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Job ID: 480-185650-1
Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NY044	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte
8270D	3550C	Solid	1,4-Dioxane
8270D SIM ID	3510C	Water	1,4-Dioxane
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Tetra Tech GEO
Project/Site: GE Pompey, NY Investigation

Job ID: 480-185650-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Tetra Tech GEO
Job ID: 480-185650-1
Project/Site: GE Pompey, NY Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185650-1	B-4-6-10	Water	06/03/21 09:40	06/05/21 08:00	
480-185650-2	B-4-13-17	Water	06/03/21 11:00	06/05/21 08:00	
480-185650-3	B-5-6-10	Water	06/03/21 12:40	06/05/21 08:00	
480-185650-4	B-5-13-17	Water	06/03/21 14:15	06/05/21 08:00	
480-185650-5	B-6-12-16	Water	06/03/21 16:25	06/05/21 08:00	
480-185650-6	B-7-6-10	Water	06/04/21 09:35	06/05/21 08:00	
480-185650-7	B-7-13-17	Water	06/04/21 09:50	06/05/21 08:00	
480-185650-8	B-8-8.0-8.5	Solid	06/04/21 14:38	06/05/21 08:00	
480-185650-9	B-8-13.5-14.0	Solid	06/04/21 14:42	06/05/21 08:00	

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

Chain of Custody Record

eurofins | Environment Testing America

Syracuse

Client Information	Sampler: B. Kudla-Williams	Lab PM: Fischer, Brian J	Carrier Tracking No(s): #225	COC No: 480-160156-35246.5
Client Contact: Ms. Bailey Kudla-Williams	Phone: 805-501-8053	E-Mail: Brian.Fischer@Eurofinset.com	State of Origin:	Page: Page ~~5 of 5~~ 1 of 1
Company: Tetra Tech GEO	PWSID:			Job #:
Address: 3136 South Winton Road Suite 303	Due Date Requested:			
City: Rochester	TAT Requested (days): Standard TAT			
State, Zip: NY, 14623	Compliance Project: Δ Yes Δ No			
Phone: 805-501-8053(Tel)	PO #: 510875			
Email: bailey.kudlawilliams@tetratech.com	WO #:			
Project Name: GE Pompey, NY Investigation	Project #: 48023743			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3

480-185650 Chain of Custody

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)	8270D_SIM_MS_ID - SIM List	8260C - TCL list OLM04.2	8270D, Moisture	Total Number of c	Special Instructions/Note:
Preservation Code:							N	N	N		
B-4_6-10	6-3-21	0940	G	~~Solid~~ Water			X			2	
B-4_13-17		1100		~~Solid~~ water			X			2	
B-5_6-10		1240		water			X			2	
B-5_13-17		1415		water			X			2	
B-6_12-16		1625		water			X			2	
B-7_6-10	6-4-21	0935	G	water			X			2	
B-7_13-17		0950		water			X		X	2	
B-8_8.0-8.5_Soil		1438		Solid			~~X~~		X	1	
B-8_13.5-14.0_Soil		1442		Solid			~~X~~		X	1	

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
1		6-4-21 17:45	TT		6-4-21 17:45	
2		6-4-21, 1900	Syr		6/5/21 0800	TAL
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: #1 2.9

Ver: 11/01/2020

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6/18/2021

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 480-185650-1

Login Number: 185650

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

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	
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	TTG
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	